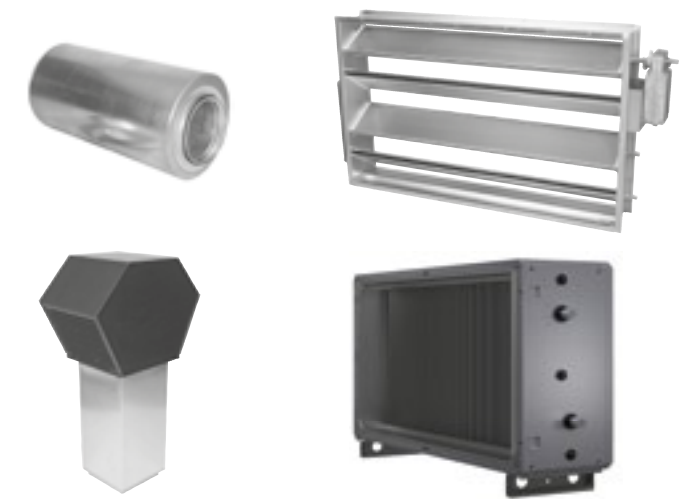


# GOLD

Air Handling Unit

Product catalog

## Complements and Accessories



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## Complements and Accessories

### GOLD RX/HC

#### General

RX/HC is a complete reversible heat pump, fully integrated in the GOLD air handling unit.

#### Mechanical Design

RX/HC replaces the GOLD air handling unit's ordinary heat exchanger section.

RX/HC is available in all variants to match the equivalent GOLD air handling unit's different fan placements and right respective left-hand designs.

RX/HC consists of one section with sorption rotor and one section on each side of this that contains heating/cooling engineering components.

All components from a cooling and electrical standpoint are pre-wired.

The RX/HC section can be delivered in a variant with split refrigerant circuit. The RX/HC section can be divided into three units for transport into the work site. Assembly of the RX/HC section may only be performed by certified refrigeration technicians.

Composed of flush-mounted cover panels and inspection doors. The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

The evaporator and condenser consist of copper tubes and profiled aluminium fins. Evaporators and condensers are hydrophilically treated.

RX/HC is test run prior to delivery.

RX/HC are designed and tested for ambient temperatures from -40°C to +40°C. The heat pump function withstands temperatures from -25°C to +35°C.

#### Control and Regulation

Heating/cooling engineering components have a separate integrated electrical cabinet which are operated via the GOLD air handling unit's hand-held micro terminal.

The refrigerant circuit contains a variable speed controlled compressor (all sizes) that regulates the output. Size 040-080 also comprises an on/off compressor for increased capacity.

#### Completely direct-acting system

The RX/HC has a completely direct-acting system. It has an evaporation coil for direct-evaporating refrigerant on the cold side and a condenser coil on the hot side.



RX/HC, size 012



#### Refrigerant

The refrigerant circuit is charged with refrigerant on delivery. The volume of refrigerant for each size is tabulated in the Technical Data Table.

Type R410A refrigerant is used. At present, this refrigerant has no known influence on the ozone layer and no known future restrictions are anticipated.

Inspection of the installation, obligation to report and periodic leakage tracing must be carried out according to the F-Gas Regulation EU/2024/573 and associated local legislation, also refer to the separate Installation and Maintenance Instructions for GOLD RX/HC.

#### Installation tips

When positioning the cooling unit, bear in mind that it must be possible to open the inspection doors as well as connect drainage pipework and power supply and control wiring without difficulty.

#### To drain the air cooler

The coils in RX/HC are equipped with a condensate drain tray and a drainage connection (condensate forms in the evaporator). The condensate discharge pipework must be connected across a water trap (accessory) to the drain connections of the cooling unit and must run with continuous slope to a drain gully. The air handling unit must be raised at least 50 mm to provide space for the water trap, ideally this is done with the support feet (accessory).

## Complements and Accessories

### GOLD RX/HC

#### Defrost

There are four options to defrost the exhaust coil (for the heat pump function), see below and the following page. For sizing, the product selection program AHU Design proposes suitable defrosting options for the specific operating case.

#### Reversing the refrigerant circuit.

Reversing the refrigerant circuit increases the temperature of the refrigerant in the exhaust coil, which means that the coil defrosts from the inside.

#### Reversing the refrigerant circuit + Electric air heater

Reversing the refrigerant circuit increases the temperature of the refrigerant in the exhaust coil, which means that the coil defrosts from the inside.

An electric air heater (accessory) is placed in front of the rotating heat exchanger, see diagram.

For defrosting, the electric air heater increases the temperature of the air before the heat exchanger. The heat exchanger transfers heat energy to the exhaust air. The temperature across the exhaust coil increases.

#### Reversing the refrigerant circuit + Recirculation

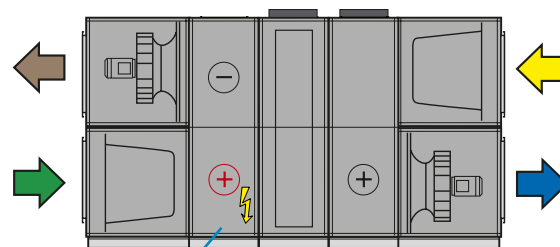
Reversing the refrigerant circuit increases the temperature of the refrigerant in the exhaust coil, which means that the coil defrosts from the inside.

Recirculation can occur with the recirculation section (insulated casing, all sizes) or recirculation damper (non-insulated casing, size 014 - 030).

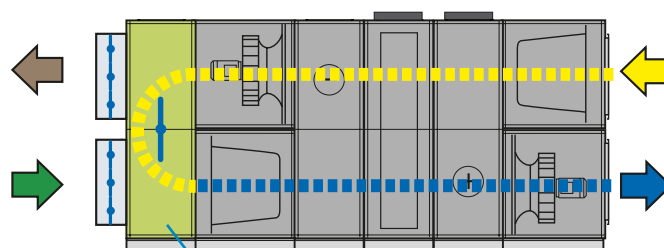
#### Recirculation section RX/HC

An air recirculation section RX/HC (accessory) is placed on the air handling unit's outdoor air/exhaust side, see diagram.

For defrosting, the air recirculation damper opens fully and the outdoor air/exhaust air damper closes fully. The warm extract air is recirculated. The temperature across the exhaust coil increases.



Electrical air heater placed in RX/HC (accessory)

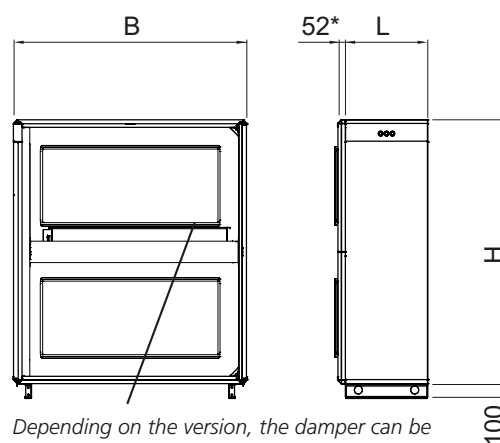


Air recirculation section RX/HC (accessory)

Outdoor air    Supply air    Extract air    Exhaust air



Air recirculation section RX/HC (accessory)



Depending on the version, the damper can be mounted in the upper or lower level.

\* End connection panel selectable.

| For GOLD | B    | H    | L   | kg  | End conn. panel, if required kg/pc. |
|----------|------|------|-----|-----|-------------------------------------|
| 011/012  | 1199 | 1295 | 565 | 92  | 13                                  |
| 014/020  | 1400 | 1551 | 565 | 110 | 19                                  |
| 025/030  | 1600 | 1811 | 565 | 125 | 23                                  |
| 035/040  | 1990 | 2159 | 565 | 142 | 34                                  |
| 050/060  | 2318 | 2288 | 565 | 168 | 34                                  |
| 070/080  | 2637 | 2640 | 565 | 229 | 40                                  |

## Complements and accessories

### GOLD RX/HC

#### Defrost

##### Recirculation damper RX/HC, size 011 - 030

A recirculation damper RX/HC and two shut-off dampers TBSA with damper actuator on/off with spring return (accessory) are placed on the air handling unit's outdoor air/exhaust side, see diagram. For further information about TBSA, refer to the section Duct accessories, non-insulated.

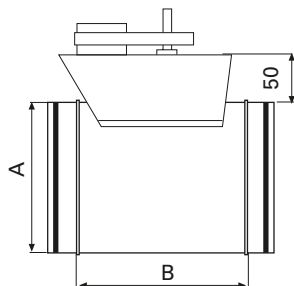
The recirculation damper can be used for both GOLD RX/HC and GOLD RX/HC Top.

For defrosting, the recirculation damper opens fully and the outdoor air/exhaust air damper closes fully. The warm extract air is recirculated. The temperature across the exhaust coil increases.

Ducts and transition pieces are installed on site (not Swegon).

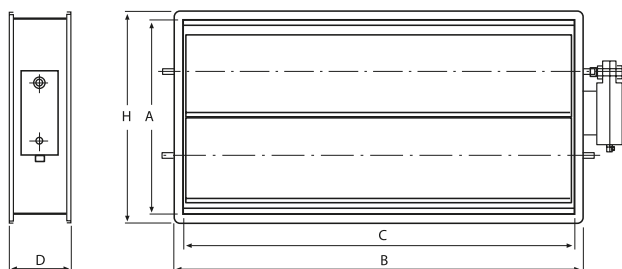
##### Dimensions recirculation damper

##### GOLD RX/HC, size 011/012



| GOLD    | A     | B   | kg |
|---------|-------|-----|----|
| 011/012 | Ø 500 | 210 | 8  |

##### GOLD RX/HC, size 014 - 030



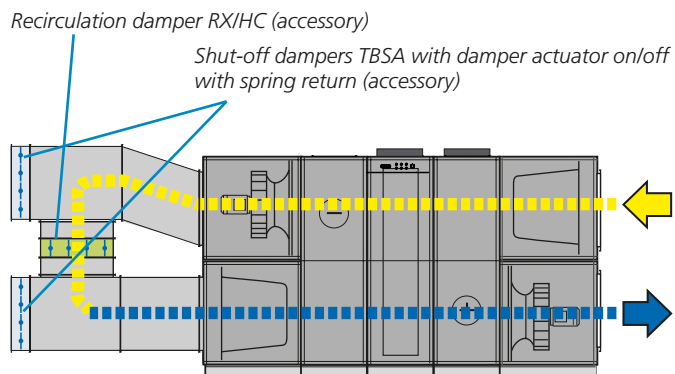
| GOLD      | A   | B   | C   | D   | H   | kg |
|-----------|-----|-----|-----|-----|-----|----|
| 014 - 030 | 460 | 940 | 900 | 220 | 500 | 18 |

#### Reversing the refrigerant circuit + Electric air heater + Recirculation

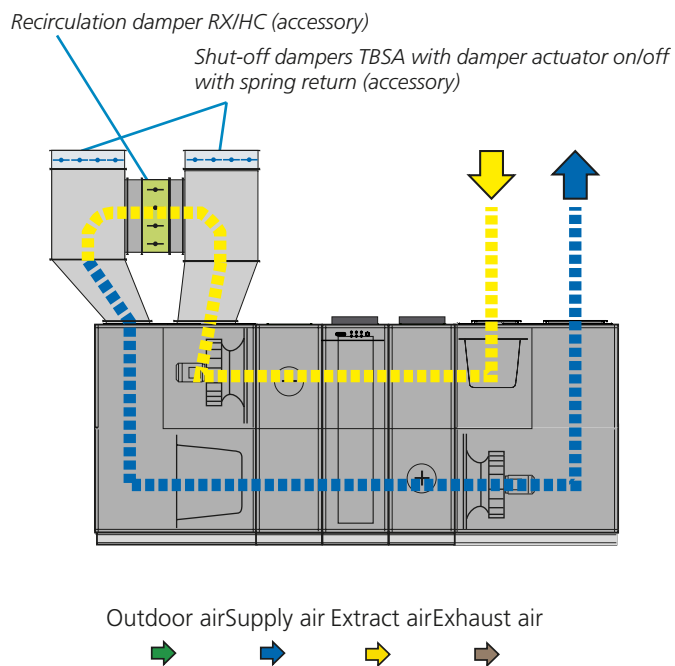
Electric air heater and recirculation can be operated in sequence or in combination. Max. outdoor air temperature for recirculation can be set.

See previous section for more detailed information about each defrosting type.

##### Example GOLD RX/HC with recirculation damper



##### Example GOLD RX/HC Top with recirculation damper



## Complements and Accessories

### GOLD RX/HC

#### Technical data

| Size | Airflow at SFPv 1.8 (m³/s) | Min. airflow (m³/s) | Cooling cap. (kW) <sup>1)</sup> | Heating cap. (kW) <sup>2)</sup> | Refrigerant (kg) | Power supply              | EER <sup>1)</sup> | COP <sup>2)</sup> | Max. cooling cap. (kW) <sup>3)</sup> |
|------|----------------------------|---------------------|---------------------------------|---------------------------------|------------------|---------------------------|-------------------|-------------------|--------------------------------------|
| 011  | 0.89                       | 0,45                | 14.8 / 8.2                      | 44.0 / 4.1                      | 6                | 3 x 400V ±10%, +N +PE 16A | 4.7               | 3.5               | 50,5                                 |
| 012  | 0.97                       | 0,50                | 15.9 / 8.9                      | 47.4 / 4.8                      | 8                | 3 x 400V ±10%, +N +PE 25A | 4.6               | 3.5               | 50,5                                 |
| 014  | 1.48                       | 0,75                | 24.2 / 13.6                     | 72.0 / 7.9                      | 8                | 3 x 400V ±10%, +N +PE 25A | 5.3               | 3.6               | 68,2                                 |
| 020  | 1.53                       | 0,75                | 25.0 / 14.1                     | 74.1 / 8.4                      | 10               | 3 x 400V ±10%, +N +PE 25A | 4.4               | 3.4               | 68,2                                 |
| 025  | 2.07                       | 0,95                | 33.7 / 19.1                     | 100.1 / 11.5                    | 10               | 3 x 400V ±10%, +N +PE 25A | 4.4               | 3.4               | 88,9                                 |
| 030  | 2.10                       | 0,95                | 34.1 / 19.4                     | 101.4 / 11.8                    | 13               | 3 x 400V ±10%, +N +PE 32A | 4.9               | 3.4               | 88,9                                 |
| 035  | 3.12                       | 1.50                | 51.2 / 28.5                     | 152.0 / 16.4                    | 15               | 3 x 400V ±10%, +N +PE 50A | 4.5               | 3.2               | 141,2                                |
| 040  | 3.30                       | 1.10                | 53.8 / 30.3                     | 159.7 / 18.3                    | 17.5             | 3 x 400V ±10%, +N +PE 50A | 4.9               | 3.3               | 141,2                                |
| 050  | 4.22                       | 1.40                | 68.8 / 38.9                     | 204.4 / 23.2                    | 17.5             | 3 x 400V ±10%, +N +PE 63A | 4.3               | 3.1               | 183,1                                |
| 060  | 4.25                       | 1.50                | 69.3 / 39.2                     | 205.7 / 23.5                    | 20               | 3 x 400V ±10%, +N +PE 63A | 3.9               | 3.0               | 183,1                                |
| 070  | 5.51                       | 2.00                | 90.5 / 50.5                     | 268.8 / 28.7                    | 25               | 3 x 400V ±10%, +N +PE 63A | 4.0               | 2.9               | 251,1                                |
| 080  | 5.52                       | 2.10                | 90.6 / 50.6                     | 269.2 / 28.8                    | 30               | 3 x 400V ±10%, +N +PE 80A | 4.0               | 2.9               | 262,0                                |

<sup>1)</sup> For an outdoor temperature of 26°C, 50% RH, extract air temperature of 22°C, supply air temperature 16°C.

Cooling capacity: rotating heat exchange / coil HC.

<sup>2)</sup> For an outdoor temperature of -20°C, 95% RH, extract air temperature of 22°C, supply air temperature 20°C.

Heating capacity: rotating heat exchange / coil HC.

<sup>3)</sup> For an outdoor temperature of 34°C 50% RH, extract air temperature of 22°C, supply air temperature 16°C.

Max. cooling output: rotary heat exchanger and HC coil at max. air flow.

### Sizing in AHU Design

For correct sizing we refer to our AHU Design air handling unit selection program.

## Electrical and Control Equipment

### General

The RX/HC is internally fully wired and trial run prior to delivery.

Equipment for heating/cooling engineering components are collected in an integrated electrical cabinet.

The safety isolating switch is located on the connection hood (size 011-020) or the air handling unit's inspection side (size 025-080).

### Power supply

Wire the 400 V (5-conductor system) incoming power supply directly to the safety isolating switch.

Wire the electrical power supply connections according to the technical data tabulated above. Use delayed fuses! In applications where automatic circuit breakers are used, the circuit breakers must have C-characteristic.

### Control and Regulation

A ready-to-use communication cable with quick connector for on/off switching, cooling capacity control as well as in-operation indication and alarms is used. The communication cable is supplied together with the unit.

### Standards

The RX/HC is CE labelled in accordance with PED and the provisions of the EMC Directive for interference levels defined in SS-EN-50081-1 and SS-EN-61000-6-2 Standards (electromagnetic emissions in dwellings, office buildings, shops and similar environments as well as for immunity in industrial environments).

### Applicable to installations in Sweden:

The unit meets the provisions of the ELSÄK-FS 1999:5 and SS-EN 60,204-1 and other applicable Swedish electrical safety standards and rules.

### Hand-held terminal

Settings can be entered, readings can be viewed and possible alarms are displayed in the hand-held micro terminal of the GOLD air handling unit.

## Complements and Accessories

### GOLD RX/C

#### General

RX/C is a complete cooling unit, fully integrated in the GOLD air handling unit.

#### Mechanical Design

RX/C replaces the GOLD air handling unit's ordinary heat exchanger section.

RX/C is available in all variants to match the equivalent GOLD air handling unit's different fan placements and right respective left-hand designs.

RX/C consists of one section with sorption rotor and one section on each side of this that contains heating/cooling engineering components.

All components from a cooling and electrical standpoint are pre-wired.

The RX/C section can be delivered in a variant with split refrigerant circuit. The RX/C section can be divided into three units for transport into the work site. Assembly of the RX/C section may only be performed by certified refrigeration technicians.

Composed of flush-mounted cover panels and inspection doors. The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

The evaporator and condenser consist of copper tubes and profiled aluminium fins.

RX/C is test run prior to delivery.

RX/C are designed and tested for ambient temperatures from -40°C to +40°C.

#### Control and Regulation

Cooling engineering components have a separate integrated electrical cabinet which is operated via the GOLD air handling unit's hand-held micro terminal.

The refrigerant circuit contains a variable speed controlled compressor (all sizes) that regulates the output. Size 040-080 also comprises an on/off compressor for increased capacity.

#### Completely direct-acting system

The RX/C has a completely direct-acting system. It has an evaporation coil for direct-evaporating refrigerant on the cold side and a condenser coil on the hot side.



RX/C, size 012



#### Refrigerant

The refrigerant circuit is charged with refrigerant on delivery. The volume of refrigerant for each size is tabulated in the Technical Data Table.

Type R410A refrigerant is used. At present, this refrigerant has no known influence on the ozone layer and no known future restrictions are anticipated.

Inspection of the installation, obligation to report and periodic leakage tracing must be carried out according to the F-Gas Regulation EU/2024/573 and associated local legislation, also refer to the separate Installation and Maintenance Instructions for GOLD RX/C.

#### Installation tips

When positioning the cooling unit, bear in mind that it must be possible to open the inspection doors as well as connect drainage pipework and power supply and control wiring without difficulty.

#### To drain the air cooler

The coils in RX/C are equipped with a condensate drain tray and a drainage connection (condensate forms in the evaporator). The condensate discharge pipework must be connected across a water trap (accessory) to the drain connections of the cooling unit and must run with continuous slope to a drain gully. The air handling unit must be raised at least 50 mm to provide space for the water trap, ideally this is done with the support feet (accessory).

## Complements and Accessories

### GOLD RX/C

#### Technical data

| Size | Airflow at SFPv<br>1.8 (m³/s) | Min. airflow<br>(m³/s) | Cooling cap.<br>(kW) <sup>1)</sup> | Refrigerant<br>(kg) | Power supply              | EER <sup>1)</sup> |
|------|-------------------------------|------------------------|------------------------------------|---------------------|---------------------------|-------------------|
| 011  | 0.89                          | 0,45                   | 14.8 / 8.2                         | 6                   | 3 x 400V ±10%, +N +PE 16A | 4.7               |
| 012  | 0.97                          | 0,50                   | 15.9 / 8.9                         | 8                   | 3 x 400V ±10%, +N +PE 25A | 4.6               |
| 014  | 1.48                          | 0,75                   | 24.2 / 13.6                        | 8                   | 3 x 400V ±10%, +N +PE 25A | 5.3               |
| 020  | 1.53                          | 0,75                   | 25.0 / 14.1                        | 10                  | 3 x 400V ±10%, +N +PE 25A | 4.4               |
| 025  | 2.07                          | 0,95                   | 33.7 / 19.1                        | 10                  | 3 x 400V ±10%, +N +PE 25A | 4.4               |
| 030  | 2.10                          | 0,95                   | 34.1 / 19.4                        | 13                  | 3 x 400V ±10%, +N +PE 32A | 4.9               |
| 035  | 3.12                          | 1.50                   | 51.2 / 28.5                        | 15                  | 3 x 400V ±10%, +N +PE 50A | 4.5               |
| 040  | 3.30                          | 1.10                   | 53.8 / 30.3                        | 17.5                | 3 x 400V ±10%, +N +PE 50A | 4.9               |
| 050  | 4.22                          | 1.40                   | 68.8 / 38.9                        | 17.5                | 3 x 400V ±10%, +N +PE 63A | 4.3               |
| 060  | 4.25                          | 1.50                   | 69.3 / 39.2                        | 20                  | 3 x 400V ±10%, +N +PE 63A | 3.9               |
| 070  | 5.51                          | 2.00                   | 90.5 / 50.5                        | 25                  | 3 x 400V ±10%, +N +PE 63A | 4.0               |
| 080  | 5.52                          | 2.10                   | 90.6 / 50.6                        | 30                  | 3 x 400V ±10%, +N +PE 80A | 4.0               |

<sup>1)</sup> For an outdoor temperature of 26°C, 50% RH, extract air temperature of 22°C, supply air temperature 16°C.  
Cooling capacity: rotating heat exchange / coil HC.

### Sizing in AHU Design

For correct sizing we refer to our AHU Design air handling unit selection program.

### Electrical and Control Equipment

#### General

The RX/C is internally fully wired and trial run prior to delivery.

Equipment for cooling engineering components is collected in an integrated electrical cabinet.

The safety isolating switch is located on the connection hood (size 011-020) or the air handling unit's inspection side (size 025-080).

#### Power supply

Wire the 400 V (5-conductor system) incoming power supply directly to the safety isolating switch.

Wire the electrical power supply connections according to the technical data tabulated above. Use delayed fuses! In applications where automatic circuit breakers are used, the circuit breakers must have C-characteristic.

### Control and Regulation

A ready-to-use communication cable with quick connector for on/off switching, cooling capacity control as well as in-operation indication and alarms is used. The communication cable is supplied together with the unit.

#### Standards

The RX/C is CE labelled in accordance with PED and the provisions of the EMC Directive for interference levels defined in SS-EN-50081-1 and SS-EN-61000-6-2 Standards (electromagnetic emissions in dwellings, office buildings, shops and similar environments as well as for immunity in industrial environments).

#### Applicable to installations in Sweden:

The unit meets the provisions of the ELSÄK-FS 1999:5 and SS-EN 60,204-1 and other applicable Swedish electrical safety standards and rules.

#### Hand-held terminal

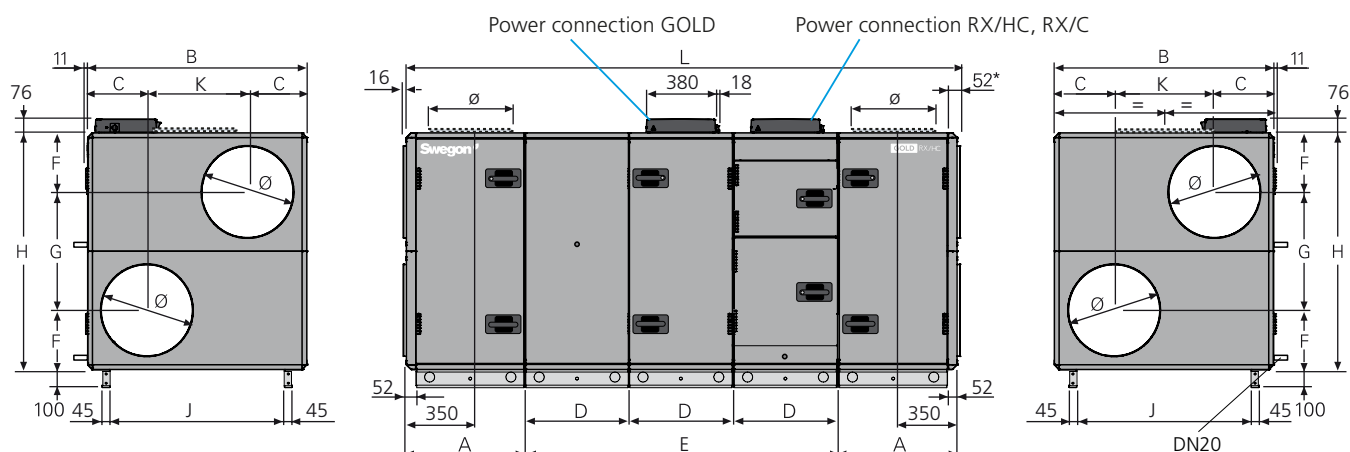
Settings can be entered, readings can be viewed and possible alarms are displayed in the hand-held micro terminal of the GOLD air handling unit.

## Complements and Accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

RX/HC 011, RX/C 011



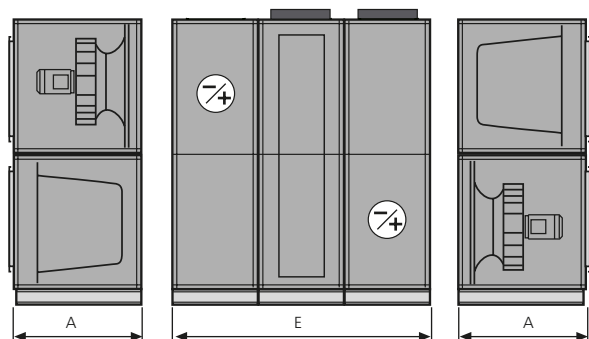
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the E-measurement. Placement of the air handling unit sections, duct connections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A   | B    | C   | D   | E    | F   | G   | H    | J   | K   | L    | Ø   | Weight, kg |
|------|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|------------|
| 011  | 647 | 1199 | 324 | 565 | 1695 | 324 | 647 | 1295 | 953 | 551 | 2989 | 500 | 737-845    |

#### Division into sections for transport



The unit can be divided into three air handling unit sections at the building site.

**Dimensions:** See A and E in the table above.

**Weight:** A = 135-175 kg,  
E = 467-495 kg.

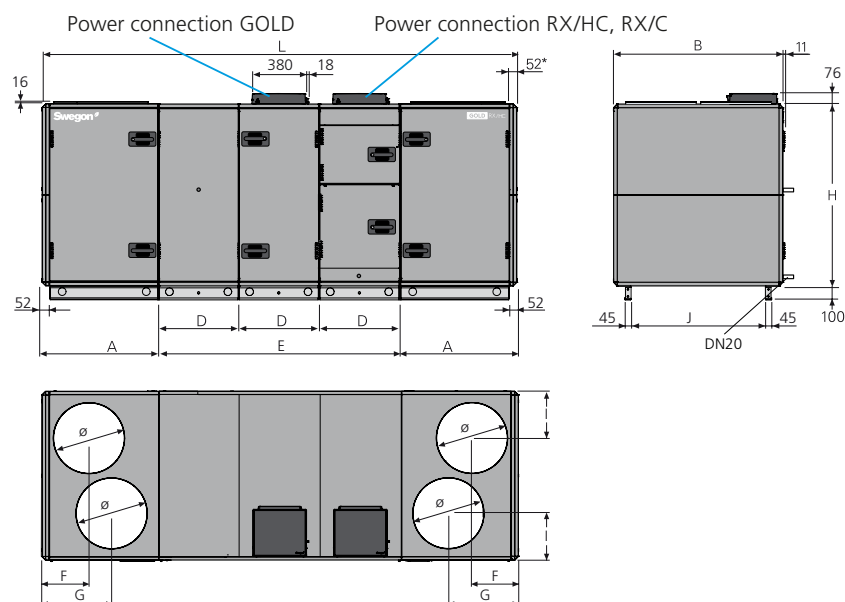
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC Top 011, RX/C Top 011

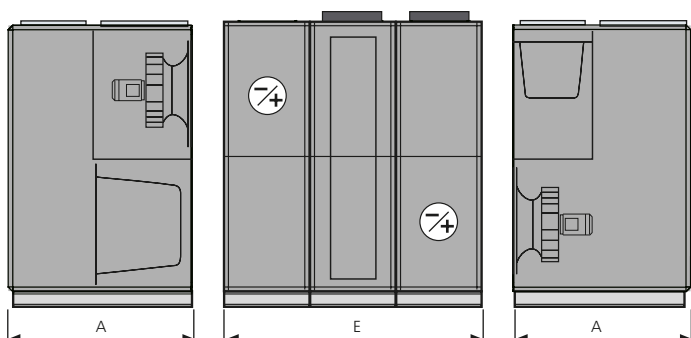


The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the E-measurement. Placement of the air handling unit sections, duct connections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

| Size | A   | B    | D   | E    | F   | G   | H    | I   | J   | L    | Ø   | Weight, kg |
|------|-----|------|-----|------|-----|-----|------|-----|-----|------|-----|------------|
| 011  | 827 | 1199 | 565 | 1695 | 332 | 500 | 1295 | 332 | 953 | 3349 | 500 | 837-867    |

#### Division into sections for transport



The unit can be divided into three air handling unit sections at the building site.

**Dimensions:** See A and E in the table above.

**Weight:** A = 185-186 kg,

E = 467-495 kg.

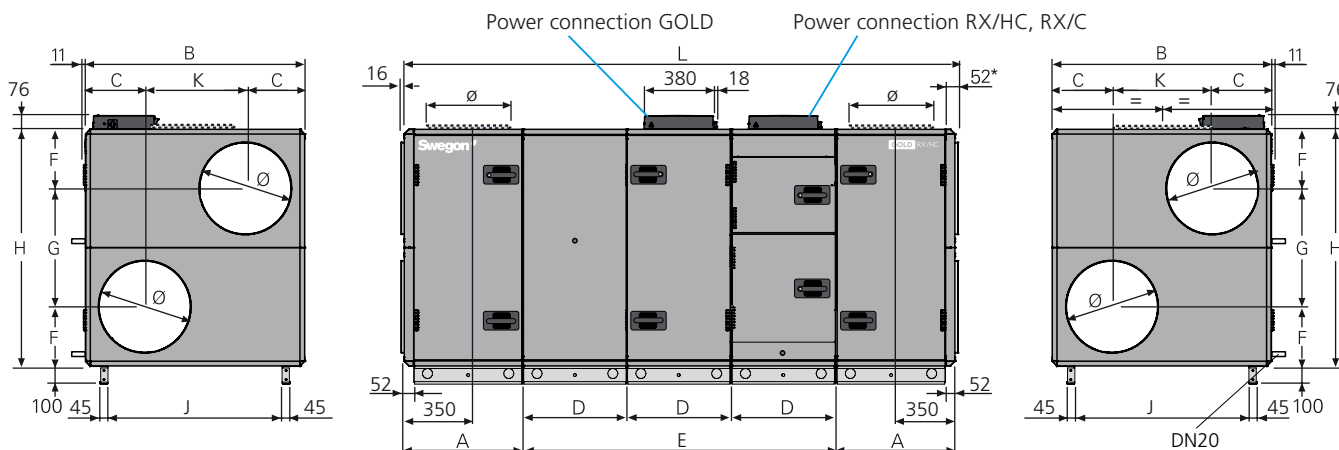
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and Accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

RX/HC 012, RX/C 012



The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the E-measurement. Placement of the air handling unit sections, duct connections, connection hood, drain pipe, etc. may vary depending on the selected variant.

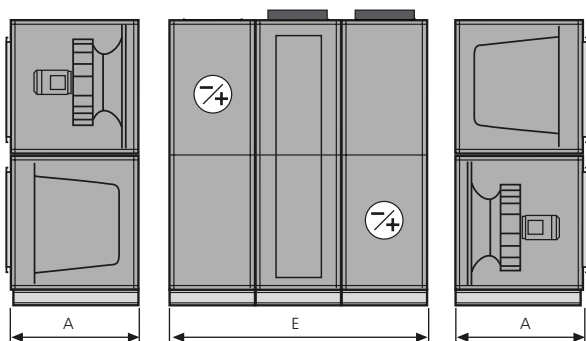
If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected.

The AHU can also be supplied with full face end connection panel (accessory).

| Size | A   | B    | C   | D   | E    | F   | G   | H    | J   | K   | L    | Ø   | Weight, kg |
|------|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|------------|
| 012  | 647 | 1199 | 324 | 565 | 1695 | 324 | 647 | 1295 | 953 | 551 | 2989 | 500 | 765-879    |

#### Division into sections for transport



The unit can be divided into three air handling unit sections at the building site.

**Dimensions:** See A and E in the table above.

**Weight:** A = 146-189 kg,  
E = 473-501 kg.

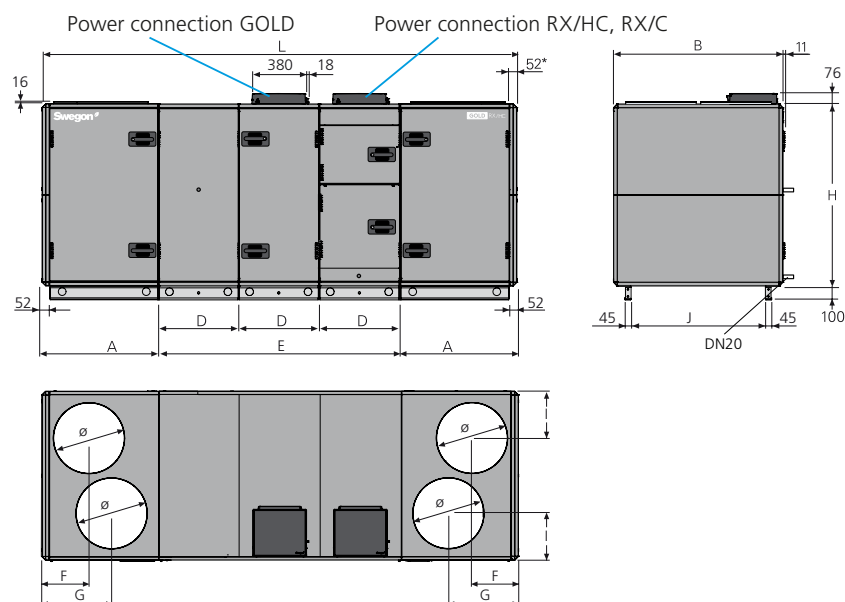
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC Top 012, RX/C Top 012

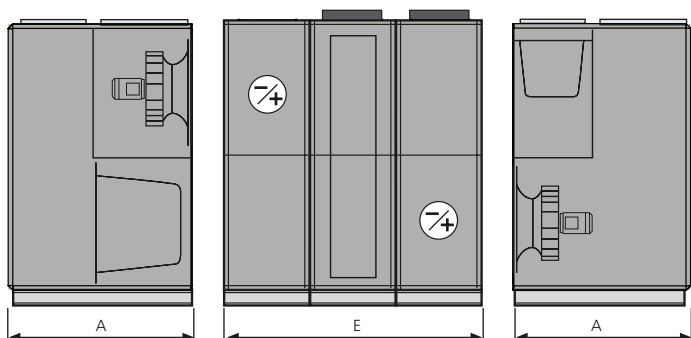


The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the E-measurement. Placement of the air handling unit sections, duct connections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

| Size | A   | B    | D   | E    | F   | G   | H    | I   | J   | L    | Ø   | Weight, kg |
|------|-----|------|-----|------|-----|-----|------|-----|-----|------|-----|------------|
| 012  | 827 | 1199 | 565 | 1695 | 332 | 500 | 1295 | 332 | 953 | 3349 | 500 | 865-901    |

#### Division into sections for transport



The unit can be divided into three air handling unit sections at the building site.

**Dimensions:** See A and E in the table above.

**Weight:** A = 196-200 kg,  
E = 473-501 kg.

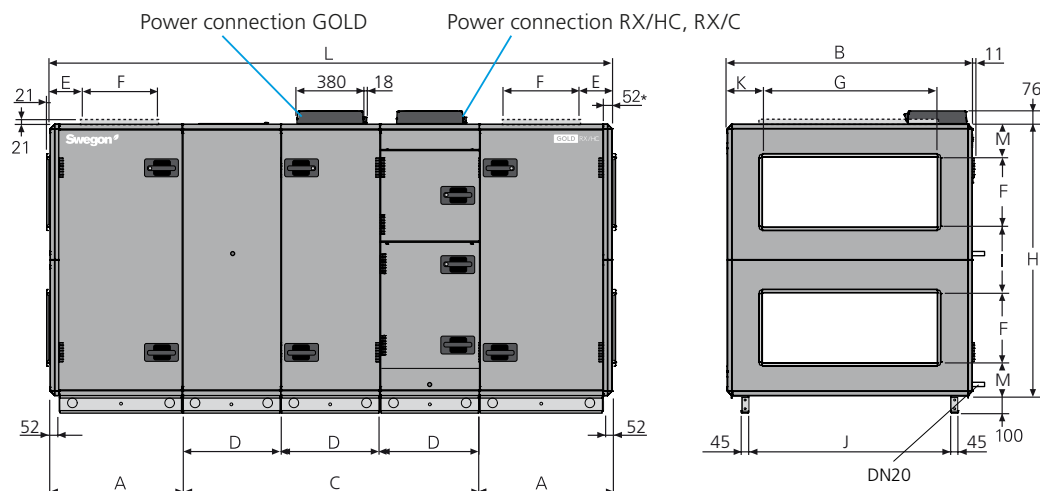
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and Accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC 014, RX/C 014



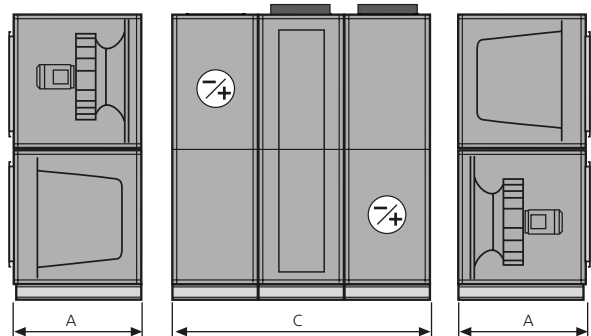
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A     | B    | C    | D   | E   | F   | G    | H    | I   | J    | K   | L    | M   | Weight, kg |
|------|-------|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|------------|
| 014  | 757,5 | 1400 | 1695 | 565 | 205 | 400 | 1000 | 1551 | 375 | 1154 | 200 | 3210 | 188 | 934-1074   |

#### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 190-244 kg,

C = 554-586 kg.

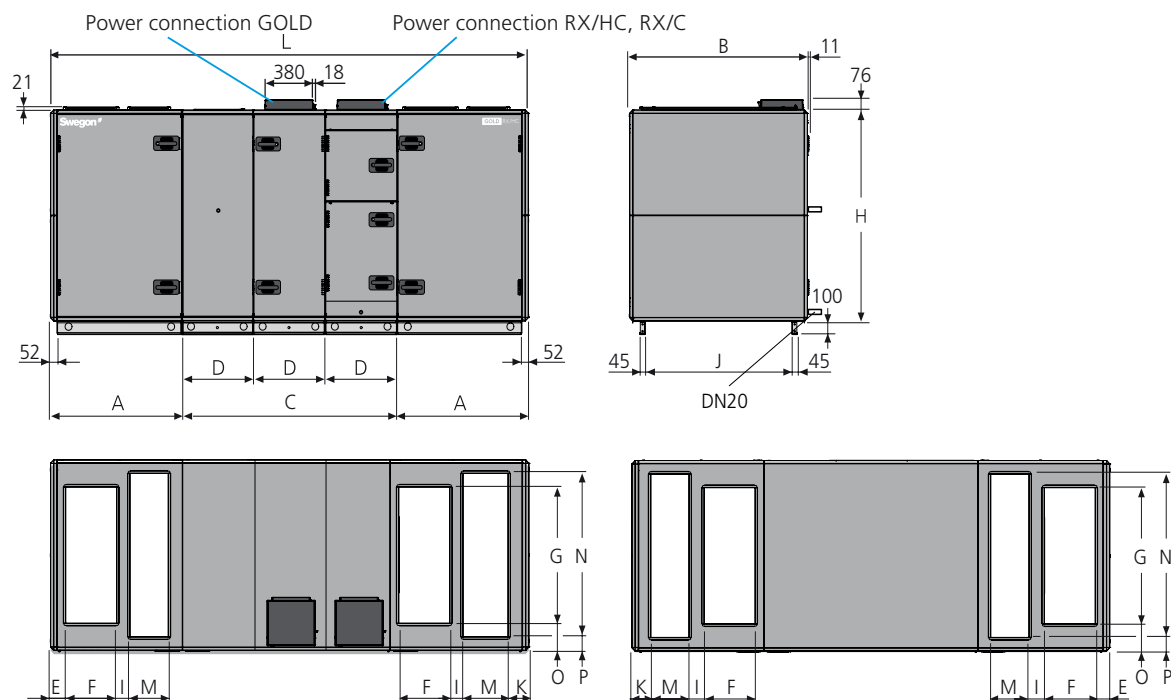
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

RX/HC Top 014, RX/C Top 014

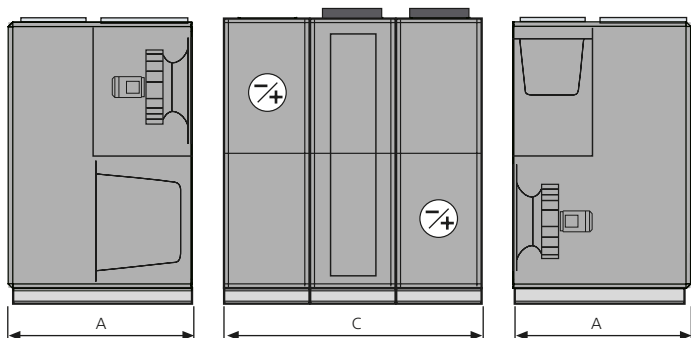


The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

| Size | A    | B    | C    | D   | E   | F   | G    | H    | I   | J    | K   | L    | M   | N    | O   | P   | Weight, kg |
|------|------|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|------|-----|-----|------------|
| 014  | 1039 | 1400 | 1695 | 565 | 120 | 400 | 1000 | 1551 | 106 | 1154 | 165 | 3773 | 300 | 1200 | 200 | 100 | 1088-1156  |

#### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 267-285 kg,  
C = 554-586 kg.

