Ventilation unit with plate heat exchanger for commercial applications. Well-suited for both newly constructed buildings and renovation projects.

- Maximum airflow 4,000 m³/h or 1.100 l/s.
- Temperature efficiency: up to 85 %
- Energy-efficient and quiet fans with composite or aluminum blades.
- For installation indoors against ceiling.
- Premium control technique with touchscreen HMI.
THE MOST IMPORTANT POINTS

DOUBLE FLOW HIGH PERFORMANCE VENTILATION UNITS
Since 1997, Lemmens has specialised in the design and manufacture of dual flow ventilation units with energy recovery. From the outset, it adopted the principle that “energy recovery means the search for efficiency... it is therefore absurd to seek to recover heat energy without seeking to minimize power consumption.”

It opted for the systematic integration of fans equipped with high performance DC motors (TAC technology). With this technology, the GLOBAL line anticipated the most demanding levels of energy requirements to come, such as those set by the new standards ErP2018.

Over time, it has developed more extensive and effective control. The most recent (TAC5) is at the forefront of the technology, due both to its internal functionality and its opening via communication (Modbus, TCP/IP, BACnet, KNX).

PLUG-AND-PLAY UNITS
The GLOBAL LP ventilation units are supplied as plug and play devices. The basic functions are pre-programmed and most of the accessories are pre-installed, pre-wired and pre-configured in factory. Once the remote control module has been connected, all that needs to be done is to switch the unit on and to change the pre-configured parameters if needed.

ACCESS – FOR OPERATORS
The units’ generously sized doors ensure good access for maintenance work. The doors are mounted on sliding rails for ease of access.

PLATE HEAT EXCHANGER
The exchanger is a high efficiency (>80%) air/air plate heat exchanger, made of seawater-resistant aluminium. The exchanger complies with standard EN 308 and is Eurovent certified.

HIGH-PERFORMANCE FANS
The powerful EC fans ensure that sufficient external pressure is available, even with high airflows. The composite fan blades will ensure a better SFP and a higher fan efficiency, compared to aluminum fan blades. The efficiency level fulfills the ErP2018 requirements.

SUMMER AND NIGHT TIME COOLING
A 100% bypass is a standard feature on the GLOBAL units equipped with plate heat exchangers. It allows us to ensure the freecooling function and is automatically controlled on the indoor and outdoor temperatures.

HEATER ELEMENTS
The GLOBAL LP units can be factory-fitted with an integrated water post heating or electric pre- or post heater element. The capacity of coil is modulated in order to maintain the setpoint. The water heating coil is ready-to-connect and delivered with a 3-way valve controlled by the TAC controller. The built in control system allows for all GLOBAL units to control an additional external heating (electric or water) and/or cooling exchanger.

DAMPERS
The GLOBAL units can be equipped with supply air and exhaust air dampers. In this case, the TAC control activates a fan start-up delay when the unit is started. As an option, a spring return actuator is available.

AIR FILTERS – FILTER CLASSES
As standard, the GLOBAL LP ventilation units are fitted with particularly effective and large-scale particulate matter bag filters, with filter class F7 (EN779) / ePM1≥50% (ISO16890) for the supply air and M5 (EN779) / ePM10≥50% (ISO16890) for the exhaust air.

CONTROL MODULES
The integrated TAC5 control system can be connected to:

- **TACtouch HMI** with 4,3” capacitive touchscreen. For configuring and controlling the operation of a heat recovery unit.
- **SAT MODBUS** for configuration, visual display and controlling the operation via MODBUS RTU.
- **SAT KNX** for configuration, visual display and controlling the operation via KNX.
- **TCP/IP module** for communication via the internet (MODBUS TCP/IP protocol) and the heat recovery devices. Embedded web pages are used for the configuration, visual display and controlling the operation.
- **BACnet gateway** for configuration, visual display and controlling the operation via BACnet IP.
GLOBAL LP SERIES

CONTROL OPTIONS

- Touchscreen HMI
- BACnet gateway
- MODBUS RTU / ETHERNET
- WIFI
- KNX
- SAT3

AVAILABLE OPTIONS

- Internal electrical post heating coil (KWout)
- Internal electrical pre heating coil (KWin)
- Internal water post heating coil (IBA)
- External post heating/cooling coil (EBA)
- Motorised dampers (CT)
- Flexible sleeve 20mm (MS20)
- Flexible sleeve 30mm (MS30)
- Condensate pump
MAIN ADVANTAGES

- **EN1886 classification:** T3 / TB2 / F9 / L2 / D1
- **High efficiency plate heat exchanger with Eurovent certification.**
- **Integrated pre- and post heating coil; electrical or water based.** Fully integrated modulating capacity control.
- **Innovative touchscreen interface with intuitive commissioning menu and integrated contextual aid.**
- **EC plug fans with composite blades for optimised efficiency and low noise levels.** Aluminum fan blades available as an option.
- **All of the access panels are mounted on sliding rails. Standard maintenance can be done by only one single technician.**
- **RAL7016 galvanized steel sheet construction with 30mm mineral wool thermal insulation.**
- **Circular duct connections with rubber seal; standard slip clamp connections for rectangular connections.**

- **Plug-and-play prewired unit.** The complete unit is pre-wired and pre-configured in factory.
- **Optional accessories are delivered as separate components, to be installed and wired on site.**
- **For units sizes 02 and 04:** M5 / ePM10≥50% compact filters for both supply and extract air.
- **For units sizes 06 and up:** bag filters for both supply and extract air. F7 / ePM1≥50% for fresh air intake and M5 / ePM10≥50% for extract air.
- **Proven TAC5 controller with preconfiguration.**
- **Max airflow of 4,000m³/h (1,100l/s) for unit size “20”**
- **ERP2018 optimised design**
- **Selection software available for free download**
- **Standard VDI6022 compliant**
FLEXIBLE FOR A WIDE VARIETY OF SOLUTIONS
THE CORRECT OPERATING MODE IS AN IMPORTANT FACTOR

AIRFLOW OR PRESSURE
Whether the ventilation system is operated on the basis of constant pressure or constant airflow or via a 0–10V control system depends on the area of application and the specific on-site requirements. The integrated master/slave control system ensures that operation is always well-balanced.

