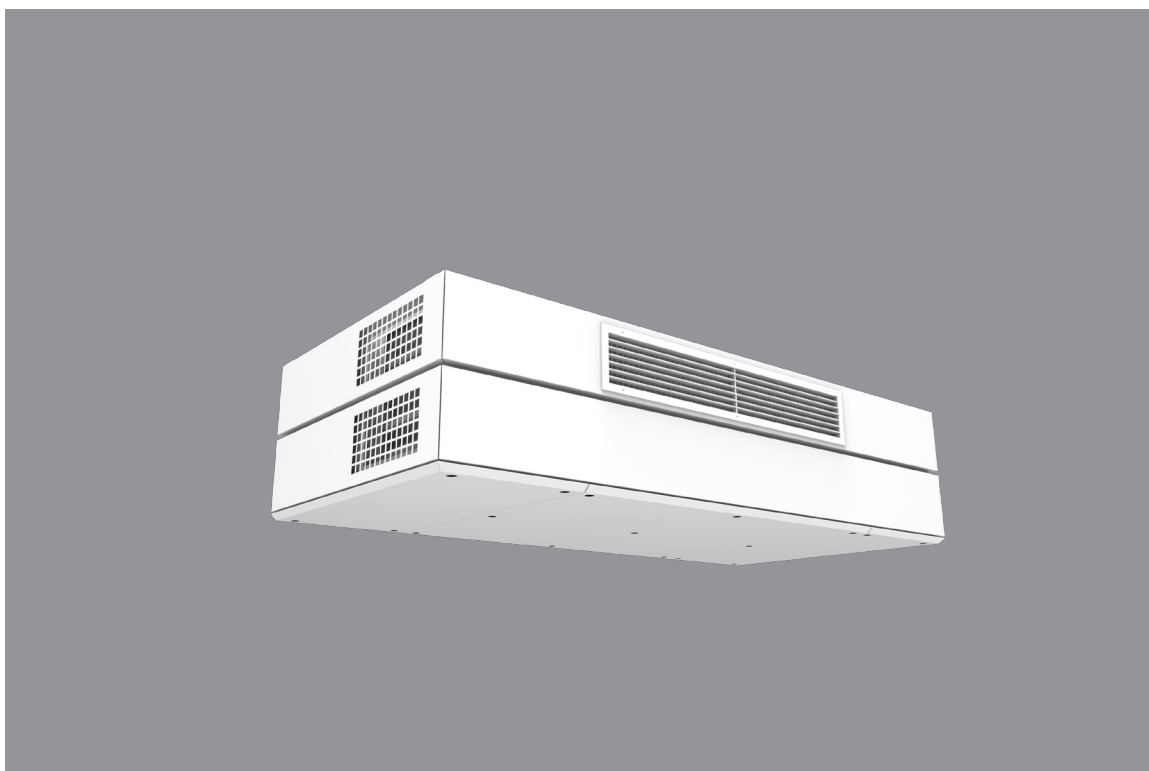


Installation Instructions

# CLASS UNIT





# CLASS UNIT

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# Disclaimer

## Danger/Warning/Caution

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- All relevant staff must acquaint themselves with these instructions before beginning any work on the unit. Any damage to the unit or its components caused by improper handling or misuse by the purchaser or the installer are not covered by the guarantee if these instructions have not been followed correctly.
- Make sure that the mains supply to the unit is disconnected before performing any maintenance or electrical work!
- All electrical connections must be made by a qualified electrician and in accordance with local rules and regulations.
- There is still risk of injury due to rotating parts that have not come to a complete standstill even though the mains supply to the unit has been disconnected.
- Beware of sharp edges during assembly and maintenance. Make sure that a proper lifting device is used. Wear protective clothing.
- The unit may only be operated with the doors and panels closed.
- If the unit is installed in a cold location make sure that all joints are covered with insulation and are well taped.
- Duct connections/duct ends should be covered during storage and installation, in order to avoid condensation inside of the unit.
- Check that there are no foreign objects in unit, ducting system or functional sections.
- The unit is packed to prevent damage of the external and internal parts of the unit, dust and moisture penetration. If the unit is not to be installed immediately, it should be stored in a clean, dry area. If stored externally, it should be adequately protected from the weather influences.
- If the filter or any other spare parts are not replaced as the original model, Swegon cannot be responsible for any damages that might occur on the unit or on all the installation.