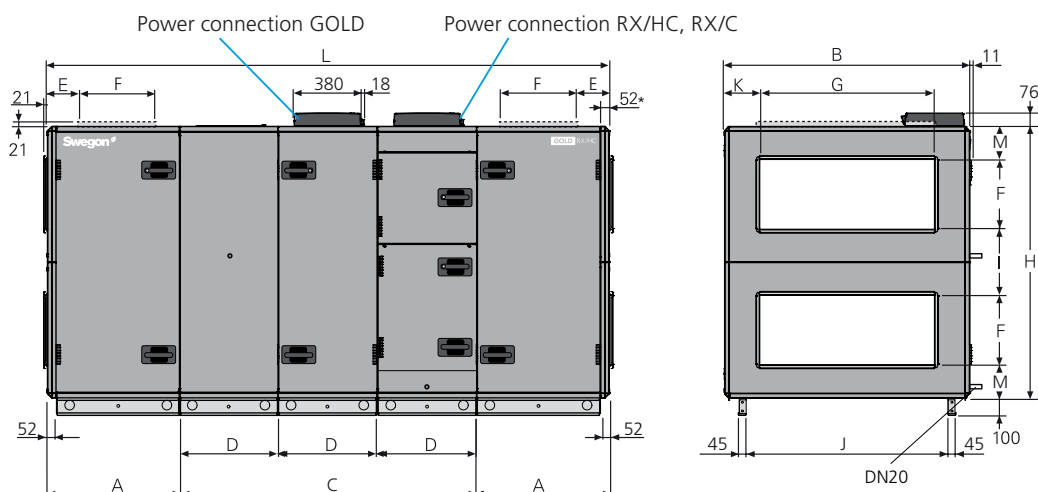
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and Accessories

### GOLD RX/HC, GOLD RX/C

### Dimensions and weights

#### RX/HC 020, RX/C 020



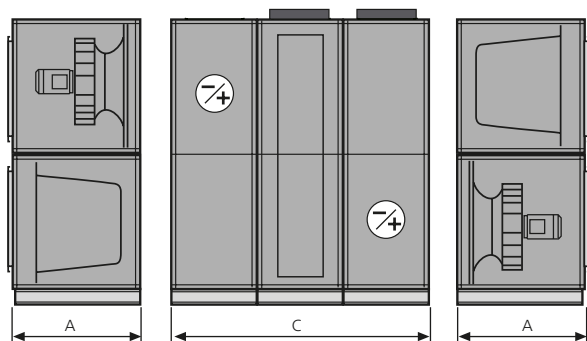
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A     | B    | C    | D   | E   | F   | G    | H    | I   | J    | K   | L    | M   | Weight, kg |
|------|-------|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|------------|
| 020  | 757,5 | 1400 | 1695 | 565 | 205 | 400 | 1000 | 1551 | 375 | 1154 | 200 | 3210 | 188 | 964-1124   |

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 200-264 kg,

C = 564-596 kg.

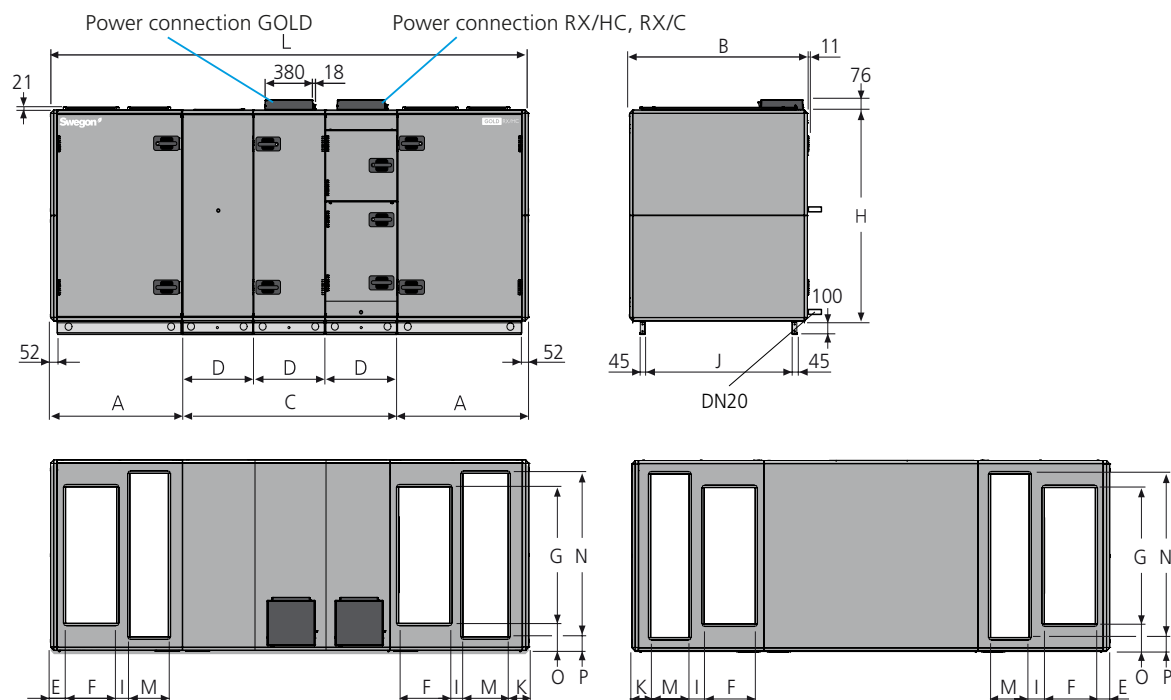
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC Top 020, RX/C Top 020

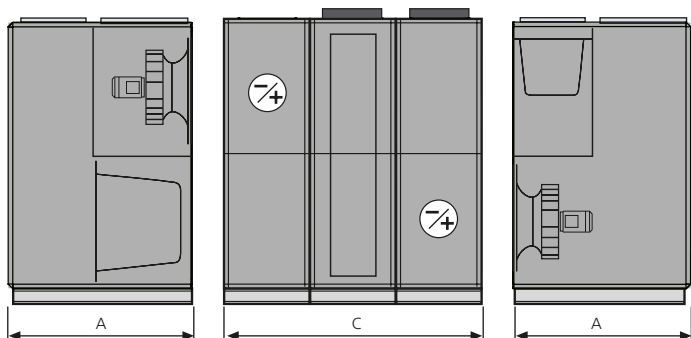


The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

| Size | A    | B    | C    | D   | E   | F   | G    | H    | I   | J    | K   | L    | M   | N    | O   | P   | Weight, kg |
|------|------|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|------|-----|-----|------------|
| 020  | 1039 | 1400 | 1695 | 565 | 120 | 400 | 1000 | 1551 | 106 | 1154 | 165 | 3773 | 300 | 1200 | 200 | 100 | 1118-1210  |

#### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 277-307 kg,

C = 564-596 kg.

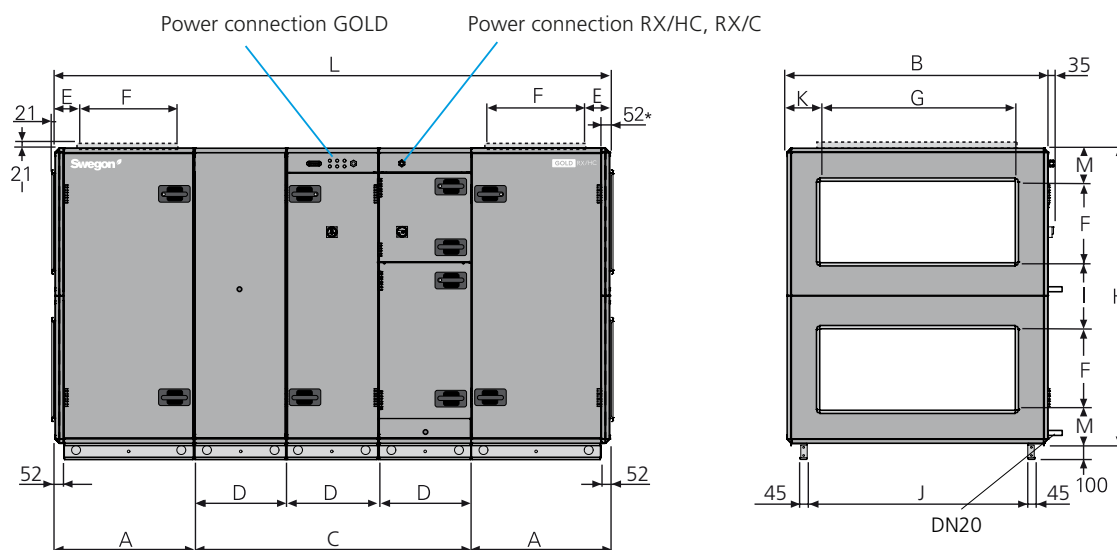
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and Accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC 025, RX/C 025



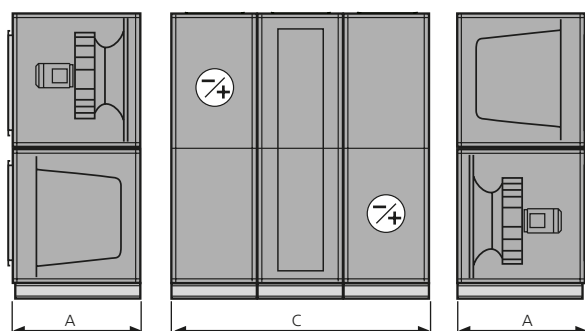
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A   | B    | C    | D   | E   | F   | G    | H    | I   | J    | K   | L    | M   | Weight, kg |
|------|-----|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|------------|
| 025  | 848 | 1600 | 1695 | 565 | 200 | 500 | 1200 | 1811 | 405 | 1354 | 200 | 3391 | 203 | 1238-1445  |

#### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 249-333 kg,

C = 740-779 kg.

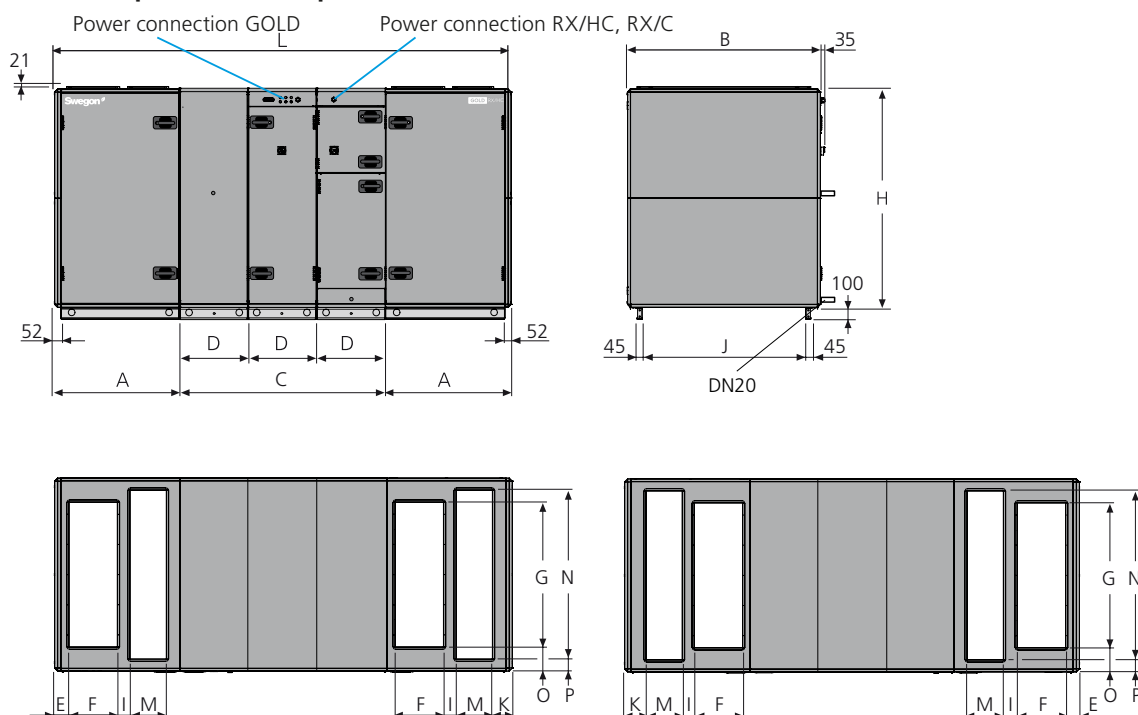
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC Top 025, RX/C Top 025

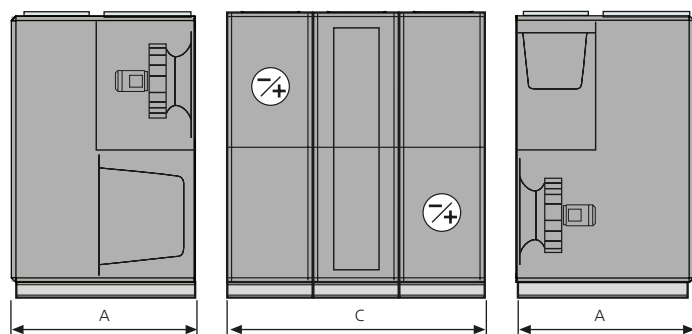


The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

| Size | A    | B    | C    | D   | E   | F   | G    | H    | I   | J    | K   | L    | M   | N    | O   | P   | Weight, kg |
|------|------|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|------|-----|-----|------------|
| 025  | 1039 | 1600 | 1695 | 565 | 120 | 400 | 1200 | 1811 | 106 | 1354 | 165 | 3773 | 300 | 1400 | 200 | 100 | 1378-1507  |

#### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 319-364 kg,

C = 740-779 kg.

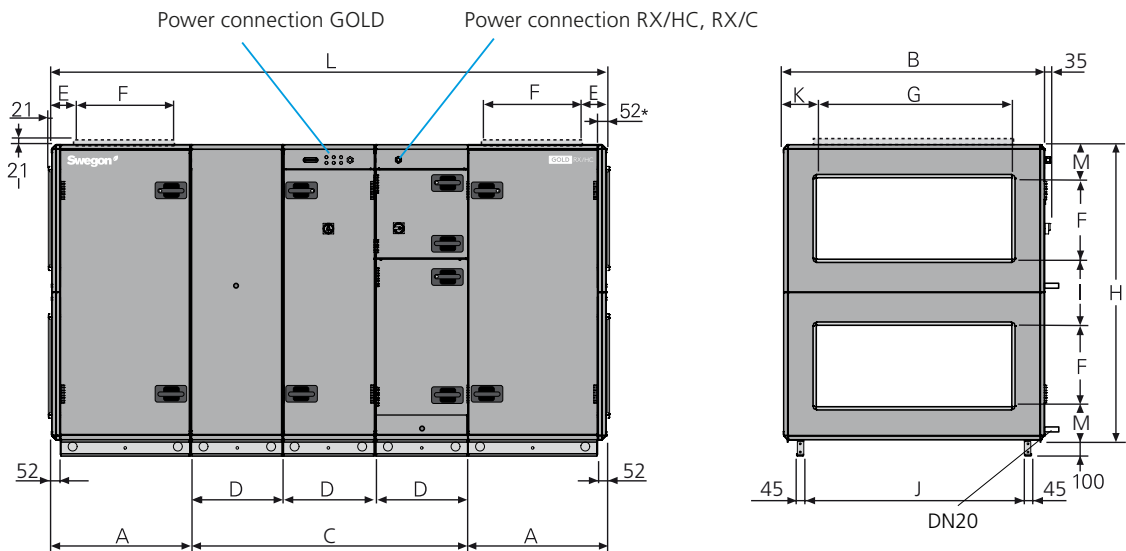
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

Complements and Accessories

GOLD RX/HC, GOLD RX/C

Dimensions and weights

RX/HC 030, RX/C 030



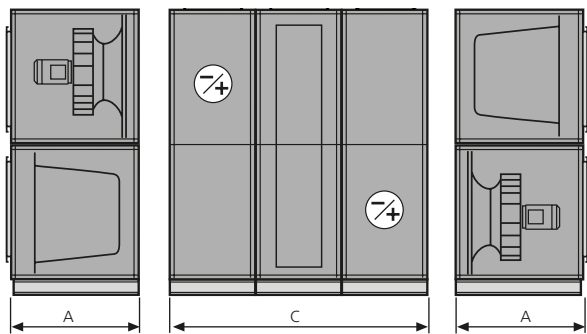
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A   | B    | C    | D   | E   | F   | G    | H    | I   | J    | K   | L    | M   | Weight, kg |
|------|-----|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|------------|
| 030  | 848 | 1600 | 1695 | 565 | 200 | 500 | 1200 | 1811 | 405 | 1354 | 200 | 3391 | 203 | 1300-1479  |

Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 275-345 kg,  
C = 750-789 kg.

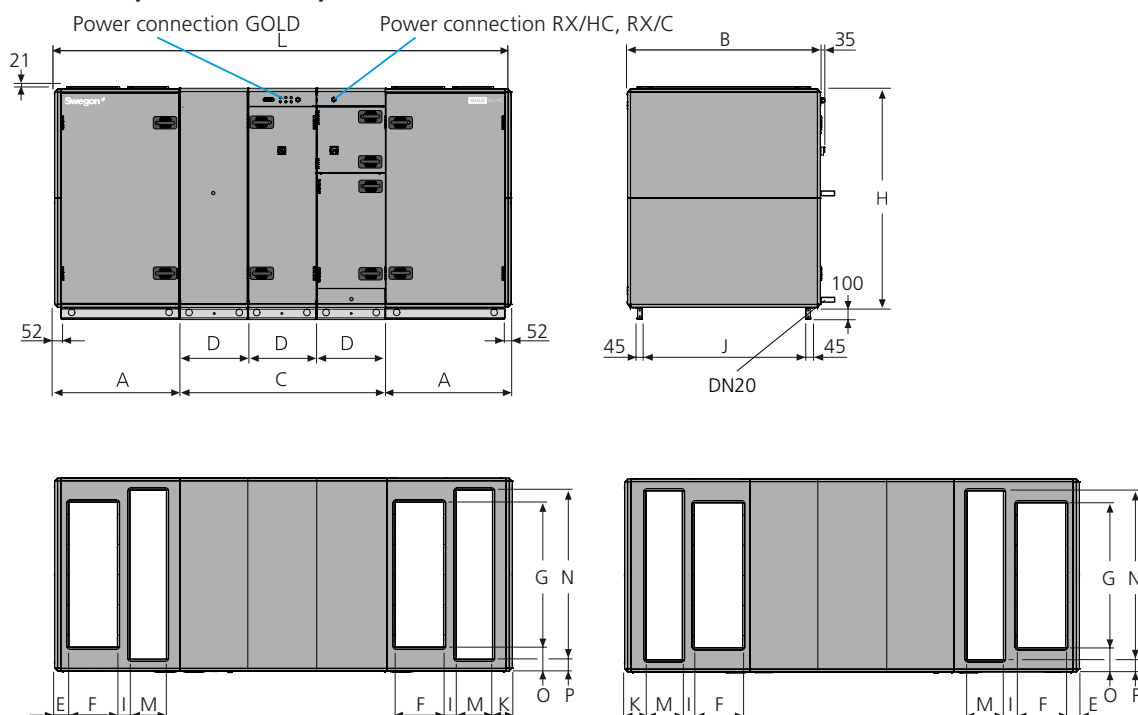
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC Top 030, RX/C Top 030

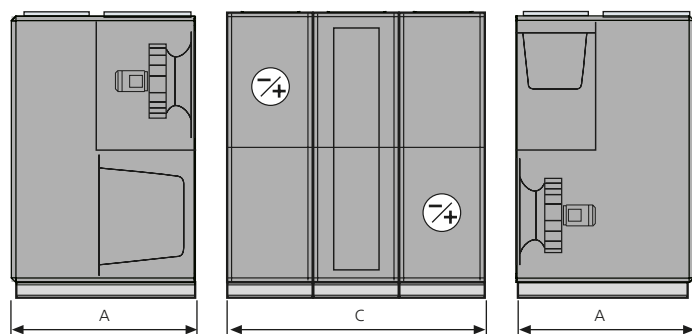


The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

| Size | A    | B    | C    | D   | E   | F   | G    | H    | I   | J    | K   | L    | M   | N    | O   | P   | Weight, kg |
|------|------|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|------|-----|-----|------------|
| 030  | 1039 | 1600 | 1695 | 565 | 120 | 400 | 1200 | 1811 | 106 | 1354 | 165 | 3773 | 300 | 1400 | 200 | 100 | 1440-1541  |

#### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 345-376 kg,

C = 750-789 kg.

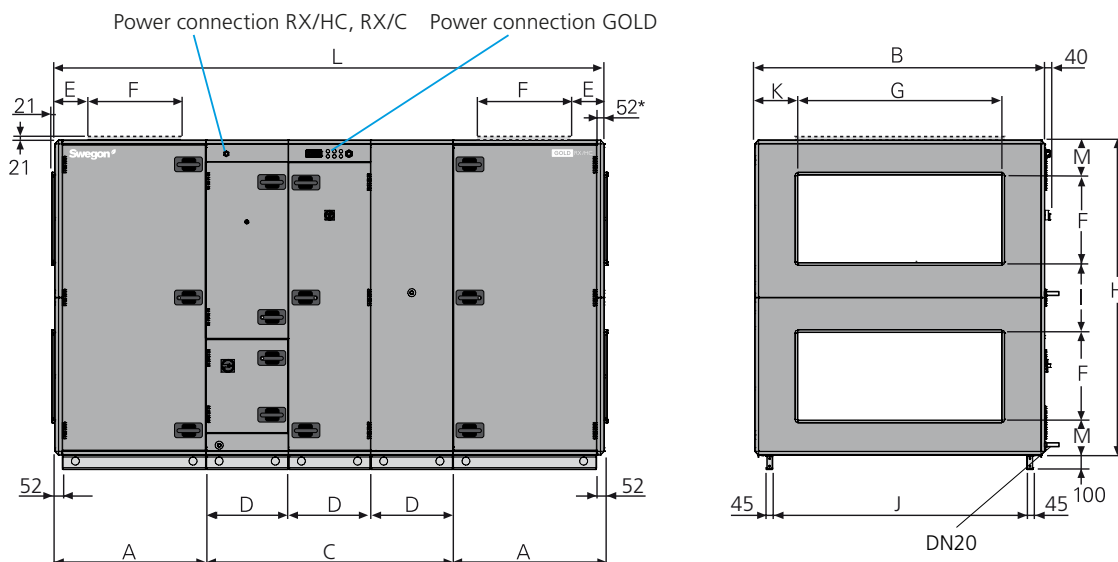
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and Accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC 035, RX/C 035



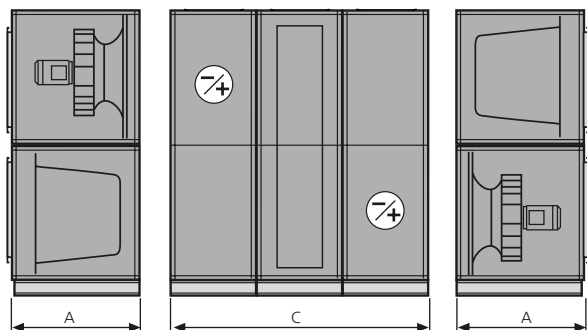
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A      | B    | C    | D   | E   | F   | G    | H    | I   | J    | K   | L    | M   | Weight, kg |
|------|--------|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|------------|
| 035  | 1038,5 | 1990 | 1695 | 565 | 245 | 600 | 1400 | 2159 | 479 | 1744 | 295 | 3772 | 240 | 1664-1922  |

#### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 377-482 kg,  
C = 910-958 kg.

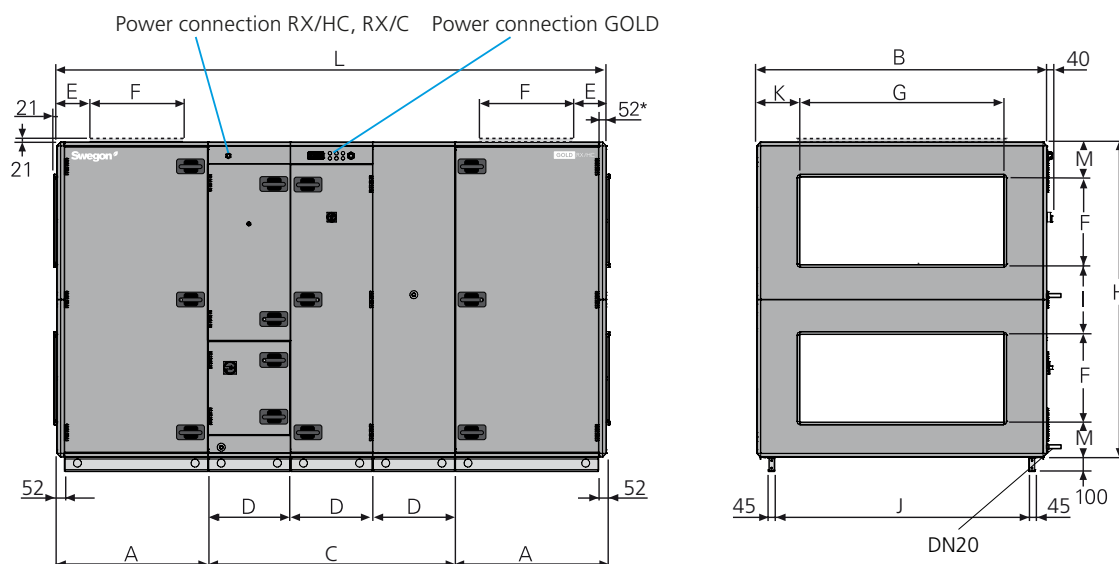
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and Accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC 040, RX/C 040



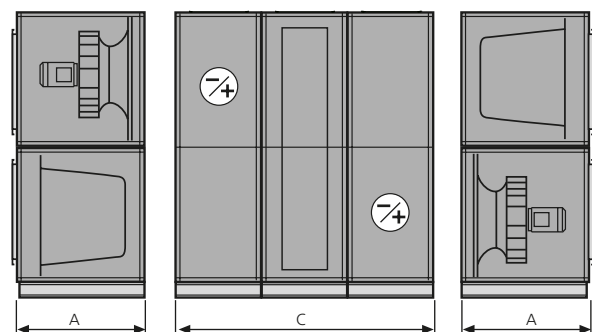
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Support feet (accessories) can be used for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A      | B    | C    | D   | E   | F   | G    | H    | I   | J    | K   | L    | M   | Weight, kg |
|------|--------|------|------|-----|-----|-----|------|------|-----|------|-----|------|-----|------------|
| 040  | 1038,5 | 1990 | 1695 | 565 | 245 | 600 | 1400 | 2159 | 479 | 1744 | 295 | 3772 | 240 | 1740-2016  |

#### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 390-504 kg,  
C = 960-1008 kg.

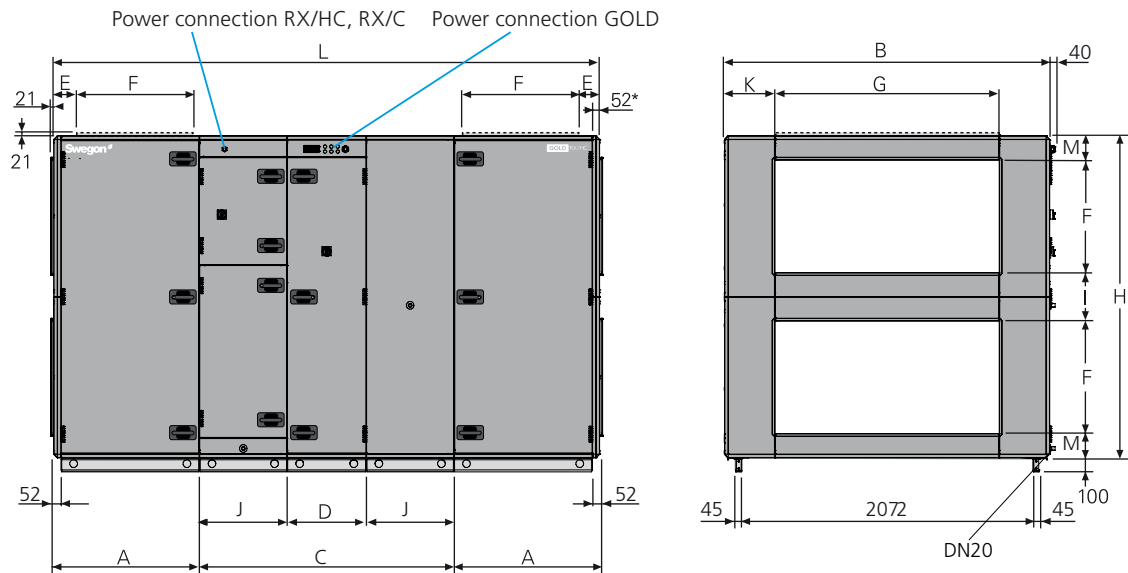
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

Complements and Accessories

GOLD RX/HC, GOLD RX/C

Dimensions and weights

RX/HC 050, RX/C 050



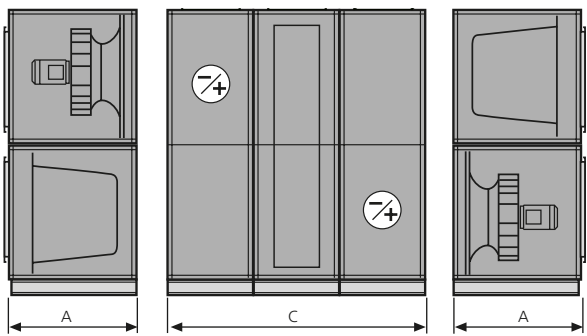
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Adjustable support feet (accessories) can be appropriately fitted to the base beams for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A      | B    | C    | D   | E   | F   | G    | H    | I   | J   | K   | L    | M   | Weight, kg |
|------|--------|------|------|-----|-----|-----|------|------|-----|-----|-----|------|-----|------------|
| 050  | 1038,5 | 2318 | 1815 | 565 | 145 | 800 | 1600 | 2288 | 344 | 625 | 359 | 3892 | 172 | 2138-2445  |

Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 444-572 kg,  
C = 1250-1301 kg.

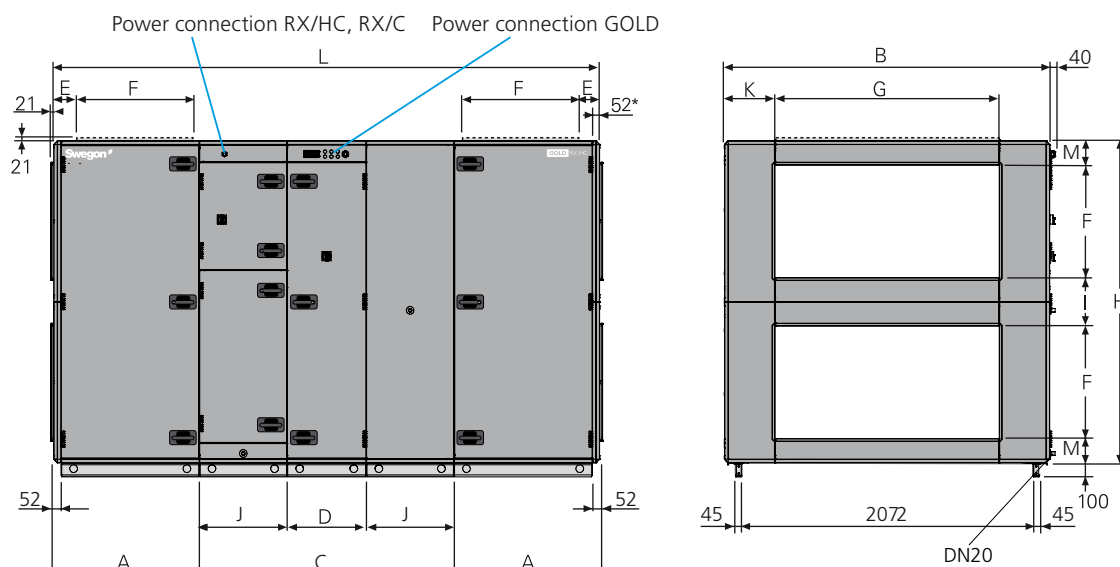
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D and J in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and Accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC 060, RX/C 060



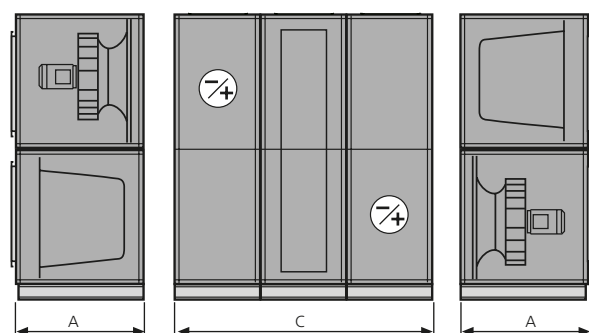
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Adjustable support feet (accessories) can be appropriately fitted to the base beams for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A      | B    | C    | D   | E   | F   | G    | H    | I   | J   | K   | L    | M   | Weight, kg |
|------|--------|------|------|-----|-----|-----|------|------|-----|-----|-----|------|-----|------------|
| 060  | 1038,5 | 2318 | 1815 | 565 | 145 | 800 | 1600 | 2288 | 344 | 625 | 359 | 3892 | 172 | 2322-2611  |

#### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 511-630 kg,  
C = 1300-1351 kg.

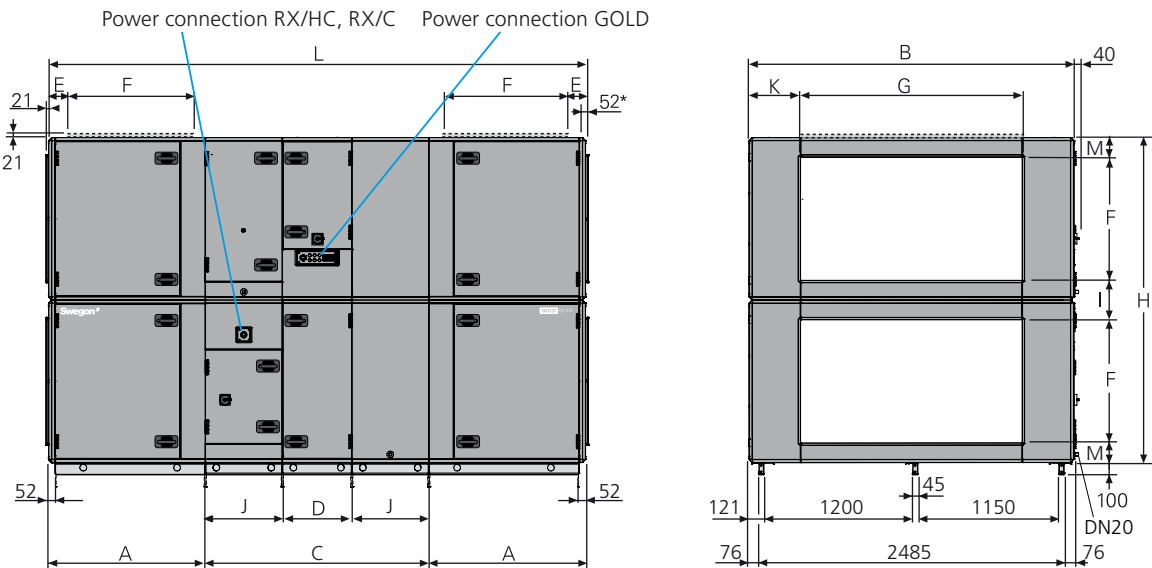
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D and J in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

# Complements and Accessories

## GOLD RX/HC, GOLD RX/C

### Dimensions and weights

RX/HC 070, RX/C 070



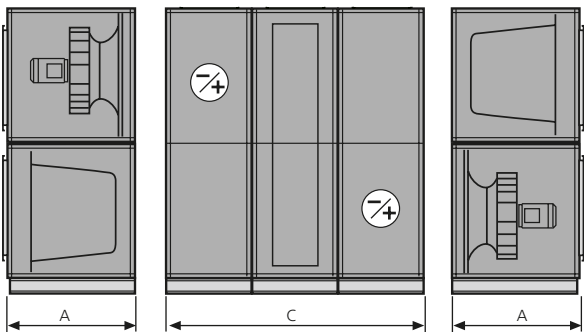
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Adjustable support feet (accessories) can be appropriately fitted to the base beams for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A      | B    | C    | D   | E   | F    | G    | H    | I   | J   | K     | L    | M   | Weight, kg |
|------|--------|------|------|-----|-----|------|------|------|-----|-----|-------|------|-----|------------|
| 070  | 1273,5 | 2637 | 1815 | 565 | 162 | 1000 | 1800 | 2640 | 320 | 625 | 418,5 | 4362 | 160 | 3322-3645  |

### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A =786-911 kg,  
C = 1750-1823 kg.

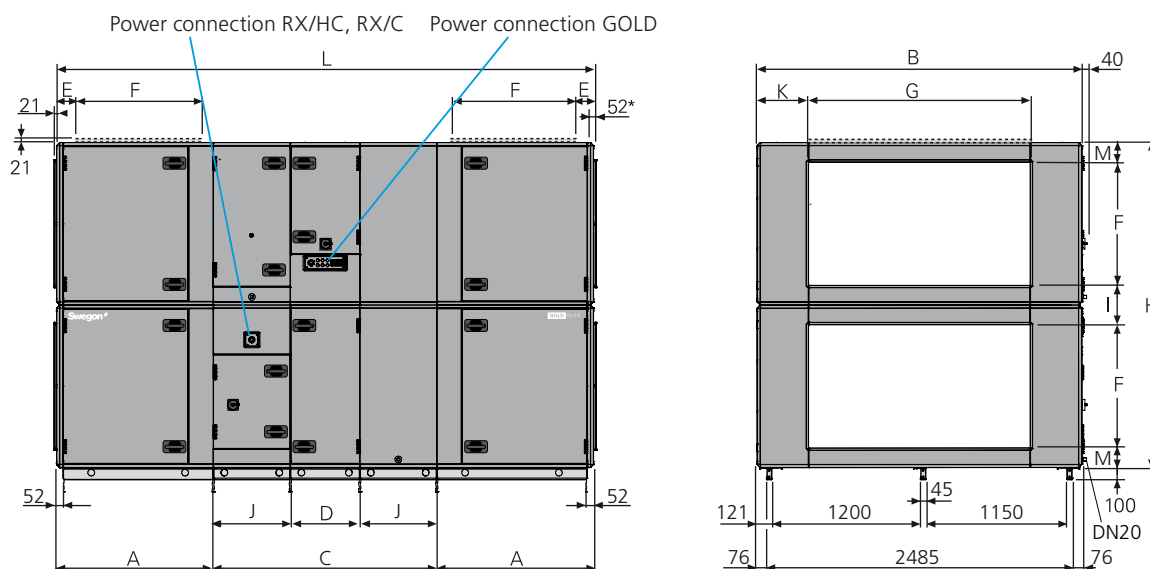
In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D and J in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

## Complements and Accessories

### GOLD RX/HC, GOLD RX/C

#### Dimensions and weights

##### RX/HC 080, RX/C 080



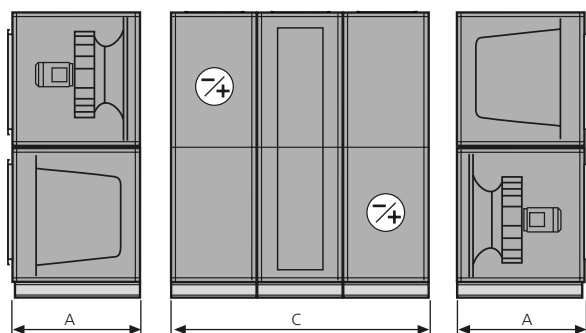
The illustration shows RX/HC or RX/C integrated in a GOLD standard air handling unit set-up. The installation length for RX/HC and RX/C corresponds to the C-measurement. Placement of the air handling unit sections, connection hood, drain pipe, etc. may vary depending on the selected variant.

If a water trap (accessory) is fitted, the air handling unit must be raised at least 50 mm to provide space for the water trap. Adjustable support feet (accessories) can be appropriately fitted to the base beams for this purpose.

\* The air handling unit is supplied without end connection panel if a duct accessory housed in an insulated casing will be connected. The AHU can also be supplied with full face end connection panel (accessory).

| Size | A      | B    | C    | D   | E   | F    | G    | H    | I   | J   | K     | L    | M   | Weight, kg |
|------|--------|------|------|-----|-----|------|------|------|-----|-----|-------|------|-----|------------|
| 080  | 1273,5 | 2637 | 1815 | 565 | 162 | 1000 | 1800 | 2640 | 320 | 625 | 418,5 | 4362 | 160 | 3426-3785  |

#### Division into sections for transport



The unit can be divided into three sections at the building site.

**Dimensions:** See A and C in the table above.

**Weight:** A = 813-956 kg,  
C = 1800-1873 kg.

In addition to this, the middle section (RX/HC or RX/C) can be delivered in a variant with split refrigerant circuit. The section is then delivered assembled from the factory, but can be divided into three units on site, see D and J in the table above. Assembly of the section may only be performed by certified refrigeration technicians.

# Plug and Play with COOL DX!



*Dock the COOL DX to the GOLD air handling unit*

The CoolDX Top cooling unit fits in well in the concept of the GOLD air handling unit and really stands for Plug and Play.

All the equipment is housed in one and the same unit and can be docked to the GOLD. The COOL DX can also be installed as a stand-alone unit.

In addition to the above, only an electric power supply and a communication cable (with quick-fit connector)



*Dock the COOL DX Top on top of the GOLD RX Top air handling unit*

between the COOL DX/COOL DX Top and the GOLD as well as the connection of drainage pipework are required.

The GOLD has ready-to-use cooling functions for controlling and regulating the COOL DX/COOL DX Top. This also includes communication via web or traditional performance monitoring systems.

The COOL DX/COOL DX Top thus means minimal investment for project designing, procurement and installation.

- Extremely quick and simple installation.
- Built-in control equipment operated from the GOLD.
- Variable comfort control or economy control in 3 steps.

- Ready for communication via the GOLD.
- Its location inside the GOLD prevents the extract air fan motor from being subject to high temperatures.

## Economy or comfort control

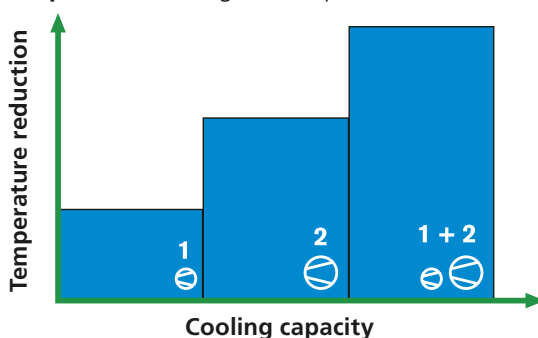
### Economy control

#### Cooling in 3 steps

When cooling is required, cooling compressor 1 starts up. On an increasing cooling load, cooling compressor 2 starts up and cooling compressor 1 is switched out. If the cooling load increases even more, both cooling compressors are started.

**Advantage:** Each cooling compressor is switched in and out in pace with the amount of cooling required and this shortens the overall in-operation period.