THE ADVANTAGES IN DETAIL
- Sufficiently high external pressure
- Constant airflow
- Demand control: constant airflow controlled by a 0–10 V signal
- Constant pressure via an external pressure sensor

THE 3 MAIN OPERATING MODES:

Constant Airflow mode
The airflow is kept constant, irrespective of external changes in pressure.

Demand control mode
A linear voltage/airflow ratio. The airflow can be regulated, e.g. by a CO2 sensor, via a 0–10 Volt signal.

Constant pressure mode
A prime example is undoubtedly apartment buildings with the opportunity to control the ventilation in individual apartments separately. The pressure remains constant even when the ventilation is increased or decreased in one apartment as required, by means of an airflow control unit. The airflow stays the same in all the other apartments, i.e. the ventilation system always runs within the ideal range. An external pressure sensor is required for constant pressure mode.
**Touchscreen REMOTE CONTROL**

Remote control with touchscreen display and integrated timer with 4 actions per day and ‘off day’ functionality. For configuring and controlling the operation of 1 heat recovery unit. The commissioning menu, alarm history and maintenance menu are all of them focussed on efficient operation.

<table>
<thead>
<tr>
<th>Article</th>
<th>CID</th>
</tr>
</thead>
<tbody>
<tr>
<td>TACtouch</td>
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**4 POSITION SWITCH**

With the four position switch, a unit can be switched to one its three configurable operating speeds and the off-position.

<table>
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</thead>
<tbody>
<tr>
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**SAT MODBUS**

Interface for configuration, visual display and controlling the operation via MODBUS RTU

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<tr>
<th>Article</th>
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<tbody>
<tr>
<td>SAT MODBUS</td>
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**SAT ETHERNET**

Interface for configuration, visual display and controlling the operation via MODBUS TCP/IP

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<tbody>
<tr>
<td>SAT Ethernet</td>
<td>025072</td>
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</table>

**BACnet gateway**

For communicating with the heat recovery devices via a BACnet TCP/IP protocol. Up to four units can be integrated through the interface. The optional SAT Ethernet interface is required.

<table>
<thead>
<tr>
<th>Article</th>
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<tbody>
<tr>
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</table>

**SAT Wifi**

The Wifi interface with MODBUS TCP/IP, allows for a wireless connection to the air handling unit. Typically this accessory would be used in order to control the unit with the smart phone application.

<table>
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<th>Article</th>
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<tbody>
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**SAT KNX**

Interface for configuration, visual display and controlling the operation via KNX

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<tbody>
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</table>

**SAT3**

The SAT3 combined with the TAC5 controller allows signalling the following with 2 free of potential contacts: Fan is actually running and alarm on a pre-set pressure variation. This status is expressed by closing the contact.

<table>
<thead>
<tr>
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<tbody>
<tr>
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</table>
EC PLUG FAN WITH COMPOSITE FAN BLADES (ALUMINUM BLADES OPTIONAL)

FRESH AIR FILTER

INTEGRATED CONTROLLER

EASY ACCESS SLIDING RAILS

INTEGRATED PREHEATING (ELECTRICAL)

HIGH EFFICIENCY PLATE HEAT EXCHANGER

INTEGRATED POST HEATING (WATER/ELECTRICAL)

STAINLESS STEEL DRAIN PAN

EXTRACT AIR FILTER

100% BYPASS
UNIT OVERVIEW
GENERAL DESCRIPTION GLOBAL LP

EC FANS WITH COMPOSITE FAN BLADE
As standard, the EC fans are equipped with composite fan blades. Optionally, aluminum fan blades are available. The advantage of the composite fan blades are lower weight and aerodynamical shaping of the blades. All of this is finally resulting in a better SFP value. The fans are physically located on the cold air side of the plate heat exchanger, thus drastically reducing the emitted noise levels toward the occupied rooms in the building.

CIRCULAR DUCT CONNECTIONS
The duct connections for sizes 02, 04, 06 and 08 are circular and with rubber sealing.

FILTERS
All GLOBAL LP units size 06 and up, are equipped with bag filters. Sizes 02 and 04 are fitted with compact filters. The function of the filter is to keep both the air and the heat exchanger clean. The standard fresh air filter is of class F7(EN779)/ePM1≥50% (ISO16890), the standard extract air filter is of class M5 (EN779)/ePM10≥50% (ISO16890). An F7(EN779)/ePM1≥50% (ISO16890) filter on the extract air side is not available since this would have a negative influence on the energy consumption. The filters are mounted in locking guide rails in order to facilitate removal and inspection. The filters guiderials are compliant to the requirements for filter bypass leakage to Class F9. The filter monitoring function is integrated in the standard configuration of the TAC5 controller.

PLATE HEAT EXCHANGER
The plate heat exchanger is a heat exchanger with a temperature efficiency of up to 85% and is installed under an angle to facilitate the evacuation of condensate. The plate heat exchanger is eurovent certified.

UNIT CASING
The casing of the GLOBAL LP consits of metal panels. The outer skin is made of painted steel sheet, RAL7016. The inner skin is made of galvanized sheet steel. The panel thickness is 30mm with intervening insulation consisting of mineral wool. The doors are mounted in sliding rails to facilitate access to the internal components. The panels can be easily removed for even better access.