### RANGE OF APPLICATION

The CLASS UNIT units are designed for use in comfort ventilation applications.

Depending on the variant selected, the units can be utilised in buildings such as schools, day nurseries, office, residential and public buildings, shops, etc.



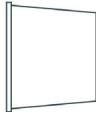


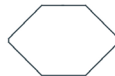












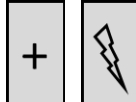

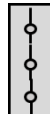
The units equipped with plate heat exchangers can also be used for the ventilation of moderately humid buildings; however not where the humidity is continuously high, such as in indoor swimming baths, saunas, spas or wellness centres.

Please do contact us if you have a need for a unit that is suited for such an application

### HOW TO READ THIS DOCUMENT

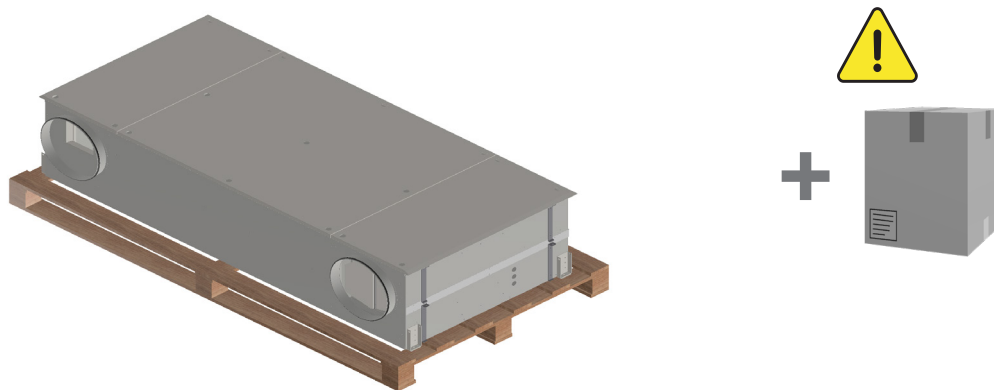
Please make sure that you have read and understood the safety precautions below. For new users, please read the chapter where the Symbols and Abbreviations.