**Consequence:** Cooling in 3 steps



Cooling compressor ☉ ☒ Heat exchanger

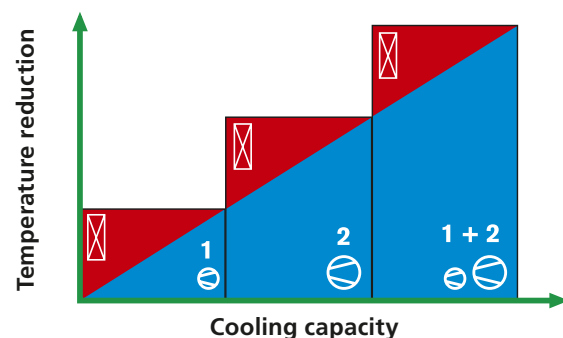
### Comfort control (not COOL DX Top)

#### Cooling and variable temperature control

As a form of economy control but when there is a cooling load, the heat exchanger of the air handling unit is also activated and this controls the temperature within the cooling step.

**Advantage:** Variable control of the cooling capacity and uniform supply air temperature.

**Consequence:** Each cooling compressor operates for a longer period when cooling is needed.



## Complements and Accessories

### COOL DX/COOL DX Top

#### General

The COOL DX/COOL DX Top is a complete cooling unit for comfort cooling in the air handling system.

The COOL DX is produced in seven sizes with cooling capacity from 10 to 134 kW. The seven sizes are capacity-wise matched to the size 007-080 GOLD air handling units.

The COOL DX Top is produced in three sizes with cooling capacity from 6.8 to 14.8 kW. On the basis of capacity, the three sizes are matched to the size 004 - 012 GOLD air handling units.

#### Mechanical Design

The COOL DX cooling unit is designed for installation against the outdoor air and exhaust air side of the GOLD unit.

Place the COOL DX Top cooling unit on top of the GOLD RX Top air handling unit

All electrical and control equipment is prewired and collected inside a common casing.

Composed of flush-mounted cover panels and inspection doors. The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

The cooling coil and condenser are fabricated of copper tubing and profiled aluminium fins. The air cooler is hydrophilically treated.

The cooling unit is test run prior to delivery.

#### Control and regulation

The COOL DX/COOL DX Top cooling unit has a built-in control system.

Only an electric power supply and a communication cable are required for the transmission of information between the COOL DX/COOL DX Top and the GOLD control systems. The communication cable is supplied together with the unit. All in-operation status and other information is readily available for viewing in the hand-held terminal of the GOLD air handling unit.

The cooling capacity is controlled by operating one or both compressors. Cooling is controlled in 3 steps in binary mode.

On receiving an on/off control signal, compressor M1 starts up. On an increasing cooling load, compressor M2 starts at the same time that compressor M1 stops. If the cooling load increases even more, both compressors M1 and M2 operate.



COOL DX



COOL DX Top

#### Completely direct-acting system

The COOL DX/COOL DX Top has a completely direct-acting system. It has an evaporation coil for direct-evaporating refrigerant on the cold side and a condenser coil on the hot side.

#### Refrigerant

The COOL DX/COOL DX Top has double refrigerant circuits, which are charged with refrigerant on delivery. The volume of refrigerant for each size is tabulated in the Technical Data Table.

Type R410A refrigerant is used. At present, this refrigerant has no known influence on the ozone layer and no known future restrictions are anticipated.

Inspection of the installation, obligation to report and periodic leakage tracing must be carried out according to the F-Gas Regulation EU/2024/573 and associated local legislation, also refer to the separate Installation and Maintenance Instructions for COOL DX/COOL DX Top.

#### Duct connection

The end connection panel for outdoor and/or exhaust air is optional for the Cool DX cooling units. If an end connection panel is selected, slip-clamps (sizes 020-080) or rubber ring seals (sizes 008-012) are used for connection to the ducting. If no end connection panel has been selected, the profiled frame members on the cooling unit should be connected to the ducting across an adapter (not supplied by Swegon).

Connect the COOL DX Top to duct connections with rubber seal ring.

## Complements and Accessories

### COOL DX/COOL DX Top

#### Technical data

#### COOL DX

| COOL DX Size | Capacity variant | Nom. air-flow m <sup>3</sup> /s | Min. air-flow m <sup>3</sup> /s | Nom. cooling capacity <sup>1)</sup> (kW) | Nom. Power re-quired (kW) | Refri-gerant (kg) |           | Power supply              | Weight excl. end conn. panel (kg) | Weight of each end conn. panel, if required <sup>2)</sup> (kg) |
|--------------|------------------|---------------------------------|---------------------------------|------------------------------------------|---------------------------|-------------------|-----------|---------------------------|-----------------------------------|----------------------------------------------------------------|
|              |                  |                                 |                                 |                                          |                           | Circuit 1         | Circuit 2 |                           |                                   |                                                                |
| 008          | 1                | 0.55                            | 0.22                            | 9.8                                      | 2.39                      | 1,20              | 1,30      | 3-ph.+N, 400 V ±10%, 16 A | 194                               | 8                                                              |
|              | 2                | 0.70                            | 0.3                             | 13.9                                     | 4.33                      | 1,20              | 1,30      | 3-ph.+N, 400 V ±10%, 20 A | 215                               | 8                                                              |
| 012          | 1                | 0.85                            | 0.35                            | 15.4                                     | 3.95                      | 1,50              | 1,70      | 3-ph.+N, 400 V ±10%, 20 A | 260                               | 10                                                             |
|              | 2                | 1.05                            | 0.4                             | 20.9                                     | 6.53                      | 1,50              | 1,70      | 3-ph.+N, 400 V ±10%, 25 A | 287                               | 10                                                             |
| 020          | 1                | 1.1                             | 0.45                            | 15.4                                     | 4.06                      | 1,20              | 1,50      | 3-ph.+N, 400 V ±10%, 25 A | 247                               | 11                                                             |
|              | 2                | 1.3                             | 0.5                             | 23.3                                     | 5.73                      | 2,50              | 2,80      | 3-ph.+N, 400 V ±10%, 25 A | 287                               | 11                                                             |
|              | 3                | 1.6                             | 0.6                             | 31.0                                     | 9.15                      | 2,10              | 2,40      | 3-ph.+N, 400 V ±10%, 40 A | 318                               | 11                                                             |
| 030          | 1                | 1.8                             | 0.7                             | 25.0                                     | 6.33                      | 1,80              | 2,00      | 3-ph.+N, 400 V ±10%, 32 A | 327                               | 17                                                             |
|              | 2                | 2.0                             | 0.8                             | 35.8                                     | 9.34                      | 3,00              | 3,20      | 3-ph., 400 V ±10%, 25 A   | 379                               | 17                                                             |
|              | 3                | 2.4                             | 1.0                             | 46.2                                     | 13.5                      | 2,90              | 3,30      | 3-ph., 400 V ±10%, 40 A   | 419                               | 17                                                             |
| 040          | 1                | 2,9                             | 1,1                             | 38,6                                     | 8,40                      | 3,30              | 4,00      | 3-ph., 400 V ±10%, 25 A   | 498                               | 22                                                             |
|              | 2                | 3,1                             | 1,3                             | 48,4                                     | 12,3                      | 3,30              | 4,50      | 3-ph., 400 V ±10%, 40 A   | 506                               | 22                                                             |
|              | 3                | 3,6                             | 1,5                             | 67,0                                     | 17,5                      | 5,50              | 4,50      | 3-ph., 400 V ±10%, 50 A   | 559                               | 22                                                             |
| 060          | 1                | 3,9                             | 1,5                             | 56,2                                     | 11,8                      | 4,50              | 5,50      | 3-ph., 400 V ±10%, 40 A   | 715                               | 32                                                             |
|              | 2                | 4,1                             | 1,6                             | 66,7                                     | 17,1                      | 5,00              | 5,20      | 3-ph., 400 V ±10%, 50 A   | 786                               | 32                                                             |
|              | 3                | 5,0                             | 2,0                             | 97,5                                     | 26,3                      | 6,00              | 7,50      | 3-ph., 400 V ±10%, 80 A   | 859                               | 32                                                             |
| 080          | 1                | 5,2                             | 2,0                             | 67,0                                     | 13,3                      | 6,60              | 7,30      | 3-ph., 400 V ±10%, 50 A   | 852                               | 38                                                             |
|              | 2                | 6,0                             | 2,4                             | 96,5                                     | 24,8                      | 6,50              | 9,00      | 3-ph., 400 V ±10%, 80 A   | 979                               | 38                                                             |
|              | 3                | 7,0                             | 2,8                             | 134,0                                    | 36,4                      | 9,00              | 11,50     | 3-ph., 400 V ±10%, 100 A  | 1035                              | 38                                                             |

<sup>1)</sup> For an outdoor temperature of 26°C, 50% RH (capacity variant 1), 27°C, 50% RH (capacity variant 2) or 28°C, 50% RH (capacity variant 3), and an extract air temperature of 26°C. <sup>2)</sup> The first weight applies to a small end connection panel; the second weight applies to a large end connection panel. COOL DX can be supplied completely without end connection panels or with a maximum of 2 small and two large end connection panels depending on the variant selected.

### Sizing in AHU Design

There are many factors that influence what size of cooling unit is required.  
For correct sizing we refer to our AHU Design air handling unit selection program.

## Complements and Accessories

### COOL DX/COOL DX Top

#### Electrical and control equipment

#### COOL DX Top

COOL DX Top has a common power supply with the air handling unit, which means that common fuse is dependent on the size/capacity variant of the air handling unit, see below.

| COOL DX Top Size | GOLD RX Top Size - capacity variant | Nom. air flow (m³/s) | Min. air flow (m³/s) | Nom. cooling cap. <sup>1)</sup> (kW) | Refrigerant (kg) |           | Power supply                   | Weight (kg) |
|------------------|-------------------------------------|----------------------|----------------------|--------------------------------------|------------------|-----------|--------------------------------|-------------|
|                  |                                     |                      |                      |                                      | Circuit 1        | Circuit 2 |                                |             |
| 005              | 004-1                               | 0,40                 | 0,10                 | 6,77                                 | 0,95             | 1,00      | 3-phase+N+PE, 400 V ±10%, 16 A | 213         |
|                  | 005-1                               |                      |                      |                                      |                  |           | 3-phase+N+PE, 400 V ±10%, 20 A |             |
|                  | 005-2                               |                      |                      |                                      |                  |           | 3-phase+N+PE, 400 V ±10%, 25 A |             |
| 008              | 007-1                               | 0,55                 | 0,22                 | 9,31                                 | 1,15             | 1,20      | 3-phase+N+PE, 400 V ±10%, 25 A | 269         |
|                  | 007-2                               |                      |                      |                                      |                  |           | 3-phase+N+PE, 400 V ±10%, 25 A |             |
|                  | 008-1                               |                      |                      |                                      |                  |           | 3-phase+N+PE, 400 V ±10%, 32 A |             |
|                  | 008-2                               |                      |                      |                                      |                  |           | 3-phase+N+PE, 400 V ±10%, 20 A |             |
| 012              | 011-1                               | 0.85                 | 0.35                 | 14.8                                 | 1.60             | 1.70      | 3-phase+N+PE, 400 V ±10%, 32 A | 332         |
|                  | 011-2                               |                      |                      |                                      |                  |           | 3-phase+N+PE, 400 V ±10%, 20 A |             |
|                  | 012-1                               |                      |                      |                                      |                  |           | 3-phase+N+PE, 400 V ±10%, 20 A |             |
|                  | 012-2                               |                      |                      |                                      |                  |           | 3-phase+N+PE, 400 V ±10%, 25 A |             |

<sup>1)</sup> Outdoor temperature 26°C, 50% RH. Exhaust air temperature 26°C.

### Sizing in AHU Design

There are many factors that influence what size of cooling unit is required. For correct sizing we refer to our AHU Design air handling unit selection program.

#### General

The COOL DX/COOL DX Top cooling unit is internally fully wired and trial run prior to delivery.

All electrical and control equipment is collected inside an electrical equipment cubicle inside the COOL DX/COOL DX Top.

The safety switch is positioned on the front panel of the cooling unit.

#### Power supply

The incoming power supply for 400 V (4-wire system for size 030, capacity variants 2 and 3, and sizes 040-080, all capacity variants, 5-wire system for other sizes) should be connected directly to the safety isolating switch.

Wire the electrical power supply connections according to the technical data tabulated on this and the previous page. Use delayed fuses! In applications where automatic circuit breakers are used, the circuit breakers must have delta characteristic.

#### Control and regulation

A ready-to-use communication cable with quick connector for on/off switching, cooling capacity control as well as in-operation indication and alarms is used. The communication cable is supplied together with the unit.

#### Standards

COOL DX/COOL DX Top is CE-marked. See the separate document, "EC Declaration of conformity for the machinery" for applicable standards and directives. The document can be downloaded from our website, swegon.com.

#### Hand-held micro terminal

Settings can be entered, readings can be viewed and possible alarms are displayed in the hand-held micro terminal of the GOLD air handling unit.

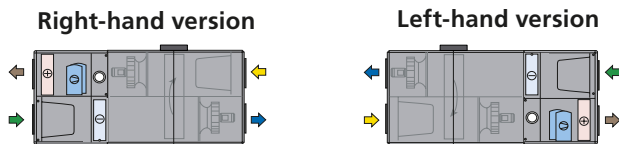
## Complements and Accessories

### COOL DX/COOL DX Top

#### Variants

##### COOL DX 008

###### Common casing/Split version

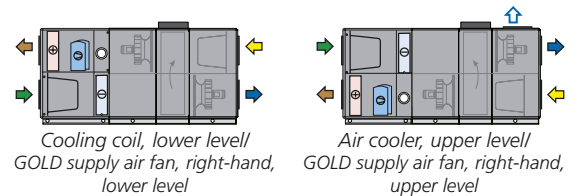


###### Split version only

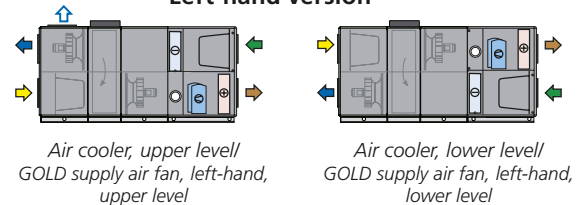


##### COOL DX 012-080

###### Right-hand version



###### Left-hand version



Outdoor air   Supply air   Extract air   Exhaust air

#### Installation Tips

The cooling unit can be positioned against the outdoor air/exhaust air side of the GOLD air handling unit: See the illustration above. The COOL DX cooling units can be docked directly to the GOLD air handling unit, with so-called full face connection (without end connection panels). The COOL DX can also be installed as a stand-alone unit. If you order a stand-alone COOL DX, select version D as a variant with end connection panels.

When positioning the cooling unit, bear in mind that it must be possible to open the inspection door as well as connect drainage pipework and power supply and control wiring without difficulty.

##### To drain the cooling coil

The cooling coil in the cooling unit is equipped with a condensate drain tray and a drainage connection (condensate forms on coil surfaces). The condensate (accessory) pipework must be connected across a water trap (accessory) to the drain connections of the cooling unit and must run with continuous slope to a drain gully.

##### Height adjustment to the height of the GOLD/water trap

##### COOL DX, size 008

###### *In combination with the GOLD RX 008*

The GOLD air handling unit can be mounted on base beams, a stand or some other form of foundation. Base beams and stands are available as accessories.

Appropriate base beams and stands are also available as accessories for the COOL DX. The base beams/stands are matched to one another in terms of height. The stands also provide space for accommodating a possible water trap in the lower level (right-hand unit version).

###### *In combination with the GOLD PX 008*

The air handling unit is supplied with base beams. A set of legs (accessory) can be mounted in the base beams.

Appropriate base beams and set of legs are also available as accessories for the COOL DX. The base beams/sets of legs are matched to one another in terms of height. The sets of legs also provide space for accommodating a possible water trap in the lower level (right-hand unit version).

##### COOL DX, sizes 012-080

The GOLD air handling unit and the COOL DX cooling unit are supplied with a 100 mm high base beam.

###### *Applicable to a cooling coil in the lower level:*

If a water trap (accessory) is fitted, the GOLD air handling unit and the cooling unit must be raised at least 50 mm to provide space for the water trap. Adjustable support feet (accessories) can be appropriately fitted to the base beams for this purpose.

##### Supply air filter

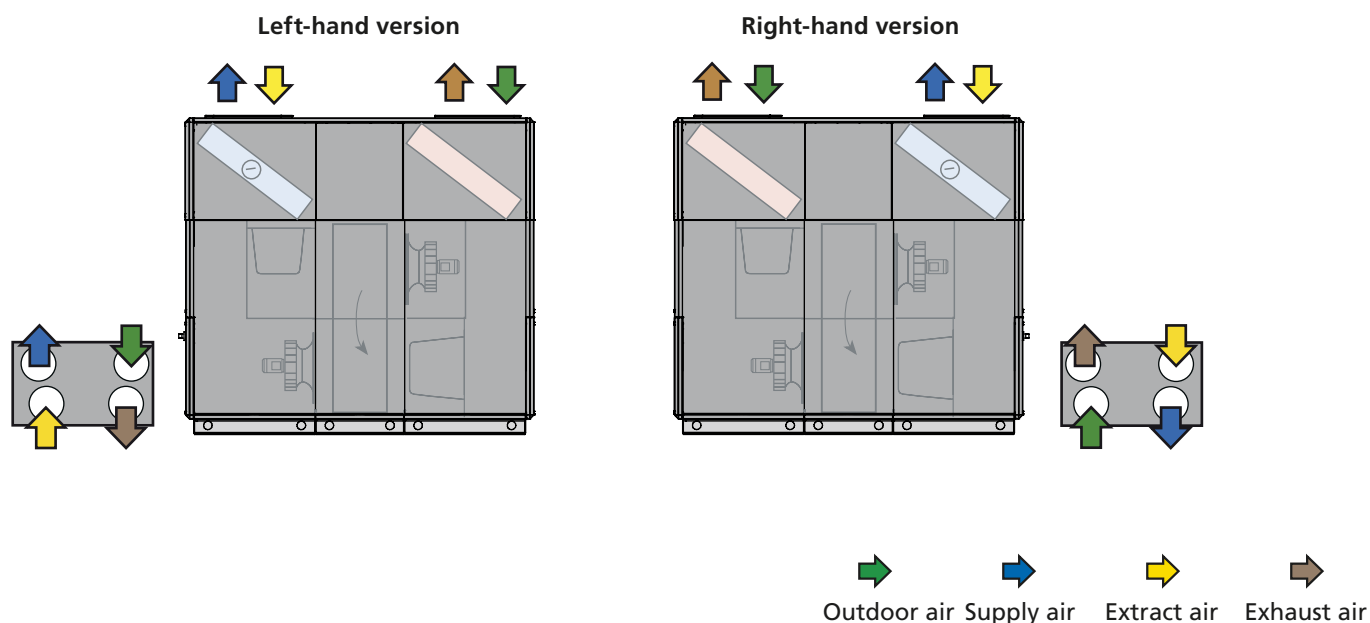
The COOL DX is supplied without supply air filter. Consequently, the supply air filter in the GOLD unit should be dismantled and moved to the COOL DX.

## Complements and Accessories

### COOL DX/COOL DX Top

#### Variants

#### COOL DX Top



#### Installation tips

The cooling unit can be positioned on top of a GOLD RX Top unit equipped with a docking module. See illustration above.

When positioning the cooling unit, bear in mind that it must be possible to open the inspection door and connect the drainage pipework and power supply without difficulty.

#### To drain the air cooler

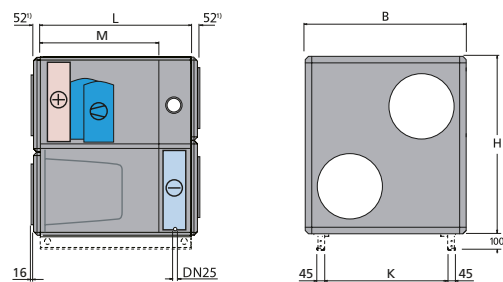
The air cooler in the cooling unit is equipped with a condensate drain tray and a drainage connection (condensate forms on air cooler coil surfaces). The condensate discharge pipework must be connected across a water trap (accessory) to the drain connections of the cooling unit and must run with continuous slope to a drain gully.

## Complements and Accessories

### COOL DX/COOL DX Top

#### Dimensions

##### COOL DX 008



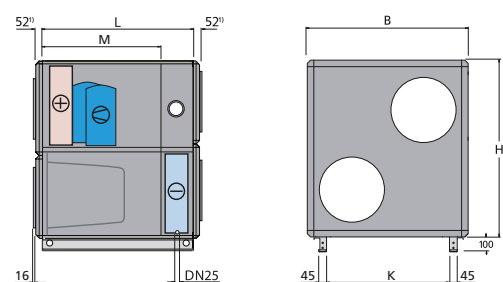
Base beams are accessories.

<sup>1)</sup> End connection panel, optional.

| Size | L   | B   | H    | K   | M   | Duct connection <sup>2)</sup> |
|------|-----|-----|------|-----|-----|-------------------------------|
| 008  | 900 | 995 | 1085 | 749 | 709 | Ø 400                         |

<sup>2)</sup> For particulars on how to arrange the duct connections, see the corresponding GOLD air handling unit

##### COOL DX 012

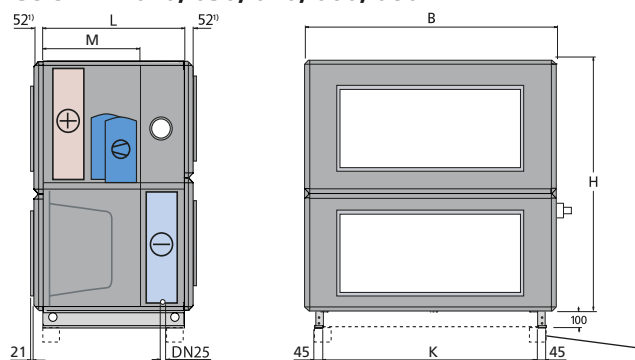


<sup>1)</sup> End connection panel, optional.

| Size | L   | B    | H    | K   | M   | Duct connection <sup>2)</sup> |
|------|-----|------|------|-----|-----|-------------------------------|
| 012  | 900 | 1199 | 1395 | 953 | 709 | Ø 500                         |

<sup>2)</sup> For particulars on how to arrange the duct connections, see the corresponding GOLD air handling unit

##### COOL DX 020, 030, 040, 060, 080



<sup>1)</sup> End connection panel, optional.

| Size | L    | B    | H    | K    | M   | Duct connection <sup>2)</sup> |
|------|------|------|------|------|-----|-------------------------------|
| 020  | 900  | 1400 | 1551 | 1154 | 709 | 1000 x 400                    |
| 030  | 900  | 1600 | 1811 | 1354 | 709 | 1200 x 500                    |
| 040  | 1100 | 1990 | 2159 | 1744 | 884 | 1400 x 600                    |
| 060  | 1100 | 2318 | 2288 | 2072 | 884 | 1600 x 800                    |
| 080  | 1100 | 2637 | 2640 | 2395 | 884 | 1800 x 1000                   |

<sup>2)</sup> For the locations of the duct connections, see the corresponding GOLD air handling unit

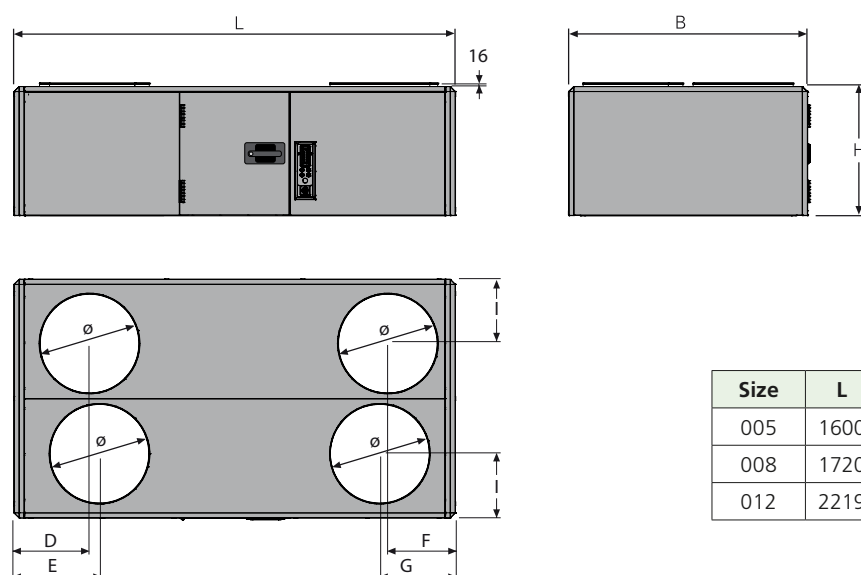
Size 060:  
Supplied on 100 mm high transport feet.  
Removed when the unit is at its final location.

## Complements and Accessories

### COOL DX/COOL DX top

#### Dimensions

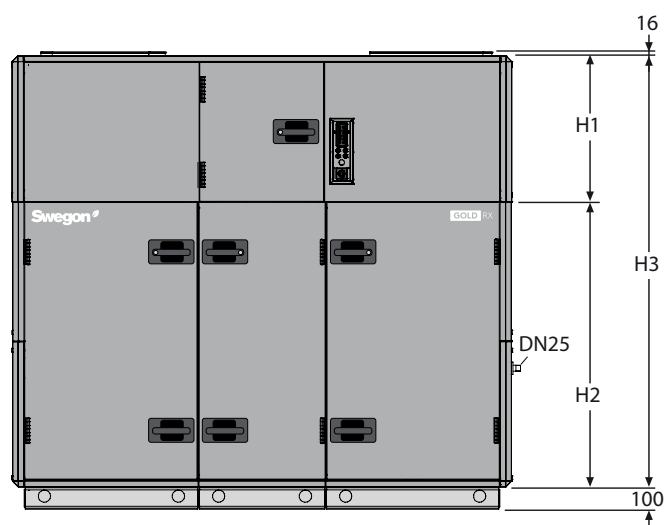
##### COOL DX Top



| Size | L    | B    | H   | D   | E   | F   | G   | I   | Ø     |
|------|------|------|-----|-----|-----|-----|-----|-----|-------|
| 005  | 1600 | 825  | 650 | 300 | 340 | 250 | 340 | 230 | 315   |
| 008  | 1720 | 995  | 650 | 330 | 330 | 272 | 272 | 272 | 400   |
| 012  | 2219 | 1199 | 650 | 380 | 430 | 339 | 379 | 323 | Ø 500 |

##### COOL DX Top in combination with GOLD RX Top

Cooling unit COOL DX Top installed on top of a GOLD RX Top air handling unit. The air handling unit is specially adapted to the cooling unit, which impacts on the height of the air handling unit. See the illustration and table.



Base beams are optional for sizes 005 and 008, standard for size 012.

| Size | H1  | H2   | H3   |
|------|-----|------|------|
| 005  | 650 | 1059 | 1709 |
| 008  | 650 | 1269 | 1919 |
| 012  | 650 | 1269 | 1919 |

H1 corresponds to the height measurement for COOL DX Top.

H2 corresponds to the height measurement for specially adapted GOLD RX Top.

H3 corresponds to the combined height measurement for COOL DX Top and GOLD RX Top.

# Reversible cooling unit for direct expansion, Echos+ LE, LE/HP

Echos+ in version LE/HP is a energy-efficient air-cooled and reversible cooling unit with direct expansion.

The cooling unit has a frequency-controlled compressor that steplessly operates at exactly the right speed for producing just the right evaporation temperature to meet the immediate need. This means significant energy savings compared with a traditional compressor controlled only by On or Off switching.

The cooling unit is controlled in a simple way from a GOLD unit via SMART Link DX.

## Versions

LE: For direct expansion

LN: Sound attenuated

LE/HP: Reversible heat pump

## Quick facts

5 sizes with rated cooling capacity up to 26 kW

Speed-regulated scroll compressor with DC inverter, type R410A refrigerant

Condenser fan control as standard

Electronic expansion valve as standard

4-way reversing valve as standard to version HP

Energy class A as standard

Smart and simple control via the GOLD

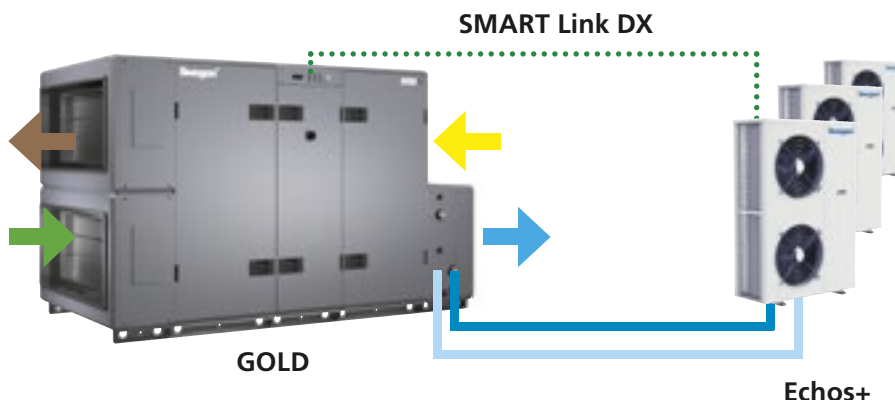
## Control via SMART Link DX

The Echos+ has integrated SMART Link technology. This enables control of the cooling unit from the GOLD air handling unit.

The Echos+ is controlled from the GOLD via internal communication, where the rotational speed of the cooling unit compressor is regulated to meet immediate needs.

The Echos+ is reversible and can therefore also be used for reheat in winter. Up to three units can be connected each with its own circuit to the cooling/heating coil for the required cooling/heating demand.

The integrated control system makes the installation very simple. Only one data cable is needed between the GOLD and the Echos+.



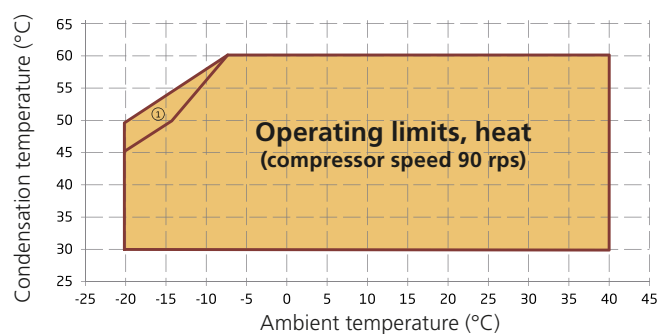
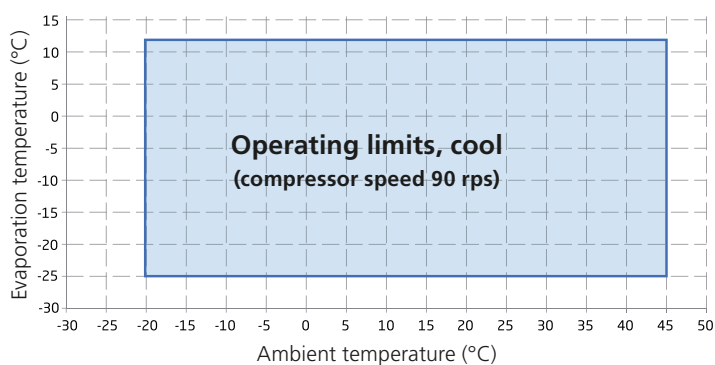
## Complements and accessories

### Echos<sup>+</sup> LE/HP cooling unit

#### Technical data

| Echos <sup>+</sup> LE/HP                                                                                  |    | 9      | 15          | 20   | 26   | 30   |
|-----------------------------------------------------------------------------------------------------------|----|--------|-------------|------|------|------|
| Rated cooling capacity (ambient temperature 35°C, evaporation temperature 7.5°C, compressor speed 90 rps) | kW | 6,9    | 12,1        | 18,2 | 25,0 | 29,6 |
| Power consumption, cooling (compressor + fans)                                                            | kW | 1,9    | 3,2         | 5,1  | 6,9  | 8,2  |
| EER (to EN 14511-3:2011)                                                                                  |    | 3,69   | 3,74        | 3,59 | 3,63 | 3,61 |
| Rated heating capacity (ambient temperature 7°C, condensation temperature 7.5°C, compressor speed 90 rps) | kW | 7,0    | 12,5        | 18,7 | 24,4 | 28,9 |
| Power consumption, heat (compressor + fans)                                                               | kW | 1,76   | 2,95        | 4,68 | 6,20 | 7,44 |
| COP (to EN 14511-3:2011)                                                                                  |    | 3,98   | 4,22        | 3,99 | 3,94 | 3,88 |
| Length                                                                                                    | mm | 925    | 925         | 1105 | 1305 | 1305 |
| Width                                                                                                     | mm | 375    | 375         | 505  | 505  | 505  |
| Height                                                                                                    | mm | 1350   | 1350        | 1385 | 1585 | 1585 |
| Weight in operation                                                                                       | kg | 146    | 149         | 217  | 262  | 268  |
| Power supply                                                                                              |    | 1x230V | 3+N x 400 V |      |      |      |

#### Large operation range



1. In this area, the compressor can be regulated for controlling the condensation temperature

## Complements and Accessories

### Blue Box Cooling unit/Heat pump

#### General

A wide range of Swegon's cooling units/heat pumps of Blue Box type are available. See separate catalogue.

Blue Box cooling units/heat pumps are of the highest quality and are leading products in their segment.

#### AQUA Link

The AQUA Link hydraulic module supplies both air handling units and comfort modules with cooling power. See separate catalogue.

#### Control and regulation

The BlueBox unit control system includes functions intended for controlling the times, temperatures, etc. and also for reading the alarms and settings of a Blue Box cooling unit/heat pump via the hand-held micro terminal and web page in a GOLD air handling unit.

An optimisation function for waterborne cooling units/heat pumps is also incorporated into the GOLD air handling unit's control system. The optimisation function optimizes the position of the valve for the water coil, so that the valve always strives to be fully open. The water temperature is controlled instead and this saves energy.

See separate Guide to the SMART Link Functions for waterborne cooling units/heat pumps and the Guide to the SMART Link DX Functions respectively for the Echos+ DX cooling units/ heat pumps.

#### Installation

The installation work is quick and simple compared with other systems.

All the necessary control functions are ready to be activated.

One supplier for all the equipment



**Blue Box cooling unit**

*Ex: OXFORD*



**Blue Box heat pump**

*Ex: MAROON 2 HWS*



**AQUA Link**

## Complements and Accessories

### Unit sections

#### TCBR Air recirculation section

The air recirculation section is an extra unit section that has a motor-driven damper (on/off or modulating) in the intermediate level.

The air recirculation section is available for the size 011 and larger GOLD RX, PX and CX units. The air recirculation section is also available for GOLD RX/PX size 004-008 in split version. The GOLD PX cannot be used for the ReCO function<sub>2</sub>.

#### Included in the delivery:

Air recirculation section. Mounted actuator for damper. Necessary extension wiring for the supply air fan.

#### Delivery version:

Sizes 004-080: The air recirculation section is fitted to at least one of the other unit sections, see the section entitled: Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 004-080.

Size 120: The air recirculation section is supplied as an individual item in two sections.

#### Additional equipment required:

Depending on how the air recirculation section is to be used, it may also be necessary to install extra sensors for reading e.g. the pressure, room temperature or CO<sub>2</sub> content, heating and/or cooling coil temperatures and the status of shut-off dampers for exhaust air and outdoor air.

#### Work to be carried out at the building site:

Sizes 004-080: Fitting together/splitting of unit sections to the extent required.

Size 120: Assembly of the air recirculation section to become one unit. The air recirculation section is then fitted together with the other unit sections.

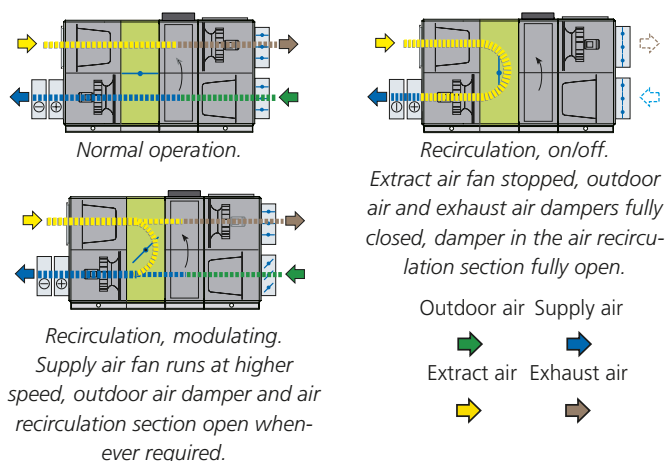
#### Operation:

*Recirculation, on/off:* Can be used when it is desirable to heat an unoccupied room with recirculated air; an economic solution for e.g. factory buildings, shopping centres, etc.

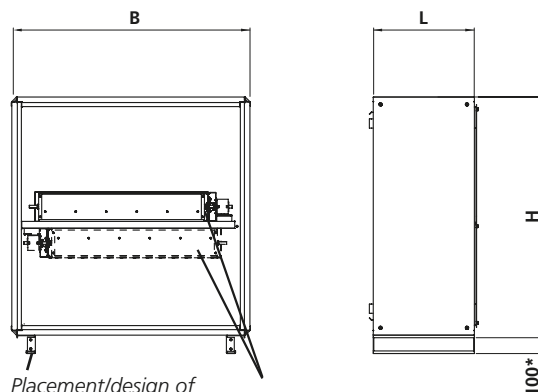
The intermittent night-time heating function stops the extract air fan and heat recovery, closes the shut-off dampers for outdoor air and exhaust air and opens the damper in the air recirculation section. See also previous section "Control Functions".

*Recirculation, modulating:* Can be used for the demand-controlled and economical operation of fans, heating and cooling, especially in buildings in which the load conditions vary.

The patent-pending ReCO function<sub>2</sub> adjusts the air quality (in response to signals from CO<sub>2</sub> sensors) and temperature by variably controlling the shut-off dampers and the damper in the air recirculation section as well as the speed of the fans. See also previous section "Control Functions".



The ReCO function<sub>2</sub> requires the accessory, complete set for control of the mixing function (ReCO<sub>2</sub>), TBLZ-2-51. Pressure sensors and IQlogic<sup>+</sup> are included. Air quality sensor must be ordered separately.



Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.

Depending on the version, the damper can be mounted in the upper or lower level (for GOLD size 120 the damper is always mounted in the upper level).

\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit, h = 265 mm.

| For GOLD | B    | H    | L    | kg  |
|----------|------|------|------|-----|
| 004/005  | 825  | 920  | 400  | 50  |
| 007/008  | 995  | 1085 | 400  | 57  |
| 011/012  | 1199 | 1295 | 565  | 90  |
| 014/020  | 1400 | 1551 | 565  | 103 |
| 025/030  | 1600 | 1811 | 565  | 118 |
| 035/040  | 1990 | 2159 | 565  | 142 |
| 050/060  | 2318 | 2288 | 565  | 168 |
| 070/080  | 2637 | 2640 | 565  | 195 |
| 100/120  | 3340 | 3340 | 1070 | 547 |

## Complements and accessories

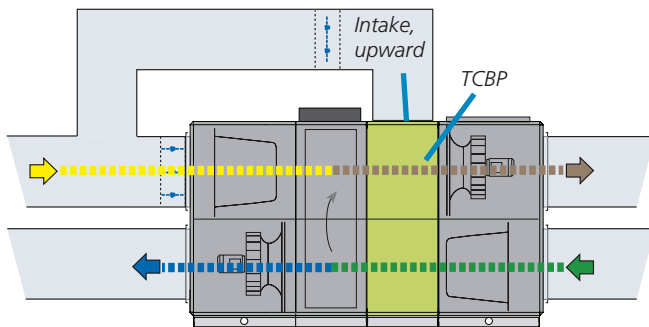
### Unit sections

#### Solutions for fire bypass

The air bypass section is used when you want the extract air to bypass the heat exchanger and filter, e.g. as a component in a system for smoke extraction. See the example for respective variants/sizes. The fans of the air handling unit are tested for, and can manage operation for one hour at 70°C.

The air bypass section is available for GOLD RX/PX size 011-080. The air bypass section is also available for GOLD RX/PX sizes 004-008 and GOLD SD extract air handling unit sizes 004-012 in split version.

#### Intake, upward GOLD RX, sizes 004-080



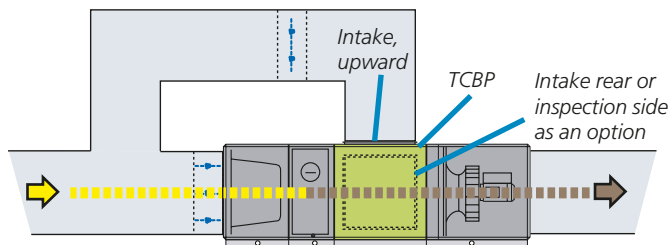
Solution for fire bypass (upward) for GOLD RX 004-080.

#### Necessary components required (apart from GOLD units):

The TCBP air bypass section is supplied fitted together with at least one of the other unit sections, see the section entitled: Description of the Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 004-080. The required splitting/fitting together of unit sections is performed at the building site.

Extra dampers may be required depending on the application. Should be controlled via TRITON control and supervisory unit or the like.

#### GOLD SD extract air handling unit, sizes 004-040



Solution for fire bypass (upwards, back or inspection side) for GOLD SD 004-040 extract air handling unit in split version.

#### Necessary components required (apart from GOLD units):

Air bypass section, TCBP.

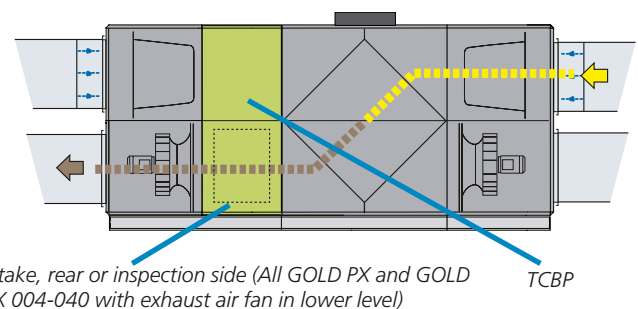
The air handling unit can be supplied as one single unit or in an optional division of sections.

Required splitting/fitting together of unit sections is performed at the building site.

Extra dampers may be required depending on the application. Should be controlled via TRITON control and supervisory unit or the like.

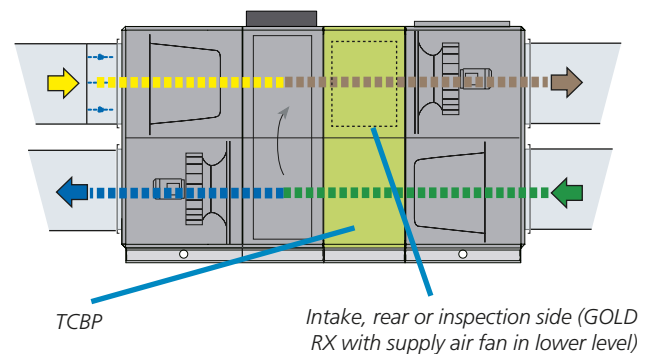


#### Intake, rear or inspection side GOLD PX, sizes 004-040+ GOLD RX, sizes 004-040, exhaust air fan in lower level



Intake, rear or inspection side (All GOLD PX and GOLD RX 004-040 with exhaust air fan in lower level)

#### GOLD RX, sizes 004-040, supply air fan in lower level



Solution for fire bypass (rear, inspection side or upward) for GOLD RX/PX 004-040.