EN1886 casing performance:
- Air leakage, class: L2
- Thermal bridges: TB2
- Thermal transmission: T3
- Mechanical strength: D1

RECTANGULAR DUCT CONNECTIONS
The duct connections for sizes 10 and up, are rectangular standardised 'slip clamp' duct connections.

TAC5 CONTROLLER
The control equipment is completely integrated into the GLOBAL air handling unit. The controller controls and regulates the temperatures, airflows and other functions. The controller is pre-configured in factory with default settings.
INTERNAL WATER HEATING COIL - IBA

The unit can be equipped with an internal water heating coil. The coil is physically located between the plate heat exchanger and the supply air duct connection. The water coil has internal water connections and is delivered with flexible connections in order to connect it to the hydraulic system on the outside of the unit. The water coil is equipped with an anti-frost protection temperature sensor, which is mounted on the surface of the coil.

INTERNAL ELECTRICAL PREHEATING COIL - KWIn

The unit can be equipped with an internal electrical preheating coil. The coil is physically located between the fresh air filter and the supply air fan. The first function of the preheating coil is to protect the plate heat exchanger against freezing.

INTERNAL ELECTRICAL HEATING COIL - KWOUT

The electrical post heating coil is physically located between the plate heat exchanger and the supply air duct connection. The electrical coil has two overheating protections, one with manual reset and one with automatical reset. When the electrical post heating coil is configured correctly, the coil is stopped immediately when the unit is stopped, however, the fans are kept running for 90 seconds in order to cool down the electrical coil.

DEFROST STRATEGY

When the unit is used in cold climate conditions, a defrost option is available to avoid any risk linked to the icing of the plate heat exchanger. TAC controller will monitor the pressure drop of the heat exchanger to activate the defrost function in case of pressure drop increase in the extract flow.

TOUCHSCREEN HMI

The hand-held user interface is a 4.3” touchscreen and is very user friendly. The HMI is rendering on-site commissioning intuitive and simple by means of the commissioning menu. The HMI is equipped with a 2 meter long connection cable and magnets. By means of the magnets, the HMI can be easily fixed on to any metallic surface.

The defrost function consists in stopping the supply flow for a short period of time.

ANTI FROST STRATEGY

Different antifreeze protection strategies are available for units with counterflow heat exchanger.
- Supply airflow reduction
- Bypass modulation
- Internal electrical preheating coil
GENERAL TECHNICAL SPECIFICATIONS

- **AIR VOLUME**
  - 100 - 580 m³/h
  - 30 - 160 l/s

- **DIMENSIONS (L x W x H)**
  - 1300 x 740 x 350

- **WEIGHT**
  - 105 kg

- **POWER CONNECTION**
  - 1 x 230V - 50Hz

- **RECOMMENDED FUSES**
  - 4A / D-10000A-AC3

- **MINI PLEAT FILTER CLASS EN779 (EN16890)**
  - M5 (ePM10 ≥ 50%) / M5 (ePM10 ≥ 50%)

- **DUCT CONNECTIONS SUPPLY/EXHAUST**
  - Ø200

- **DUCT CONNECTIONS EXTRACT/OUTDOOR**
  - Ø200

- **OPERATING RANGE**
  - -20 ... +40°C

- **EN1886 CLASSIFICATION**
  - T3 / TB2 / F9 / L2 / D1

### AIRFLOW TABLE

<table>
<thead>
<tr>
<th>AIRFLOW</th>
<th>SFP</th>
<th>ABSORBED POWER</th>
<th>THERMAL EFFICIENCY</th>
<th>T° AFTER HEAT EXCHANGER</th>
<th>SOUND PRESSURE</th>
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<tbody>
<tr>
<td>m³/h</td>
<td>l/s</td>
<td>kW/m³/h</td>
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<td>dB(A)</td>
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<tr>
<td>400</td>
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</table>

**Conditions:**

1. All values at 200Pa external pressure.
2. T° after heat exchanger at -10°C, 90%RH and +22°C, 50% HR.
3. Thermal efficiency at -10°C, 90%RH and +22°C, 50% HR.
4. Sound pressure for ducted unit in free field conditions at 3m.
5. All data for composite fans variant

*This document is an overview of technical specifications. Please do refer to our selection software for detailed and updated information.*
GENERAL TECHNICAL SPECIFICATIONS

- **AIR VOLUME**: 100 - 650 m³/h
  
  30 - 180 l/s

- **DIMENSIONS (L x W x H)**: 1300 x 950 x 350

- **WEIGHT**: 125 kg

- **POWER CONNECTION**: 1 x 230 V - 50 Hz

- **RECOMMENDED FUSES**: 4A / D-10000A-AC3

- **MINIPLEAT FILTER CLASS EN779 (EN16890)**: M5 (ePM10≥50%) / M5 (ePM10≥50%)

- **DUCT CONNECTIONS SUPPLY/EXHAUST**: Ø250

- **DUCT CONNECTIONS EXTRACT/OUTDOOR**: Ø250

- **OPERATING RANGE**: -20°C ... +40°C

- **EN1886 CLASSIFICATION**: T3 / TB2 / F9 / L2 / D1

### Conditions:

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<td>m³/h</td>
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</table>

This document is an overview of technical specifications. Please do refer to our selection software for detailed and updated information.
GENERAL TECHNICAL SPECIFICATIONS

- **AIR VOLUME**
  200 - 1050m³/h
  55 - 290l/s

- **DIMENSIONS (L x W x H)**
  2100 x 900 x 435

- **WEIGHT**
  195kg

- **POWER CONNECTION**
  1 x 230V - 50Hz

- **RECOMMENDED FUSES**
  8A / D-10000A-AC3

- **BAG FILTER FILTER CLASS EN779 (EN16890)**
  F7 (ePM1≥50%) / M5 (ePM10≥50%)