# 1.0 Symbols and abbreviations

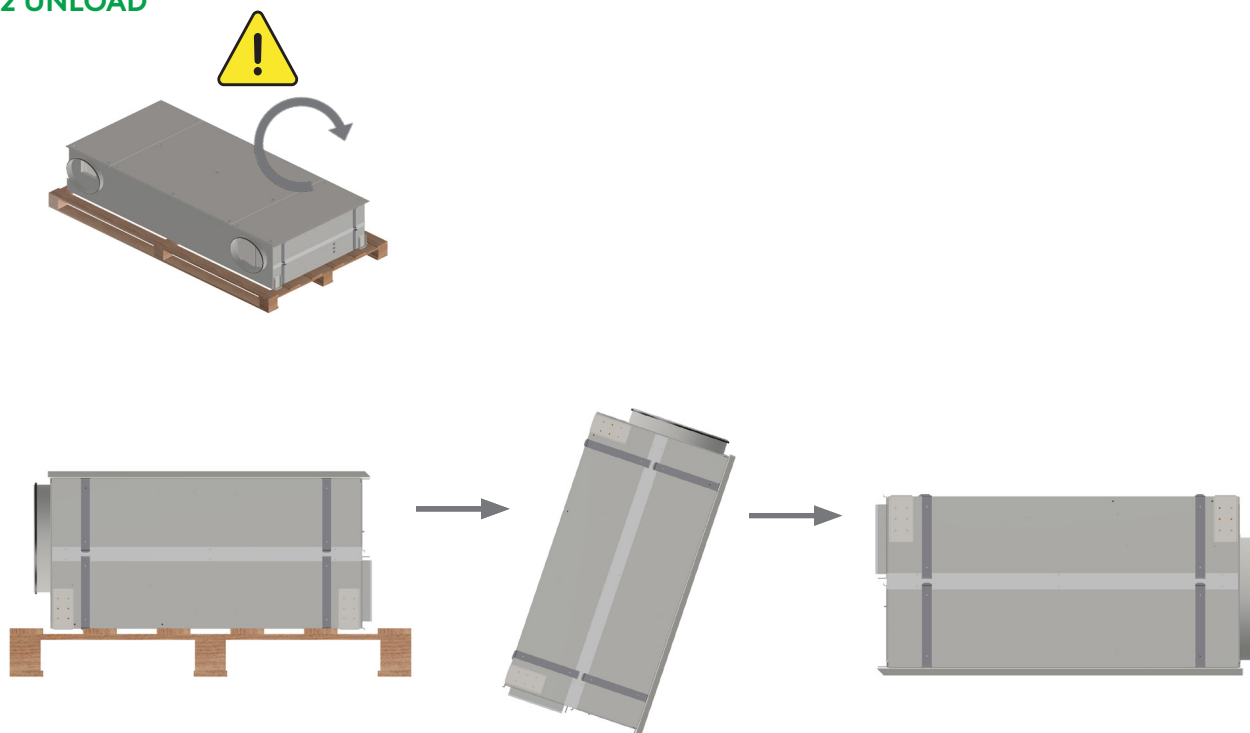
	BW	BACKWARD CURVED FAN		BW	BACKWARD CURVED FAN
	BF	BAG FILTER		PF	PLEATED FILTER
	RX	ROTARY HEAT EXCHANGER		PX	PLATE HEAT EXCHANGER
	WARNING			<p>Electronic boards contains ESD sensitive components.</p> <p>Wear antistatic wrist strap connected to protective earth before to manipulate them.</p> <p>In alternative, discharge by touching the unit, handle boards at corners only and use antistatic gloves.</p>	
	<p>Must be connected by a qualified Electrician.</p> <p>Warning! Hazardous voltage.</p>				
	OUTDOOR AIR		Air from outdoor to the AHU (OUT)		
	SUPPLY AIR		Air from the AHU to the building (SUP)		
	EXTRACT AIR		Air from the building to the AHU (ETA)		
	EXHAUST AIR		Air from the AHU to outdoor (EHA)		
	COOLING COIL	BA-		NV/KW	HEATING COIL (WATER/ELECTRICAL)
	SILENCER	GD		CTm	MOTORISED DAMPER
	PRESSURE SENSOR	P		Tx	TEMPERATURE SENSOR No = x (1,2,3...)
	SLIP CLAMP Sliding bar and screws are not included	SC		MS	FLEXIBLE CONNECTION
CIRCULAR DUCT CONNECTION		ER	For inlet	SR	For outlet