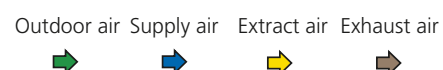
#### Necessary components required (apart from GOLD units):

The TCBP air bypass section is fitted together with at least one of the other unit sections, see the section entitled: Description of the Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 004-080.

Required splitting/fitting together of unit sections is performed at the building site.

Extra dampers may be required depending on the application.

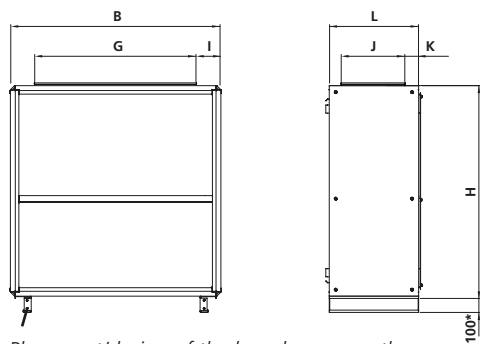
Should be controlled via TRITON control and supervisory unit or the like.



# Complements and accessories

## Unit sections

### Air bypass section, TCBP, intake upward

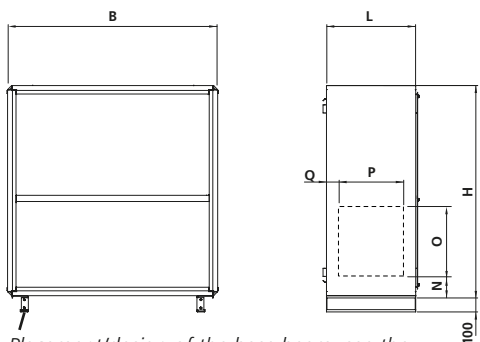


Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.

| For GOLD | B    | H    | L   | G    | I     | J   | K    | kg  |
|----------|------|------|-----|------|-------|-----|------|-----|
| 004/005  | 825  | 920  | 400 | 500  | 140   | 300 | 30   | 42  |
| 007/008  | 995  | 1085 | 400 | 600  | 150   | 300 | 30   | 49  |
| 011/012  | 1199 | 1295 | 565 | 1000 | 100   | 400 | 82,5 | 87  |
| 014/020  | 1400 | 1551 | 565 | 1000 | 200   | 400 | 82,5 | 103 |
| 025/030  | 1600 | 1811 | 565 | 1200 | 200   | 400 | 82,5 | 112 |
| 035/040  | 1990 | 2159 | 565 | 1400 | 295   | 400 | 82,5 | 123 |
| 050/060  | 2318 | 2288 | 565 | 1600 | 359   | 400 | 82,5 | 168 |
| 070/080  | 2637 | 2640 | 565 | 1800 | 418,5 | 400 | 82,5 | 246 |

\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit, h = 265 mm.

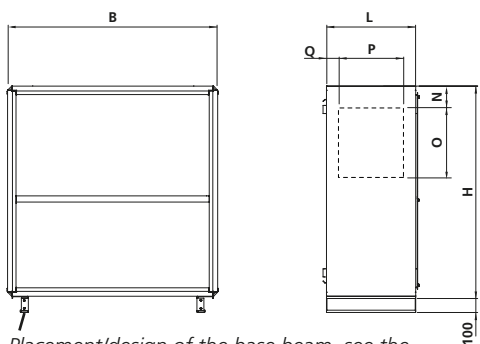
### Air bypass section, TCBP-xxxx, intake, rear or inspection side (all GOLD PX, GOLD RX exhaust air fan in lower level)



Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.

| For GOLD     | B    | H    | L   | N   | O   | P   | Q    | kg  |
|--------------|------|------|-----|-----|-----|-----|------|-----|
| 004/005      | 825  | 920  | 400 | 77  | 300 | 300 | 30   | 47  |
| 007/008      | 995  | 1085 | 400 | 130 | 300 | 300 | 30   | 56  |
| 011/012      | 1199 | 1295 | 565 | 110 | 500 | 400 | 82,5 | 70  |
| 014/020      | 1400 | 1551 | 565 | 110 | 500 | 400 | 82,5 | 85  |
| 025/030      | 1600 | 1811 | 565 | 100 | 600 | 400 | 82,5 | 96  |
| 035/040/040+ | 1990 | 2159 | 565 | 110 | 800 | 400 | 82,5 | 123 |

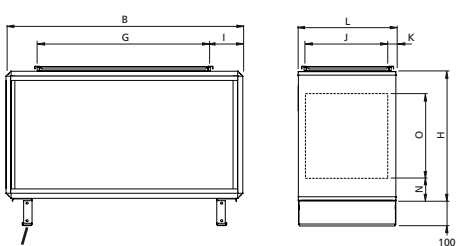
### Air bypass section, TCBP-xxxx, intake, rear or inspection side (GOLD RX supply air fan in lower level)



Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.

| For GOLD | B    | H    | L   | N   | O   | P   | Q    | kg  |
|----------|------|------|-----|-----|-----|-----|------|-----|
| 004/005  | 825  | 920  | 400 | 77  | 300 | 300 | 30   | 47  |
| 007/008  | 995  | 1085 | 400 | 130 | 300 | 300 | 30   | 56  |
| 011/012  | 1199 | 1295 | 565 | 110 | 500 | 400 | 82,5 | 70  |
| 014/020  | 1400 | 1551 | 565 | 110 | 500 | 400 | 82,5 | 85  |
| 025/030  | 1600 | 1811 | 565 | 100 | 600 | 400 | 82,5 | 96  |
| 035/040  | 1990 | 2159 | 565 | 110 | 800 | 400 | 82,5 | 123 |

### Air bypass section TCBP, intake: upward, rear or inspection side (GOLD SD)



Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.

| For GOLD | B    | H      | L   | G    | I     | J   | K    | N   | O   | kg    |
|----------|------|--------|-----|------|-------|-----|------|-----|-----|-------|
| 004/005  | 825  | 460    | 400 | 500  | 162,5 | 300 | 50   | 80  | 300 | 25-26 |
| 007/008  | 995  | 542,5  | 400 | 600  | 173   | 300 | 50   | 121 | 300 | 30-32 |
| 011/012  | 1199 | 647,5  | 565 | 1000 | 99,5  | 400 | 82,5 | 74  | 500 | 43-45 |
| 014/020  | 1400 | 775,5  | 565 | 1000 | 200   | 400 | 82,5 | 138 | 500 | 59    |
| 025/030  | 1600 | 905,5  | 565 | 1200 | 200   | 400 | 82,5 | 153 | 600 | 65    |
| 035/040  | 1990 | 1079,5 | 565 | 1400 | 295   | 400 | 82,5 | 140 | 800 | 82    |

## Complements and accessories

### Unit sections

#### Smoke extraction adapter

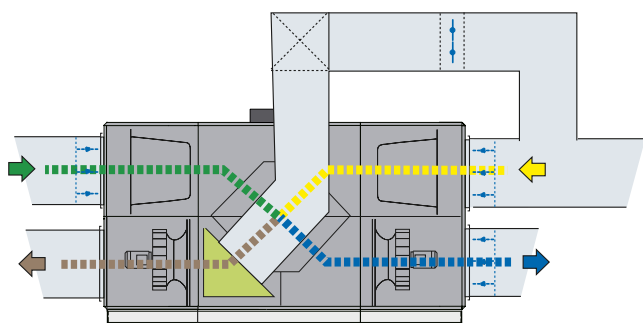
The air bypass section is used when you want the extract air to bypass the heat exchanger and filter, e.g. as a component in a system for smoke extraction. See the example for respective variants/sizes.

The fans of the air handling unit are tested for, and can manage operation for one hour at 70°C.

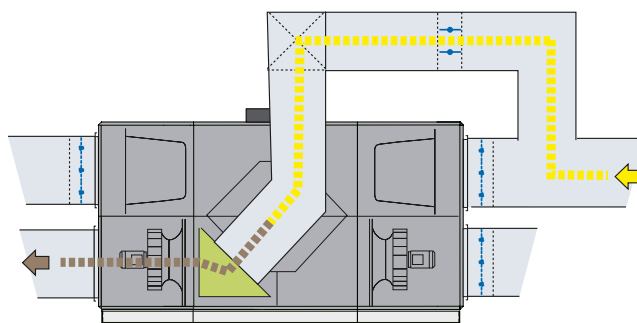
The smoke extraction adapter is designed for use with GOLD PX, size 004-080.

#### Example

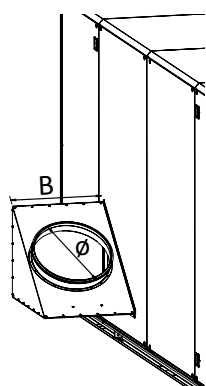
*Normal operation.*



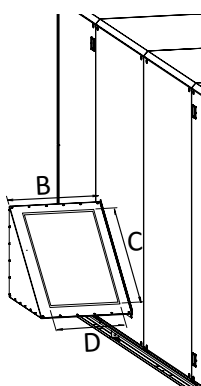
*The extract air is routed to bypass the heat exchanger and filter*



#### Size 004-040+



#### Size 050+ - 080



| For GOLD     | B   | ø   | C    | D   |
|--------------|-----|-----|------|-----|
| 004/005      | 320 | 250 | -    | -   |
| 007/008      | 385 | 315 | -    | -   |
| 011/012      | 477 | 400 | -    | -   |
| 014/020      | 477 | 400 | -    | -   |
| 025/030      | 577 | 500 | -    | -   |
| 035/040/040+ | 700 | 630 | -    | -   |
| 050+/060+    | 500 | -   | 1000 | 400 |
| 070/080      | 500 | -   | 1200 | 400 |

## Complements and accessories

### Unit sections

#### TCRS duct crossover section

The duct crossover section for GOLD PX units is designed for use when you need to have the extract air fan and/or the supply air fan in the upper level. This may be necessary if space available is restricted or for example when replacing older AHUs with new ones that have fans in the upper level.

It is also possible to use the duct crossover section as a fire bypass.

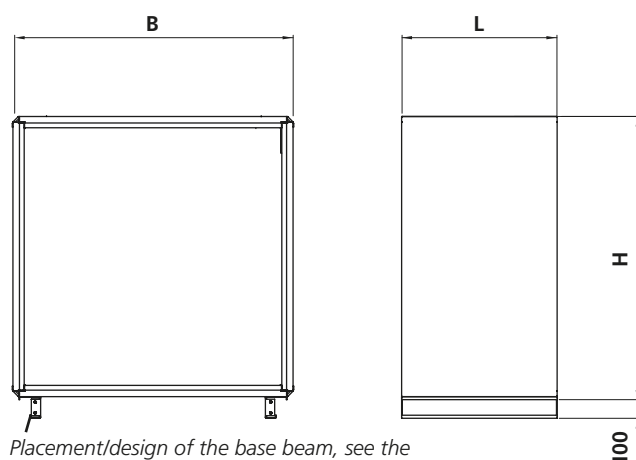
The duct crossover section is available for GOLD PX size 011-040. The duct crossover section is also available for GOLD PX size 004-008 in split version.

#### Delivery version:

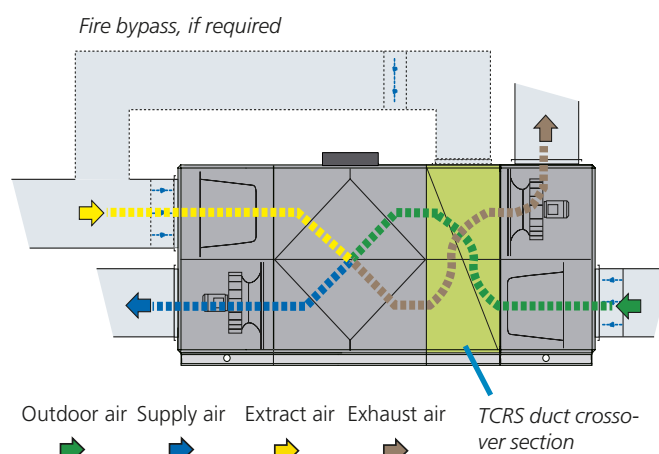
The duct crossover section is fitted to at least one of the other unit sections, see the section entitled: Description of the Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 004-080.

#### Work to be carried out at the building site:

Fitting together/splitting of unit sections to the extent required.



Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.

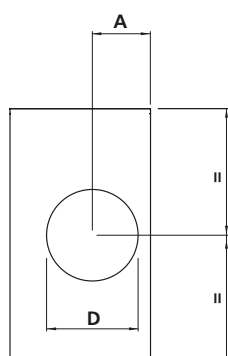


| For GOLD | B    | H    | L   | kg  |
|----------|------|------|-----|-----|
| 004/005  | 825  | 920  | 565 | 66  |
| 007/008  | 995  | 1085 | 625 | 84  |
| 011/012  | 1199 | 1295 | 750 | 120 |
| 014/020  | 1400 | 1551 | 750 | 146 |
| 025/030  | 1600 | 1811 | 975 | 169 |
| 035/040  | 1990 | 2159 | 975 | 248 |

#### Duct connection dimensions for fire bypass, if required

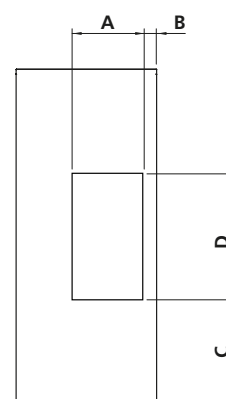
The illustration shows the Duct crossover section viewed from above.

#### TCRS 005, 020



| For GOLD | A   | D   |
|----------|-----|-----|
| 004/005  | 210 | 315 |
| 007/008  | 250 | 400 |
| 011/012  | 300 | 500 |
| 014/020  | 300 | 500 |

#### TCRS 030, 040



| For GOLD | A   | B  | C   | D   |
|----------|-----|----|-----|-----|
| 025/030  | 400 | 78 | 500 | 600 |
| 035/040  | 500 | 74 | 595 | 800 |

## Complements and accessories

### Unit sections

#### Bottom connection section TCBC

In cases where both (or all four) downward duct connections are required, the spacer section TCGA with downward duct connection (see section Duct accessories in insulated casing) and a bottom connection section can be used, see the basic layout diagram.

Duct connections are equipped with a connection frame with predrilled holes for screw connection.

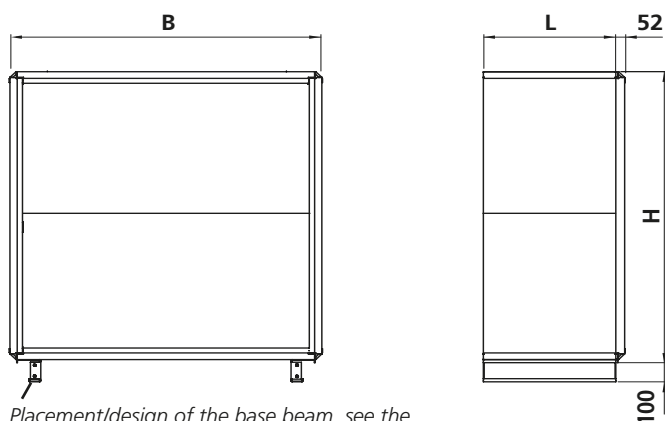
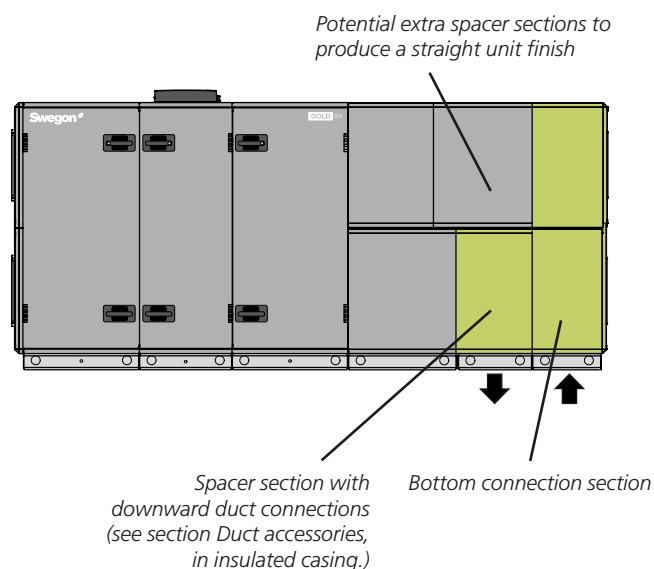
The cover panels on the inspection side are easily removed.

For reasons of safety, duct connections are fitted with grille plates.

In certain cases extra spacer sections may be required to produce a straight unit finish.

Bottom connection sections are available for GOLD RX/PX/CX sizes 004-040.

#### Basic layout diagram

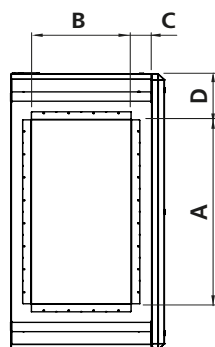


Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.

| For GOLD | B    | H    | L   | kg  |
|----------|------|------|-----|-----|
| 004/005  | 825  | 920  | 565 | 66  |
| 007/008  | 995  | 1085 | 565 | 82  |
| 011/012  | 1199 | 1295 | 565 | 101 |
| 014/020  | 1400 | 1551 | 565 | 140 |
| 025/030  | 1600 | 1811 | 850 | 176 |
| 035/040  | 1990 | 2159 | 850 | 225 |

#### Duct connection size

The illustration shows the air handling unit section from below.



| For GOLD | A    | B   | C   | D   |
|----------|------|-----|-----|-----|
| 004/005  | 500  | 300 | 132 | 162 |
| 007/008  | 600  | 400 | 82  | 198 |
| 011/012  | 800  | 400 | 82  | 200 |
| 014/020  | 1000 | 400 | 82  | 200 |
| 025/030  | 1200 | 500 | 175 | 200 |
| 035/040  | 1400 | 600 | 125 | 295 |

## Complements and accessories

### Unit sections

#### TCFE multisection

The multisection is an extra unit section, available in two lengths, with intermediate deck and optional combinations of cover panels/inspection doors on the inspection side, see illustrations on the next page. The cover panels are easy to dismantle.

Up to two multisections can be used in one air handling unit.

The multisection is available for the size 011 and larger GOLD RX, PX and CX units. The multisection is also available for GOLD RX/PX size 004-008 in split version. The multisection can be located between the other unit sections of the GOLD unit. See example below.

The multisection is available, as a special version, with installed accessories from the factory, for example an air heater/air cooler, dampers, etc..

#### Delivery version:

Sizes 004-080: The multisection is fitted to at least one of the other unit sections, see the section entitled: Description of the Air Handling Unit/Delivery Configuration RX/PX/CX, sizes 004-080.

Size 120: The multisection is supplied as an individual item in two sections.

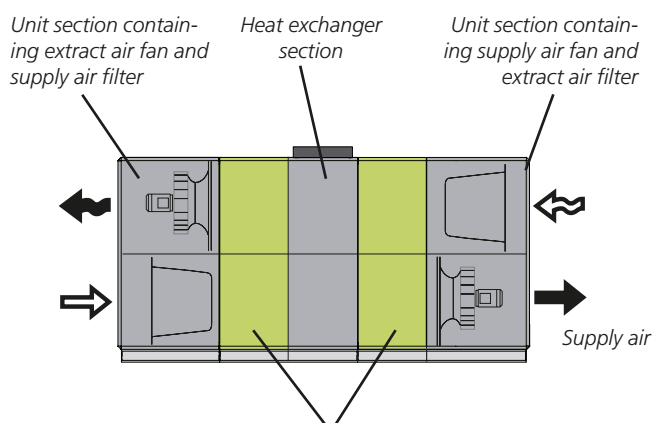
#### Work to be carried out at the building site:

Sizes 004-080: Fitting together/splitting of unit sections to the extent required.

Size 120: Assembly of the multisection to become one unit. The multisection is then fitted together with the other unit sections.



#### Example



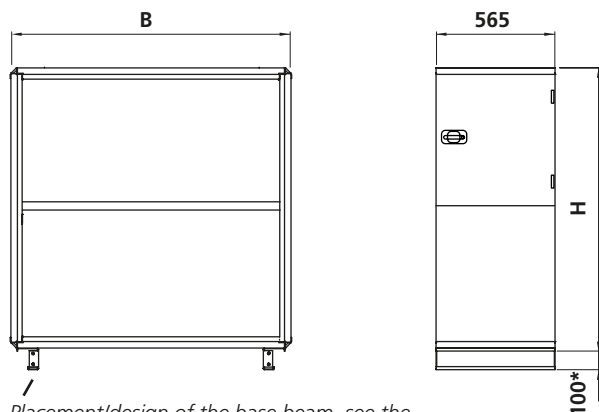
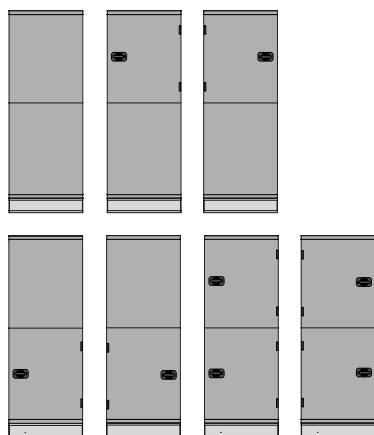
Up to two multisections can be used for one air handling unit.  
The illustration shows possible locations of the multisection.

## Complements and accessories

### Unit sections

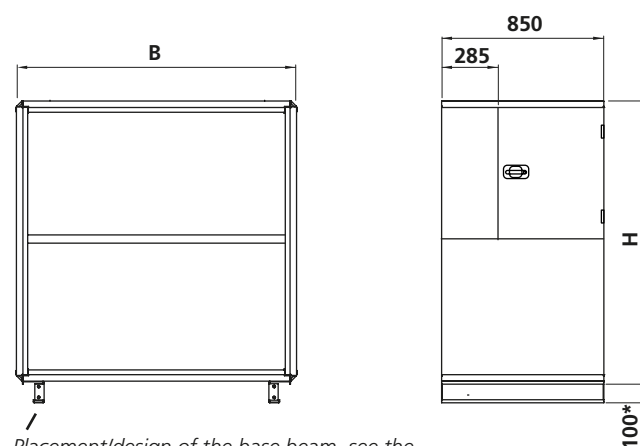
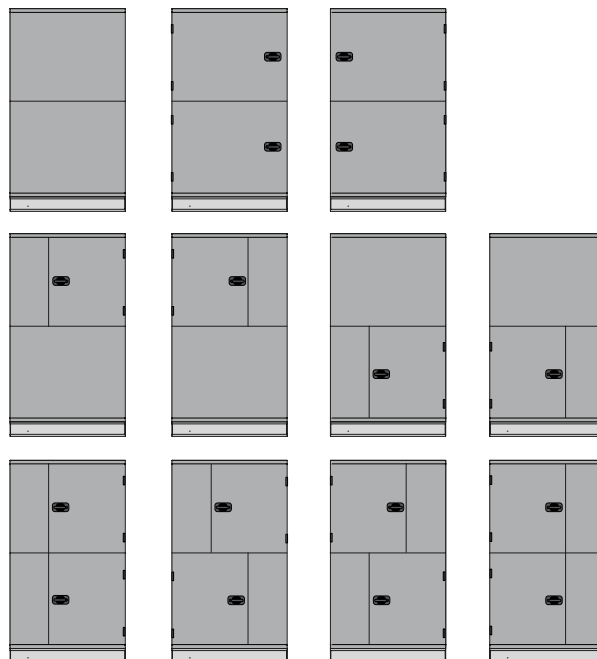
Possible combinations,  
cover panels/inspection doors

#### Multisection, short (565 mm)



Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.  
The possible combinations of cover panels/inspection doors, see above.

#### Multisection, long (850 mm)



Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.

\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit,  $h = 265$  mm.

| For GOLD | B    | H    | kg  |
|----------|------|------|-----|
| 004/005  | 825  | 920  | 74  |
| 007/008  | 995  | 1085 | 77  |
| 011/012  | 1199 | 1295 | 90  |
| 014/020  | 1400 | 1551 | 104 |
| 025/030  | 1600 | 1811 | 119 |
| 035/040  | 1990 | 2159 | 143 |
| 050/060  | 2318 | 2288 | 189 |
| 070/080  | 2637 | 2640 | 258 |
| 100/120  | 3340 | 3340 | 492 |

| For GOLD | B    | H    | kg  |
|----------|------|------|-----|
| 004/005  | 825  | 920  | 110 |
| 007/008  | 995  | 1085 | 120 |
| 011/012  | 1199 | 1295 | 142 |
| 014/020  | 1400 | 1551 | 167 |
| 025/030  | 1600 | 1811 | 189 |
| 035/040  | 1990 | 2159 | 202 |
| 050/060  | 2318 | 2288 | 243 |
| 070/080  | 2637 | 2640 | 347 |
| 100/120  | 3340 | 3340 | 640 |

## Complements and Accessories

### Duct accessories, uninsulated

#### Common for duct accessories

The duct accessories must be positioned outside the GOLD unit in the ductwork. The unique Wing+ fans in the GOLD air handling unit also make it possible to connect duct accessories directly to the duct connections of the air handling unit without pressure losses or non-uniform air distribution.

For outdoor use, insulated duct accessories must be selected, see special section.

**GOLD with standard end connection frame:**

The duct accessories for GOLD sizes 004/005, 007/008 and 011/012 are fitted with a rubber ring seal.

The duct accessories for GOLD sizes 014/020, 025/030, 035/040, 050/060, 070/080 and 100/120 are equipped with connection frames for slip-clamp jointing (slip-clamps must be ordered separately).

Type METU connection frames are available as accessories. Insulating, if required, must be done at the site.

**GOLD with full face connection frame:**

Full face connection frames are available as accessories for further reduction of the pressure drop in the ventilation system. See the section on Mechanical equipment.

The duct accessories are equipped with connection frame for slip-clamp jointing (slip clamps must be ordered separately). Insulating, if required, must be done at the site.

Other particulars for sizing can be computed in the AHU Design air handling unit selection program.

## Complements and Accessories

### Duct accessories, uninsulated

#### TBSA Dampers

The TBSA 000-031, 000-040, 060-030 and 080-040 dampers are used as shut-off dampers or boosting dampers. The dampers of other sizes can also be used for other applications, such as an outdoor air damper for the ReCO<sub>2</sub> control function.

Shut-off dampers are normally used if the air handling unit is idle during some period, for example at night, or if a water coil without anti-frost protection is used.

Can be mounted in a horizontal or vertical duct.

Complete with damper actuator for 24 V. The actuator can be selected with spring return or on/off actuation. TBSA 000-050 and TBSA 100-040 – 250-080 are also available with an actuator of modulating type with spring return.

For outdoor use, insulated duct accessories must be selected, see special section.

#### Technical data

Damper in Magnelis-coated sheet steel, environmental class C4.

Tightness class 3 to EN 1751.

#### Installation

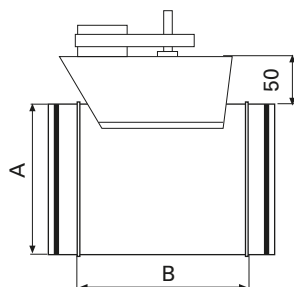
Wire the control and power supply cables to the appropriate wiring terminal on the air handling unit.

*GOLD with standard end connection frame:*

*TBSA 000-031, is compatible with GOLD sizes 004, 005*

*TBSA 000-040, is compatible with GOLD size 007, 008*

*TBSA 000-050, is compatible with GOLD size 011, 012*



| TBSA      | A     | B   | kg |
|-----------|-------|-----|----|
| 2-000-031 | Ø 315 | 140 | 5  |
| 2-000-040 | Ø 400 | 210 | 7  |
| 2-000-050 | Ø 500 | 210 | 8  |



*GOLD with standard end connection frame:*

*TBSA 100-040, matches GOLD sizes 014, 020*

*TBSA 120-030, matches GOLD RX/IPX Top sizes 014, 020 (for air intake)*

*TBSA 120-050, matches GOLD sizes 025, 030*

*TBSA 140-030, matches GOLD RX/IPX Top sizes 025, 030 (for air intake)*

*TBSA 140-060, matches GOLD sizes 035, 040*

*TBSA 160-080, matches GOLD sizes 050, 060*

*TBSA 180-100, matches GOLD sizes 070, 080*

*TBSA 240-120, matches GOLD sizes 100, 120*

*(for air intake resp. fan outlet for forward air discharge)*

*TBSA 250-080, matches GOLD sizes 100, 120*

*(for fan outlet for upward air discharge)*

*GOLD with full face connection frame (accessory TBXZ):*

*TBSA 060-030, matches GOLD sizes 004, 005*

*TBSA 080-040, matches GOLD sizes 007, 008*

*TBSA 100-040, matches GOLD sizes 011, 012*

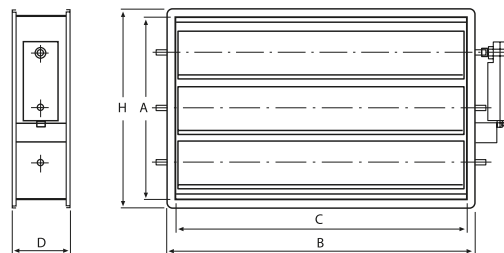
*TBSA 120-050, matches GOLD sizes 014, 020*

*TBSA 140-060, matches GOLD sizes 025, 030*

*TBSA 160-080, matches GOLD sizes 035, 040*

*TBSA 180-100, matches GOLD sizes 050, 060*

*TBSA 240-120, matches GOLD sizes 070, 080*



| TBSA      | A    | B    | C    | D   | H    | kg  |
|-----------|------|------|------|-----|------|-----|
| 4-060-030 | 300  | 640  | 600  | 220 | 340  | 10  |
| 4-080-040 | 400  | 840  | 800  | 220 | 440  | 15  |
| 6-100-040 | 400  | 1040 | 1000 | 220 | 440  | 20  |
| 7-120-030 | 300  | 1240 | 1200 | 160 | 340  | 13  |
| 6-120-050 | 500  | 1240 | 1200 | 220 | 540  | 25  |
| 7-140-030 | 300  | 1440 | 1400 | 160 | 340  | 18  |
| 6-140-060 | 600  | 1440 | 1400 | 220 | 640  | 32  |
| 6-160-080 | 800  | 1640 | 1600 | 220 | 840  | 42  |
| 4-180-100 | 1000 | 1840 | 1800 | 220 | 1040 | 63  |
| 4-240-120 | 1200 | 2440 | 2400 | 220 | 1240 | 105 |
| 4-250-080 | 800  | 2540 | 2500 | 220 | 840  | 93  |

## Complements and Accessories

### Duct accessories, uninsulated

#### TBDA Unit silencer

##### TBDA 000-031, 000-040 and 000-050

Sound attenuators TBDA 000-031, 000-040 and 000-050 are circular sound attenuators for GOLD sizes 004–012 with standard end connection frame and are intended for installation in the ductwork.

For outdoor use, insulated duct accessories must be selected, see special section.

#### Technical data

Galvanized sheet steel.

Sound attenuating material consisting of 100 mm thick long-fibred glass wool slabs that offer excellent sound attenuation, especially in the mid-frequencies. Glass wool covered with a layer of EUROLON that withstands substantially higher air velocities and mechanical strain than staple fibre. Sound attenuating material covered with perforated sheet steel outside the EUROLON layer.

#### Installation

Provision for inspection and cleaning must be guaranteed.

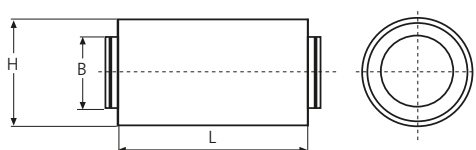


*GOLD with standard end connection frame:*

*TBDA 000-031, is compatible with GOLD sizes 004, 005*

*TBDA 000-040, is compatible with GOLD size 007, 008*

*TBDA 000-050, is compatible with GOLD size 011, 012*



| TBDA      | B   | H   | L    | kg   |
|-----------|-----|-----|------|------|
| 1-000-031 | 315 | 520 | 915  | 19,5 |
| 1-000-040 | 400 | 600 | 1200 | 29,5 |
| 1-000-050 | 500 | 700 | 1200 | 63   |

## Complements and Accessories

### Duct accessories, uninsulated

#### TBDA Unit silencer

##### TBDA 060-030 to 240-120

Sound attenuators TBDA 060-030 to 240-120 are rectangular sound attenuators for the GOLD sizes 004–120 and are intended for installation in the ductwork or directly to air handling units with standard end connection frames or full face connection frames.

For outdoor use, insulated duct accessories must be selected, see special section.

#### Technical data

Galvanized sheet steel.

Sound absorption material of type Cleanolon-AL. Cleanolon-AL consists of mineral wool covered with perforated aluminium foil. Type approved with regard to suitability for cleaning, emissions and fibre entrainment. The material conforms to the provisions of Surface Layer Class 1 (the highest class). Type approved with regard to cleanability, emissions and fibre entrainment. The material conforms to the provisions of Surface Layer Class 1 (the highest class).

#### Installation

Provision for inspection and cleaning must be guaranteed.



TBDA-1060-030  
TBDA-1-080-040  
TBDA-1-100-040  
TBDA-1-120-050  
TBDA-1-140-060  
TBDA-1-240-120

TBDA-1-160-080  
TBDA-1-180-100



*GOLD with standard end connection frame:*

TBDA 100-040, matches GOLD sizes 014, 020

TBDA 120-050, matches GOLD sizes 025, 030

TBDA 140-060, matches GOLD sizes 035, 040

TBDA 240-120, matches GOLD sizes 100, 120

*GOLD with full face connection frame (accessory TBXZ):*

TBDA 060-030, matches GOLD sizes 004, 005

TBDA 080-040, matches GOLD sizes 007, 008

TBDA 100-040, matches GOLD sizes 011, 012

TBDA 120-050, matches GOLD sizes 014, 020

TBDA 140-060, matches GOLD sizes 025, 030

TBDA 240-120, matches GOLD sizes 070, 080

*GOLD with standard end connection frame:*

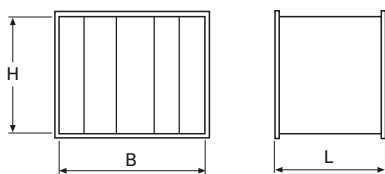
TBDA 160-080, matches GOLD sizes 050, 060

TBDA 180-100, matches GOLD sizes 070, 080

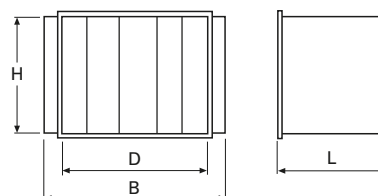
*GOLD with full face connection frame (accessory TBXZ):*

TBDA 160-080, matches GOLD sizes 035, 040

TBDA 180-100, matches GOLD sizes 050, 060



| TBDA      | B    | H    | L    | kg  |
|-----------|------|------|------|-----|
| 1-060-030 | 600  | 300  | 650  | 13  |
| 1-080-040 | 800  | 400  | 650  | 22  |
| 1-100-040 | 1000 | 400  | 650  | 26  |
| 1-120-050 | 1200 | 500  | 650  | 33  |
| 1-140-060 | 1400 | 600  | 650  | 39  |
| 1-240-120 | 2400 | 1200 | 1250 | 180 |



| TBDA      | B    | D    | H    | L    | kg  |
|-----------|------|------|------|------|-----|
| 1-160-080 | 1800 | 1600 | 800  | 650  | 72  |
| 1-180-100 | 2000 | 1800 | 1000 | 1250 | 115 |

## Complements and Accessories

### Duct accessories, uninsulated

#### TBLA Air heater for hot water

The TBLA air heater uses hot water for post-heating the supply air

The GOLD air handling unit's control system and its efficient rotary heat exchanger make it often possible design ventilation systems without downstream air heaters according to the ERS model if the air handling unit is operated in the temperature control mode.

Air heaters for the GOLD, size 004-040 can be installed for horizontal or vertical airflow, other sizes only for horizontal airflow.

The TBLA air heater, capacity variant 1, is available with Thermo Guard anti-frost tension protection for the size 004-040 GOLD units.

For outdoor use, insulated duct accessories must be selected, see special section.

#### Technical data

Uninsulated casing made of galvanized sheet steel.

Finned-tube heat exchangers fabricated of copper tubes and profiled aluminium fins. The headers and the pipe-work to the water connections are made of copper. The male threaded pipe connections are made of brass.

The TBLA air heater for hot water is available in three capacity variants. Capacity variant 1 provides the lowest capacity and capacity variant 3 provides the highest capacity.

All the coils are equipped with individual plugs for venting and drainage. A separate connection is provided for an anti-frost monitor sensor.

#### Valve set

The TBVL valve set with 2(3)-way valve, actuator, freeze protection sensor and connection cable with quick connector can be ordered.

If you install a valve of your own, you can instead select a set of electrical connection components. This set contains the connection cable with quick connector, resistor and insertion-type or strap-on sensor.

#### Extra accessories

Circulation pump used for protecting the freeze protection monitor function if air heaters without anti-frost bursting protection are used.

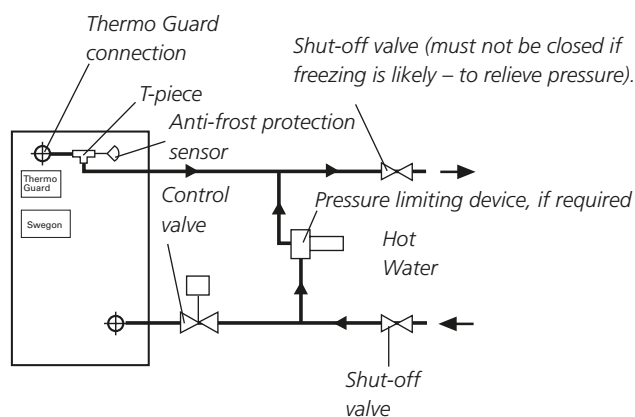
Supplied with T coupling, non-return valve and adjustment valve. The automatic pump control system is built into the control equipment of the GOLD unit.

#### Installation

Provision for inspection and cleaning must be guaranteed. Electrical connection.



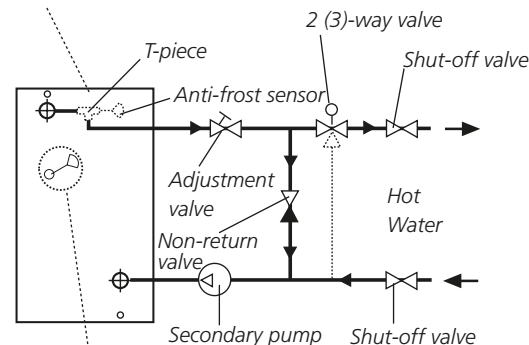
#### Installation principle with Thermo Guard



#### Installation principle without Thermo Guard

Applicable to

TBLA 000-031, 000-040, 000-050, 060-030 and 080-040



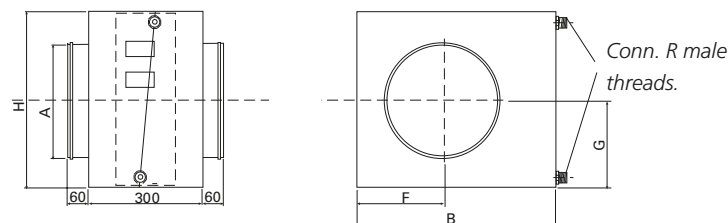
Anti-frost monitor sensor. Applicable to TBLA 100-040 to 240-120

1) The anti-frost sensor for the TBLA sizes 000-031, 000-040, 000-050, 060-030 and 000-050 should be fitted to the return pipework and for the TBLA sizes 100-040 and 240-120 in the connection on the coil.

## Complements and Accessories

### Duct accessories, uninsulated

#### Without Thermoguard



GOLD with standard end connection frame:

TBLA 000-031, is compatible with GOLD sizes 004, 005

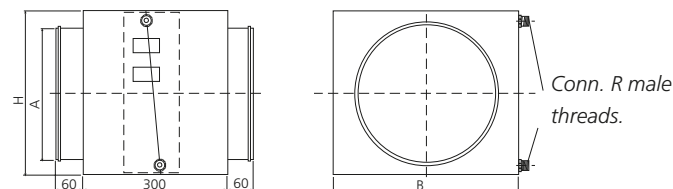
TBLA 000-040, is compatible with GOLD size 007, 008

TBLA 000-050, is compatible with GOLD size 011, 012

| TBLA          | A     | B   | F   | G   | H   | R    | kg* |
|---------------|-------|-----|-----|-----|-----|------|-----|
| 5-000-031-2-1 | Ø 315 | 490 | 225 | 192 | 405 | DN15 | 17  |
| 7-000-040-2-1 | Ø 400 | 590 | 277 | 250 | 500 | DN20 | 16  |
| 5-000-040-2-2 | Ø 400 | 590 | 277 | 250 | 500 | DN20 | 18  |
| 5-000-050-2-1 | Ø 500 | 690 | 327 | 300 | 600 | DN20 | 21  |
| 7-000-050-2-2 | Ø 500 | 690 | 327 | 300 | 600 | DN20 | 22  |

\* Excluding water.

#### With Thermoguard



GOLD with standard end connection frame:

TBLA 000-031, is compatible with GOLD sizes 004, 005

TBLA 000-040, is compatible with GOLD size 007, 008

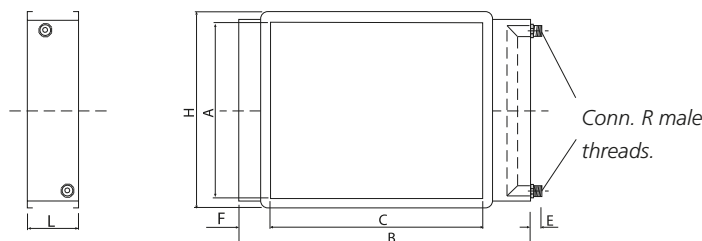
TBLA 000-050, is compatible with GOLD size 011, 012

| TBLA          | A     | B   | H   | R     | kg* |
|---------------|-------|-----|-----|-------|-----|
| 4-000-031-1-1 | Ø 315 | 488 | 428 | DN 15 | 14  |
| 4-000-040-1-1 | Ø 400 | 588 | 528 | DN 15 | 19  |
| 4-000-050-1-1 | Ø 500 | 688 | 628 | DN 15 | 24  |

\* Excluding water.