- **DUCT CONNECTIONS SUPPLY/EXHAUST**
  Ø315

- **DUCT CONNECTIONS EXTRACT/OUTDOOR**
  Ø315

- **OPERATING RANGE**
  -20°C ... +40°C

- **EN1886 CLASSIFICATION**
  T3 / TB2 / F9 / L2 / D1

<table>
<thead>
<tr>
<th>AIRFLOW</th>
<th>SFP</th>
<th>ABSORBED POWER</th>
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<td>dB(A)</td>
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</table>

**Conditions:**
1. All values at 200Pa external pressure.
2. T° after heat exchanger at -10°C, 90%RH and +22°C, 50% RH.
3. Thermal efficiency at -10°C, 90%RH and +22°C, 50% RH.
4. Sound pressure for ducted unit in free field conditions at 3m.
5. All data for composite fans variant
GENERAL TECHNICAL SPECIFICATIONS

- AIR VOLUME
  200 - 1450 m³/h
  55 - 400 l/s

- DIMENSIONS (L x W x H)
  2100 x 1150 x 435

- WEIGHT
  230 kg

- POWER CONNECTION
  1 x 230 V - 50 Hz

- RECOMMENDED FUSES
  8 A / D-10000A-AC3

- BAG FILTER FILTER CLASS EN779 (EN16890)
  F7 (ePM1 ≥ 50%) / M5 (ePM10 ≥ 50%)

- DUCT CONNECTIONS SUPPLY/EXHAUST
  Ø315

- DUCT CONNECTIONS EXTRACT/OUTDOOR
  Ø315

- OPERATING RANGE
  -20 °C … +40 °C

- EN1886 CLASSIFICATION
  T3 / TB2 / F9 / L2 / D1

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Conditions:
1. All values at 200 Pa external pressure.
2. T° after heat exchanger at -10 °C, 90% RH and +22 °C, 50% HR.
3. Thermal efficiency at -10 °C, 90% RH and +22 °C, 50% HR.
4. Sound pressure for ducted unit in free field conditions at 3 m.
5. All data for composite fans variant.
GENERAL TECHNICAL SPECIFICATIONS

- **AIR VOLUME**: 250 - 1850 m³/h 70 - 510 l/s
- **DIMENSIONS (L x W x H)**: 2100 x 1450 x 435
- **WEIGHT**: 270 kg
- **POWER CONNECTION**: 1 x 230V - 50Hz
- **RECOMMENDED FUSES**: 8A / D-10000A-AC3
- **BAG FILTER FILTER CLASS EN779 (EN16890)**: F7 (ePM1≥50%) / M5 (ePM10≥50%)
- **DUCT CONNECTIONS SUPPLY/EXHAUST**: 400 x 300
- **DUCT CONNECTIONS EXTRACT/OUTDOOR**: 800 x 300
- **OPERATING RANGE**: -20°C ... +40°C
- **EN1886 CLASSIFICATION**: T3 / TB2 / F9 / L2 / D1

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<th>SFP 1.5 kW/m³s</th>
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</table>

**Conditions:**
1. All values at 200Pa external pressure.
2. TH° after heat exchanger at -10°C, 90%RH and +22°C, 50% HR.
3. Thermal efficiency at -10°C, 90%RH and +22°C, 50% HR.
4. Sound pressure for ducted unit in free field conditions at 3m.
5. All data for composite fans variant

This document is an overview of technical specifications. Please do refer to our selection software for detailed and updated information.
DIMENSIONS (mm)

GLOBAL LP 10

---

Exhaust air
Supply air
Extract air
Outdoor air

---

TOP VIEW

Right hand version
Left hand version

KW IN
KW OUT
BA +

886508 LP 10 R
340
435
75
1950
75
2100

886508 LP 10 L
340
435
75
1950
75
2100
GENERAL TECHNICAL SPECIFICATIONS

- **AIR VOLUME**: 300 - 2200m³/h
  - 80 - 610l/s
- **DIMENSIONS (L x W x H)**: 2250 x 1550 x 510
- **WEIGHT**: 325kg
- **POWER CONNECTION**: 1 x 230V - 50Hz
- **RECOMMENDED FUSES**: 10A / D-10000A-AC3
- **BAG FILTER FILTER CLASS**: EN779 (EN16890) F7 (ePM1≥50%) / M5 (ePM10≥50%)
- **DUCT CONNECTIONS SUPPLY/EXHAUST**: 500 x 400
- **DUCT CONNECTIONS EXTRACT/OUTDOOR**: 800 x 400
- **OPERATING RANGE**: -20°C ... +40°C
- **EN1886 CLASSIFICATION**: T3 / TB2 / F9 / L2 / D1

### AIRFLOW, SFP, ABSORBED POWER, THERMAL EFFICIENCY, T° AFTER HEAT EXCHANGER, SOUND PRESSURE

<table>
<thead>
<tr>
<th>AIRFLOW (m³/h)</th>
<th>SFP (kW/m³s)</th>
<th>ABSORBED POWER (W)</th>
<th>THERMAL EFFICIENCY (%)</th>
<th>T° AFTER HEAT EXCHANGER (°C)</th>
<th>SOUND PRESSURE (dB(A))</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>1,2</td>
<td>328</td>
<td>84,5</td>
<td>18,5</td>
<td>35,0</td>
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<tr>
<td>1400</td>
<td>1,3</td>
<td>492</td>
<td>82,2</td>
<td>18,0</td>
<td>35,6</td>
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<tr>
<td>1800</td>
<td>1,5</td>
<td>723</td>
<td>80,7</td>
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<tr>
<td>2200</td>
<td>1,7</td>
<td>1059</td>
<td>79,5</td>
<td>17,3</td>
<td>40,9</td>
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**Conditions:**
1. All values at 200Pa external pressure.
2. T° after heat exchanger at -10°C, 90%RH and +22°C, 50% HR.
3. Thermal efficiency at -10°C, 90%RH and +22°C, 50% HR.
4. Sound pressure for ducted unit in free field conditions at 3m.
5. All data for composite fans variant.