## 2.0 Unloading and transport

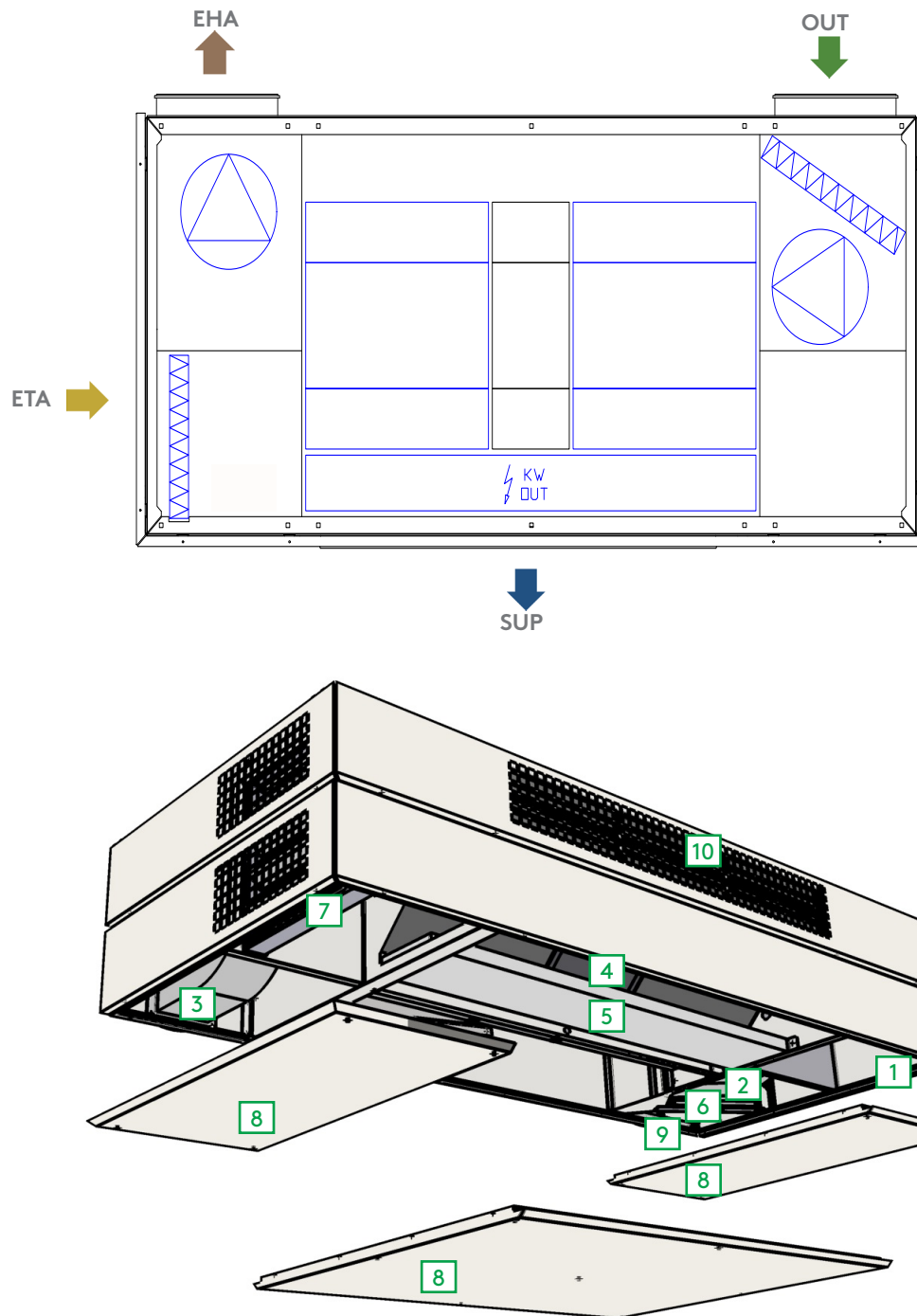
### 2.1 DELIVERY



### 2.2 UNLOAD



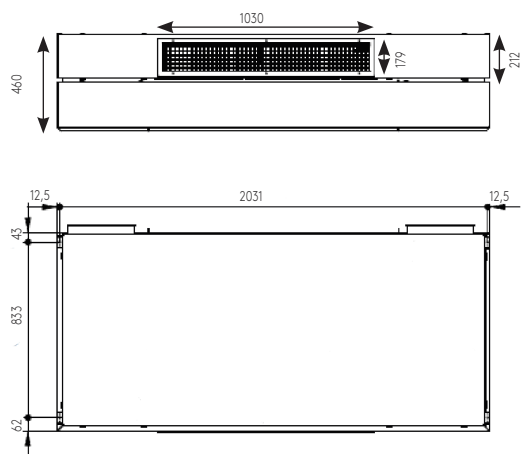
## 3.0 General Overview



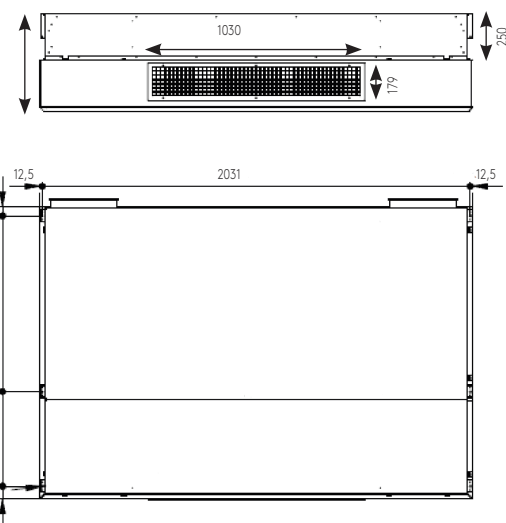
- |                                                                          |                                                |
|--------------------------------------------------------------------------|------------------------------------------------|
| 1. Centralized wiring box of the CB4 TAC5 DG circuit (factory pre-wired) | 6. GF-ePM10 50% filter at fresh air inlet      |
| 2. Supply fan                                                            | 7. GF-ePM10 50% filter on exhaust air          |
| 3. Exhaust fan                                                           | 8. Access panels                               |
| 4. Air/Air heat exchanger ( + modulating 100% by-pass)                   | 9. Air inlet damper                            |
| 5. Drain pan                                                             | 10. Internal postheating electric coil (KWout) |