# Complements and Accessories

## Duct accessories, uninsulated



GOLD with standard end connection frame:

TBLA 100-040, matches GOLD, sizes 014, 020

TBLA 120-050, matches GOLD, sizes 025, 030

TBLA 140-060, matches GOLD, sizes 035, 040

GOLD with full face connection frame (accessory TBXZ):

TBLA-1-060-030, matches GOLD sizes 004, 005

TBLA-1-080-040, matches GOLD sizes 007, 008

TBLA-1-100-040, matches GOLD sizes 011, 012

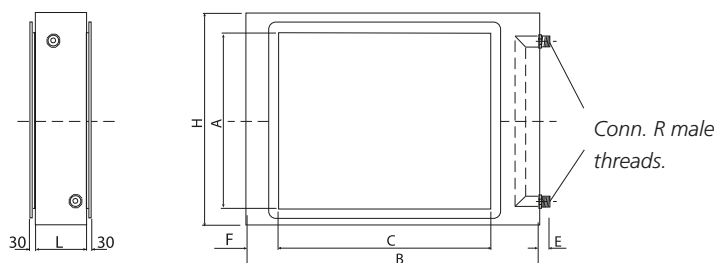
TBLA-1-120-050, matches GOLD sizes 014, 020

TBLA-1-140-060, matches GOLD sizes 025, 030

### Without Thermoguard

| TBLA          | A   | B    | C    | E  | H   | L   | R    | F  | kg* |
|---------------|-----|------|------|----|-----|-----|------|----|-----|
| 4-060-030-2-1 | 300 | 728  | 600  | 80 | 338 | 148 | DN15 | 47 | 6   |
| 4-060-030-2-2 | 300 | 728  | 600  | 80 | 338 | 148 | DN15 | 47 | 7   |
| 4-080-040-2-1 | 400 | 928  | 800  | 80 | 438 | 148 | DN15 | 47 | 8   |
| 4-080-040-2-2 | 400 | 928  | 800  | 80 | 438 | 148 | DN15 | 47 | 10  |
| 5-100-040-2-1 | 400 | 1119 | 1000 | 90 | 438 | 148 | DN15 | 40 | 14  |
| 5-100-040-2-2 | 400 | 1126 | 1000 | 90 | 438 | 170 | DN20 | 40 | 18  |
| 5-120-050-2-1 | 500 | 1319 | 1200 | 90 | 538 | 148 | DN15 | 40 | 17  |
| 5-140-060-2-1 | 600 | 1526 | 1400 | 90 | 638 | 148 | DN20 | 40 | 23  |

\* Excluding water.



GOLD with standard end connection frame:

TBLA 100-040, matches GOLD, sizes 014, 020

TBLA 120-050, matches GOLD, sizes 025, 030

TBLA 140-060, matches GOLD, sizes 035, 040

TBLA 160-080, matches GOLD, sizes 050, 060

TBLA 180-100, matches GOLD, sizes 070, 080

TBLA 240-120, matches GOLD, sizes 100, 120

GOLD with full face connection frame (accessory TBXZ):

TBLA 100-040, matches GOLD, sizes 011, 012

TBLA 120-050, matches GOLD, sizes 014, 020

TBLA 140-060, matches GOLD, sizes 025, 030

TBLA 160-080, matches GOLD, sizes 035, 040

TBLA 180-100, matches GOLD, sizes 050, 060

TBLA 240-120, matches GOLD, sizes 070, 080

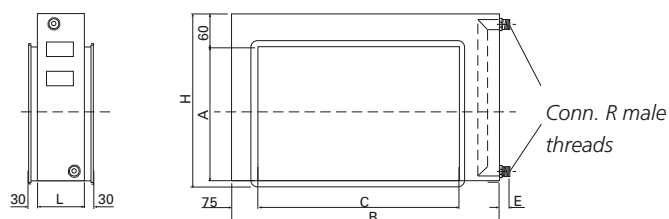
### Without Thermoguard

| TBLA          | A    | B    | C    | E  | H    | L   | R    | F   | kg* |
|---------------|------|------|------|----|------|-----|------|-----|-----|
| 5-100-040-2-3 | 400  | 1250 | 1000 | 85 | 605  | 300 | DN25 | 125 | 53  |
| 5-120-050-2-2 | 500  | 1590 | 1200 | 85 | 700  | 300 | DN20 | 195 | 72  |
| 5-120-050-2-3 | 500  | 1590 | 1200 | 85 | 755  | 300 | DN32 | 195 | 78  |
| 5-140-060-2-2 | 600  | 1815 | 1400 | 85 | 840  | 300 | DN25 | 208 | 94  |
| 4-140-060-2-3 | 600  | 1850 | 1400 | 85 | 880  | 300 | DN32 | 225 | 101 |
| 4-160-080-2-1 | 800  | 2210 | 1600 | 85 | 1020 | 300 | DN25 | 280 | 97  |
| 4-160-080-2-2 | 800  | 2210 | 1600 | 85 | 1020 | 300 | DN32 | 274 | 114 |
| 4-160-080-2-3 | 800  | 2210 | 1600 | 85 | 1020 | 300 | DN50 | 259 | 127 |
| 4-180-100-2-1 | 1000 | 2530 | 1800 | 85 | 1220 | 300 | DN25 | 340 | 127 |
| 4-180-100-2-2 | 1000 | 2530 | 1800 | 85 | 1220 | 300 | DN32 | 329 | 152 |
| 4-180-100-2-3 | 1000 | 2530 | 1800 | 85 | 1220 | 300 | DN50 | 319 | 168 |
| 4-240-120-2-1 | 1200 | 3240 | 2400 | 85 | 1520 | 300 | DN40 | 389 | 187 |
| 4-240-120-2-2 | 1200 | 3240 | 2400 | 85 | 1520 | 300 | DN50 | 374 | 235 |
| 4-240-120-2-3 | 1200 | 3240 | 2400 | 85 | 1520 | 300 | DN65 | 358 | 264 |

\* Excluding water.

## Complements and Accessories

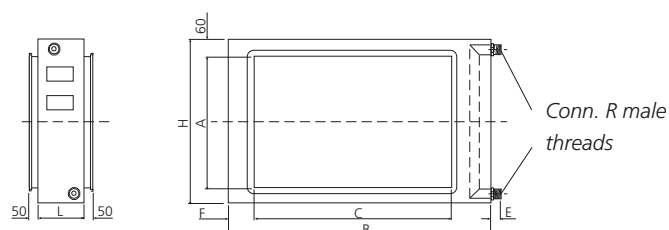
### Duct accessories, uninsulated



GOLD with full face connection frame (accessory TBXZ):  
 TBLA 060-030, matches GOLD sizes 004, 005  
 TBLA 080-040, matches GOLD sizes 007, 008

| TBLA          | Capacity variant 1 |     |     |     |     |     |      |     |
|---------------|--------------------|-----|-----|-----|-----|-----|------|-----|
|               | B                  | H   | L   | A   | C   | E   | R    | kg* |
| 4-060-030-1-1 | 789                | 381 | 180 | 300 | 600 | 125 | DN15 | 13  |
| 4-080-040-1-1 | 989                | 481 | 180 | 400 | 800 | 125 | DN15 | 18  |

\* Excluding water.



GOLD with standard end connection frame:  
 TBLA 100-040, matches GOLD, sizes 014, 020  
 TBLA 120-050, matches GOLD, sizes 025, 030  
 TBLA 140-060, matches GOLD, sizes 035, 040  
 TBLA 160-080, matches GOLD, sizes 050, 060  
 TBLA 180-100, matches GOLD, sizes 070, 080  
 TBLA 240-120, matches GOLD, sizes 100, 120

### With Thermoguard

| TBLA      | Capacity variant 1 |      |     |      |      |     |     |      |     |
|-----------|--------------------|------|-----|------|------|-----|-----|------|-----|
|           | B                  | H    | L   | A    | C    | E   | F   | R    | kg* |
| 4-100-040 | 1213               | 580  | 210 | 400  | 1000 | 100 | 100 | DN15 | 50  |
| 4-120-050 | 1568               | 680  | 210 | 500  | 1200 | 100 | 100 | DN20 | 68  |
| 4-140-060 | 1818               | 820  | 210 | 600  | 1400 | 100 | 100 | DN20 | 90  |
| 4-160-080 | 2173               | 1020 | 300 | 800  | 1600 | 100 | 254 | DN25 | 121 |
| 4-180-100 | 2493               | 1195 | 300 | 1000 | 1800 | 100 | 310 | DN32 | 159 |
| 4-240-120 | 3154               | 1510 | 300 | 1200 | 2400 | 100 | 356 | DN50 | 195 |

\* Excluding water.

GOLD with full face connection frame (accessory TBXZ):  
 TBLA 100-040, matches GOLD, sizes 011, 012  
 TBLA 120-050, matches GOLD, sizes 014, 020  
 TBLA 140-060, matches GOLD, sizes 025, 030  
 TBLA 160-080, matches GOLD, sizes 035, 040  
 TBLA 180-100, matches GOLD, sizes 050, 060  
 TBLA 240-120, matches GOLD, sizes 070, 080

## Complements and Accessories

### Duct accessories, uninsulated

#### TBLF Air heater for preheating, hot water

The TBLF air heater is used for preheating the supply air and uses hot water as the heating medium. The TBLF is installed in the outdoor air duct. The air heater is designed for clean air, Swegon therefore recommends that pre-filters are installed before the air heater (seen in the direction of air).

Reheating the air when the outdoor air is cold and the humidity is high can prevent condensate from forming in the filters. The function can also be used when it is extremely cold outdoors and you want to heat the air up to -20°C for instance.

Used in combination with a plate heat exchanger, it may be of interest to preheat the air in order to avoid having to by-pass the heat exchanger.

For outdoor use, insulated duct accessories must be selected, see special section.

#### Technical data

The air heater is sized for heating from -4°C to + 4°C using 82/71°C heating water.

Uninsulated casing made of galvanized sheet steel.

Finned-tube heat exchangers fabricated of copper tubes and profiled aluminium fins. Fin pitch: 5.5 mm. The headers and the pipework connected to the water connections are made of copper.

The pipe connections have male threads and are made of brass.

#### Valve set

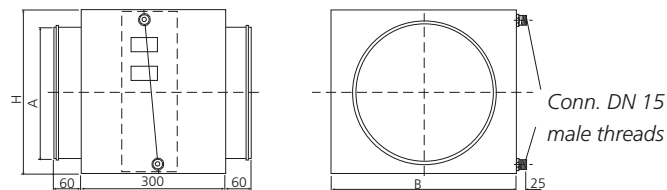
The TBVL valve set with 2(3)-way valve, valve actuator, freeze protection sensor and connection cable with quick-fit connector can be ordered. If you use a valve of your own, you can instead select a set of electrical connection components. This set contains a connection cable with quick-fit connector, resistor and insertion type or strap-on sensor.

*GOLD with standard end connection frame:*

TBLF 000-031, matches GOLD, sizes 004, 005

TBLF 000-040, matches GOLD, sizes 007, 008

TBLF 000-050, matches GOLD, sizes 011, 012



| TBLF      | A     | B   | H   | kg* |
|-----------|-------|-----|-----|-----|
| 1-000-031 | Ø 315 | 488 | 405 | 12  |
| 1-000-040 | Ø 400 | 588 | 528 | 16  |
| 1-000-050 | Ø 500 | 688 | 628 | 19  |

\* Excluding water.



#### Extra accessories

Control system including temperature sensor for installation in a duct and the IQlogic+ with a 0.25 metre long cable, with or without freeze protection sensor.

Circulation pump used for protecting the anti-frost monitor function if coils without anti-frost bursting protection are used. Supplied with T coupling, non-return valve and adjustment valve. The automatic pump control system is built into the control equipment of the GOLD unit.

#### Installation

Provision for inspection and cleaning must be guaranteed. Electrical connections.

*GOLD with standard end connection frame:*

TBLF 100-040, matches GOLD, sizes 014, 020

TBLF 120-050, matches GOLD, sizes 025, 030

TBLF 140-060, matches GOLD, sizes 035, 040

TBLF 160-080, matches GOLD, sizes 050, 060

TBLF 180-100, matches GOLD, sizes 070, 080

TBLF 240-120, matches GOLD sizes 100, 120

*GOLD with full face connection frame (accessory TBXZ):*

TBLF 060-030, matches GOLD sizes 004, 005

TBLF 080-040, matches GOLD sizes 007, 008

TBLF 100-040, matches GOLD, sizes 011, 012

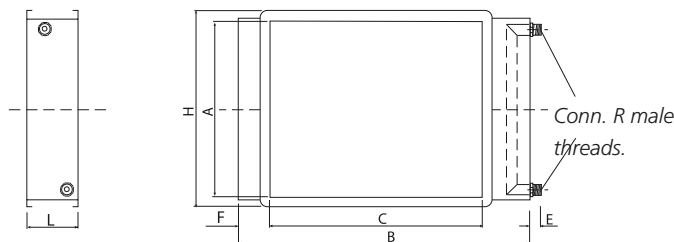
TBLF 120-050, matches GOLD, sizes 014, 020

TBLF 140-060, matches GOLD, sizes 025, 030

TBLF 160-080, matches GOLD, sizes 035, 040

TBLF 180-100, matches GOLD, sizes 050, 060

TBLF 240-120, matches GOLD sizes 070, 080



| TBLF      | A    | B    | C    | E   | H    | L   | R    | F  | kg* |
|-----------|------|------|------|-----|------|-----|------|----|-----|
| 1-060-030 | 300  | 728  | 600  | 80  | 338  | 148 | DN15 | 47 | 5   |
| 1-080-040 | 400  | 935  | 800  | 80  | 438  | 148 | DN20 | 47 | 7   |
| 1-100-040 | 400  | 1135 | 1000 | 100 | 438  | 148 | DN20 | 47 | 13  |
| 1-120-050 | 500  | 1335 | 1200 | 100 | 538  | 148 | DN20 | 47 | 16  |
| 1-140-060 | 600  | 1545 | 1400 | 100 | 638  | 148 | DN25 | 47 | 20  |
| 1-160-080 | 800  | 1757 | 1600 | 100 | 838  | 148 | DN32 | 47 | 27  |
| 1-180-100 | 1000 | 1957 | 1800 | 100 | 1038 | 148 | DN32 | 47 | 31  |
| 1-240-120 | 1190 | 2568 | 2400 | 80  | 1238 | 148 | DN32 | 47 | 43  |

\* Excluding water.

## Complements and accessories

### Duct accessories, uninsulated

#### Air heater TBCE/TBRE, electric

Air heater TBCE/TBRE is used for reheating of the supply air or for certain preheating needs of outdoor air. The air heater is designed for clean air, Swegon therefore recommends that pre-filters are installed before the air heater (seen in the direction of air) when the air heater is used for preheating of the outdoor air.

In many applications it is possible to omit the air heater for reheat if the air handling unit control system is operated in the temperature regulation mode according to the ERS model and when the efficient rotary heat exchanger is in use.

The air heater can be installed for horizontal or vertical airflow.

The integrated thyristor is controlled via signals from the GOLD air handling unit. The four, five or six series-coupled overheating protections and control signals are connected by means of a quick connector to the GOLD air handling unit.

For outdoor use, insulated duct accessories must be selected, see special section.

#### Technical data

Uninsulated casing made of galvanized sheet steel.

Air heater TBCE/TBRE is available in several capacity variants.

The electrical equipment conforms to the provisions of Degree of Protection IP44.

The air heater is approved for operating temperatures, in the surroundings and the air stream, from -25°C to +40°C.

#### Installation

TBCE 000-031, 000-040 and 000-050: The end panel on the connection side can be dismantled for inspection and connection.

For air heaters with circular duct connection, the distance from or to a duct bend, damper, filter or the like, should be at least the distance that is equivalent to double (triple recommended) the diameter of the duct. For air heaters with a rectangular duct connection the distance should be at least the equivalent to the air heater's diagonal dimension (double recommended), i.e. from corner to corner in the duct section of the air heater. Otherwise there is risk that the airflow through the air heater will be non-uniform, involving risk that the overheat protection device will trip.

Electrical connection. **Power must be supplied directly from the electrical distribution box. An isolating switch is recommended.**



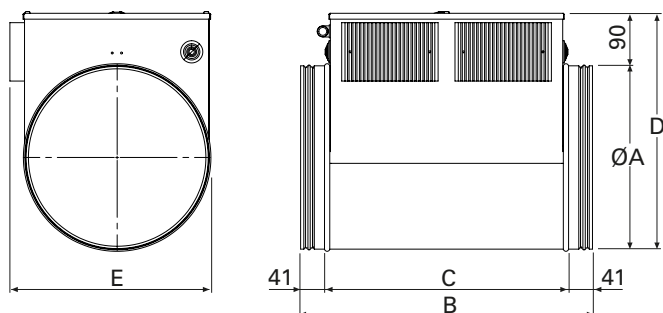
TBCE



TBRE

## Complements and accessories

### Duct accessories, uninsulated

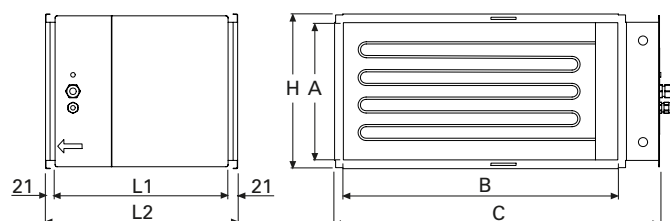


GOLD with standard end connection frame:  
 TBCE 000-031, corresponds to GOLD sizes 004, 005  
 TBCE-000-040, corresponds to GOLD sizes 007, 008  
 TBCE-000-050, corresponds to GOLD sizes 011, 12

| TBCE             | ø A | B    | C    | D   | E   | kg   |
|------------------|-----|------|------|-----|-----|------|
| -1-000-031-002-2 | 315 | 375  | 293  | 405 | 344 | 8    |
| -1-000-031-004-1 | 315 | 375  | 293  | 405 | 344 | 9    |
| -1-000-031-004-2 | 315 | 375  | 293  | 405 | 344 | 9    |
| -1-000-031-007-1 | 315 | 500  | 418  | 405 | 344 | 10,5 |
| -1-000-031-007-2 | 315 | 500  | 418  | 405 | 344 | 10,5 |
| -1-000-031-010-1 | 315 | 500  | 418  | 405 | 344 | 11,5 |
| -1-000-031-010-2 | 315 | 500  | 418  | 405 | 344 | 11,5 |
| -1-000-040-004-1 | 400 | 375  | 293  | 490 | 428 | 10,5 |
| -1-000-040-004-2 | 400 | 375  | 293  | 490 | 428 | 10,5 |
| -1-000-040-007-1 | 400 | 500  | 418  | 490 | 428 | 12,5 |
| -1-000-040-007-2 | 400 | 500  | 418  | 490 | 428 | 12,5 |
| -1-000-040-012-1 | 400 | 630  | 548  | 490 | 428 | 15   |
| -1-000-040-012-2 | 400 | 630  | 548  | 490 | 428 | 15   |
| -1-000-040-018-1 | 400 | 770  | 688  | 490 | 428 | 19,5 |
| -1-000-040-018-2 | 400 | 770  | 688  | 490 | 428 | 20,5 |
| -1-000-050-006-1 | 500 | 375  | 293  | 590 | 528 | 12,5 |
| -1-000-050-006-2 | 500 | 375  | 293  | 590 | 528 | 12,5 |
| -1-000-050-012-1 | 500 | 630  | 548  | 590 | 528 | 17,5 |
| -1-000-050-012-2 | 500 | 630  | 548  | 590 | 528 | 17,5 |
| -1-000-050-021-1 | 500 | 880  | 798  | 590 | 528 | 26   |
| -1-000-050-021-2 | 500 | 880  | 798  | 590 | 528 | 26,5 |
| -1-000-050-027-1 | 500 | 1150 | 1068 | 590 | 528 | 34   |
| -1-000-050-027-2 | 500 | 1150 | 1068 | 590 | 528 | 34   |

## Complements and accessories

### Duct accessories, uninsulated



*GOLD with standard end connection frame:*

*TBRE 100-040, corresponds to GOLD sizes 014, 020*

*TBRE 120-050, corresponds to GOLD sizes 025, 030*

*TBRE 140-060, corresponds to GOLD sizes 035, 040*

*TBRE 160-080, corresponds to GOLD sizes 050, 060*

*TBRE 180-100, corresponds to GOLD sizes 070, 080*

*TBRE 240-120, corresponds to GOLD sizes 100, 120*

*GOLD with full face end connection panel (accessory TBXZ):*

*TBRE 060-030, corresponds to GOLD sizes 004, 005*

*TBRE 080-040, corresponds to GOLD sizes 007, 008*

*TBRE 100-040, corresponds to GOLD, size 011, 012*

*TBRE 120-050 corresponds to GOLD sizes 014, 020*

*TBRE 140-060 corresponds to GOLD, size 025/30*

*TBRE 160-080 corresponds to GOLD, size 035/040*

*TBRE 180-100 corresponds to GOLD, size 050/060*

*TBRE 240-120 corresponds to GOLD, size 070/080*

| TBRE      | A    | B    | C    | H    | L1  | L2  | kg         |
|-----------|------|------|------|------|-----|-----|------------|
| 1-060-030 | 300  | 600  | 710  | 338  | 378 | 420 | 15 - 18    |
| 1-080-040 | 400  | 800  | 880  | 438  | 378 | 420 | 19 - 25,5  |
| 1-100-040 | 400  | 1000 | 1084 | 438  | 378 | 420 | 22 - 37    |
| 1-120-050 | 500  | 1200 | 1285 | 538  | 378 | 420 | 25 - 42    |
| 2-120-050 | 500  | 1200 | 1285 | 538  | 478 | 520 | 44 - 47,5  |
| 1-140-060 | 600  | 1400 | 1482 | 638  | 378 | 420 | 32 - 48    |
| 2-140-060 | 600  | 1400 | 1482 | 638  | 478 | 520 | 49 - 53,5  |
| 1-160-080 | 800  | 1600 | 1737 | 838  | 378 | 420 | 39 - 64    |
| 2-160-080 | 800  | 1600 | 1737 | 838  | 478 | 520 | 61 - 70,5  |
| 1-180-100 | 1000 | 1800 | 2017 | 1038 | 378 | 420 | 56 - 85    |
| 2-180-100 | 1000 | 1800 | 2017 | 1038 | 478 | 520 | 84 - 93    |
| 1-240-120 | 1200 | 2400 | 2521 | 1238 | 378 | 420 | 69,5 - 105 |
| 2-240-120 | 1200 | 2400 | 2521 | 1238 | 558 | 600 | 106        |

## Complements and Accessories

### Duct accessories, uninsulated

#### TBKA Air cooler for chilled water

#### TBKC (direct expansion)

The TBKA/TBKC air cooler is used for cooling the supply air with chilled water or evaporative refrigerant as the cooling medium.

The TBKA air cooler is available in several capacity variants that cover existing needs for each size of GOLD unit.

Air cooler TBKC is dimensioned on a case-by-case basis in the product selection program AHU Design. Dimensions and weights are therefore not reported in the catalogue.

Some variants of cooling unit TBKA are equipped with an insertion-type sensor. These can be used beneficially as combi coils (heating and cooling).

The air cooler must be installed for horizontal airflow.

For outdoor use, insulated duct accessories must be selected, see special section.

**N.B.!** Air cooler with evaporative refrigerant (DX battery) must be installed according to EN 378 and relevant national standards. The installer is responsible for correct installation and CE marking. For air coolers with R32 refrigerant, please note that this refrigerant is part of the A2L group and therefore requires additional action. As standard, the GOLD unit has control functions that can receive alarm signals as well as transmit signals for the required operation level in the event of an alarm.

#### Technical data

Sizes 004-040 have an uninsulated casing made of galvanized sheet steel.

The TBKA/TBKC air coolers consist of copper tubes and profiled aluminium fins. The TBKA has headers and water connections made of copper/brass, with male connection threads. The TBKC has headers and distributor tubes made of copper. The connections are designed for brazed joints.

#### Valve set

The TBVL valve set with 2(3)-way valve, actuator and connection cable with quick-fit connector can be ordered for air cooler water. Temperature sensor water for reading incoming or outgoing cooling medium temperatures as an option.

If you use a valve of your own, you can instead select a set of electrical connection components. This set contains a connection cable with quick-fit connector, resistor and insertion type or strap-on sensor.



#### Installation

TBKA/TBKC 000-031, 000-040 and 000-050: The end panel on the connection side can be dismantled for inspection and connection. TBKA/TBKC 060-030 to 240-120: Provision for inspection and cleaning must be guaranteed.

Connecting the drainage pipework.  
Electrical connections.

## Complements and Accessories

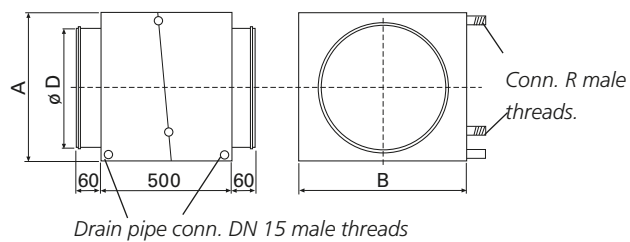
### Duct accessories, uninsulated

GOLD with standard end connection frame:

TBKA 000-031, matches GOLD, sizes 004, 005

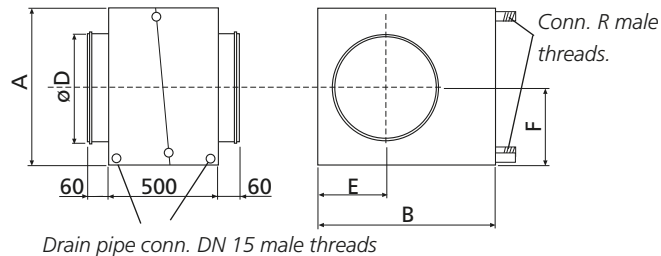
TBKA 000-040, matches GOLD, sizes 007, 008

TBKA 000-050, matches GOLD, sizes 011, 012



| TBKA        | A   | B   | D   | R    | kg* |
|-------------|-----|-----|-----|------|-----|
| 5-000-031-1 | 430 | 490 | 315 | DN15 | 37  |
| 5-000-031-2 | 430 | 490 | 315 | DN20 | 39  |

\* Excl. cooling medium

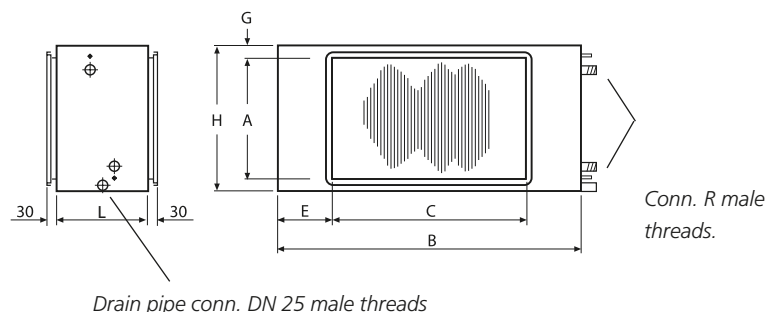


| TBKA        | A   | B   | D   | E   | F   | R    | kg* |
|-------------|-----|-----|-----|-----|-----|------|-----|
| 5-000-040-1 | 475 | 590 | 400 | 255 | 238 | DN20 | 36  |
| 5-000-040-2 | 475 | 590 | 400 | 255 | 238 | DN20 | 38  |
| 5-000-050-1 | 575 | 690 | 500 | 295 | 288 | DN25 | 50  |
| 5-000-050-2 | 575 | 690 | 500 | 295 | 288 | DN25 | 54  |
| 4-000-050-5 | 755 | 770 | 500 | 358 | 378 | DN25 | 44  |
| 4-000-050-6 | 755 | 770 | 500 | 358 | 378 | DN32 | 52  |

\* Excl. cooling medium

# Complements and Accessories

## Duct accessories, uninsulated



GOLD with standard end connection frame:

TBKA 100-040, matches GOLD, sizes 014, 020  
 TBKA 120-050, matches GOLD, sizes 025, 030  
 TBKA 140-060, matches GOLD, sizes 035, 040  
 TBKA 160-080, matches GOLD, sizes 050, 060  
 TBKA 180-100, matches GOLD, sizes 070, 080  
 TBKA 240-120, matches GOLD, sizes 100, 120

GOLD with full face connection frame (accessory TBXZ):

TBKA 060-030, matches GOLD, sizes 004, 005  
 TBKA 080-040, matches GOLD, sizes 007, 008  
 TBKA 100-040, matches GOLD, sizes 011, 012  
 TBKA 120-050, matches GOLD, sizes 014, 020  
 TBKA 140-060, matches GOLD, sizes 025, 030  
 TBKA 160-080, matches GOLD, sizes 035, 040  
 TBKA 180-100, matches GOLD, sizes 050, 060  
 TBKA 240-120, matches GOLD, sizes 070, 080

| TBKA                          | A    | B    | C    | E   | G   | H    | L   | R     | kg <sup>1)</sup> |
|-------------------------------|------|------|------|-----|-----|------|-----|-------|------------------|
| 5-060-030-1                   | 300  | 754  | 600  | 47  | 19  | 361  | 240 | DN15  | 13               |
| 5-060-030-2                   | 300  | 754  | 600  | 47  | 19  | 361  | 240 | DN20  | 15               |
| 5-060-030-3                   | 300  | 754  | 600  | 47  | 19  | 361  | 300 | DN20  | 17               |
| 5-080-040-1                   | 400  | 954  | 800  | 47  | 19  | 461  | 240 | DN20  | 19               |
| 5-080-040-2                   | 400  | 954  | 800  | 47  | 19  | 461  | 240 | DN25  | 22               |
| 5-080-040-3                   | 400  | 954  | 800  | 47  | 19  | 461  | 300 | DN25  | 26               |
| 5-100-040-0                   | 400  | 1225 | 1000 | 77  | 64  | 527  | 500 | DN32  | 52               |
| 5-100-040-1                   | 400  | 1295 | 1000 | 148 | 113 | 625  | 500 | DN32  | 58               |
| 5-100-040-2                   | 400  | 1295 | 1000 | 148 | 113 | 625  | 500 | DN32  | 60               |
| 5-100-040-3                   | 400  | 1295 | 1000 | 148 | 113 | 625  | 500 | DN32  | 64               |
| 5-120-040-4 <sup>2)</sup>     | 400  | 1495 | 1200 | 148 | 113 | 625  | 500 | DN40  | 82               |
| 5/6-120-050-0 <sup>3)</sup>   | 500  | 1425 | 1200 | 62  | 62  | 623  | 500 | DN32  | 70               |
| 5/6-120-050-1 <sup>3)</sup>   | 500  | 1595 | 1200 | 198 | 168 | 835  | 500 | DN40  | 80               |
| 5/6-120-050-2 <sup>3)</sup>   | 500  | 1595 | 1200 | 198 | 168 | 835  | 500 | DN50  | 90               |
| 5/6-120-050-3 <sup>3)</sup>   | 500  | 1595 | 1200 | 198 | 168 | 835  | 500 | DN50  | 100              |
| 5/6-140-050-4 <sup>2)3)</sup> | 500  | 1790 | 1400 | 195 | 168 | 835  | 500 | DN50  | 122              |
| 5/6-140-060-0 <sup>3)</sup>   | 600  | 1625 | 1400 | 62  | 62  | 723  | 500 | DN32  | 91               |
| 5/6-140-060-1 <sup>3)</sup>   | 600  | 1885 | 1400 | 243 | 170 | 940  | 500 | DN50  | 106              |
| 5/6-140-060-2 <sup>3)</sup>   | 600  | 1885 | 1400 | 243 | 170 | 940  | 500 | DN50  | 118              |
| 5/6-140-060-3 <sup>3)</sup>   | 600  | 1885 | 1400 | 243 | 170 | 940  | 500 | DN65  | 134              |
| 5/6-160-060-4 <sup>2)3)</sup> | 600  | 2085 | 1600 | 243 | 170 | 940  | 500 | DN65  | 154              |
| 5/6-160-080-1 <sup>3)</sup>   | 800  | 1794 | 1600 | 47  | 19  | 846  | 240 | DN40  | 66               |
| 5/6-160-080-2 <sup>3)</sup>   | 800  | 2180 | 1600 | 290 | 110 | 1020 | 500 | DN50  | 174              |
| 5/6-160-080-3 <sup>3)</sup>   | 800  | 2180 | 1600 | 290 | 110 | 1020 | 500 | DN50  | 223              |
| 5/6-160-080-4 <sup>3)</sup>   | 800  | 2180 | 1600 | 290 | 110 | 1020 | 500 | DN65  | 211              |
| 5/6-180-100-1 <sup>3)</sup>   | 1000 | 1994 | 1800 | 47  | 19  | 1051 | 240 | DN50  | 88               |
| 5/6-180-100-2 <sup>3)</sup>   | 1000 | 2500 | 1800 | 350 | 110 | 1220 | 500 | DN65  | 232              |
| 5/6-180-100-3 <sup>3)</sup>   | 1000 | 2500 | 1800 | 350 | 110 | 1220 | 500 | DN65  | 228              |
| 5/6-180-100-4 <sup>3)</sup>   | 1000 | 2500 | 1800 | 350 | 110 | 1220 | 500 | DN65  | 250              |
| 5/6-240-120-1 <sup>3)</sup>   | 1200 | 2644 | 2400 | 47  | 19  | 1256 | 240 | DN65  | 138              |
| 5/6-240-120-2 <sup>3)</sup>   | 1200 | 3210 | 2400 | 405 | 160 | 1520 | 500 | DN65  | 309              |
| 5/6-240-120-3 <sup>3)</sup>   | 1200 | 3210 | 2400 | 405 | 160 | 1520 | 500 | DN80  | 406              |
| 5/6-240-120-4 <sup>3)</sup>   | 1200 | 3210 | 2400 | 405 | 160 | 1520 | 500 | DN100 | 454              |

<sup>1)</sup> Excl. cooling agent

<sup>2)</sup> The connection dimensions of the air cooler are not the same as those of the GOLD unit.

Some form of transition piece must be installed between the air handling unit and the air cooler.

<sup>3)</sup> TBKA-5, coil without an outlet for an insertion-type sensor. TBKA-6, the coil is equipped with an outlet for an insertion-type sensor.

## Complements and Accessories

### Duct accessories

#### TBBD Mixing Section

The TBBD mixing section is available for the GOLD SD in sizes 004-080.

The mixing section can be used when it is desirable use recirculated air for completely or partially heating a building while it is unoccupied.

The TBBD consists of a spiral tubular T-piece (sizes 000-031 – 000-050) or a rectangular duct with three connections for slip-clamp jointing (sizes 060-030 – 180-100).

The spiral duct joints (sizes 000-031 – 000-050) in required quantity and the sets of slip clamps (sizes 060-030 – 180-100) respectively are included in the supply.

The dampers are always supplied with mounted damper actuator. These have modulated action.

The mixing section can be ordered with two or three dampers depending on its range of application. See the example on the next page.

For outdoor use, insulated duct accessories must be selected, see special section.

**Additional equipment required:** Supply air units should be provided with a downstream electric air heater or air heater for hot water.

**Work to be carried out at the building site:** Install the mixing section securing it to the air handling unit/duct  
Install dampers for the mixing section or duct  
Wire electrical connections to the GOLD unit's control equipment (separate power supply is not required)  
Install insulation conforming to local regulations



# Complements and Accessories

## Duct accessories, uninsulated

### Circular duct connections

#### Example 1, two dampers

The mixing section consists of two unmounted dampers, two joints and one spiral tubular T-piece. The connecting rod for the common damper motor is included in the supply.

#### Example 2, three dampers

As example 1 + one unmounted damper with its own damper motor, two joints and one spiral tubular T-piece.

### Rectangular duct connections

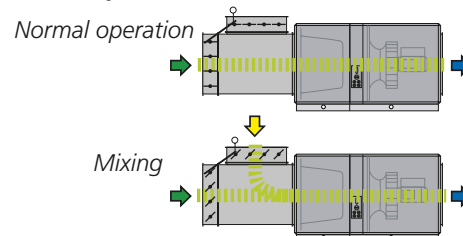
#### Example 1, two dampers

The mixing section consists of two unmounted dampers and one rectangular duct with three connections for slip-clamp jointing. The connecting rod for the common damper motor is included in the supply of sizes 060-030 – 120-050. Dampers in sizes 140-060 – 180-100 each have their own damper motor. The mixing section can be installed for connection on the right-hand or left-hand side.

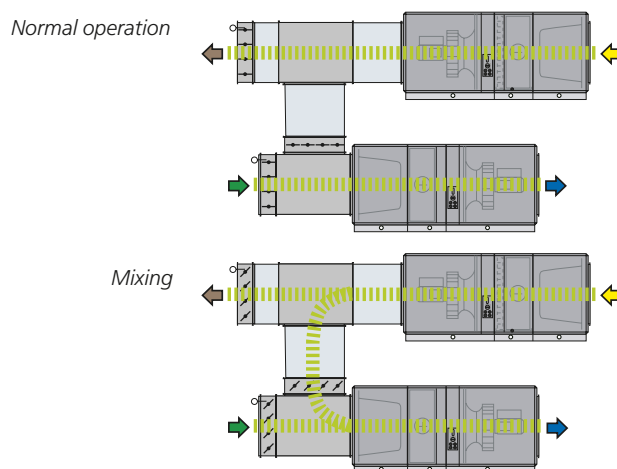
#### Example 2, three dampers

As example 1 + one unmounted damper with its own damper motor and one rectangular duct with three connections for slip-clamp jointing.

### Example 1 (two dampers)



### Example 2 (three dampers)



The items supplied from Swegon are shaded in grey.

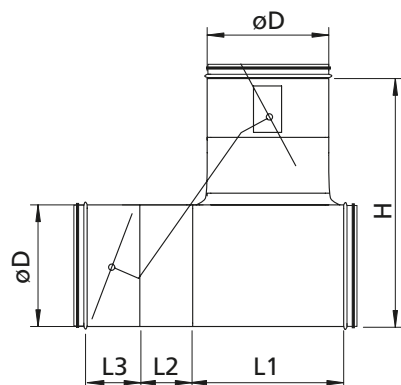


Outdoor air Extract air Supply air Exhaust air

## Complements and Accessories

### Duct accessories, uninsulated

#### Two dampers



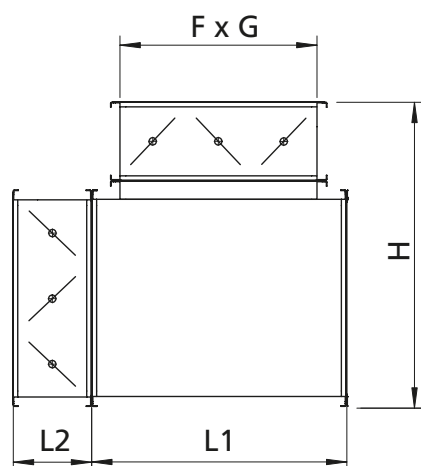
GOLD with standard end connection frame:  
 TBBD 000-031, matches GOLD, size 004/005  
 TBBD 000-040, matches GOLD, size 007/008  
 TBBD 000-050, matches GOLD, size 011/012

| TBBD    | L1  | L2  | L3  | H   | øD  |
|---------|-----|-----|-----|-----|-----|
| 000-031 | 363 | 140 | 140 | 620 | 315 |
| 000-040 | 510 | 180 | 210 | 825 | 400 |
| 000-050 | 552 | 180 | 210 | 930 | 500 |

#### Three dampers

The dimensions of the component parts supplied by Swegon can be read in the sketch to the left.

#### Two dampers



GOLD with standard end connection frame:  
 TBBD 100-040, matches GOLD, size 014/020  
 TBBD 120-050, matches GOLD, size 025/030  
 TBBD 140-060, matches GOLD, size 035/040  
 TBBD 160-080, matches GOLD, size 050/060  
 TBBD 180-100, matches GOLD, size 070/080

GOLD with full face connection frame (accessory TBXZ):  
 TBBD 060-030, matches GOLD, sizes 004, 005  
 TBBD 080-040, matches GOLD, sizes 007, 008  
 TBBD 100-040, matches GOLD, sizes 011, 012  
 TBBD 120-050, matches GOLD, sizes 014, 020  
 TBBD 140-060, matches GOLD, sizes 025, 030  
 TBBD 160-080, matches GOLD, sizes 035, 040  
 TBBD 180-100, matches GOLD, sizes 050, 060

| TBBD    | L1   | L2  | H    | F x G       |
|---------|------|-----|------|-------------|
| 060-030 | 420  | 220 | 570  | 300 x 600   |
| 080-040 | 520  | 220 | 670  | 400 x 800   |
| 100-040 | 520  | 220 | 670  | 400 x 1000  |
| 120-050 | 620  | 220 | 770  | 500 x 1200  |
| 140-060 | 720  | 220 | 870  | 600 x 1400  |
| 160-080 | 920  | 220 | 1070 | 800 x 1600  |
| 180-100 | 1120 | 220 | 1270 | 1000 x 1800 |

#### Three dampers

The dimensions of the component parts supplied by Swegon can be read in the sketch to the left.

## Complements and Accessories

### Duct accessories, uninsulated

#### TBFA Prefilter

The prefilter should be installed in the outdoor air duct and/or the extract air duct.

The prefilter is used in ventilation systems in which the extract air and/or the outdoor air is heavily polluted and it is desirable to prevent the fine filter located in the GOLD unit from becoming clogged after a short period of use.

For outdoor use, insulated duct accessories must be selected, see special section.

#### Technical data

The TBFA has an uninsulated casing made of galvanized sheet steel. Insulated Inspection door.

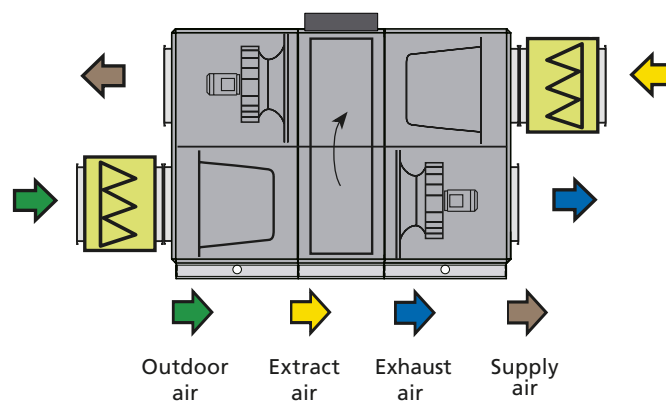
Filter of type woven aluminium filter or class G3 compact filter.

#### Extra accessories

The pressure sensor can be selected; alarm limit and current filter pressure can then be read in the hand-held micro terminal of the GOLD unit.

#### Installation

Provision for inspection and cleaning must be guaranteed. Install insulation conforming to local regulations.