This document is an overview of technical specifications. Please do refer to our selection software for detailed and updated information.
GENERAL TECHNICAL SPECIFICATIONS

- **AIR VOLUME**: 300 - 2600m³/h
  - 80 - 720l/s
- **DIMENSIONS (L x W x H)**: 2250 x 1550 x 510
- **WEIGHT**: 325kg
- **POWER CONNECTION**: 1 x 230 V - 50Hz
- **RECOMMENDED FUSES**: 10A / D-10000A-AC3
- **BAG FILTER FILTER CLASS EN779 (EN16890)**: F7 (ePM1≥50%) / M5 (ePM10≥50%)
- **DUCT CONNECTIONS SUPPLY/EXHAUST**: 500 x 400
- **DUCT CONNECTIONS EXTRACT/OUTDOOR**: 800 x 400
- **OPERATING RANGE**: -20°C...+40°C
- **EN1886 CLASSIFICATION**: T3 / TB2 / F9 / L2 / D1

### Airflow vs. Efficiency [%]

<table>
<thead>
<tr>
<th>Airflow [m³/h]</th>
<th>Efficiency [%]</th>
<th>External Pressure [Pa]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1400</td>
<td>82,2</td>
<td>35,6</td>
</tr>
<tr>
<td>1800</td>
<td>80,7</td>
<td>38,2</td>
</tr>
<tr>
<td>2200</td>
<td>79,5</td>
<td>40,9</td>
</tr>
<tr>
<td>2600</td>
<td>78,6</td>
<td>43,1</td>
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### Conditions:
1. All values at 200Pa external pressure.
2. T° after heat exchanger at -10°C, 90% RH and +22°C, 50% HR.
3. Thermal efficiency at -10°C, 90% RH and +22°C, 50% HR.
4. Sound pressure for ducted unit in free field conditions at 3m.
5. All data for composite fans variant.
GENERAL TECHNICAL SPECIFICATIONS

- AIR VOLUME
  300 - 2900 m³/h
  80 - 800 l/s

- DIMENSIONS (L x W x H)
  2250 x 1790 x 510

- WEIGHT
  360 kg

- POWER CONNECTION
  1 x 230V - 50Hz

- RECOMMENDED FUSES
  10A / D-10000A-AC3

- BAG FILTER FILTER CLASS EN779 (EN16890)
  F7 (ePM1 ≥ 50%) / M5 (ePM10 ≥ 50%)

- DUCT CONNECTIONS SUPPLY/EXHAUST
  500 x 400

- DUCT CONNECTIONS EXTRACT/OUTDOOR
  1000 x 400

- OPERATING RANGE
  -20°C ... +40°C

- EN1886 CLASSIFICATION
  T3 / TB2 / F9 / L2 / D1

---

### AIRFLOW

<table>
<thead>
<tr>
<th>AIRFLOW</th>
<th>SFP</th>
<th>ABSORBED POWER</th>
<th>THERMAL EFFICIENCY</th>
<th>T° AFTER HEAT EXCHANGER</th>
<th>SOUND PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>m³/h</td>
<td>l/s</td>
<td>kW/m³/s</td>
<td>%</td>
<td>°C</td>
<td>dB(A)</td>
</tr>
<tr>
<td>1500</td>
<td>417</td>
<td>500</td>
<td>1.1</td>
<td>82.8</td>
<td>18.8</td>
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<tr>
<td>2100</td>
<td>583</td>
<td>847</td>
<td>1.4</td>
<td>80.7</td>
<td>18.3</td>
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<tr>
<td>2500</td>
<td>694</td>
<td>1150</td>
<td>1.7</td>
<td>79.7</td>
<td>18.2</td>
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<tr>
<td>2900</td>
<td>800</td>
<td>1533</td>
<td>2.0</td>
<td>79.2</td>
<td>18.0</td>
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Conditions:
1. All values at 200Pa external pressure.
2. T° after heat exchanger at -10°C, 90%RH and +22°C, 50%HR.
3. Thermal efficiency at -10°C, 90%RH and +22°C, 50%HR.
4. Sound pressure for ducted unit in free field conditions at 3m.
5. All data for composite fans variant.
GENERAL TECHNICAL SPECIFICATIONS

- AIR VOLUME
  - 300 - 3000 m³/h
  - 80 - 900 l/s
- DIMENSIONS (L x W x H)
- WEIGHT
- POWER CONNECTION
  - 3 x 400V + N - 50Hz
- RECOMMENDED FUSES
  - A
- BAG FILTER FILTER CLASS EN779 (EN16890)
  - F7 (ePM1≥50%) / M5 (ePM10≥50%)
- DUCT CONNECTIONS SUPPLY/EXHAUST
- DUCT CONNECTIONS EXTRACT/OUTDOOR
- OPERATING RANGE
  - -20°C ... +50°C
- EN1886 CLASSIFICATION
  - T3 / TB2 / F9 / L2 / D1

<table>
<thead>
<tr>
<th>AIRFLOW</th>
<th>SFP</th>
<th>ABSORBED POWER</th>
<th>THERMAL EFFICIENCY</th>
<th>T° AFTER HEAT EXCHANGER</th>
<th>SOUND PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>m³/h</td>
<td>l/s</td>
<td>kW/m³/h</td>
<td>%</td>
<td>°C</td>
<td>dB(A)</td>
</tr>
</tbody>
</table>