### 3.1 DIMENSIONS

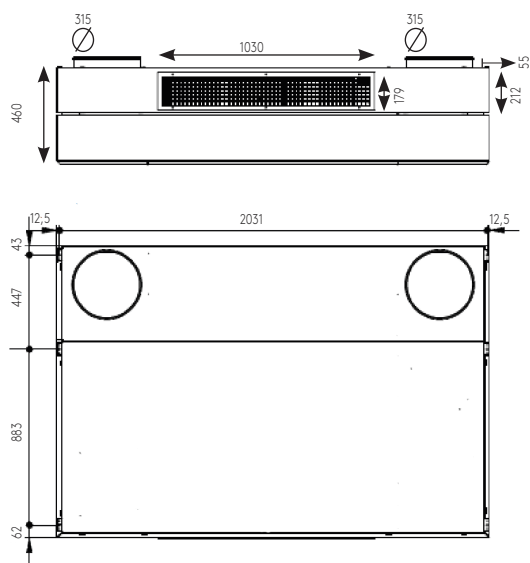
CLASS UNIT classic model



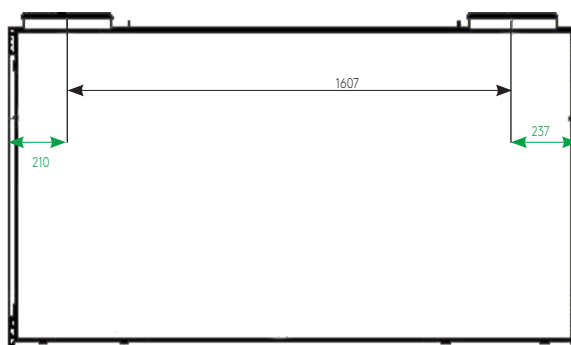
CLASS UNIT IFP model



CLASS UNIT TOP model



TOP VIEW

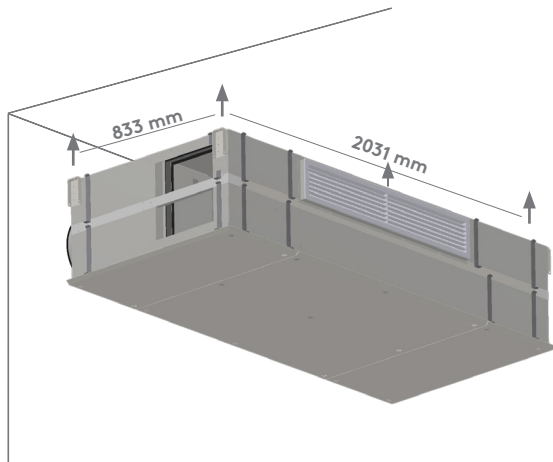




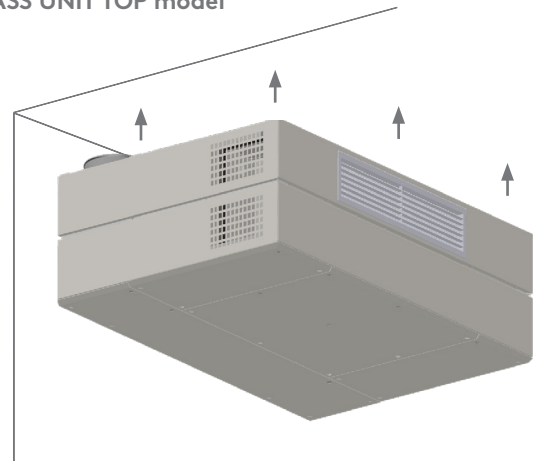
# 4.0 Installation

## 4.1 PLACEMENT

CLASS UNIT classic model

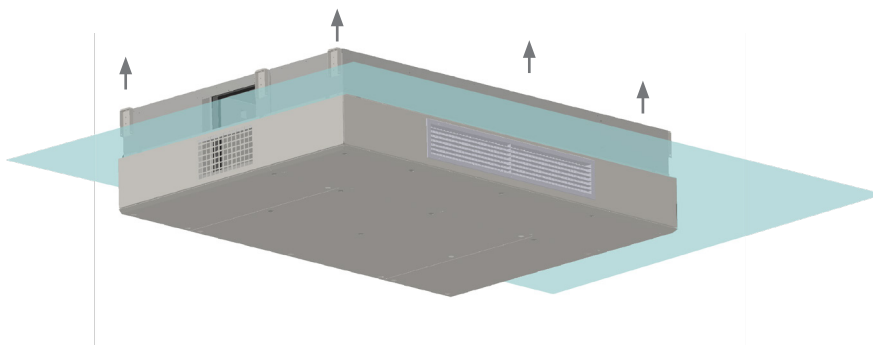