TBFA 100-040, is compatible with GOLD sizes 014, 020

TBFA 120-050, is compatible with GOLD sizes 025, 030

TBFA 140-060, is compatible with GOLD sizes 035, 040

TBFA 160-080, is compatible with GOLD sizes 050, 060

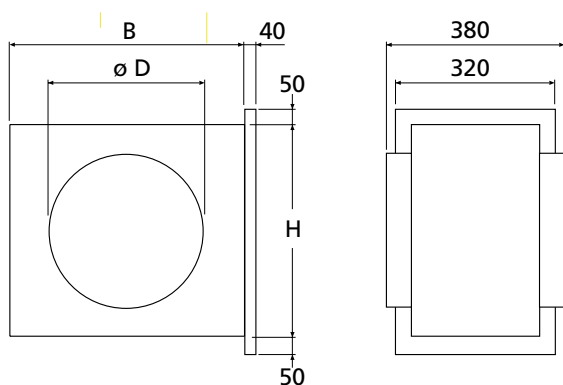
TBFA 180-100, is compatible with GOLD sizes 070, 080

TBFA 240-120, is compatible with GOLD sizes 070, 080

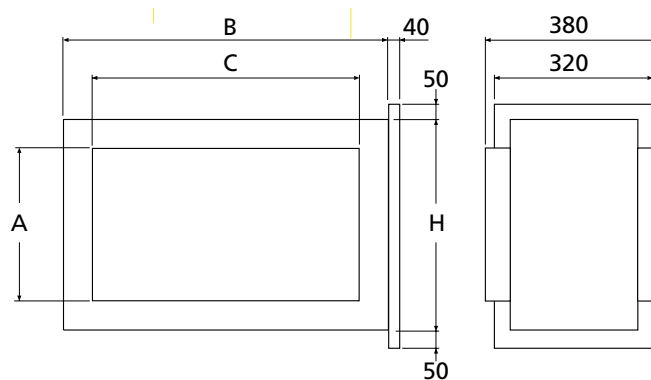
TBFA 000-031, is compatible with GOLD sizes 004, 005

TBFA 000-040, is compatible with GOLD size 007, 008

TBFA 000-050, is compatible with GOLD size 011, 012



| TBFA    | B   | D   | H   | kg |
|---------|-----|-----|-----|----|
| 000-031 | 500 | 315 | 500 | 18 |
| 000-040 | 600 | 400 | 600 | 22 |
| 000-050 | 900 | 500 | 600 | 24 |



| TBFA    | A    | B    | C    | H    | kg  |
|---------|------|------|------|------|-----|
| 100-040 | 400  | 1200 | 1000 | 600  | 26  |
| 120-050 | 500  | 1500 | 1200 | 600  | 36  |
| 140-060 | 600  | 1800 | 1400 | 900  | 48  |
| 160-080 | 800  | 2475 | 1600 | 1000 | 59  |
| 180-100 | 1000 | 2400 | 1800 | 1200 | 68  |
| 240-120 | 1200 | 3000 | 2400 | 1800 | 140 |

## Complements and Accessories

### Duct accessories, in insulated casing

#### Common for duct accessories in an insulated casing

The duct accessories are to be positioned outside the GOLD unit. The unique Wing+ fans in the GOLD air handling unit also make it possible to connect duct accessories directly to the duct connection of the GOLD air handling unit without pressure losses or non-uniform air distribution.

Duct accessories in an insulated casing must be used if the unit is installed outdoors.

Duct accessories for the GOLD are equipped with bolt joints and/or expansion-type locking devices for docking them to the air handling unit and/or other duct accessories (does not apply to type TBFK carbon filter sections).

Type METU connection frames are available as an accessories for the size 014 – 120 units.

One duct accessory can be mounted on top of another duct accessory.

Other particulars for sizing can be computed in the AHU Design air handling unit selection program.



## Complements and Accessories

### Duct accessories, in insulated casing

#### TCSA Damper section

TCSA dampers are used as shut-off dampers or forced air-flow dampers. Sizes 012 - 120 can also be used for other applications, such as outdoor air dampers for the ReCO<sub>2</sub> control function.

Shut-off dampers are normally used if the air handling unit is idle during some period, for example at night, or if an air heater for hot water without anti-frost burst protection is used.

To be installed for horizontal airflow.

Complete with damper actuator for 24 V. The actuator can be selected with spring return or on/off actuation. TCSA sizes 012 - 120 are also available with modulating type actuator with spring return.

#### Technical data

Insulated casing.

The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

Tightness class 3 to EN 1751.

#### Installation

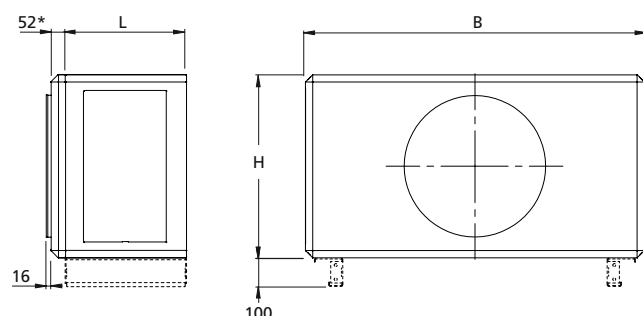
The damper section should be mounted directly against the air handling unit or insulated duct accessory.

Wire the control and power supply cables to the appropriate wiring terminal on the air handling unit.



## Complements and accessories

### Duct accessories, in insulated casing



Connection dimensions to duct:

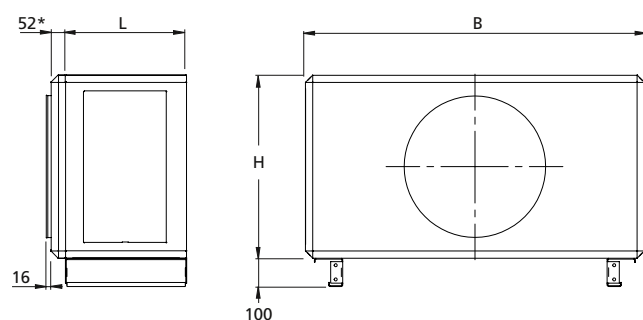
TCSA 005       $\varnothing 315$

TCSA 008       $\varnothing 400$

Base beam is optional on duct accessories in the lower duct. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCSA | B   | H     | L   | kg | End connection panel, if required<br>kg |
|------|-----|-------|-----|----|-----------------------------------------|
| -005 | 825 | 460   | 400 | 41 | 7                                       |
| -008 | 995 | 542,5 | 400 | 47 | 10                                      |



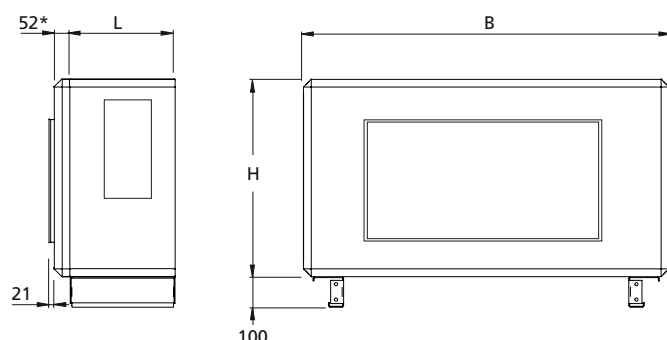
Connection dimensions to duct:

TCSA 012       $\varnothing 500$

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCSA | B    | H     | L   | kg | End connection panel, if required<br>kg |
|------|------|-------|-----|----|-----------------------------------------|
| -012 | 1199 | 647,5 | 400 | 60 | 13                                      |



Connection dimensions to duct:

TCSA 020      1000 x 400 mm

TCSA 030      1200 x 500 mm

TCSA 040      1400 x 600 mm

TCSA 060      1600 x 800 mm

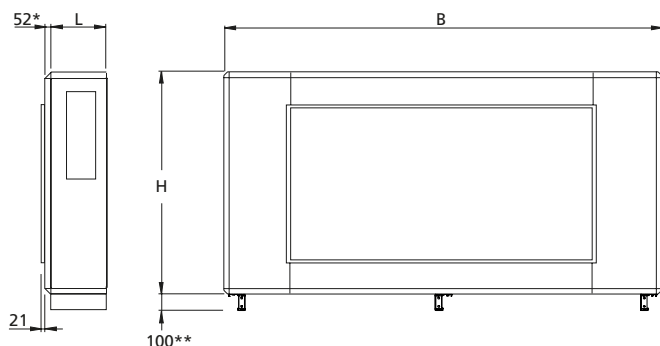
Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCSA | B    | H      | L   | kg  | End connection panel, if required<br>kg |
|------|------|--------|-----|-----|-----------------------------------------|
| -020 | 1400 | 775,5  | 400 | 74  | 19                                      |
| -030 | 1600 | 905,5  | 400 | 83  | 23                                      |
| -040 | 1990 | 1079,5 | 400 | 102 | 34                                      |
| -060 | 2318 | 1144   | 400 | 142 | 34                                      |

# Complements and Accessories

## Duct accessories, in insulated casing



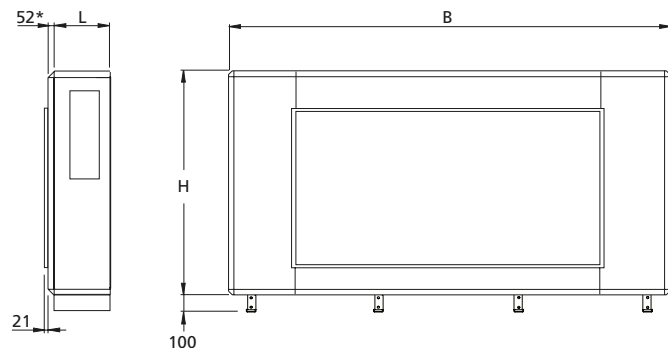
Connection dimensions to duct:  
TCSA 080 1800 x 1000 mm

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

\*\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit,  $h = 265$  mm.

| TCSA | B    | H    | L   | kg  | End connection panel, if required<br>kg |
|------|------|------|-----|-----|-----------------------------------------|
| -080 | 2637 | 1320 | 400 | 192 | 40                                      |



Connection dimensions to duct:  
TCSA 120 2400 x 1200 mm

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCSA | B    | H    | L   | kg  | End connection panel, if required<br>kg |
|------|------|------|-----|-----|-----------------------------------------|
| -120 | 3340 | 1620 | 500 | 337 | 59                                      |

## Complements and Accessories

### Duct accessories, in insulated casing

#### Spacer section, TCGA/ Inspection section, TCIA.

Spacer section TCGA/Inspection section TCIA are used when provision for spacing or inspection is required and are available in seven different lengths.

The TCIA inspection section is available in two variants, with inspection door the entire length of the section (sizes 005-120), or split cover panel/inspection door (sizes 005-040).

Drip tray available as an optional extra.

The spacer section/inspection section must be installed for horizontal airflow.

#### Technical data

Insulated casing.

The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

#### Installation

The spacer section/inspection section should be fitted directly to the air handling unit or other insulated duct accessory.

Provision for inspection and cleaning the spacer section must be guaranteed. The cover panel is easy to remove.



Spacer Section, TCGA

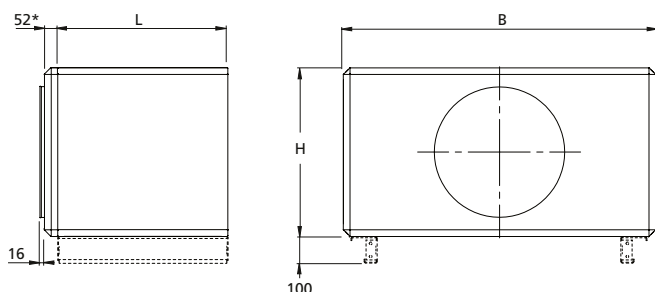


TCIA inspection section.  
Inspection door the entire length of the section.



TCIA inspection section.  
Split cover panel/inspection door.

#### Spacer Section, TCGA



Connection dimensions to duct:

TCGA 005      ø 315

TCGA 008      ø 400

Base beam is optional on duct accessories in the lower duct. Duct accessories in the upper duct are always delivered without base beam.

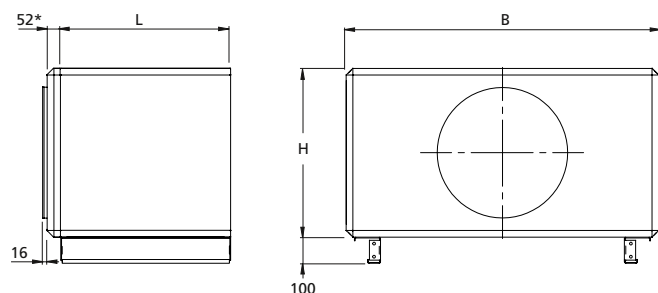
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCGA | B   | H     | L                                       | kg                               | End connection panel, if required<br>kg |
|------|-----|-------|-----------------------------------------|----------------------------------|-----------------------------------------|
| -005 | 825 | 460   | 400 / 475 / 565 / 625 / 720 / 850 / 975 | 28 / 33 / 39 / 43 / 50 / 59 / 67 | 7                                       |
| -008 | 995 | 542,5 | 400 / 475 / 565 / 625 / 720 / 850 / 975 | 33 / 39 / 46 / 50 / 58 / 68 / 78 | 10                                      |

# Complements and accessories

## Duct accessories, in insulated casing

### Spacer Section, TCGA

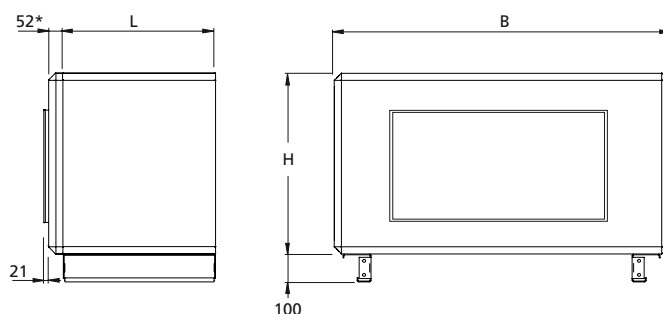


Connection dimensions to duct:  
TCGA 012       $\varnothing 500$

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCGA | B    | H     | L                                       | kg                               | End connection panel, if required<br>kg |
|------|------|-------|-----------------------------------------|----------------------------------|-----------------------------------------|
| -012 | 1199 | 647,5 | 400 / 475 / 565 / 625 / 720 / 850 / 975 | 39 / 46 / 54 / 60 / 69 / 81 / 92 | 13                                      |

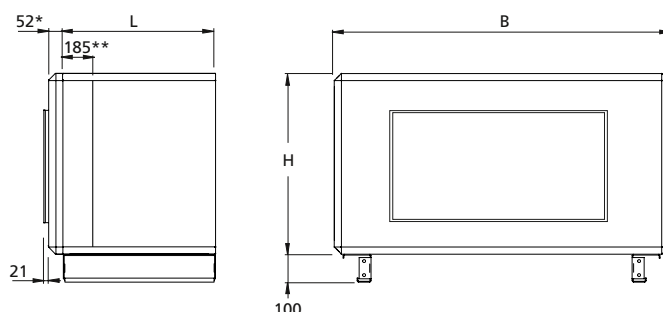


Connection dimensions to duct:  
TCGA 020      1000 x 400 mm

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCGA | B    | H     | L                                       | kg                                | End connection panel, if required<br>kg |
|------|------|-------|-----------------------------------------|-----------------------------------|-----------------------------------------|
| -020 | 1400 | 775,5 | 400 / 475 / 565 / 625 / 720 / 850 / 975 | 45 / 53 / 62 / 68 / 79 / 92 / 106 | 19                                      |



Connection dimensions to duct:  
TCGA 030      1200 x 500 mm  
TCGA 040      1400 x 600 mm  
TCGA 060      1600 x 800 mm

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

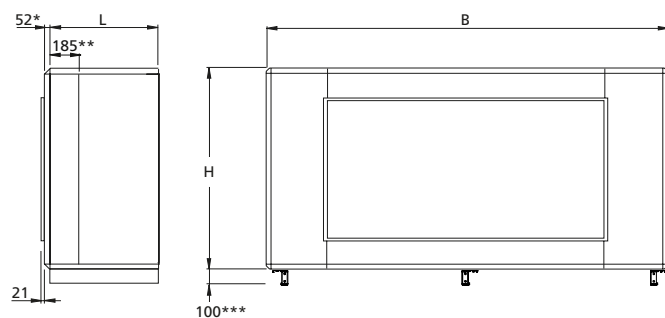
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

\*\* Not L = 400 and 475 mm

## Complements and accessories

### Duct accessories, in insulated casing

#### Spacer Section, TCGA



Connection dimensions to duct:  
TCGA 080 1800 x 1000 mm

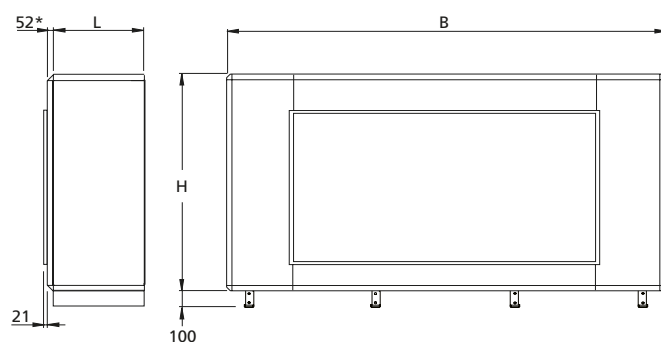
Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

\*\* Not L = 400 and 475 mm

\*\*\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit, h = 265 mm.

| TCGA | B    | H    | L                                       | kg                                     | End connection panel, if required<br>kg |
|------|------|------|-----------------------------------------|----------------------------------------|-----------------------------------------|
| -080 | 2637 | 1320 | 400 / 475 / 565 / 625 / 720 / 850 / 975 | 98 / 113 / 130 / 141 / 160 / 184 / 208 | 40                                      |



Connection dimensions to duct:  
TCGA 120 2400 x 1200 mm

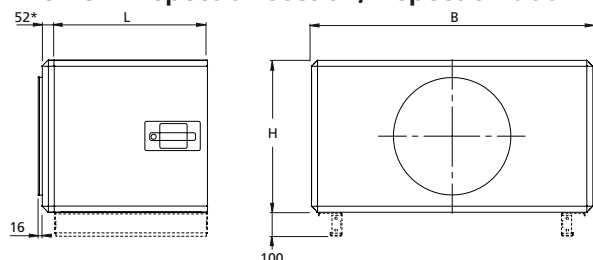
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCGA | B    | H    | L   | kg  | End connection panel, if required<br>kg |
|------|------|------|-----|-----|-----------------------------------------|
| -120 | 3340 | 1620 | 720 | 244 | 59                                      |

# Complements and accessories

## Duct accessories, in insulated casing

The TCIA inspection section, inspection door in the entire length of the section



Connection dimensions to duct:

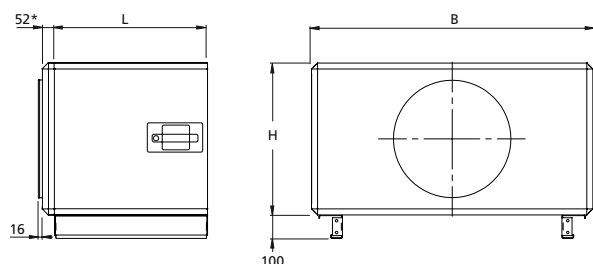
TCIA 005       $\varnothing$  315

TCIA 008       $\varnothing$  400

Base beam is optional on duct accessories in the lower duct. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCIA | B   | H     | L                                 | kg                          | End connection panel, if required<br>kg |
|------|-----|-------|-----------------------------------|-----------------------------|-----------------------------------------|
| -005 | 825 | 460   | 400 / 475 / 565 / 625 / 720 / 850 | 28 / 33 / 39 / 43 / 50 / 59 | 7                                       |
| -008 | 995 | 542,5 | 400 / 475 / 565 / 625 / 720 / 850 | 33 / 39 / 46 / 50 / 58 / 68 | 10                                      |



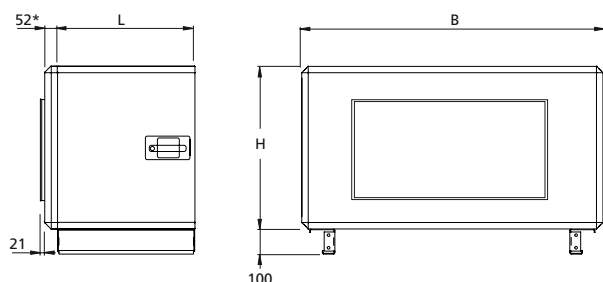
Connection dimensions to duct:

TCIA 012       $\varnothing$  500

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCIA | B    | H     | L                                 | kg                          | End connection panel, if required<br>kg |
|------|------|-------|-----------------------------------|-----------------------------|-----------------------------------------|
| -012 | 1199 | 647,5 | 400 / 475 / 565 / 625 / 720 / 850 | 39 / 46 / 54 / 60 / 69 / 81 | 13                                      |



Connection dimensions to duct:

TCIA 020      1000 x 400 mm

TCIA 030      1200 x 500 mm

TCIA 040      1400 x 600 mm

TCIA 060      1600 x 800 mm

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

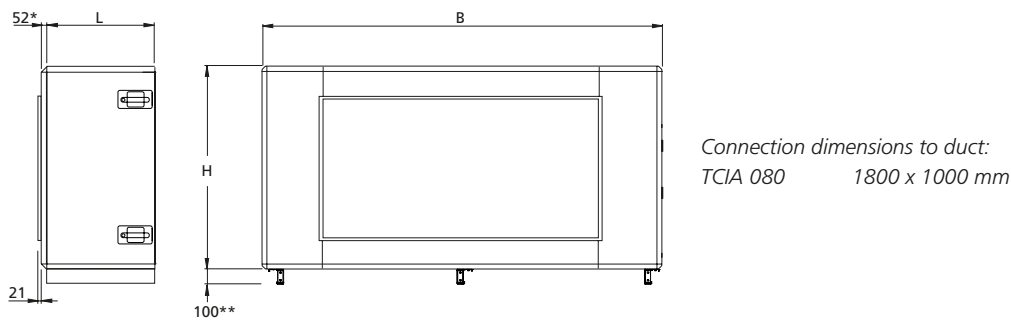
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCIA | B    | H      | L                                 | kg                              | End connection panel, if required<br>kg |
|------|------|--------|-----------------------------------|---------------------------------|-----------------------------------------|
| -020 | 1400 | 775,5  | 400 / 475 / 565 / 625 / 720 / 850 | 45 / 53 / 62 / 68 / 79 / 92     | 19                                      |
| -030 | 1600 | 905,5  | 400 / 475 / 565 / 625 / 720 / 850 | 49 / 58 / 68 / 75 / 87 / 102    | 23                                      |
| -040 | 1990 | 1079,5 | 400 / 475 / 565 / 625 / 720 / 850 | 61 / 72 / 85 / 94 / 107 / 127   | 34                                      |
| -060 | 2318 | 1144   | 400 / 475 / 565 / 625 / 720 / 850 | 81 / 93 / 108 / 117 / 133 / 154 | 34                                      |

# Complements and accessories

## Duct accessories, in insulated casing

The TCIA inspection section, inspection door in the entire length of the section

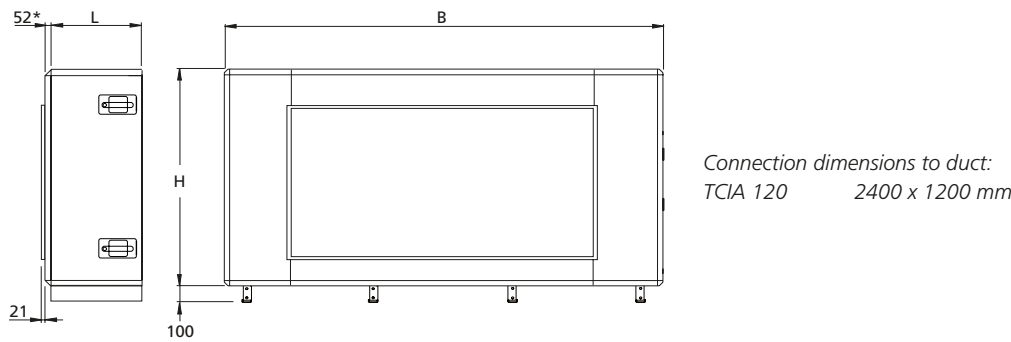


Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

\*\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit, h = 265 mm.

| TCIA | B    | H    | L                                 | kg                               | End connection panel, if required<br>kg |
|------|------|------|-----------------------------------|----------------------------------|-----------------------------------------|
| -080 | 2637 | 1320 | 400 / 475 / 565 / 625 / 720 / 850 | 98 / 113 / 130 / 141 / 160 / 184 | 40                                      |



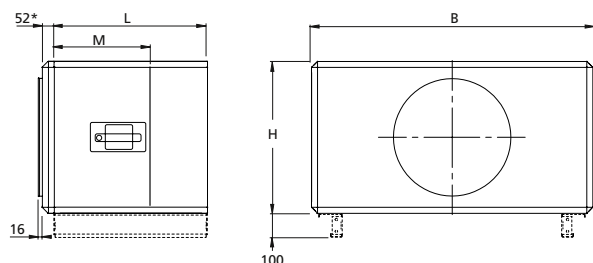
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCIA | B    | H    | L   | kg  | End connection panel, if required<br>kg |
|------|------|------|-----|-----|-----------------------------------------|
| -120 | 3340 | 1620 | 500 | 200 | 59                                      |
| -120 | 3340 | 1620 | 720 | 247 | 59                                      |

# Complements and accessories

## Duct accessories, in insulated casing

### TCIA inspection section, split cover panel/inspection door



Connection dimensions to duct:

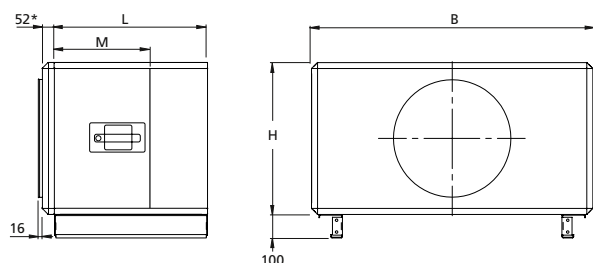
TCIA 005       $\varnothing 315$

TCIA 008       $\varnothing 400$

Base beam is optional on duct accessories in the lower duct. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCIA | B   | H     | L               | M               | kg           | End connection panel, if required<br>kg |
|------|-----|-------|-----------------|-----------------|--------------|-----------------------------------------|
| -005 | 825 | 460   | 625 / 720 / 850 | 400 / 475 / 565 | 43 / 50 / 59 | 7                                       |
| -008 | 995 | 542,5 | 625 / 720 / 850 | 400 / 475 / 565 | 50 / 58 / 68 | 10                                      |



Connection dimensions to duct:

TCIA 012       $\varnothing 500$

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

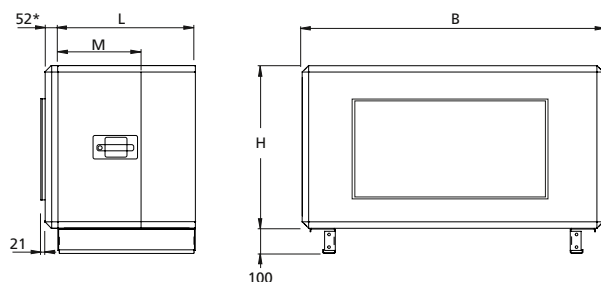
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCIA | B    | H     | L               | M               | kg           | End connection panel, if required<br>kg |
|------|------|-------|-----------------|-----------------|--------------|-----------------------------------------|
| -012 | 1199 | 647,5 | 625 / 720 / 850 | 400 / 475 / 565 | 60 / 69 / 81 | 13                                      |

## Complements and accessories

### Duct accessories, in insulated casing

#### TCIA inspection section, split cover panel/inspection door



Connection dimensions to duct:

TCIA 020 1000 x 400 mm

TCIA 030 1200 x 500 mm

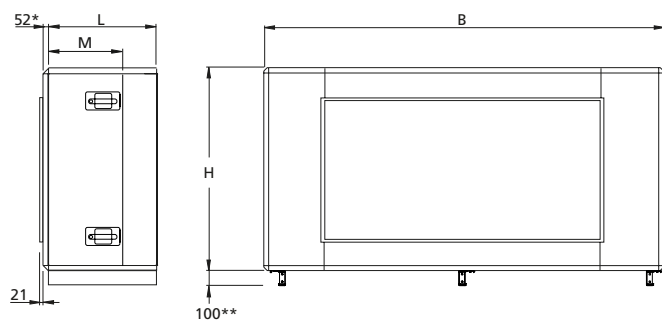
TCIA 040 1400 x 600 mm

TCIA 060 1600 x 800 mm

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCIA | B    | H      | L               | M               | kg              | End connection panel, if required<br>kg |
|------|------|--------|-----------------|-----------------|-----------------|-----------------------------------------|
| -020 | 1400 | 775,5  | 625 / 720 / 850 | 400 / 475 / 565 | 68 / 79 / 92    | 19                                      |
| -030 | 1600 | 905,5  | 625 / 720 / 850 | 400 / 475 / 565 | 75 / 87 / 102   | 23                                      |
| -040 | 1990 | 1079,5 | 625 / 720 / 850 | 400 / 475 / 565 | 94 / 107 / 127  | 34                                      |
| -060 | 2318 | 1144   | 625 / 720 / 850 | 400 / 475 / 565 | 117 / 133 / 154 | 34                                      |



Connection dimensions to duct:

TCIA 080 1800 x 1000 mm

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

\*\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit, h = 265 mm.

| TCIA | B    | H    | L               | M               | kg              | End connection panel, if required<br>kg |
|------|------|------|-----------------|-----------------|-----------------|-----------------------------------------|
| -080 | 2637 | 1320 | 625 / 720 / 850 | 400 / 475 / 565 | 141 / 160 / 184 | 40                                      |

## Complements and accessories

### Duct accessories, in insulated casing

#### Spacer Section, TCGA with upward, downward or rear duct connection

A spacer section with upward, downward or rear duct connection can be used if required, see the basic layout diagram.

The upward and rear duct connections are equipped with a connection frame for a slip-clamp connection. Downward duct connections are equipped with a connection frame with predrilled holes for screw connection.

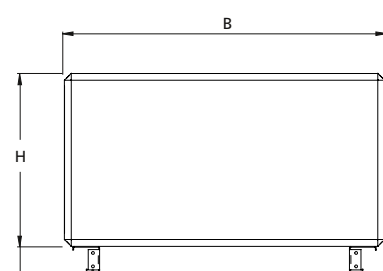
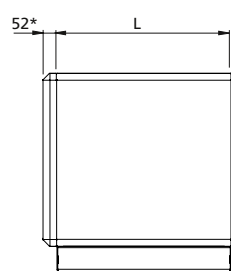
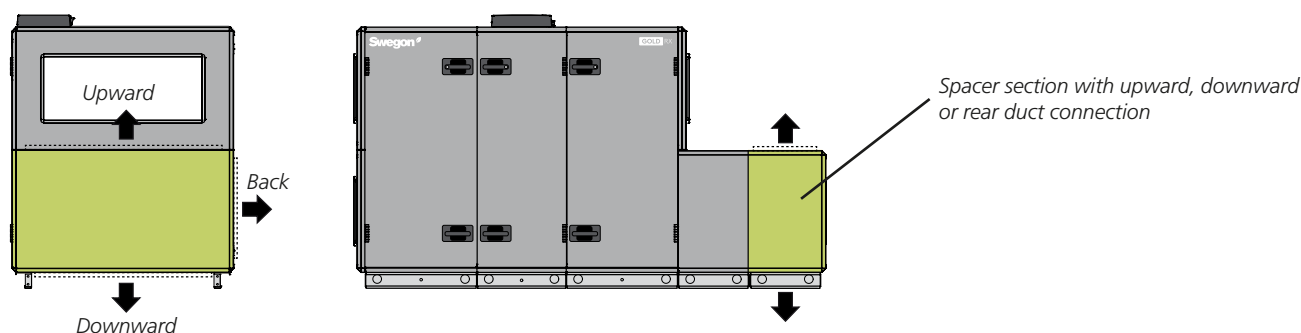
The cover panel on the inspection side is easily removed.

For reasons of safety, the duct connection is fitted with a grille plate.

Spacer sections are available for GOLD RX/PX/CX/SD sizes 004-040.

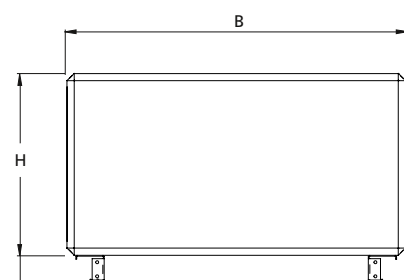
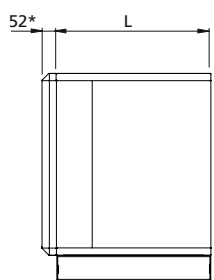


#### Basic layout diagram



100 Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.

| TCGA | B    | H     | L   | kg |
|------|------|-------|-----|----|
| 005  | 825  | 460   | 565 | 39 |
| 008  | 995  | 542.5 | 625 | 50 |
| 012  | 1199 | 647.5 | 625 | 60 |
| 020  | 1400 | 775.5 | 625 | 68 |



100 Placement/design of the base beam, see the equivalent size of the GOLD air handling unit.

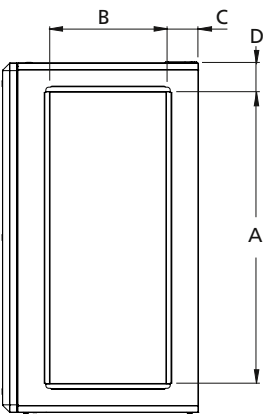
| TCGA | B    | H      | L   | kg  |
|------|------|--------|-----|-----|
| 030  | 1600 | 905.5  | 720 | 87  |
| 040  | 1990 | 1079.5 | 850 | 127 |

# Complements and accessories

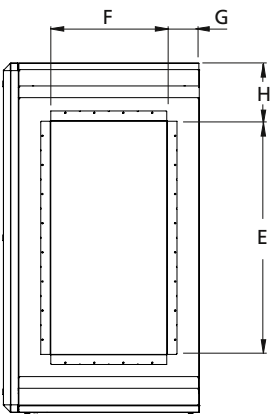
## Duct accessories, in insulated casing

### Duct connection size

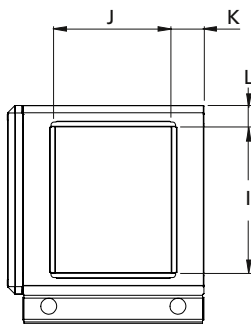
Upward



Downward



Back



| TCGA | A    | B   | C   | D   | E    | F   | G   | H   | I   | J   | K   | L   |
|------|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| 005  | 600  | 300 | 132 | 112 | 500  | 300 | 132 | 162 | 300 | 300 | 132 | 80  |
| 008  | 800  | 400 | 112 | 98  | 600  | 400 | 112 | 198 | 400 | 300 | 162 | 71  |
| 012  | 1000 | 400 | 112 | 100 | 800  | 400 | 112 | 200 | 500 | 400 | 112 | 74  |
| 020  | 1000 | 400 | 112 | 200 | 1000 | 400 | 112 | 200 | 600 | 400 | 112 | 88  |
| 030  | 1200 | 500 | 110 | 200 | 1200 | 500 | 110 | 200 | 600 | 500 | 110 | 153 |
| 040  | 1400 | 600 | 125 | 295 | 1400 | 600 | 125 | 295 | 800 | 600 | 125 | 140 |

## Complements and Accessories

### Duct accessories, in insulated casing

#### TCDA Unit sound attenuator

The TCDA sound attenuator is a rectangular sound attenuator designed for mounting directly against the air handling unit.

To be installed for horizontal airflow.

#### Technical data

Insulated casing.

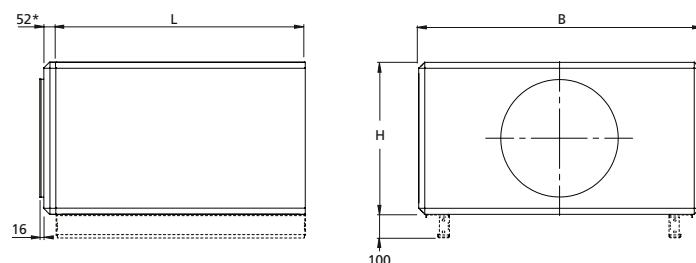
The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

Sound absorption material of type Cleanolon-AL. Cleanolon-AL consists of mineral wool covered with perforated aluminium foil. Type approved with regard to suitability for cleaning, emissions and fibre entrainment. The material conforms to the provisions of Surface Layer Class 1 (the highest class).



#### Installation

The sound attenuator should be mounted directly against the air handling unit or insulated duct accessory. Provision for inspection and cleaning must be guaranteed. The cover panel is easy to remove.



Connection dimensions to duct:

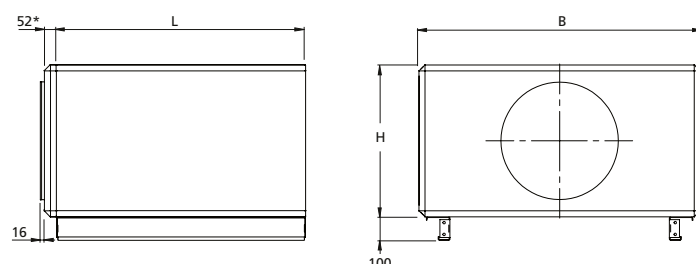
TCDA 005       $\varnothing 315$

TCDA 008       $\varnothing 400$

Base beam is optional on duct accessories in the lower duct. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCDA | B   | H     | L   | kg | End connection panel, if required<br>kg |
|------|-----|-------|-----|----|-----------------------------------------|
| -005 | 825 | 460   | 975 | 75 | 7                                       |
| -008 | 995 | 542,5 | 975 | 89 | 10                                      |



Connection dimensions to duct:

TCDA 012       $\varnothing 500$

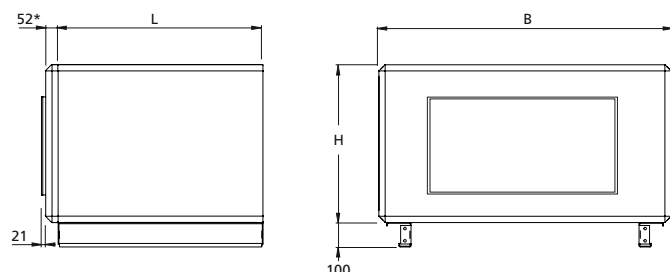
Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCDA | B    | H     | L   | kg  | End connection panel, if required<br>kg |
|------|------|-------|-----|-----|-----------------------------------------|
| -012 | 1199 | 647,5 | 975 | 106 | 13                                      |

## Complements and accessories

### Duct accessories, in insulated casing



Connection dimensions to duct:

TCDA 020 1000 x 400 mm

TCDA 030 1200 x 500 mm

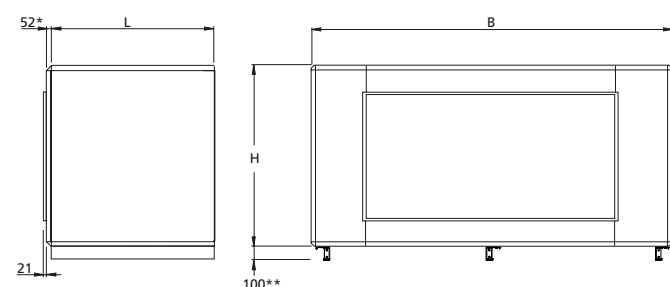
TCDA 040 1400 x 600 mm

TCDA 060 1600 x 800 mm

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCDA | B    | H      | L   | kg  | End connection panel, if required<br>kg |
|------|------|--------|-----|-----|-----------------------------------------|
| -020 | 1400 | 775,5  | 975 | 130 | 19                                      |
| -030 | 1600 | 905,5  | 975 | 154 | 23                                      |
| -040 | 1990 | 1079,5 | 975 | 199 | 34                                      |
| -060 | 2318 | 1144   | 975 | 234 | 34                                      |



Connection dimensions to duct:

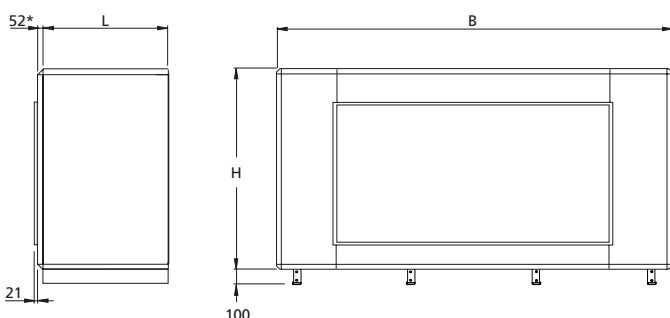
TCDA 080 1800 x 1000 mm

Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

\*\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit,  $h = 265$  mm.

| TCDA | B    | H    | L   | kg  | End connection panel, if required<br>kg |
|------|------|------|-----|-----|-----------------------------------------|
| -080 | 2637 | 1320 | 975 | 295 | 40                                      |



Connection dimensions to duct:

TCDA 120 2400 x 1200 mm

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCDA | B    | H    | L    | kg  | End connection panel, if required<br>kg |
|------|------|------|------|-----|-----------------------------------------|
| -120 | 3340 | 1620 | 1070 | 452 | 59                                      |

## Complements and Accessories

### Duct accessories, in insulated casing

#### TCLA Air heater, hot water

The TCLA air heater is used for reheating the supply air. The heater uses hot water as the heating medium.

In many applications it is possible to omit the air heater for reheat if the air handling unit control system is operated in the temperature regulation mode according to the ERS model and when the efficient rotary heat exchanger is in use.

To be installed for horizontal airflow.

#### Technical data

Insulated casing.

The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

Finned-tube heat exchangers fabricated of copper tubes and profiled aluminium fins. The headers and the pipe-work to the water connections are made of copper. The male threaded pipe connections are made of brass.

The TCLA air heater is available in three capacity variants. Capacity variant 1 provides the lowest capacity and capacity variant 3 provides the highest capacity.

All the air heaters are equipped with individual plugs for venting and drainage. A separate connection is provided for an anti-frost monitor sensor.

#### Valve set

The TBVL valve set with 2(3)-way valve, actuator, anti-frost protection sensor and connection cable with quick-fit connector can be ordered. If you use a valve of your own, you have the option of instead selecting a set of electrical connection components. This set contains a connection cable with quick-fit connector, resistor and insertion or strap-on sensor.

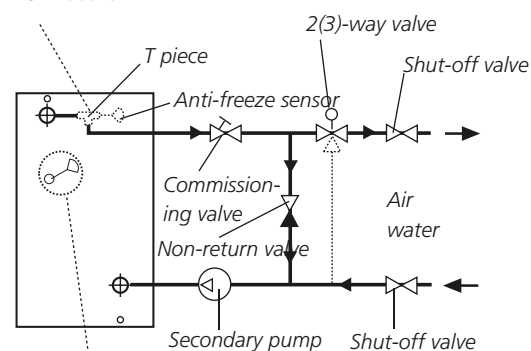
#### Extra accessories

A circulation pump is used for guaranteeing the frost guard function, if air heaters without anti-frost burst protection are used. Supplied with T coupling, non-return valve and adjustment valve. The automatic pump control system is integrated into the control equipment of the GOLD unit.



#### Basic Installation Diagram

Applicable to  
TCLA 005-012



Anti-freeze monitor sensor. Applicable to sizes 014-120

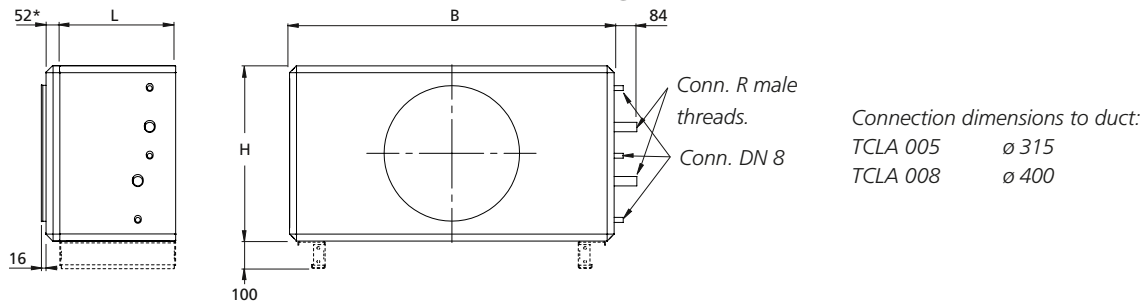
1) The anti-frost protection sensor for the size 005-012 TCLA should be installed in the T-piece on the return pipework and for the size 014-120 TCLA in the connection on the air heater.