Conditions:
1. All values at 200Pa external pressure.
2. T° after heat exchanger at -10°C, 90% RH and +22°C, 50% HR.
3. Thermal efficiency at -10°C, 90% RH and +22°C, 50% HR.
4. Sound pressure for ducted unit in free field conditions at 3m.
5. All data for composite fans variant

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GENERAL TECHNICAL SPECIFICATIONS

- **AIR VOLUME**: 400 - 4000 m³/h
  - 110 - 1100 l/s
- **DIMENSIONS (L x W x H)**
- **WEIGHT**
- **POWER CONNECTION**: 3 x 400V + N - 50Hz
- **RECOMMENDED FUSES**: A
- **BAG FILTER FILTER CLASS EN779 (EN16890)**: F7 (ePM1≥50%) / M5 (ePM10≥50%)
- **DUCT CONNECTIONS SUPPLY/EXHAUST**
- **DUCT CONNECTIONS EXTRACT/OUTDOOR**
- **OPERATING RANGE**: -20°C ... +50°C
- **EN1886 CLASSIFICATION**: T3 / TB2 / F9 / L2 / D1

<table>
<thead>
<tr>
<th>AIRFLOW</th>
<th>SFP</th>
<th>ABSORBED POWER</th>
<th>THERMAL EFFICIENCY</th>
<th>T° AFTER HEAT EXCHANGER</th>
<th>SOUND PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>m³/h</td>
<td>l/s</td>
<td>kW/m³/s</td>
<td>W</td>
<td>%</td>
<td>°C</td>
</tr>
</tbody>
</table>

Conditions:
1. All values at 200Pa external pressure.
2. T° after heat exchanger at -10°C, 90%RH and +22°C, 50% HR.
3. Thermal efficiency at -10°C, 90%RH and +22°C, 50% HR.
4. Sound pressure for ducted unit in free field conditions at 3m.
5. All data for composite fans variant

This document is an overview of technical specifications. Please do refer to our selection software for detailed and updated information.
The function of the filter is to keep both the air and the heat exchanger clean. To keep the plate heat exchanger clean, an M5 (EN779) / ePM10≥50% (ISO16890) filter class will suffice. Filter class of the supply air filter: F7 (EN779) / ePM1≥50% (ISO16890). Filter class of the extract air filter: M5 (EN779) / ePM10≥50% (ISO16890).

**FILTER REPLACEMENT SET**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>QD</th>
<th>Air intake</th>
<th>Extract air</th>
<th>LABEL</th>
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<tbody>
<tr>
<td>GLOBAL LP 02</td>
<td>510134</td>
<td>M5 / ePM10≥50%</td>
<td>M5 / ePM10≥50%</td>
<td>Filter kit M5/M5 Global LP 02</td>
</tr>
<tr>
<td>GLOBAL LP 02</td>
<td>510127</td>
<td>F7 / ePM1≥50%</td>
<td>M5 / ePM10≥50%</td>
<td>Filter kit M5/F7 Global LP 02</td>
</tr>
<tr>
<td>GLOBAL LP 04</td>
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<td>M5 / ePM10≥50%</td>
<td>M5 / ePM10≥50%</td>
<td>Filter kit M5/M5 Global LP 04</td>
</tr>
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<td>GLOBAL LP 04</td>
<td>510128</td>
<td>F7 / ePM1≥50%</td>
<td>M5 / ePM10≥50%</td>
<td>Filter kit M5/F7 Global LP 04</td>
</tr>
<tr>
<td>GLOBAL LP 06</td>
<td>510129</td>
<td>F7 / ePM1≥50%</td>
<td>M5 / ePM10≥50%</td>
<td>Filter kit M5/F7 Global LP 06</td>
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<td>GLOBAL LP 08</td>
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<td>F7 / ePM1≥50%</td>
<td>M5 / ePM10≥50%</td>
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<td>GLOBAL LP 10</td>
<td>510331</td>
<td>F7 / ePM1≥50%</td>
<td>M5 / ePM10≥50%</td>
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<td>510132</td>
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<td>M5 / ePM10≥50%</td>
<td>Filter kit M5/F7 Global LP 12/13</td>
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<td>F7 / ePM1≥50%</td>
<td>M5 / ePM10≥50%</td>
<td>Filter kit M5/F7 Global LP 14</td>
</tr>
<tr>
<td>GLOBAL LP 16/20</td>
<td>510134</td>
<td>F7 / ePM1≥50%</td>
<td>M5 / ePM10≥50%</td>
<td>Filter kit M5/F7 Global LP 16/20</td>
</tr>
</tbody>
</table>
MOTORISED DAMPER - CT

The CT dampers are used as shut-off dampers. Shut-off dampers are used if the air handling unit is idle during some period or if a water coil is used. The dampers are made of galvanized steel, the blades of the rectangular dampers are made of extruded aluminum. The blades have rubber seals. According EN 1751, air tightness of circular dampers is of class 2, the air tightness of rectangular dampers is of class 3.

Specification:
- Connection frame [mm]
- Duct dimensions [mm]
- None = 0
- On/off = 1
- Spring return = 2

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CID OUTLET</th>
<th>CID INLET</th>
<th>Inner dimensions</th>
<th>Outer dimensions</th>
<th>LABEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOBAL LP 02</td>
<td>882861</td>
<td>882861</td>
<td>Ø200</td>
<td>n.a.</td>
<td>CT_200</td>
</tr>
<tr>
<td>GLOBAL LP 04</td>
<td>882862</td>
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<td>Ø250</td>
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<td>882863</td>
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<td>Ø315</td>
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<td>GLOBAL LP 10</td>
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<td>360 x 260</td>
<td>440 x 340</td>
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<tr>
<td>GLOBAL LP 10</td>
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<td>760 x 260</td>
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<tr>
<td>GLOBAL LP 14</td>
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<td>960 x 360</td>
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<td>GLOBAL LP 16/20</td>
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<td>GLOBAL LP 16/20</td>
<td>883209</td>
<td></td>
<td></td>
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<td>CT40_</td>
</tr>
</tbody>
</table>

CIRCULAR ADAPTER - IRS

For units (AHU's, external coils, ...) with rectangular connections, non insulated rectangular/circular adapters are available. The adapter is fabricated in galvanized sheet metal. The circular duct connection is fitted with a rubber seal.