CLASS UNIT TOP model

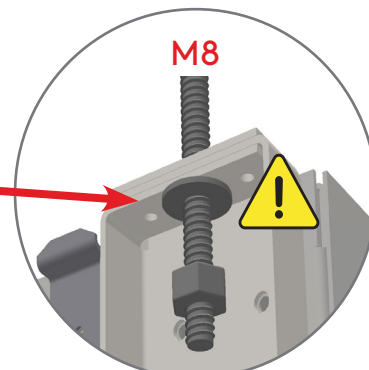
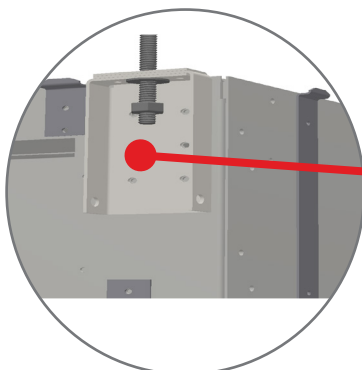
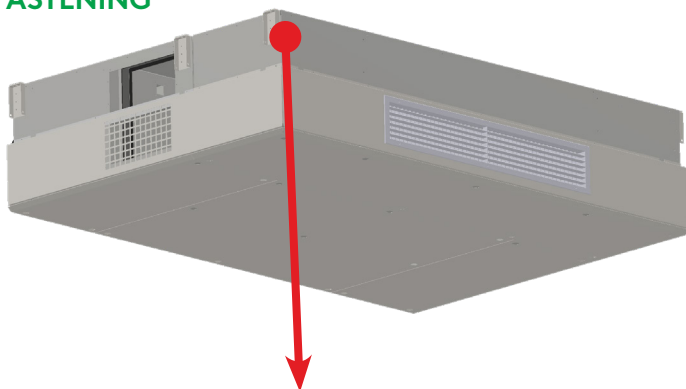


CLASS UNIT IFP model

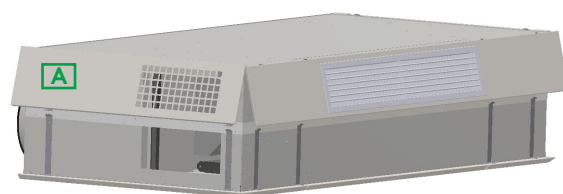
Recessed in the false ceiling



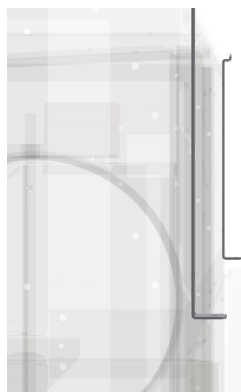
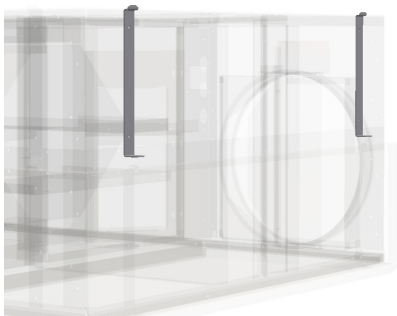
## 4.2 FASTENING