#### Installation

The air heater should be mounted directly against the air handling unit or insulated duct accessory. Provision for inspection and cleaning must be guaranteed. Electrical connection.

# Complements and accessories

## Duct accessories, in insulated casing

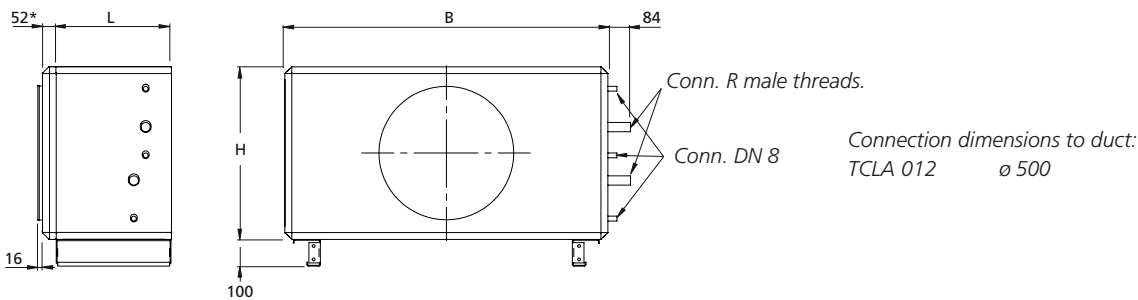


Base beam is optional on duct accessories in the lower duct. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLA | B   | H     | L   | Cap. variant 1 |                  | Cap. variant 2 |                  | Cap. variant 3 |                  | End connection panel, if required<br>kg |
|------|-----|-------|-----|----------------|------------------|----------------|------------------|----------------|------------------|-----------------------------------------|
|      |     |       |     | R              | kg <sup>1)</sup> | R              | kg <sup>1)</sup> | R              | kg <sup>1)</sup> |                                         |
| -005 | 825 | 460   | 400 | DN15           | 33               | DN15           | 34               | DN20           | 36               | 7                                       |
| -008 | 995 | 542,5 | 400 | DN15           | 41               | DN20           | 43               | DN20           | 45               | 10                                      |

<sup>1)</sup> Not filled with water.

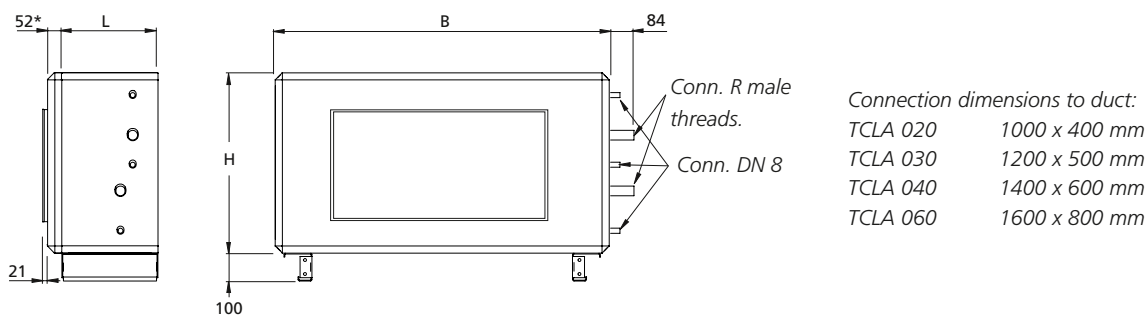


Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLA | B    | H     | L   | Cap. variant 1 |                  | Cap. variant 2 |                  | Cap. variant 3 |                  | End connection panel, if required<br>kg |
|------|------|-------|-----|----------------|------------------|----------------|------------------|----------------|------------------|-----------------------------------------|
|      |      |       |     | R              | kg <sup>1)</sup> | R              | kg <sup>1)</sup> | R              | kg <sup>1)</sup> |                                         |
| -012 | 1199 | 647,5 | 400 | DN20           | 50               | DN20           | 53               | DN25           | 56               | 13                                      |

<sup>1)</sup> Not filled with water.



Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

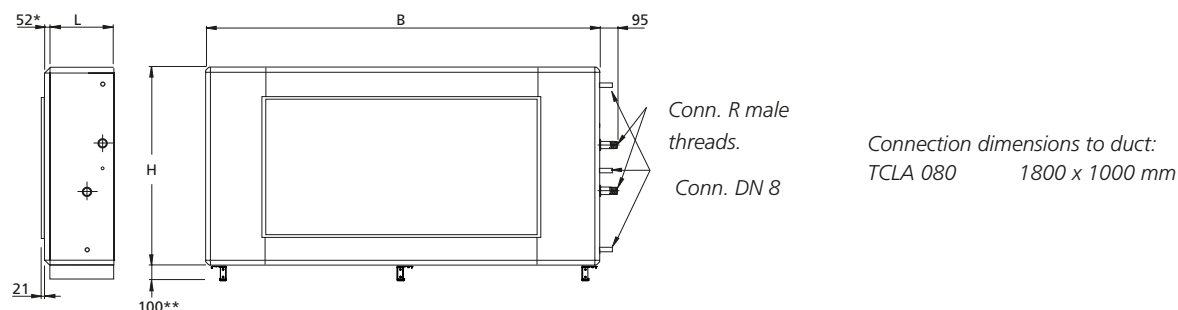
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLA | B    | H      | L   | Cap. variant 1 |                  |                  | Cap. variant 2 |                  |                  | Cap. variant 3 |                  |                  | End connection panel, if required<br>kg |
|------|------|--------|-----|----------------|------------------|------------------|----------------|------------------|------------------|----------------|------------------|------------------|-----------------------------------------|
|      |      |        |     | R              | kg <sup>1)</sup> | kg <sup>2)</sup> | R              | kg <sup>1)</sup> | kg <sup>2)</sup> | R              | kg <sup>1)</sup> | kg <sup>2)</sup> |                                         |
| -020 | 1400 | 775,5  | 400 | DN20           | 60               | -                | DN25           | 65               | -                | DN25           | 70               | -                | 19                                      |
| -030 | 1600 | 905,5  | 400 | DN25           | 70               | -                | DN25           | 78               | -                | DN32           | 86               | -                | 23                                      |
| -040 | 1990 | 1079,5 | 400 | DN32           | 89               | -                | DN40           | 100              | -                | DN40           | 114              | -                | 34                                      |
| -060 | 2318 | 1144   | 565 | DN32           | 150              | 112              | DN50           | 161              | 112              | DN50           | 175              | 112              | 34                                      |

<sup>1)</sup> Not filled with water.

# Complements and accessories

## Duct accessories, in insulated casing



Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

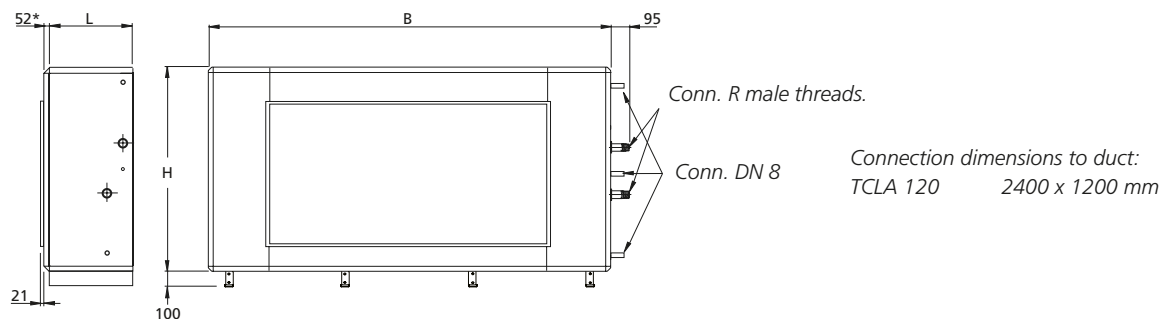
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

\*\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit,  $h = 265$  mm.

| TCLA | B    | H    | L   | Capacity variant 1 |                  |                  | Capacity variant 2 |                  |                  | Capacity variant 3 |                  |                  | End connection panel, if required<br>kg |
|------|------|------|-----|--------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|-----------------------------------------|
|      |      |      |     | R                  | kg <sup>1)</sup> | kg <sup>2)</sup> | R                  | kg <sup>1)</sup> | kg <sup>2)</sup> | R                  | kg <sup>1)</sup> | kg <sup>2)</sup> |                                         |
| -080 | 2637 | 1320 | 565 | DN50               | 181              | 132              | DN65               | 197              | 132              | DN65               | 217              | 132              | 40                                      |

<sup>1)</sup> Including casing, not filled with water.

<sup>2)</sup> Casing only.



\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLA | B    | H    | L   | Capacity variant 1 |                  |                  | Capacity variant 2 |                  |                  | Capacity variant 3 |                  |                  | End connection panel, if required<br>kg |
|------|------|------|-----|--------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|-----------------------------------------|
|      |      |      |     | R                  | kg <sup>1)</sup> | kg <sup>2)</sup> | R                  | kg <sup>1)</sup> | kg <sup>2)</sup> | R                  | kg <sup>1)</sup> | kg <sup>2)</sup> |                                         |
| -120 | 3340 | 1620 | 720 | DN50               | 339              | 256              | DN65               | 384              | 256              | DN65               | 429              | 256              | 59                                      |

<sup>1)</sup> Including casing, not filled with water.

<sup>2)</sup> Casing only.

## Complements and Accessories

### Duct accessories, in insulated casing

#### TCLF Air heater, hot water

The TCLF air heater is used for preheating the supply air. The heater uses hot water as the heating medium. Install the TCLF against the outdoor air duct. The air heater is designed for clean air, Swegon therefore recommends that pre-filters are installed before the air heater (seen in the direction of air).

When it is cold outside and the humidity is high, preheating the incoming outdoor air will prevent condensation in the air filters. The function can also be utilised when it is extremely cold outdoors and it is desirable to heat the air up to -20°C, for instance.

In combination with the counterflow heat exchanger, it can also be of interest to preheat the air to be spared having to let it bypass the heat exchanger.

To be installed for horizontal airflow.

#### Technical data

Insulated casing.

The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

Finned-tube heat exchangers fabricated of copper tubes and profiled aluminium fins. Fin pitch: 4.0 mm. The headers and the pipework to the water connections are made of copper. The male threaded pipe connections are made of brass.

#### Valve set

The TBVL valve set with 2(3)-way valve, valve actuator, freeze protection sensor and connection cable with quick-fit connector can be ordered. If you use a valve of your own, you can instead select a set of electrical connection components. This set contains a connection cable with quick-fit connector, resistor and insertion type or strap-on sensor.

#### Extra accessories

Control system, including temperature sensor for duct and IQlogic<sup>+</sup> with a 0.25 metre long cable, with or without frost guard sensor.

A circulation pump is used for guaranteeing the frost guard function, if air heaters without anti-frost burst protection are used. Supplied with T coupling, non-return valve and adjustment valve. The automatic pump control system is integrated into the control equipment of the GOLD unit.

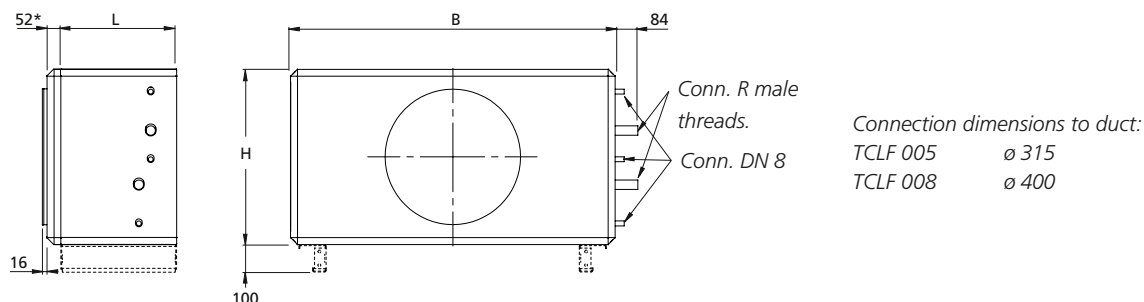


#### Installation

The air heater should be mounted directly against the air handling unit or insulated duct accessory. Provision for inspection and cleaning must be guaranteed. Electrical connection.

# Complements and accessories

## Duct accessories, in insulated casing

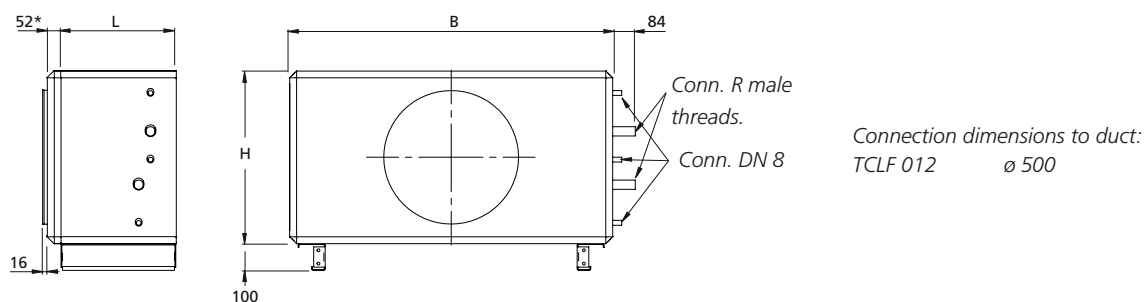


Base beam is optional on duct accessories in the lower duct. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLF | B   | H     | L   | R    | kg <sup>1)</sup> | End connection panel, if required<br>kg |
|------|-----|-------|-----|------|------------------|-----------------------------------------|
| -005 | 825 | 460   | 400 | DN15 | 33               | 7                                       |
| -008 | 995 | 542,5 | 400 | DN15 | 40               | 10                                      |

<sup>1)</sup> Not filled with water.

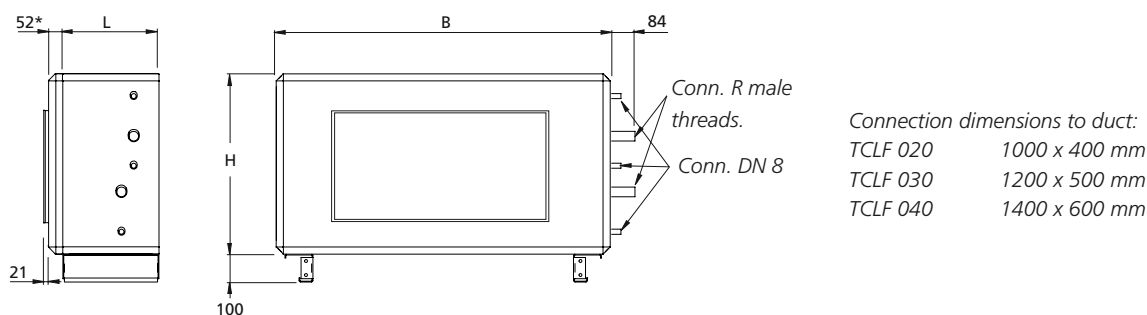


Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLF | B    | H     | L   | R    | kg <sup>1)</sup> | End connection panel, if required<br>kg |
|------|------|-------|-----|------|------------------|-----------------------------------------|
| -012 | 1199 | 647,5 | 400 | DN20 | 49               | 13                                      |

<sup>1)</sup> Not filled with water.



Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLF | B    | H      | L   | R    | kg <sup>1)</sup> | End connection panel, if required<br>kg |
|------|------|--------|-----|------|------------------|-----------------------------------------|
| -020 | 1400 | 775,5  | 400 | DN20 | 58               | 19                                      |
| -030 | 1600 | 905,5  | 400 | DN20 | 65               | 23                                      |
| -040 | 1990 | 1079,5 | 400 | DN20 | 76               | 34                                      |

<sup>1)</sup> Not filled with water.

## Complements and Accessories

### Duct accessories, in insulated casing

#### TCLE-02 Electric air heater

Air heater TCLE is used for reheating of the supply air or for certain preheating needs of outdoor air. The air heater is designed for clean air, Swegon therefore recommends that pre-filters are installed before the air heater (seen in the direction of air) when the air heater is used for pre-heating of the outdoor air.

In many applications it is possible to omit the air heater for reheat if the air handling unit control system is operated in the temperature regulation mode according to the ERS model and when the efficient rotary heat exchanger is in use.

To be installed for horizontal airflow.

The integrated thyristor is controlled via signals from the GOLD air handling unit. The four, five or six series-coupled overheating protections and control signals are connected by means of a quick connector to the GOLD air handling unit.

#### Technical data

Insulated casing.

The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

The TCLE air heater is available in several capacity variants.

The electrical equipment conforms to the provisions of Degree of Protection IP44.

The air heater is approved for operating temperatures, in the surroundings and the air stream, from -25°C to +40°C.

#### Installation

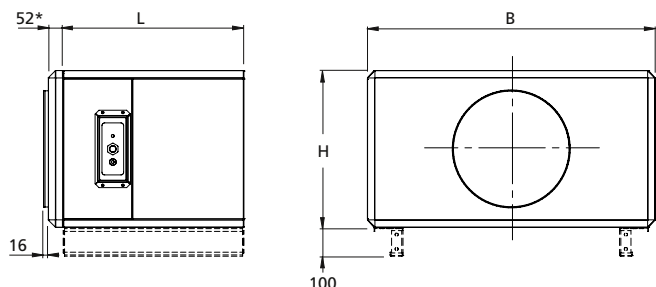
The air heater should be mounted directly against the air handling unit or insulated duct accessory. The space necessary for obtaining a uniform air stream is provided inside the TCLE. Therefore other duct accessories can be fitted downstream of the TCLE without risk of overheating.

Electrical connection. **Power must be supplied directly from the electrical distribution box.**



## Complements and accessories

### Duct accessories, in insulated casing



Connection dimensions to duct:

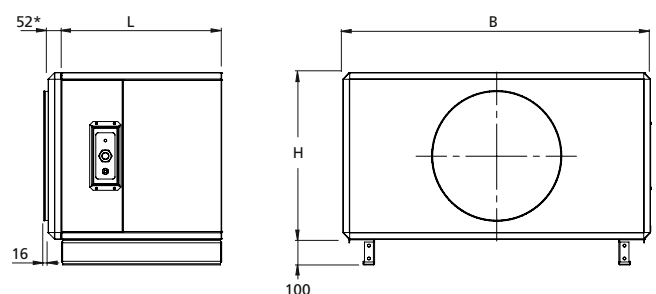
TCLE 005       $\varnothing$  315

TCLE 008       $\varnothing$  400

Base beam is optional on duct accessories in the lower duct. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLE | B   | H     | L   | kg      | End connection panel, if required<br>kg |
|------|-----|-------|-----|---------|-----------------------------------------|
| -005 | 825 | 460   | 625 | 55-58   | 7                                       |
| -008 | 995 | 542.5 | 625 | 66-72,5 | 10                                      |



Connection dimensions to duct:

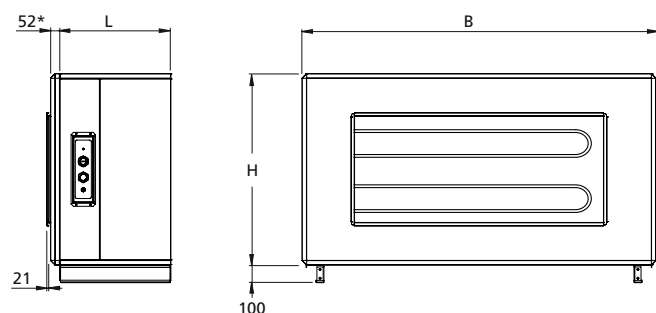
TCLE 012       $\varnothing$  500

Duct accessories in the lower duct are always delivered with mounted base beam.

Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLE | B    | H     | L   | kg    | End connection panel, if required<br>kg |
|------|------|-------|-----|-------|-----------------------------------------|
| -012 | 1199 | 647.5 | 625 | 80-95 | 13                                      |



Connection dimensions to duct:

TCLE 020      1000 x 400 mm

TCLE 030      1200 x 500 mm

TCLE 040      1400 x 600 mm

TCLE 060      1600 x 800 mm

Duct accessories in the lower duct are always delivered with mounted base beam.

Duct accessories in the upper duct are always delivered without base beam.

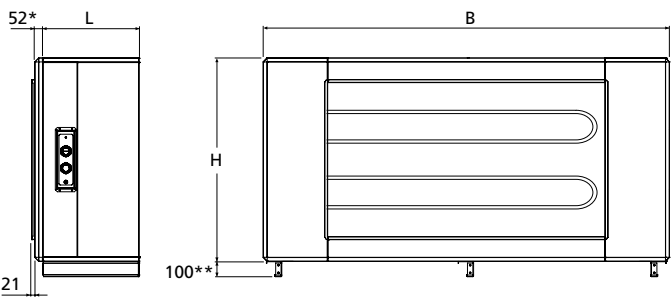
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLE | B    | H      | L   | kg        | kg <sup>1)</sup> | End connection panel, if required<br>kg |
|------|------|--------|-----|-----------|------------------|-----------------------------------------|
| -020 | 1400 | 775,5  | 625 | 93-115,5  | -                | 19                                      |
| -030 | 1600 | 905.5  | 625 | 109-130,5 | -                | 23                                      |
| -040 | 1990 | 1079.5 | 625 | 131-163,5 | -                | 34                                      |
| -060 | 2318 | 1144   | 625 | 175-213   | 121              | 34                                      |

<sup>1)</sup> Casing only.

# Complements and accessories

## Duct accessories, in insulated casing

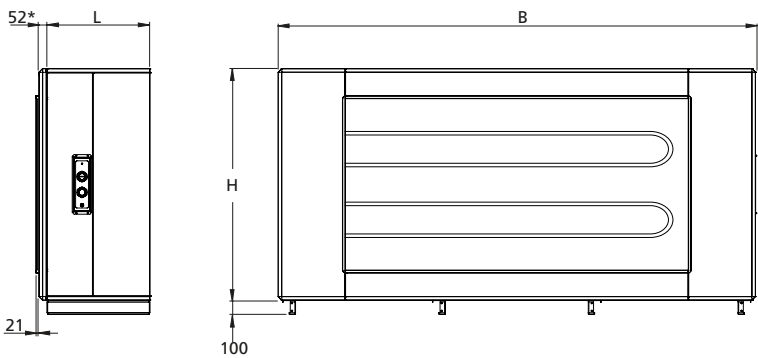


Connection dimensions to duct:  
TCLE 080      1800 x 1000 mm

Duct accessories in the lower duct are always delivered with mounted base beam.  
Duct accessories in the upper duct are always delivered without base beam.  
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.  
\*\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit, h = 265 mm.

| TCLE | B    | H    | L   | kg      | kg <sup>1)</sup> | End connection panel, if required<br>kg |
|------|------|------|-----|---------|------------------|-----------------------------------------|
| -080 | 2637 | 1320 | 625 | 212-248 | 156              | 40                                      |

<sup>1)</sup> Casing only.



Connection dimensions to duct:  
TCLE 120      2400 x 1200 mm

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCLE | B    | H    | L   | kg        | kg <sup>1)</sup> | End connection panel, if required<br>kg |
|------|------|------|-----|-----------|------------------|-----------------------------------------|
| -120 | 3340 | 1620 | 720 | 336,5-373 | 267              | 59                                      |

<sup>1)</sup> Casing only.

## Complements and Accessories

### Duct accessories, in insulated casing

#### TCKA Air cooler (water),

#### TCKC (direct expansion)

The TCKA/TCKC air coolers are used for cooling the supply air with chilled water or evaporative refrigerant as the cooling medium.

The TCKA air cooler is available in several capacity variants that cover existing needs for each size of GOLD unit.

Air cooler TCKC is dimensioned on a case-by-case basis in the product selection program AHU Design. Dimensions and weights are therefore not reported in the catalogue.

The TCKA air coolers are equipped with an outlet for insertion-type sensors and can be used as combi coils (cooling and heating).

To be installed for horizontal airflow.

**N.B.!** Air cooler with evaporative refrigerant (DX battery) must be installed according to EN 378 and relevant national standards. The installer is responsible for correct installation and CE marking. For air coolers with R32 refrigerant, please note that this refrigerant is part of the A2L group and therefore requires additional action. As standard, the GOLD unit has control functions that can receive alarm signals as well as transmit signals for the required operation level in the event of an alarm.

#### Technical data

Insulated casing.

The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

The TCKA/TCKC air coolers are composed of copper tubes and profiled aluminium fins. The TCKA has headers and water connections made of copper/brass, with male connection threads. The TCKC has headers and distributor tubes made of copper. The connections are designed for brazed joints.

#### Valve set

The TBVL valve set with 2(3)-way valve, actuator and connection cable with quick-fit connector can be ordered for air cooler water. Temperature sensor water for reading incoming or outgoing cooling medium temperatures as an option.

If you use a valve of your own, you can instead select a set of electrical connection components. This set contains a connection cable with quick-fit connector, resistor and insertion type or strap-on sensor.

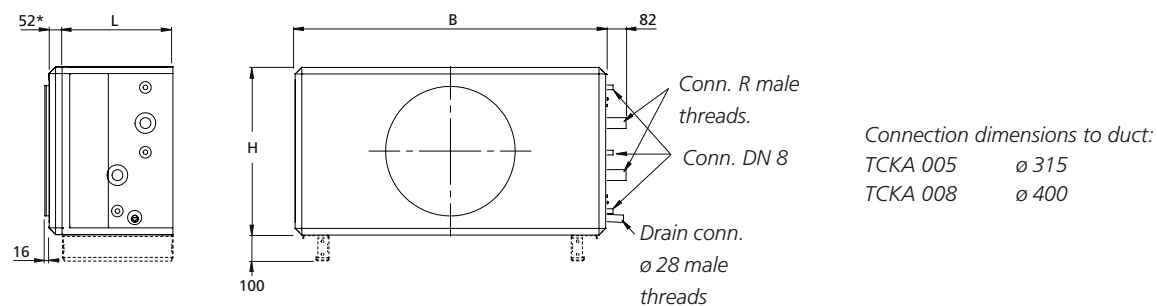


#### Installation

The air cooler should be mounted directly against the air handling unit or insulated duct accessory. Provision for inspection and cleaning must be guaranteed. Connecting the drainage pipework. Electrical connection.

## Complements and accessories

### Duct accessories, in insulated casing

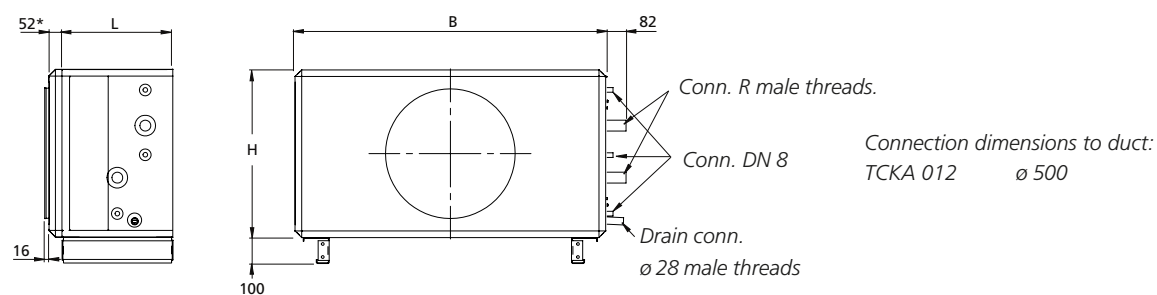


Base beam is optional on duct accessories in the lower duct. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCKA | B   | H     | Cap. variant 1 |      |                  | Cap. variant 2 |      |                  | Cap. variant 4 |      |                  | End connection panel, if required<br>kg |
|------|-----|-------|----------------|------|------------------|----------------|------|------------------|----------------|------|------------------|-----------------------------------------|
|      |     |       | L              | R    | kg <sup>1)</sup> | L              | R    | kg <sup>1)</sup> | L              | R    | kg <sup>1)</sup> |                                         |
| -005 | 825 | 460   | 475            | DN20 | 49               | 475            | DN25 | 51               | 625            | DN25 | 66               | 7                                       |
| -008 | 995 | 542,5 | 475            | DN25 | 60               | 475            | DN25 | 64               | 625            | DN32 | 83               | 10                                      |

<sup>1)</sup> Excl. cooling agent



Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

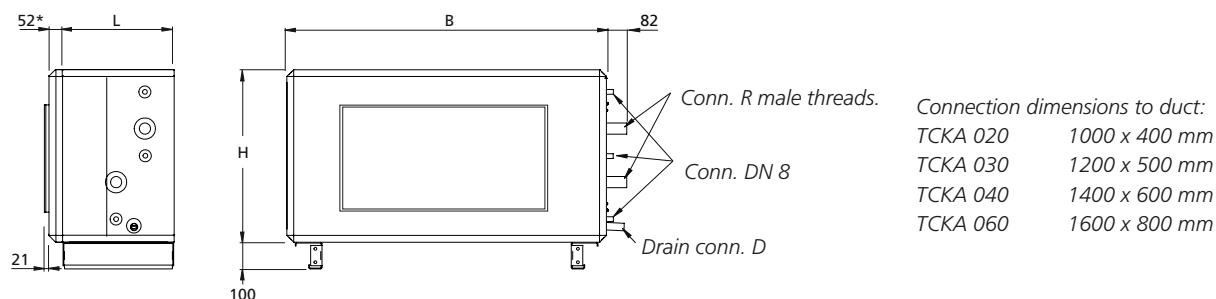
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCKA | B    | H     | Capacity variant 1 |      |                  | Capacity variant 2 |      |                  | Capacity variant 4 |      |                  | End connection panel, if required<br>kg |
|------|------|-------|--------------------|------|------------------|--------------------|------|------------------|--------------------|------|------------------|-----------------------------------------|
|      |      |       | L                  | R    | kg <sup>1)</sup> | L                  | R    | kg <sup>1)</sup> | L                  | R    | kg <sup>1)</sup> |                                         |
| -012 | 1199 | 647,5 | 475                | DN25 | 73               | 475                | DN32 | 79               | 625                | DN40 | 106              | 13                                      |

<sup>1)</sup> Excl. cooling agent

# Complements and accessories

## Duct accessories, in insulated casing



Duct accessories in the lower duct are always delivered with mounted base beam.

Duct accessories in the upper duct are always delivered without base beam.

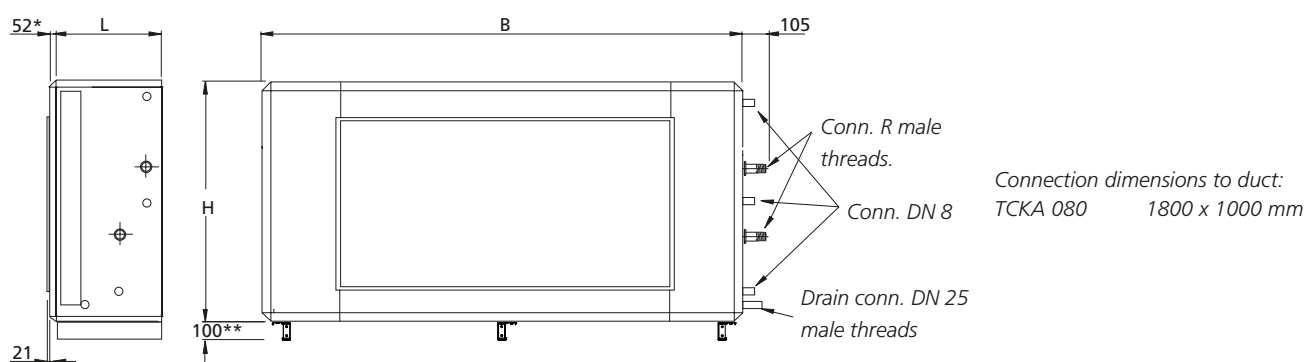
\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCKA | B    | H      | D               | Cap. variant 1 |      |                  |                  | Cap. variant 2 |      |                  |                  | Cap. variant 3 |      |                  |                  | Cap. variant 4 |      |                  |                  | End conn. panel if required, kg |
|------|------|--------|-----------------|----------------|------|------------------|------------------|----------------|------|------------------|------------------|----------------|------|------------------|------------------|----------------|------|------------------|------------------|---------------------------------|
|      |      |        |                 | L              | R    | kg <sup>1)</sup> | kg <sup>2)</sup> | L              | R    | kg <sup>1)</sup> | kg <sup>2)</sup> | L              | R    | kg <sup>1)</sup> | kg <sup>2)</sup> | L              | R    | kg <sup>1)</sup> | kg <sup>2)</sup> |                                 |
| -020 | 1400 | 775,5  | 28 male threads | 475            | DN32 | 91               | -                | 475            | DN32 | 100              | -                | 625            | DN40 | 123              | -                | 625            | DN50 | 132              | -                | 19                              |
| -030 | 1600 | 905,5  | 28 male threads | 475            | DN32 | 110              | -                | 475            | DN40 | 126              | -                | 625            | DN50 | 156              | -                | 625            | DN80 | 173              | -                | 23                              |
| -040 | 1990 | 1079,5 | 28 male threads | 475            | DN40 | 138              | -                | 475            | DN50 | 160              | -                | 625            | DN65 | 199              | -                | 625            | DN80 | 223              | -                | 34                              |
| -060 | 2318 | 1144   | DN25            | 565            | DN65 | 199              | 108              | 565            | DN65 | 211              | 108              | 565            | DN65 | 225              | 108              | 565            | DN65 | 242              | 108              | 34                              |

| TCKA | B    | H    | D    | Cap. variant 1 |      |                  |                  | Cap. variant 2 |      |                  |                  | End connection panel if required, kg |
|------|------|------|------|----------------|------|------------------|------------------|----------------|------|------------------|------------------|--------------------------------------|
|      |      |      |      | L              | R    | kg <sup>1)</sup> | kg <sup>2)</sup> | L              | R    | kg <sup>1)</sup> | kg <sup>2)</sup> |                                      |
| -060 | 2318 | 1144 | DN25 | 565            | DN65 | 210              | 108              | 565            | DN65 | 230              | 108              | 34                                   |

<sup>1)</sup> Excl. cooling agent

<sup>2)</sup> Only casing.



Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

\*\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit, h = 265 mm.

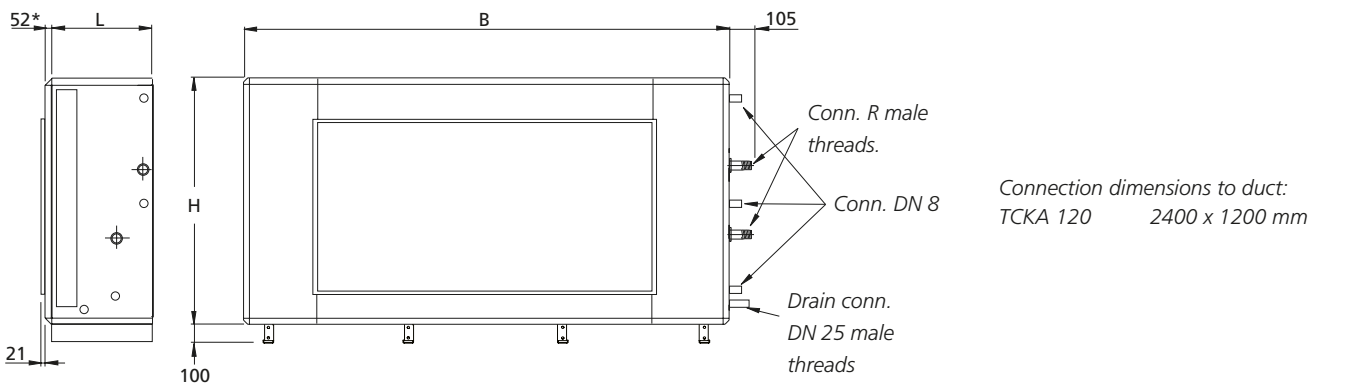
| TCKA | B    | H    | L   | Cap. variant 1 |                  |                  | Cap. variant 2 |                  |                  | Cap. variant 3 |                  |                  | Cap. variant 4 |                  |                  | End connection panel, if required kg |
|------|------|------|-----|----------------|------------------|------------------|----------------|------------------|------------------|----------------|------------------|------------------|----------------|------------------|------------------|--------------------------------------|
|      |      |      |     | R              | kg <sup>1)</sup> | kg <sup>2)</sup> | R              | kg <sup>1)</sup> | kg <sup>2)</sup> | R              | kg <sup>1)</sup> | kg <sup>2)</sup> | R              | kg <sup>1)</sup> | kg <sup>2)</sup> |                                      |
| -080 | 2637 | 1320 | 565 | DN65           | 263              | 135              | DN65           | 282              | 135              | DN65           | 302              | 135              | DN65           | 324              | 135              | 40                                   |

<sup>1)</sup> Including casing, not charged with refrigerant.

<sup>2)</sup> Casing only.

Complements and accessories

Duct accessories, in insulated casing



\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCKA | B    | H    | L   | Capacity variant 1 |                  |                  | Capacity variant 2 |                  |                  | Capacity variant 3 |                  |                  | Capacity variant 4 |                  |                  | End connection panel, if required<br>kg |
|------|------|------|-----|--------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|-----------------------------------------|
|      |      |      |     | R                  | kg <sup>1)</sup> | kg <sup>2)</sup> | R                  | kg <sup>1)</sup> | kg <sup>2)</sup> | R                  | kg <sup>1)</sup> | kg <sup>2)</sup> | R <sup>3)</sup>    | kg <sup>1)</sup> | kg <sup>2)</sup> |                                         |
| -120 | 3340 | 1620 | 720 | DN65               | 414              | 260              | DN80               | 461              | 260              | DN80               | 513              | 260              | DN100              | 568              | 260              | 59                                      |

<sup>1)</sup> Including casing, not charged with refrigerant.  
<sup>2)</sup> Casing only.  
<sup>3)</sup> The flange is included.

## Complements and Accessories

### Duct accessories, in insulated casing

#### TCEK-02 Coil section

##### Electric heating and water-borne cooling

The TCEK coil section is used for heating/cooling the supply air. The air heater runs on electric power and its type designation is TCLE. The cooling coil is a type TCKA air cooler for chilled water or a type TCKC air cooler for evaporative refrigerant. The type TCKA air coolers are equipped with connections for insertion sensors and can be used as a multi-purpose coil (cooling and heating).

Coil section TCEK is dimensioned on a case-by-case basis in the product selection program AHU Design. Dimensions and weights are therefore not reported in the catalogue.

To be installed for horizontal airflow.

The integrated thyristor is controlled via signals from the GOLD air handling unit. The four, five or six series-coupled overheating protections and control signals are connected by means of a quick connector to the GOLD air handling unit.

**N.B.!** Air cooler with evaporative refrigerant (DX battery) must be installed according to EN 378 and relevant national standards. The installer is responsible for correct installation and CE marking. For air coolers with R32 refrigerant, please note that this refrigerant is part of the A2L group and therefore requires additional action. As standard, the GOLD unit has control functions that can receive alarm signals as well as transmit signals for the required operation level in the event of an alarm.

#### Technical data

Insulated casing.

The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

The electric air heater is available in several capacity variants; the electrical equipment conforms to the provisions of Degree of Protection IP44.

The air heater is approved for operating temperatures, in the surroundings and the air stream, from -25°C to +40°C.

The air cooler is composed of copper tubes and profiled aluminium fins. The air cooler for chilled water has headers and water connections made of copper/brass, with male connection threads.



The air cooler for evaporative refrigerant has headers and distributor tubes made of copper. The connections are designed for brazed joints.

The air cooler is available in several capacity variants that cover existing needs for each size of GOLD unit.

#### Valve set

The TBVL valve set with 2(3)-way valve, actuator and connection cable with quick-fit connector can be ordered for air cooler water. Temperature sensor water for reading incoming or outgoing cooling medium temperatures as an option.

If you use a valve of your own, you can instead select a set of electrical connection components. This set contains a connection cable with quick-fit connector, resistor and insertion type or strap-on sensor.

#### Installation

The coil section should be mounted directly against the air handling unit or insulated duct accessory. Provision for inspection and cleaning must be guaranteed.

Electrical connection. **Power must be supplied to the electric air heater directly from an electrical distribution box.**

## Complements and Accessories

### Duct accessories, in insulated casing

#### Coil section TCLK

##### Waterborne heating and cooling

The TCLK coil section is used for heating/cooling the supply air. The air heater is for hot water and its type designation is TCLA. The air cooler is of type TCKA for chilled water or of type TCKC for evaporative refrigerant. The type TCKA air coolers are equipped with connections for insertion sensors and can be used as a multi-purpose coil (cooling and heating).

Coil section TCLK is dimensioned on a case-by-case basis in the product selection program AHU Design. Dimensions and weights are therefore not reported in the catalogue.

To be installed for horizontal airflow.

**N.B.!** Air cooler with evaporative refrigerant (DX battery) must be installed according to EN 378 and relevant national standards. The installer is responsible for correct installation and CE marking. For air coolers with R32 refrigerant, please note that this refrigerant is part of the A2L group and therefore requires additional action. As standard, the GOLD unit has control functions that can receive alarm signals as well as transmit signals for the required operation level in the event of an alarm.

#### Technical data

Insulated casing.

The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007). Internally Magnelis-treated. The casing's surface treatments meet environmental class C5. Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

The air heater is a finned-tube heat exchanger fabricated of copper tubes and profiled aluminium fins. The headers and the pipework to the water connections are made of copper. The male threaded pipe connections are made of brass.

The air heater is available in three capacity variants. Capacity variant 1 provides the lowest capacity and capacity variant 3 provides the highest capacity.

The air heaters and air coolers are equipped with individual plugs for venting and drainage. A separate connection is provided for an anti-frost monitor sensor.

The air cooler is composed of copper tubes and profiled aluminium fins. The air cooler for chilled water has headers and water connections made of copper/brass, with male connection threads.



The air cooler for evaporative refrigerant has headers and distributor tubes made of copper. The connections are designed for brazed joints.

The air cooler is available in several capacity variants that cover existing needs for each size of GOLD unit.

#### Valve set

The TBVL valve set with 2(3)-way valve, actuator, connection cable with quick-fit connector and temperature sensor water if required can be ordered for air heaters and air coolers water. For 2-pipe systems, (1 valve set) the valve set should be ordered with temperature sensor water. For 4-pipe systems, (2 valve sets) one valve set should be ordered with temperature sensor water (heating circuit) and one valve set without temperature sensor water (cooling circuit).

If you use a valve of your own, you can instead select a set of electrical connection components. This set contains a connection cable with quick-fit connector, resistor and insertion type or strap-on sensor.

#### Extra accessories

A circulation pump is used for guaranteeing the frost guard function, if air heaters without anti-frost burst protection are used. Supplied with T coupling, non-return valve and adjustment valve. The automatic pump control system is integrated into the control equipment of the GOLD unit.

#### Installation

The coil section should be mounted directly against the air handling unit or insulated duct accessory. Provision for inspection and cleaning must be guaranteed.

Electrical connection.

# Complements and Accessories

## Duct accessories, in insulated casing

### Final filter section, TCFB

The TCFB final filter section should be installed in ventilation systems where further filtration of the supply air is required.

Install the final filter section in the supply air downstream of the air handling unit.

Prefitted pressure sensor is standard. The alarm limit and current filter pressure can be read on the hand-held micro terminal of the GOLD unit.

To be installed for horizontal airflow.