Specification:
- Frame outer dimensions
- Circular size

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CID OUTLET</th>
<th>CID INLET</th>
<th>DIMENSIONS</th>
<th>DUCT</th>
<th>LABEL</th>
</tr>
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<tbody>
<tr>
<td>GLOBAL LP 10</td>
<td>883183</td>
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<td>400 x 300</td>
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<td>GLOBAL LP 10</td>
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</table>
The flexible sleeves type MS20 prevents the transmission of vibrations and noise along the ventilation ductwork. The sleeve is made of fibreglass and are classified “M0” for fire resistance, “Class B” for air tightness (EN 15727 and EN 1751). The operating range is from -30°C up to +110°C and for pressures up to 2000Pa. The 20mm connection frame is made from 1mm thick galvanized steel.

**Specification:**
- Connection frame width [mm]
- Duct dimensions [mm]

### FLEXIBLE SLEEVE 20mm - MS20

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CID OUTLET</th>
<th>CID INLET</th>
<th>Inner dimensions</th>
<th>Outer dimensions</th>
<th>LABEL</th>
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</thead>
<tbody>
<tr>
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<td>883187</td>
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### FLEXIBLE SLEEVE 30mm - MS30

The flexible sleeves type MS30 prevents the transmission of vibrations and noise along the ventilation ductwork. The sleeve is made of fibreglass and are classified “M0” for fire resistance, “Class B” for air tightness (EN 15727 and EN 1751). The operating range is from -30°C up to +110°C and for pressures up to 2000Pa. The 30mm “METU” connection frame is made from 1mm thick galvanized steel.

**Specification:**
- Connection frame width [mm]
- Duct dimensions [mm]

### FLEXIBLE SLEEVE 30mm - MS30

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CID OUTLET</th>
<th>CID INLET</th>
<th>Inner dimensions</th>
<th>Outer dimensions</th>
<th>LABEL</th>
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<tbody>
<tr>
<td>GLOBAL LP 10</td>
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<td>883196</td>
<td>380 x 280</td>
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<td>883199</td>
<td>883199</td>
<td>780 x 280</td>
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<td>MS30_780-280</td>
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<tr>
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<td>883197</td>
<td>883200</td>
<td>480 x 380</td>
<td>540 x 440</td>
<td>MS30_480-380</td>
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<tr>
<td>GLOBAL LP 12/13</td>
<td>883200</td>
<td>883200</td>
<td>780 x 380</td>
<td>840 x 440</td>
<td>MS30_780-380</td>
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<tr>
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<td>883201</td>
<td>480 x 380</td>
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</tbody>
</table>
INTERNAL WATER POST HEATING - IBA

The IBA coil uses hot water for post-heating the supply air. The coil is integrated inside the unit and is located between the plate heat exchanger and the supply air duct connections. The finned-tube heat exchangers consist of copper tubes and aluminum fins with 2,5mm spacing. The male threaded pipe is made of brass. The coils are classified PN16.

Specification:

Coil type & # of rows

Coil size

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CID RIGHT</th>
<th>CID LEFT</th>
<th>VARIANT</th>
<th>Ø</th>
<th>LABEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOBAL LP 02/04</td>
<td>883224</td>
<td>883225</td>
<td>2-row heating</td>
<td>1/2&quot;</td>
<td>IBA_2H_LP 02/04</td>
</tr>
<tr>
<td>GLOBAL LP 06</td>
<td>883228</td>
<td>883229</td>
<td>2-row heating</td>
<td>1/2&quot;</td>
<td>IBA_2H_LP 06</td>
</tr>
<tr>
<td>GLOBAL LP 08/10</td>
<td>883232</td>
<td>883233</td>
<td>2-row heating</td>
<td>1/2&quot;</td>
<td>IBA_2H_LP 08/10</td>
</tr>
<tr>
<td>GLOBAL LP 12/13/14</td>
<td>883236</td>
<td>883237</td>
<td>2-row heating</td>
<td>1/2&quot;</td>
<td>IBA_2H_LP 12/13/14</td>
</tr>
<tr>
<td>GLOBAL LP 16/20</td>
<td>883240</td>
<td>883241</td>
<td>2-row heating</td>
<td>1/2&quot;</td>
<td>IBA_2H_LP 16/20</td>
</tr>
<tr>
<td>GLOBAL LP 02/04</td>
<td>883226</td>
<td>883227</td>
<td>4-row heating</td>
<td>1/2&quot;</td>
<td>IBA_4H_LP 02/04</td>
</tr>
<tr>
<td>GLOBAL LP 06</td>
<td>883230</td>
<td>883231</td>
<td>4-row heating</td>
<td>1/2&quot;</td>
<td>IBA_4H_LP 06</td>
</tr>
<tr>
<td>GLOBAL LP 08/10</td>
<td>883234</td>
<td>883235</td>
<td>4-row heating</td>
<td>1/2&quot;</td>
<td>IBA_4H_LP 08/10</td>
</tr>
<tr>
<td>GLOBAL LP 12/13/14</td>
<td>883238</td>
<td>883239</td>
<td>4-row heating</td>
<td>1/2&quot;</td>
<td>IBA_4H_LP 12/13/14</td>
</tr>
<tr>
<td>GLOBAL LP 16/20</td>
<td>883242</td>
<td>883243</td>
<td>4-row heating</td>
<td>1/2&quot;</td>
<td>IBA_4H_LP 16/20</td>
</tr>
</tbody>
</table>
EXTERNAL INSULATED CASING FOR COILS - ECA

The external insulated casings are fabricated in galvanized steel sheet. The outer sheet is painted in RAL7016. The double-skin panels contain 30mm mineral wool. The casings can be used to integrate external cooling, heating or direct expansion coils (EBA). The standard connection frame is 15mm, other connection frame types are available as an option: 20mm slip clamps, 30mm “METU” frame.