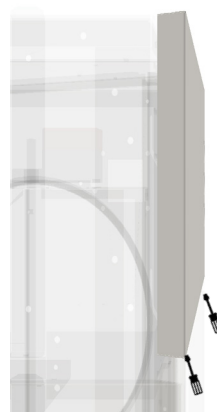
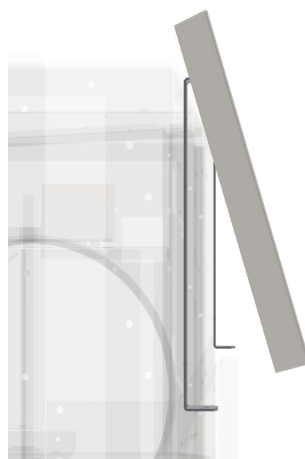
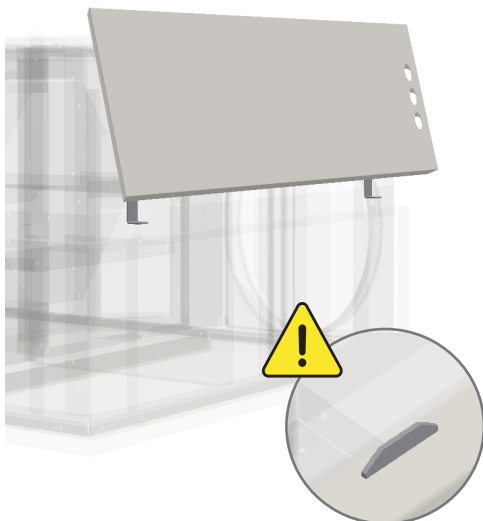
### 4.3 COVERING



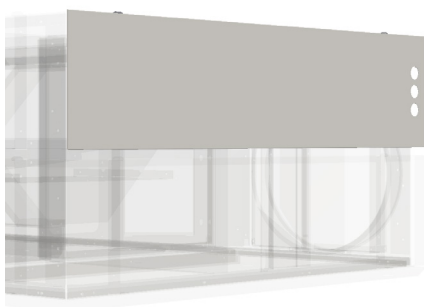
1



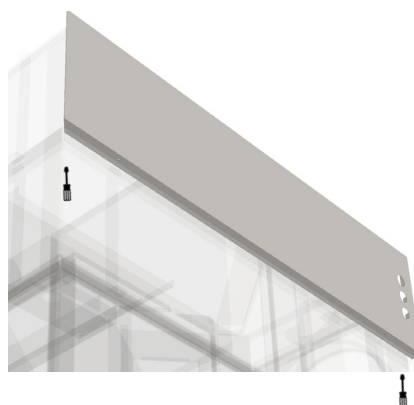
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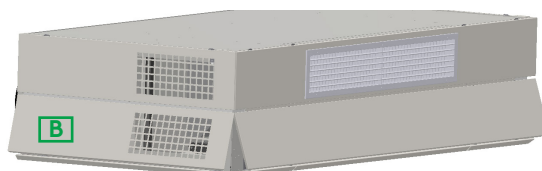
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4



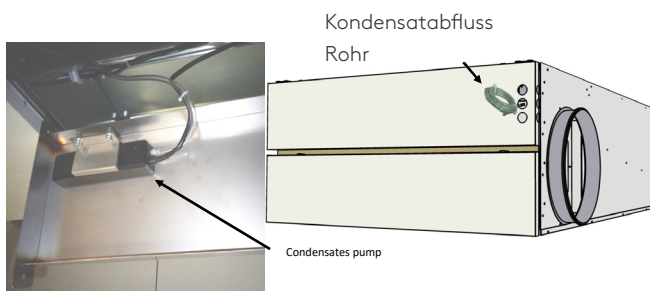
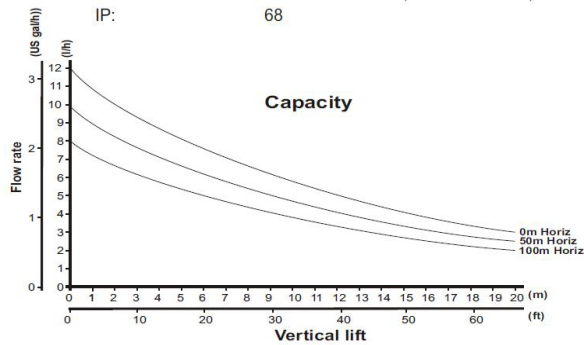
5



## 4.4 HYDRAULICAL INSTALLATION

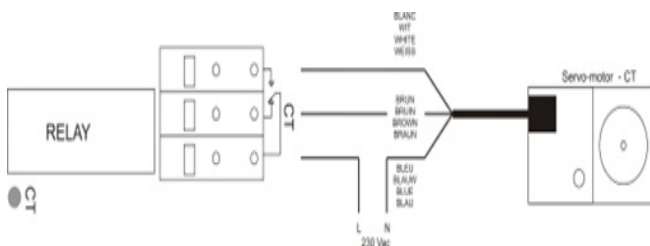
## Condensate pump

Specifications	
Power supply:	120/240 Vac, 50/60 Hz Auto sensing
Power consumption:	16 W max., 0.25 W when idle
Alarm relay:	5A, 30 Vdc, 250 Vac Break on fault
Capacity:	12 litres/hour max. (3.17 US gal/h)
Maximum head:	Vertical >20 m (65 ft), Horizontal >100 m (328 ft) Suction 1 m max. (.328 ft)
Ambient temp:	0 - 40°C
Water temp:	25°C max.
Material:	Flame retardant ABS UL94 5VA
Discharge tube:	6 mm (1/4") ID
Dimensions:	160 x 43 x 34 mm (6.3" x 1.7" x 1.3")
IP:	68