### Technical data

Insulated casing.

The casing's interior and exterior are made of recycled and renewably produced sheet steel (1 mm) with a low CO<sub>2</sub> footprint. Externally galvanised and pre-painted with corrosion-resistant paint in Swegon's own grey metallic (closest comparable RAL, 9007).

Internally Magnelis-treated. The casing's surface treatments meet environmental class C5.



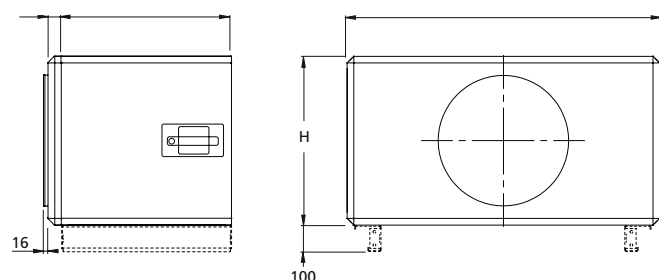
Cover panels on the front and back have a panel thickness of 56 mm, other cover panels/inspection doors are 52 mm. Insulation with mineral wool that meets fire safety class A1.

Bag filters to filter class ePM1 60% (F7) or ePM1 85% (F9) can be selected.

### Installation

The final filter section should be mounted directly against the air handling unit or an insulated duct accessory. Connect the pressure sensor.

Provision for inspection and cleaning must be guaranteed.



Connection dimensions to duct:

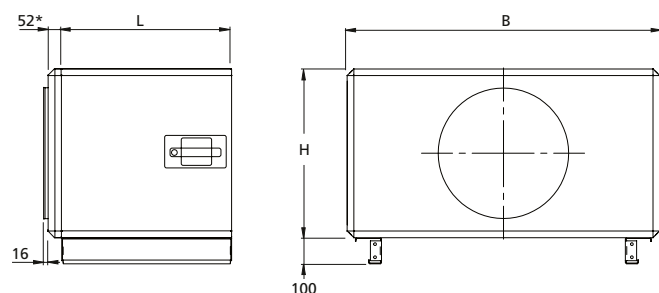
TCFB 005       $\varnothing$  315

TCFB 008       $\varnothing$  400

Base beam is optional on duct accessories in the lower duct. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCFB | B   | H     | L   | kg | End connection panel, if required<br>kg |
|------|-----|-------|-----|----|-----------------------------------------|
| -005 | 825 | 460   | 720 | 52 | 7                                       |
| -008 | 995 | 542,5 | 720 | 58 | 10                                      |



Connection dimensions to duct:

TCFB 012       $\varnothing$  500

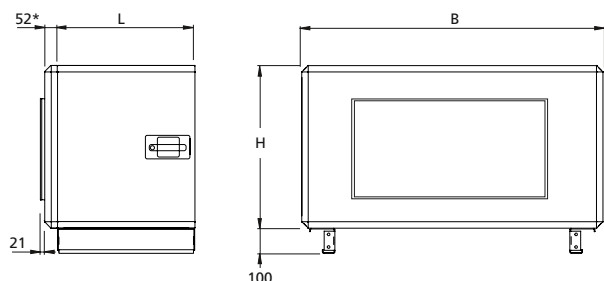
Duct accessories in the lower duct are always delivered with mounted base beam. Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCFB | B    | H     | L   | kg | End connection panel, if required<br>kg |
|------|------|-------|-----|----|-----------------------------------------|
| -012 | 1199 | 647,5 | 720 | 72 | 13                                      |

## Complements and accessories

### Duct accessories, in insulated casing



Connection dimensions to duct:

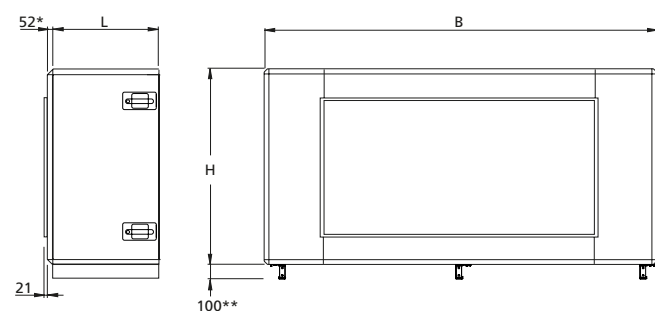
|          |               |
|----------|---------------|
| TCFB 020 | 1000 x 400 mm |
| TCFB 030 | 1200 x 500 mm |
| TCFB 040 | 1400 x 600 mm |
| TCFB 060 | 1600 x 800 mm |

Duct accessories in the lower duct are always delivered with mounted base beam.

Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCFB | B    | H      | L   | kg  | End connection panel, if required<br>kg |
|------|------|--------|-----|-----|-----------------------------------------|
| -020 | 1400 | 775,5  | 720 | 88  | 19                                      |
| -030 | 1600 | 905,5  | 720 | 103 | 23                                      |
| -040 | 1990 | 1079,5 | 720 | 119 | 34                                      |
| -060 | 2318 | 1144   | 720 | 150 | 34                                      |



Connection dimensions to duct:

|          |                |
|----------|----------------|
| TCFB 080 | 1800 x 1000 mm |
|----------|----------------|

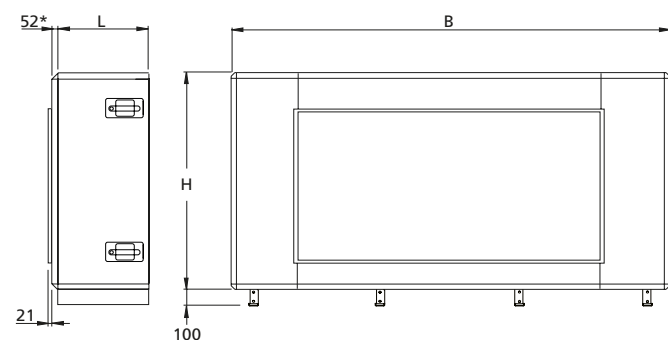
Duct accessories in the lower duct are always delivered with mounted base beam.

Duct accessories in the upper duct are always delivered without base beam.

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

\*\* For RX 070+/080+, the height of the base beam is adapted to the air handling unit,  $h = 265$  mm.

| TCFB | B    | H    | L   | kg  | End connection panel, if required<br>kg |
|------|------|------|-----|-----|-----------------------------------------|
| -080 | 2637 | 1320 | 720 | 198 | 40                                      |



Connection dimensions to duct:

|          |                |
|----------|----------------|
| TCFB 120 | 2400 x 1200 mm |
|----------|----------------|

\* If several duct accessories are arranged in succession, the end connection panel is supplied only on the duct accessory farthest out facing the ductwork.

| TCFB | B    | H    | L   | kg  | End connection panel, if required<br>kg |
|------|------|------|-----|-----|-----------------------------------------|
| -120 | 3340 | 1620 | 720 | 297 | 59                                      |

## Complements and Accessories

### Duct accessories

#### TBFK Carbon filter section

The TBFK has activated carbon filter medium designed for improving the air quality indoors by adsorbing gaseous, harmful or foul-smelling substances from the air.

Note that we cannot guarantee one hundred percent elimination of odours due to variations in the impurities and mixtures of various chemical substances arrested in the filter.

The carbon filter cartridges are disposable. They are seated in mounting frames and can be locked in their bayonet socket by simply turning them by hand. The cartridges contain a filter mat made of polyester, which encloses the activated carbon.

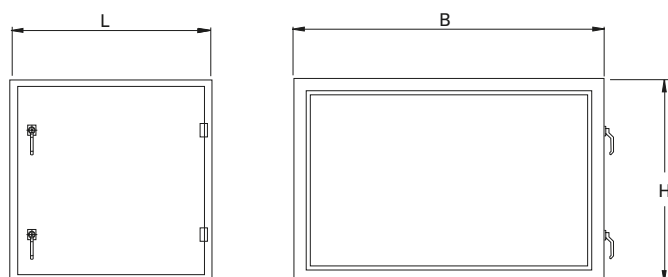
The frame structure consists of 38 mm galvanized (Sendzimir) square profiled sections, painted in RAL 7032. The profiled sections are held together by corner pieces made of plastic.

The outer and inner skins of the cover panels and inspection doors consist of galvanized sheet steel. An intervening 45 mm thick slab of thermal and sound-attenuating insulation is sandwiched between the skins.

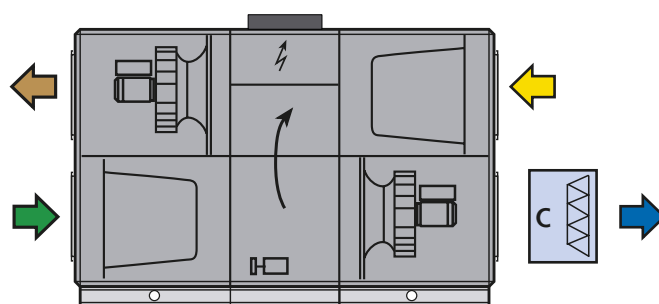
The cover panels can be dismantled from the unit.

The inspection doors have hinges and handles.

After fabrication the panels and inspection doors are given powder painted, min. 60 µm finish, RAL 7032. This leaves no open sectional areas and provides excellent corrosion resistance.



| TBFK | Slip-clamp conn.<br>widthxheight | B    | H    | L   | kg<br>without<br>cartridges | Number of<br>cartridges | kg<br>with<br>cartridges |
|------|----------------------------------|------|------|-----|-----------------------------|-------------------------|--------------------------|
| 017  | 850 x 350                        | 1039 | 546  | 763 | 75                          | 17                      | 113                      |
| 024  | 1100 x 500                       | 1259 | 656  | 763 | 89                          | 24                      | 143                      |
| 036  | 1300 x 600                       | 1459 | 756  | 763 | 104                         | 36                      | 185                      |
| 050  | 1600 x 700                       | 1759 | 906  | 763 | 120                         | 50                      | 233                      |
| 072  | 1800 x 800                       | 1946 | 1026 | 763 | 144                         | 72                      | 307                      |
| 098  | 2100 x 1000                      | 2306 | 1206 | 763 | 172                         | 98                      | 393                      |



#### Installation

The TBFK carbon filter section has a connection frame for slip-clamp jointing and is designed for installation in the ductwork, see adjacent illustration.

*Note that the TBFK carbon filter is available in six sizes and that the slip-clamp connection dimensions do not follow the connection dimensions of the GOLD air handling units.*

## Complements and Accessories

### Roof hoods and exterior wall hoods

#### Common for all roof hoods

The hoods are made of sheet metal with a surface layer of patented rapeseed oil-based black paint in environmental class C4.

The roof penetration collar is made of hot-dip galvanized sheet steel. Internally equipped with 50 mm stone wool insulation, with high density and a cleanable surface layer. Two angle brackets for connection to the relevant roof having client-specified slope are included.

The hoods for the size 004-012 GOLD units have circular duct connection fitted with type-approved rubber ring seal for jointing to spiral ductwork.

The hoods for the size 014-040 GOLD units have rectangular duct connection for slip-clamp joint connection.

#### TBHA Outdoor air hood

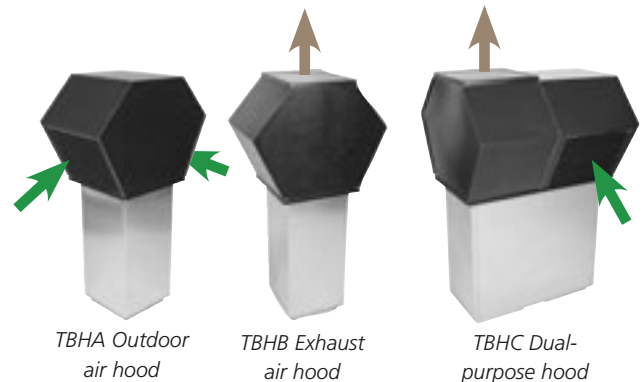
Designed for the intake of outdoor air. The design of the hood obstructs snow and raindrop entrainment. The hood is hinged and has air intake wire screens on both sides. For GOLD sizes 004-040.

#### TBHB Exhaust air hood

Designed for the discharge of exhaust air. The hood can be opened on hinges and is equipped with air deflectors that effectively direct the exhaust air upward and give the air high discharge velocity. To achieve low pressure drop, the air deflectors are rounded off on both their long sides. The hoods are equipped with effective provision for drainage. For GOLD sizes 004-040.

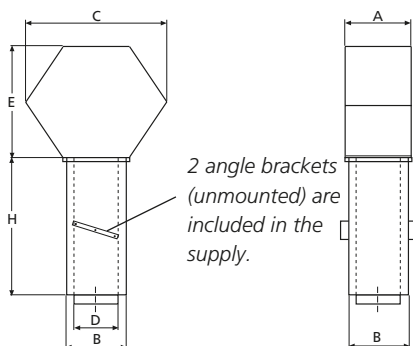
#### TBHC Dual-purpose hood

The TBHC is a combination of TBHA outdoor air hood and TBHB exhaust air hood and is available for the size 004 - 012 GOLD units only.



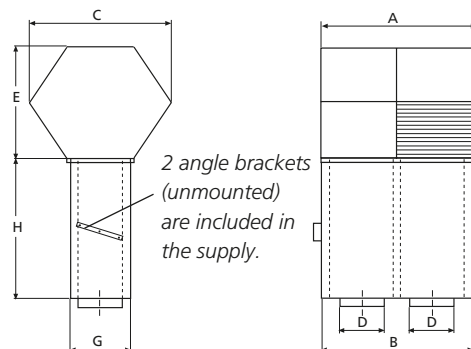
TBHx 0031, is compatible with GOLD sizes 004, 005  
 TBHx 0040, is compatible with GOLD sizes 007, 008  
 TBHx 0050, is compatible with GOLD sizes 011, 012  
 TBHx 0606, is compatible with GOLD sizes 014, 020  
 TBHx 0909, is compatible with GOLD sizes 025 - 040

#### TBHA Outdoor air hood and TBHB Exhaust air hood



| TBHA/TBHB | A    | B    | C    | D    | E    | H    | kg  |
|-----------|------|------|------|------|------|------|-----|
| -1-0031   | 500  | 400  | 850  | Ø315 | 620  | 800  | 31  |
| -1-0040   | 600  | 500  | 950  | Ø400 | 620  | 800  | 44  |
| -1-0050   | 820  | 700  | 1300 | Ø500 | 850  | 1200 | 129 |
| -1-0606   | 820  | 700  | 1300 | 600  | 850  | 1200 | 129 |
| -1-0909   | 1120 | 1000 | 1700 | 900  | 1150 | 1200 | 148 |

#### TBHC Dual-purpose hood



| TBHC    | A    | B    | C    | D    | E   | H    | G   | kg  |
|---------|------|------|------|------|-----|------|-----|-----|
| -1-0031 | 1000 | 900  | 850  | Ø315 | 620 | 800  | 400 | 70  |
| -1-0040 | 1200 | 1100 | 950  | Ø400 | 620 | 800  | 500 | 100 |
| -1-0050 | 1600 | 1500 | 1300 | Ø500 | 850 | 1200 | 700 | 290 |

## Complements and Accessories

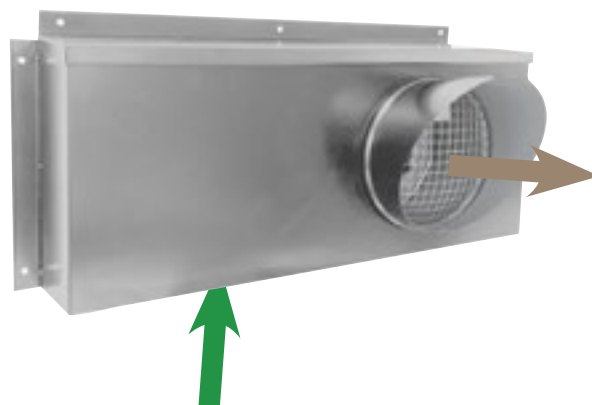
### Roof hoods and exterior wall hoods

#### TBHE Exterior wall hood

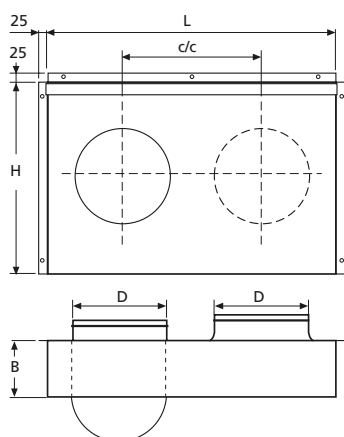
The exterior wall hood is designed for the admission of outdoor air and the discharge of exhaust air. The exhaust air is horizontally discharged through a circular wire mesh grille at the front of the hood. Outdoor air is admitted through a wire mesh grille at the bottom of the hood.

This design effectively prevents short-circuit flow between the outdoor air/exhaust air. For GOLD sizes 004 - 012.

TBHE Exterior wall hood is made of colour-coated guaranteed sheet metal (grey) in environmental class C4.



#### TBHE Exterior wall hood



TBHE 0031, is compatible with GOLD sizes 004, 005

TBHE 0040, is compatible with GOLD sizes 007, 008

TBHE 0050, is compatible with GOLD sizes 011, 012

| TBHE    | B   | c/c | D    | H   | L    | kg |
|---------|-----|-----|------|-----|------|----|
| -1-0031 | 200 | 420 | Ø315 | 490 | 950  | 11 |
| -1-0040 | 250 | 500 | Ø400 | 550 | 1150 | 15 |
| -1-0050 | 300 | 600 | Ø500 | 720 | 1350 | 20 |

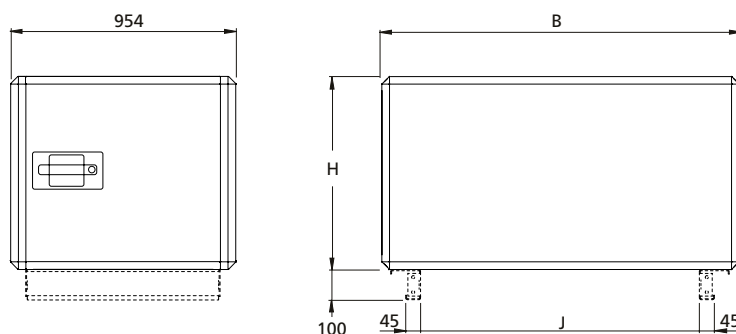
#### TCWP Component box

The TCWP component box is intended for the incorporation of components which must be protected from weather or mechanical damage. Typical components are valves, actuators, etc.

The component box consists of a GOLD-type casing. The component box is enclosed on all sides and has an inspection door that can be selected as a right or left-hinged door.

A roof is available as an accessory for outdoor installation.

The cutting of openings for e.g. pipes and electric cables, if required, must be done at the building site.



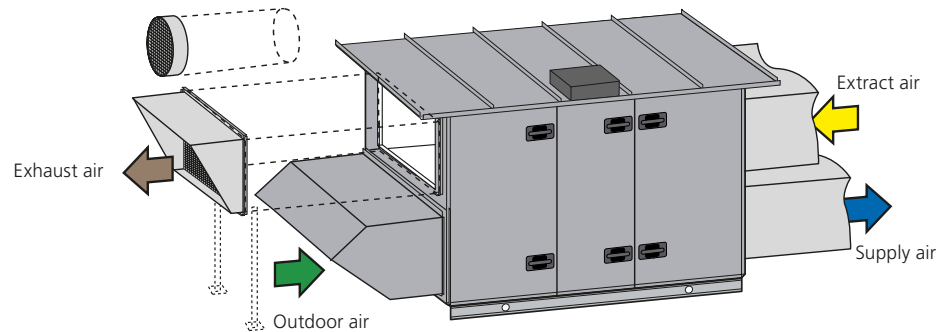
| Size | B    | H    | J    | kg  |
|------|------|------|------|-----|
| 005  | 825  | 460  | 579  | 69  |
| 012  | 1199 | 648  | 953  | 102 |
| 030  | 1600 | 906  | 1354 | 143 |
| 040  | 1990 | 1080 | 1726 | 160 |

The base beams are optional extras for the size 005 (Standard on the other sizes).

## Complements and accessories

### Outdoor installation

*GOLD units equipped with the roof, air intake section and exhaust air hood accessories can be installed outdoors. The roof cannot be used on GOLD air handling units with the fan outlet/inlet positioned on the top of the unit.*



### General

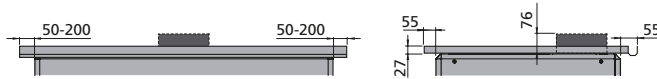
The GOLD air handling units, including optional unit sections and the COOL DX/DXS cooling unit can be installed outdoors. This presupposes that the roof, air intake section and exhaust air hood accessories are used. GOLD air handling units cannot be installed outdoors in applications that call for the fan outlet/inlet to be positioned on the top of the unit.

### TBTB Roof

The roof is supplied in kit form, complete with the necessary assembly parts and sealing strips. The cover plates for all the door handles are included as standard.

Visible parts are made of galvanized sheet steel, painted in Swegon's grey metallic paint (nearest comparable RAL colour: 9007).

### Dimensions



### TBTF Intake air section with pre-filter (sizes 004-040)

The TBTF intake air section is made of galvanized sheet steel with visible parts painted in Swegon's grey metallic paint (nearest comparable RAL colour: 9007). The intake air section has a fixed grille and has a hole for drainage. The intake air section has rectangular connection dimensions and the air handling unit is supplied with full face end connection panel. The intake air section is equipped with slip-clamp connection. It is possible to order a filter and damper installed in the air intake section. The filter is an aluminium filter type that conforms to filter class G2, and also works as a water separator. Damper actuators can be ordered with spring return or with modulating function.

### TBTA Intake air section (sizes 050-120)

The TBTA intake air section is made of aluminium-zinc plated sheet steel. The intake air section has a fixed louvre grille that effectively prevents raindrops from entering the duct and is equipped with holes for drainage. The intake air section has rectangular dimensions for all the sizes of GOLD and has space inside for an intake damper, if required. The intake air section has a flange with predrilled holes and is meant to be secured by means of screws to the end wall panel of the air handling unit.

### Exhaust air hood

The exhaust air hood is made of aluminium-zinc plated sheet steel. The exhaust air hood is equipped with a protective screen. For air handling units with standard end connection frame, the exhaust air hoods are circular for unit sizes 004–012 and rectangular with slip-clamp connection for the other unit sizes. For air handling units with full face connection frames, the exhaust air hoods are always rectangular with slip-clamp connection. The exhaust air hood of the size 050-120 GOLD units is supplied in loose parts, the other components are assembled.

### GOLD CX Cover hood

Cover hood that protects the pipework package on the GOLD CX installed outdoors (does not apply to sizes 100/120). Visible parts are made of galvanized sheet steel, painted in Swegon's grey metallic paint (nearest comparable RAL colour: 9007).

### Duct Accessories

Select duct accessories housed in insulated casings if they are to be installed outdoors. They can be located outdoors, however the enclosure classes and permissible ambient temperatures of any actuators included must be taken into consideration. See the instructions for the corresponding accessory. If necessary, see to it that required protection is arranged. Water-tight protective bags for valve actuators are available as accessories. The protective bag has a zip fastener and is made of polyester with internal plastic coating.

### Installation Tips

GOLD Air handling units should if possible be installed where the most favourable conditions exist from a weather point of view.

The ductwork for supply air and extract air must be insulated in accordance with local standards. If internally insulated ducts are used, the TBLZ-1-65 countersink kit should be used so that the measurement probe of the GOLD unit's supply air sensor will reach sufficiently far into the duct.

The hand-held micro terminal of the GOLD unit is sensitive to cold and must always be kept in a heated space. If required, use an extension cable or also an extension cable kit (see accessories for electrical and control equipment).

Swegon recommends moving the exhaust air hood a distance from the air handling unit by fitting a straight length of duct between them, especially if the exhaust air leaves the air handling unit from its lower level. This will prevent the risk of exhaust air shortcircuiting to the outdoor air and the risk of water entering the ventilation system.

## Complements and Accessories

### Mechanical equipment

#### **GOLD Sizes 004/005 and 007/008**

##### **Stand**

*GOLD RX, rotary heat exchanger*

*GOLD SD, Supply air and extract air handling units*

Specially designed stand, whose height makes it possible to arrange ducts under the air handling unit.

The stand is made of galvanized sheet steel profiled sections. The stand is supplied in assembly kit form. The long sides (A in the illustration) are used for horizontal installation and the shorter sides (B) are used for vertical installation.

##### **Set of support legs**

*GOLD PX, counterflow heat exchanger*

Specially designed set of legs, the height (745 mm, all sizes) of which makes it possible to arrange ducts under the air handling unit.

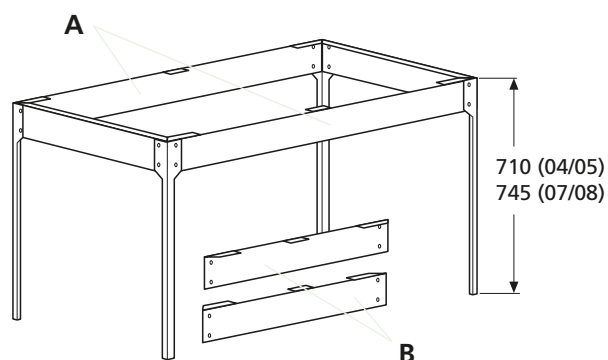
The set of legs consists of four legs made of galvanized sheet steel profiled sections. The legs are secured by means of bolts in the base beams under the air handling unit.

##### **Base frame, (base beams) for the COOL DX 008**

Specially designed stand with legs. Also used as base beams in combination with the GOLD PX

##### **Cover holder**

The cover holder facilitates the servicing and maintenance of vertically installed units. It consists of a mechanic stay with latch and is supplied in unmounted condition.



Stand for the GOLD RX/SD, Sizes 004/005 and 007/008.

### **GOLD - all sizes**

#### **Droplet eliminator**

To prevent the condensate from being entrained by the air flow at velocities exceeding 3 m/s, the cooling coils in the casing can be equipped with droplet eliminators on the extract air side.

The material in the droplet eliminator is GLASdek, which is fire resistant and highly absorbent. The pressure drop across the droplet eliminator is low. The droplet eliminator is mounted on delivery.

The droplet eliminator can easily be inspected and cleaned.

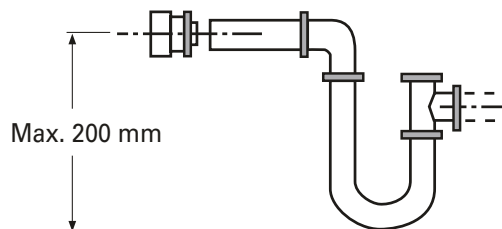
## Complements and Accessories

### Mechanical equipment

#### GOLD - all sizes

##### Water trap

Water trap for draining air cooler, coil heat exchanger, plate heat exchanger, reversible heat pump RX/HC and cooling unit COOL DX/COOL DX Top. Supplied with a set of connection fittings. The pipe from the water trap must be run without reduction in pipe dimension to a floor gully.



| Product                                 | Connection size, drain tray | Water trap  | Required number of conn. and water traps |
|-----------------------------------------|-----------------------------|-------------|------------------------------------------|
| Air cooler, water in casing, TCKA 04-40 | 28 mm                       | TBXZ-1-40-1 | 1                                        |
| Air cooler, water in casing, TCKA 50-80 | DN 25 (NPS 1")              | TBXZ-1-40-3 | 1                                        |
| Air cooler, DX in casing, TCKC 04-40    | 28 mm                       | TBXZ-1-40-1 | 1                                        |
| Air cooler, DX in casing, TCKC 50-80    | DN 25 (NPS 1")              | TBXZ-1-40-3 | 1                                        |
| Air cooler, water in duct, TBKA         | DN 25 (NPS 1")              | TBXZ-1-40-3 | 1                                        |
| Air cooler, DX in duct, TBKC            | DN 25 (NPS 1")              | TBXZ-1-40-3 | 1                                        |
| Coil heat exchanger, GOLD CX 35-120     | 35 mm                       | TBXZ-1-40-1 | 1                                        |
| Coil heat exchanger, GOLD SD 04-60      | 28 mm                       | TBXZ-1-40-1 | 1                                        |
| Coil heat exchanger, GOLD SD 70-120     | 35 mm                       | TBXZ-1-40-2 | 1                                        |
| Plate heat exchanger, GOLD PX           | 28 mm                       | TBXZ-1-40-1 | 2                                        |
| Reversible heat pump, GOLD RX/HC        | DN 20 (NPS ¾")              | TBXZ-1-40-4 | 2                                        |
| Cooling unit, COOLDX                    | DN 25 (NPS 1")              | TBXZ-1-40-3 | 1                                        |
| Cooling unit, COOLDX Top                | DN 20 (NPS ¾")              | TBXZ-1-40-4 | 1                                        |

## Complements and Accessories

### Mechanical equipment

#### Support foot

Adjustable support foot for taking up unevenness or sloping of the floor. The support foot should be mounted on the base beam of the air handling unit.

See the table for the number of support feet for a basic set-up (two filter/fan sections and one heat exchanger section) of GOLD.

#### Rubber tile

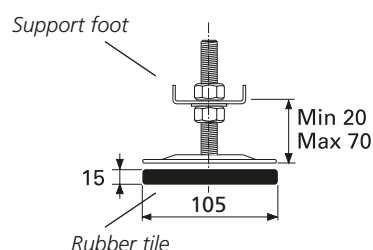
Designed to be glued under the support foot.

#### Slip-clamps

Set of slip clamps in appropriate lengths for one joint.

#### Metu connection

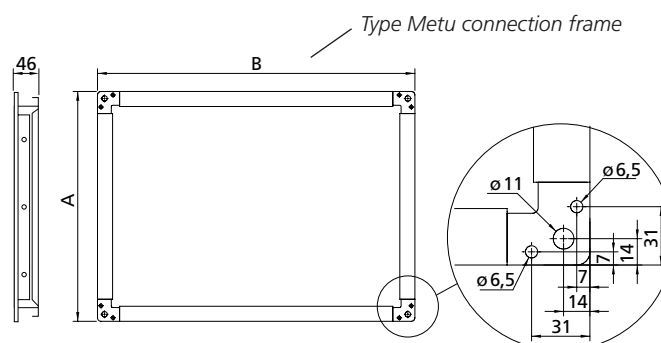
Type METU connection frame with set of bolts, 30 mm wide flange.



| GOLD/SILVER C RX | Number of support feet |
|------------------|------------------------|
| 004 - 030        | 6                      |
| 035 - 080        | 10                     |

| GOLD/SILVER C PX | Number of support feet |
|------------------|------------------------|
| 004 - 012        | 6                      |
| 014 - 030        | 8                      |
| 035 - 040        | 12                     |

| GOLD/SILVER CX | Number of support feet |
|----------------|------------------------|
| 035 - 080      | 12                     |



| For GOLD | A    | B    | kg  |
|----------|------|------|-----|
| 014/020  | 458  | 1058 | 5   |
| 025/030  | 558  | 1258 | 5,5 |
| 035/040  | 658  | 1458 | 6,5 |
| 050/060  | 858  | 1658 | 8   |
| 070/080  | 1058 | 1858 | 9   |
| 100/120  | 1258 | 2458 | 12  |

## Complements and accessories

### Mechanical equipment

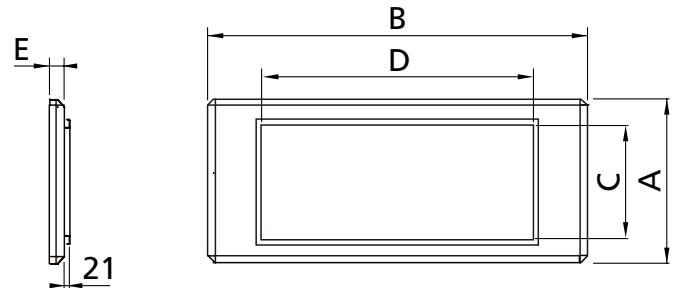
#### GOLD, all sizes

##### End connection panel, GOLD/COOL DX full face

End connection panel for transition between GOLD or COOL DX in full face version and uninsulated duct accessories or duct. Version as standard GOLD end connection panel, insulated and pre-painted in Swegon's grey metallic paint (nearest comparable RAL colour: 9007).

Duct accessory with duct connection size corresponding to that of the end connection panel's duct connection size can be ordered (does not apply to sizes 100/120). See section on Uninsulated duct accessories.

The end connection panels are supplied mounted on GOLD units and unmounted on the COOL DX units.



C x D correspond to the connection dimensions of the duct

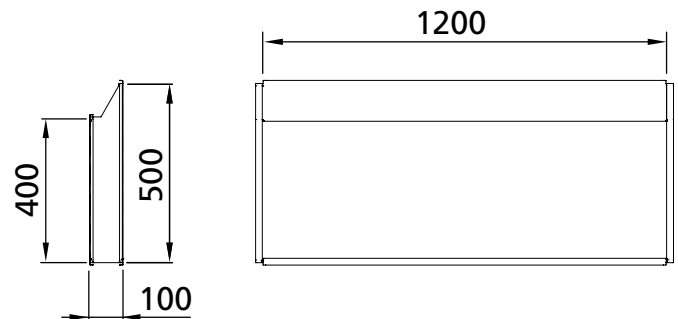
| For GOLD/<br>COOL DX | A      | B    | C    | D    | E  | kg |
|----------------------|--------|------|------|------|----|----|
| 004/005              | 460    | 825  | 300  | 600  | 52 | 7  |
| 007/008              | 542,5  | 995  | 400  | 800  | 52 | 10 |
| 011/012              | 647,5  | 1199 | 400  | 1000 | 52 | 13 |
| 014/020              | 775,5  | 1400 | 500  | 1200 | 52 | 19 |
| 025/030              | 905,5  | 1600 | 600  | 1400 | 52 | 23 |
| 035/040              | 1079,5 | 1990 | 800  | 1600 | 52 | 34 |
| 050/060              | 1144   | 2318 | 1000 | 1800 | 52 | 34 |
| 070/080              | 1320   | 2637 | 1200 | 2400 | 52 | 40 |
| 100/120              | 1620   | 3340 | 1500 | 3100 | 52 | 59 |

#### GOLD RX/PX Top, sizes 025/030

##### Adapter, duct accessory

The adapter is used as a transition between the fan outlet on GOLD RX/PX Top size 025/030 and duct accessories.

Alu-zinc treated sheet steel.



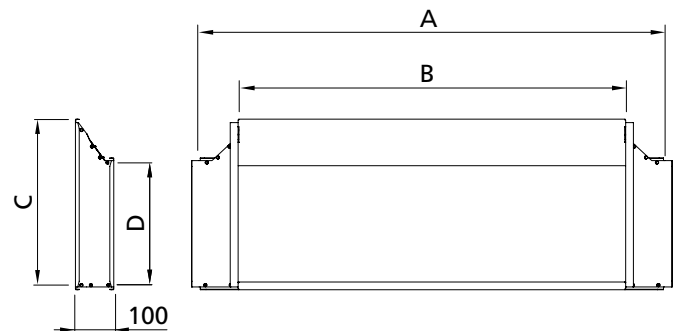
Weight: 5 kg

#### GOLD RX/PX Top, sizes 014-030

##### Adapter, duct accessory

The adapter is used as a transition between the air intake on GOLD RX/PX Top size 014-030 and duct accessories.

Alu-zinc treated sheet steel.



| For GOLD | A    | B    | C   | D   | kg |
|----------|------|------|-----|-----|----|
| 014/020  | 1200 | 1000 | 400 | 300 | 4  |
| 025/030  | 1400 | 1200 | 500 | 300 | 5  |

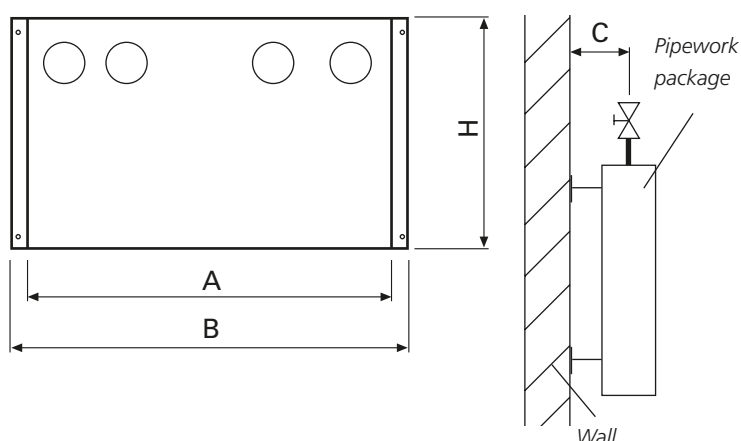
## Complements and Accessories

### TBXZ Pipework Package

The pipework package is used for the GOLD SD with coil heat exchanger and the size 100/120 GOLD CX units. The floor stand for the pipework package is available as an accessory. With the floor stand, the height from floor level to the thermometers on the installed pipework package is approx. 1480 mm.

**The following is included in the supply:** The pipework package is supplied complete with insulated sheet-metal casing, pump, control valve with actuator, expansion vessel with safety valve and manometer as well as shut-off cocks, thermometers, filling valve and air purging valve. Wall mounting bracket.

**Work to be carried out at the building site:** Install the shunt, pump and expansion vessel at an appropriate place. Pipe route with insulated pipes to the air handling unit and between shunt, pump and expansion vessel. Electrical connection. Filling water mixed with glycol.



| GOLD/SILVER C Sizes | TBXZ-42 Size | A   | B    | H   | C   |
|---------------------|--------------|-----|------|-----|-----|
| 004/005             | 05           | 601 | 669  | 415 | 130 |
| 007/008             | 08           | 601 | 669  | 415 | 130 |
| 011/012             | 12           | 601 | 669  | 415 | 130 |
| 014/020             | 20           | 601 | 669  | 415 | 130 |
| 025/030             | 30           | 772 | 839  | 530 | 128 |
| 035/040             | 40           | 772 | 839  | 530 | 128 |
| 050/060             | 60           | 772 | 839  | 530 | 128 |
| 070/080             | 80           | 772 | 839  | 530 | 128 |
| 100/120             | 120          | 937 | 1003 | 640 | 141 |

## Communication

### Communication unit, TBLZ

Communication via TCP/IP, EIA 485 and EIA 232 as well as via internal web server is standard in the GOLD. The TBLZ extra communication unit is required for communication via LON FTT-10 - Lon Works. The communication unit must be connected to the communication port of the GOLD unit. Power can be supplied from appropriate terminal connections on the GOLD unit.

The scope available for communication is conditional on the software and its programming. The GOLD unit in itself provides potential for comprehensive communication of readings, settings and functions.

#### Modem

Analogue or GSM. Can be used when direct connection cannot be made to a network or communication system.

Several units can be connected to the same modem.



# Complements and Accessories

## Electrical and Control Equipment

### Occupant detection sensor

Instead of using a timer for controlling the fans to operate in the high speed or low speed mode, TBLZ occupant detection sensors can carry out this control. As soon as the sensor registers the presence of an occupant in the room, it transmits a signal to the control unit to switch the unit to the high speed operating mode. When no occupant is registered in the room, the unit returns to the normal flow mode.

Connect via appropriate terminal connections on the control circuit card.

### Pressure transducer

For use in conjunction with the VAV pressure control function, when constant pressure must be kept in the ductwork. Also for use in conjunction with the heat exchanger defrosting function, when the pressure across the heat exchanger must be controlled. The connection cable is included. 1 – 15 m long cable can be selected.

Connect via appropriate terminal connections on the control circuit card.

### Air quality sensor

For use in conjunction with the demand-controlled VAV function, when the airflow of the air handling unit must be variably controlled by means of an air quality sensor. Available for duct or room.

Connect via appropriate terminal connections on the control circuit card.

### VOC sensor

For use in connection with Wise Apartment or demand control of the GOLD. To be mounted inside an air duct.

Wiring is to be done on the control circuit card's communication bus.

### Room sensor, outdoor/room sensor

Used in conjunction with functions that require temperature readings from outdoors or from rooms. The sensor is designed for wall-mounting and is available for degree of protection IP 20 or IP 43.

Connect via appropriate terminal connections on the control circuit card.

### Internal duct temperature sensor

Used in connection with the extract air regulation function or as a temperature monitor/alarm for the GOLD RX. The sensor is supplied with the length of cable specified by the client in the purchase order, 1 – 10 metres.

### Extract air duct, temperature sensor

This can be used in conjunction with the evaporative cooling and Xzone extract air regulation functions, for example. The sensor is supplied with a 7 metre long cable.

### Timer

The ELQZ timer is used for overtime operation in conjunction with the external high speed and external low speed functions. For strap-on mounting.

Connect via appropriate terminal connections on the control circuit card.

### Timer, electronic

The TBLZ electronic timer can be used for overtime operation in conjunction with the external high speed and external low speed functions. For strap-on mounting.

Connect communication cable leads to appropriate terminal connections on the control circuit card. Separate power supply

### Push button

The ELQZ push button can be used for overtime operation in conjunction with the external high speed and external low speed functions. For strap-on mounting. Can be selected with or without indication. Connect via appropriate terminal connections on the control circuit card.

### Extension cables

5 metres long for air heater, water and electric 8 m long for hand-held micro terminal, supply air temperature sensor, pressure sensor and IQlogic<sup>+</sup>.

### Extension kit for pressure sensor or external temperature sensor

For lengthening the cable, 6 – 50 m.

### Strap-on sensor

Temperature sensor for mounting against the surface where readings are to be taken.

### Fire and smoke protection

The fire and smoke protection function consists of three separate units:

- TBLZ cubicle
- TBLZ smoke detector
- ELQZ\* damper actuator.

the cubicle contains the control unit and connections. the smoke detector stops the air handling unit and controls the damper actuators to close the dampers. An alarm is presented in the hand-held micro terminal of the GOLD air handling unit.

### SD card

Multi-media circuit card for program transmissions and logging.

### 230/400V Transformer

For connecting the air handling unit to 230V mains power supply.

### Transformer, 230/24 V AC

For connecting 24 V AC electrical components to 230 V mains voltage.

### IQlogic<sup>+</sup>

The IQlogic<sup>+</sup> functional module is used for extra functions for which the inputs and outputs are not included as standard in which the control unit of the GOLD air handling unit. 1 – 15 metre long connection cable

### Temperature sensor, IQlogic<sup>+</sup>

Temperature sensor, for the IQlogic<sup>+</sup> module

### Humidity sensor, IQlogic<sup>+</sup>

Temperature sensor, for the IQlogic<sup>+</sup> module for dehumidification and dew point control.

### IQlogic<sup>+</sup> enclosure

Enclosure for the IQlogic<sup>+</sup> module. Equipped with DIN rail. IP65. Space for 2 IQlogic<sup>+</sup> medium-size modules. Outer dimensions: 266 x 200 x 105 mm.

### Xzone Control box

Control box for controlling one extra temp. zone, max.

## Complements and Accessories

### Electrical and Control Equipment

#### **ReCO<sub>2</sub>**

Complete set of components for controlling the function for mixing. The pressure sensor and the IQlogic+ are included. Air quality sensor to be ordered separately. The outdoor air damper must be of modulating type.

#### **Control of the air heater for preheating**

Includes temperature sensor for installation in a duct and the IQlogic+ with a 0.25 metre long cable.

#### **All Year Comfort**

Electrical equipment cubicle for controlling the primary water circuit for cooling and /or heating. For climate beams, perimeter climate systems, etc.