Specification:
- Duct size [mm]
- Casing size [mm]

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CID</th>
<th>DUCT</th>
<th>SIZE</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOBAL LP 02/04</td>
<td>883174</td>
<td>Ø250</td>
<td>320 x 600 x 400</td>
<td>ECA_250_02/04</td>
</tr>
<tr>
<td>GLOBAL LP 08</td>
<td>882740</td>
<td>Ø250</td>
<td></td>
<td>ECA_250_08</td>
</tr>
<tr>
<td>GLOBAL LP 10/12/13</td>
<td>882338</td>
<td>655 x 250</td>
<td></td>
<td>ECA_655-250_13</td>
</tr>
<tr>
<td>GLOBAL LP 14/16</td>
<td>882339</td>
<td>755 x 350</td>
<td></td>
<td>ECA_755-350_16</td>
</tr>
</tbody>
</table>

COILS FOR EXTERNAL INSULATED CASING - EBA

The EBA coil uses hot water for post-heating the supply air. The coil is to be integrated in an insulated casing ECA. The finned-tube heat exchangers consist of copper tubes and aluminum fins with 2,5mm spacing. The male threaded pipe is made of brass. The coils are classified PN16.

Specification:
- Function & # of rows
- Coil size

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CID 2H</th>
<th>CID 4H</th>
<th>CID 4C</th>
<th>CID DX</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOBAL LP 02/04</td>
<td>883175</td>
<td>883176</td>
<td>883177</td>
<td>883178</td>
<td>EBA_xx_02/04</td>
</tr>
<tr>
<td>GLOBAL LP 08</td>
<td>882340</td>
<td>882341</td>
<td>882342</td>
<td>882343</td>
<td>EBA_xx_08</td>
</tr>
<tr>
<td>GLOBAL LP 10/12</td>
<td>882344</td>
<td>882345</td>
<td>882346</td>
<td>882347</td>
<td>EBA_xx_10/12</td>
</tr>
<tr>
<td>GLOBAL LP 14/16</td>
<td>882348</td>
<td>882349</td>
<td>882350</td>
<td>882351</td>
<td>EBA_xx_14/16</td>
</tr>
</tbody>
</table>
INTERNAL ELECTRICAL PRE- & POST HEATING - KWin & KWout

The electrical coil is used for post-heating the supply air. The electrical coil is located between the plate heat exchanger and the supply air duct connections. There are two overheating protections, one with manual reset and one with automatic reset. All electrical connections are protected against electrocution.

Specification:

- Pre/Post heating [IN/OUT]
- Heating capacity [kW]
- Supply voltage: 1=3x400V / 0=1x230V
- Coil size

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CID</th>
<th>KWout</th>
<th>CAPACITY</th>
<th>KWin</th>
<th>POWER SUPPLY</th>
<th>LABEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOBAL LP 02</td>
<td>883210</td>
<td>883216</td>
<td>3kW</td>
<td>3kW</td>
<td>230V</td>
<td>KW_IN/OUT_03_0</td>
</tr>
<tr>
<td>GLOBAL LP 04</td>
<td>883211</td>
<td>883217</td>
<td>3kW</td>
<td>3kW</td>
<td>230V</td>
<td>KW_IN/OUT_03_0</td>
</tr>
<tr>
<td>GLOBAL LP 06</td>
<td>883212</td>
<td>883218</td>
<td>4,5kW</td>
<td>4,5kW</td>
<td>400V</td>
<td>KW_IN/OUT_4,5_1</td>
</tr>
<tr>
<td>GLOBAL LP 08</td>
<td>883213</td>
<td>883219</td>
<td>6kW</td>
<td>6kW</td>
<td>400V</td>
<td>KW_IN/OUT_06_1</td>
</tr>
<tr>
<td>GLOBAL LP 10</td>
<td>883213</td>
<td>883220</td>
<td>6kW</td>
<td>6kW</td>
<td>400V</td>
<td>KW_IN/OUT_06_1</td>
</tr>
<tr>
<td>GLOBAL LP 12/13</td>
<td>883214</td>
<td>883220</td>
<td>9kW</td>
<td>9kW</td>
<td>400V</td>
<td>KW_IN/OUT_09_1</td>
</tr>
<tr>
<td>GLOBAL LP 14</td>
<td>883214</td>
<td>883222</td>
<td>9kW</td>
<td>9kW</td>
<td>400V</td>
<td>KW_IN/OUT_09_1</td>
</tr>
<tr>
<td>GLOBAL LP 16/20</td>
<td>883215</td>
<td>883223</td>
<td></td>
<td></td>
<td>400V</td>
<td>KW_IN/OUT_????_1</td>
</tr>
</tbody>
</table>

CONDENSATE PUMP

The condensate generated by either the plate heat recovery unit or the cooling coil will use the gravitational force to flow out of the unit. If gravitational force cannot be used, an optional condensate pump is available. The condensate pump has its integrated float switch and water level alarm.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CID</th>
<th>IP Class</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOBAL LP</td>
<td>883244</td>
<td>IP68</td>
<td>12l/h</td>
</tr>
</tbody>
</table>
We make every breath count.