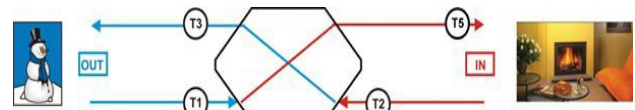
## 4.6 DAMPERS

## TAC5 DG/DT



## 4.5 ELECTRICAL CONNECTIONS

### Schematic of the T° sensors positioning in the unit (prewired)



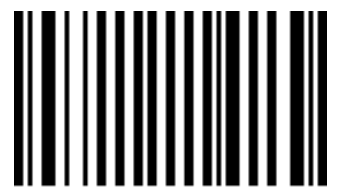
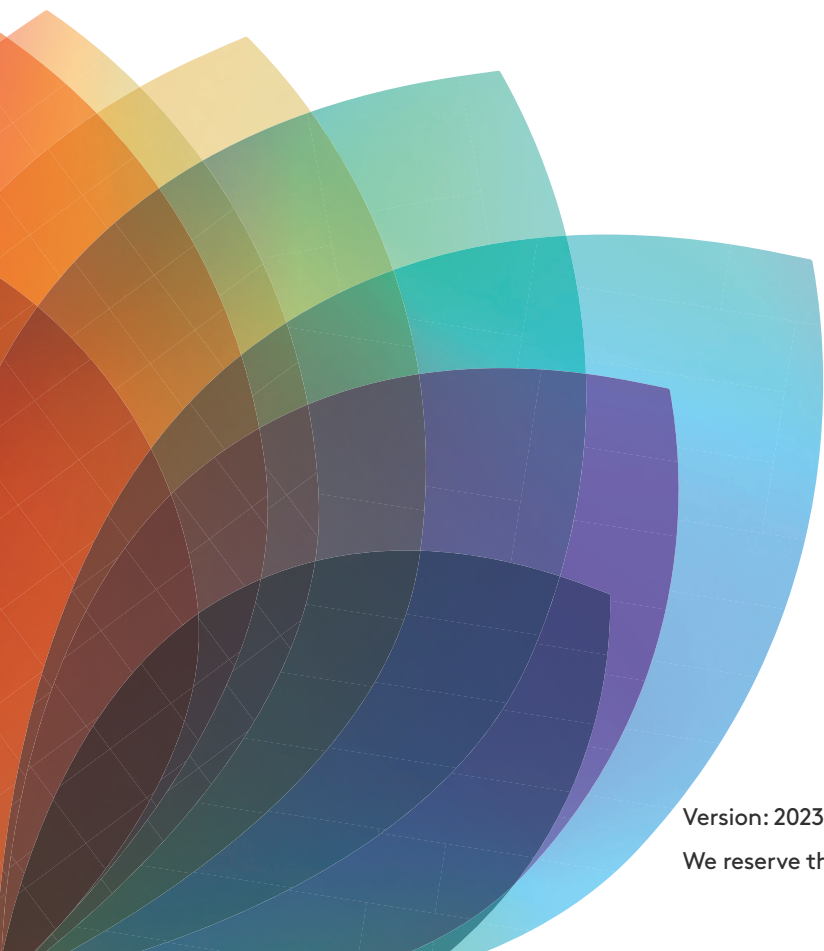
To allow easier identification of the temperature sensors 4 different wire colors are used:

- T1 : black wire
- T2 : white wire
- T3 : blue wire
- T5 : green wire

**Power supply to the fans, control devices and to the electrical post heating coil KW<sub>out</sub>**

Wiring specifications :

Supply voltage	KWout heating capacity	Maximum amps	Protection type	Protection caliber
1x 230V	3kW	16A	D-10.000A- AC3	20A



050102

Version: 20230414

We reserve the right for changes.

**Swegon** 