PACIFIC

Installation – Commissioning – Maintenance

2025-12-02
Art. 942428102

Content

The document refers to version “d”

Swegon

Installation

Dimensions

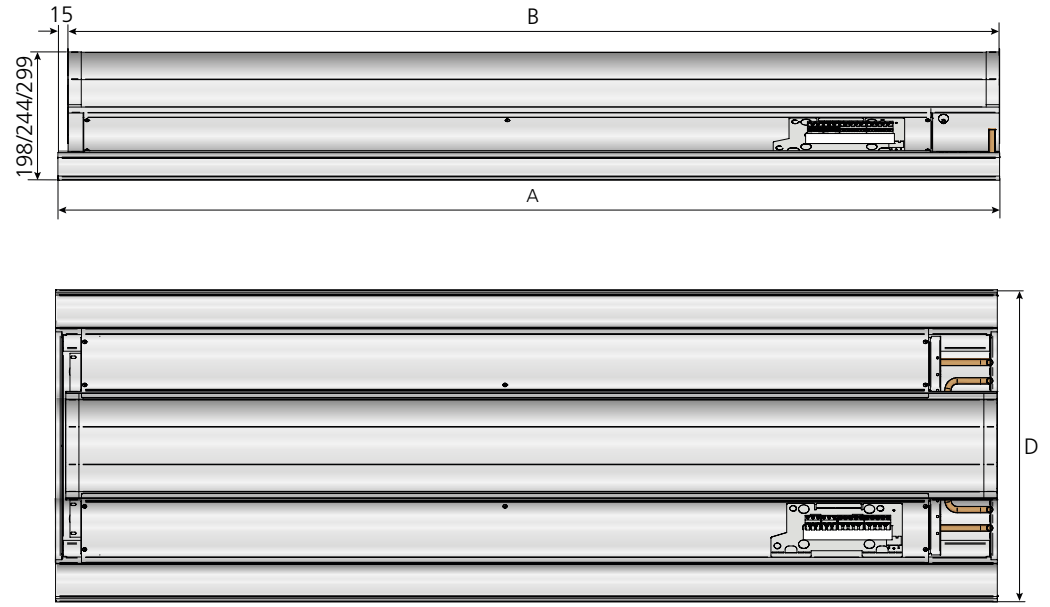


Figure 1. PACIFIC Dimension sketch - full size

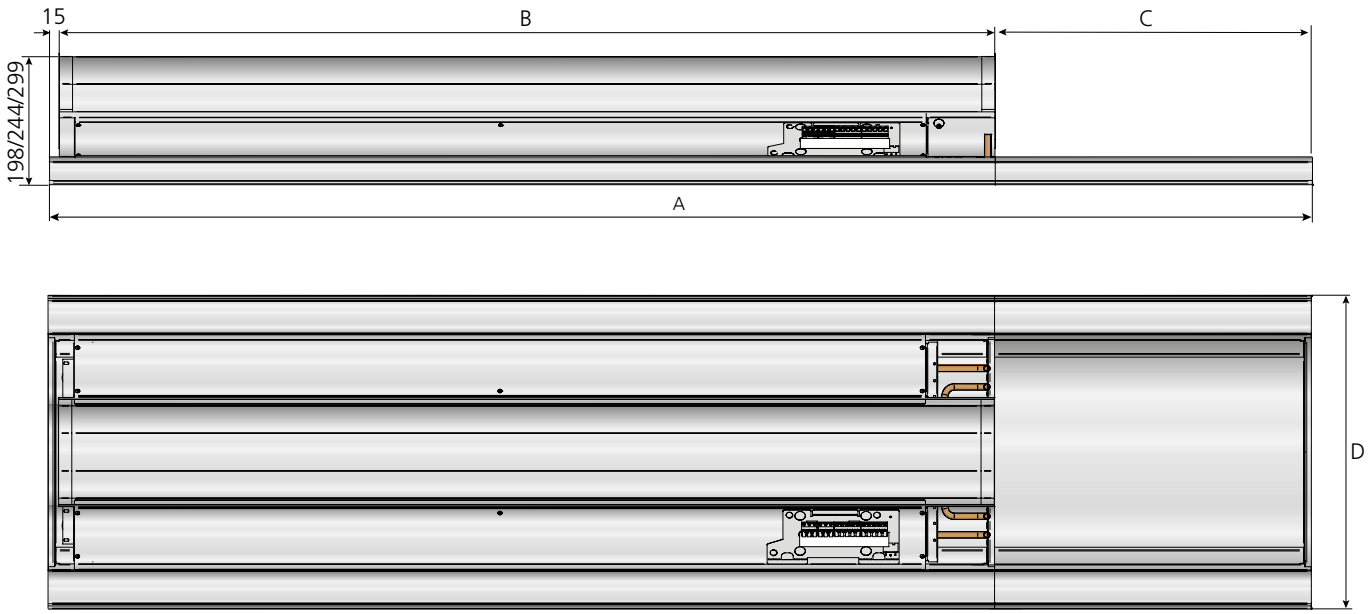


Figure 2. PACIFIC Dimension sketch - Different sizes

For design module in T-bar with 600 mm centre-to-centre

A	B	C	D
1194; 1715; 1794	1170	(1194)=24; (1715)=545; (1794)=624	594
1794; 2394	1770	(1794)=24; (2394)=624	594
2394; 2994	2370	(2394)=24; (2994)=624	594
2994	2970	(2994)=24	594

For design module in T-bar with 625 mm centre-to-centre

A	B	C	D
1242; 1867	1170	(1242)=72; (1867)=697	617
1867; 2492	1770	(1867)=97; (2492)=722	617
2492	2370	(2492)=122	617

For design module in T-bar with 675 mm centre-to-centre

A	B	C	D
1342; 2017	1170	(1342)=172; (2017)=847	667
2017; 2692	1770	(2017)=247; (2692)=922	667
2692	2370	(2692)=322	667

For design module in Clip-in ceiling and sheet metal ceiling coffers

A	B	C	D
1198; 1498; 1698; 1715; 1798	1170	(1198)=28; (1498)=328; (1698)=528; (1715)=545; (1798)=628	598
1798; 2398	1770	(1798)=28; (2398)=628	598
2398; 2998	2370	(2398)=28; (2998)=628	598
2998	2970	(2998)=28	598

Weight

Air module

Length	Air connection	Weight
(mm)	ø	(kg)
1170	125	6,38
1170	160	6,94
1170	200	7,66
1770	125	9,63
1770	160	10,36
1770	200	11,46
2370	125	12,74
2370	160	13,75
2370	200	15,11
2970	125	15,8
2970	160	17,03
2970	200	18,71

Capacity module

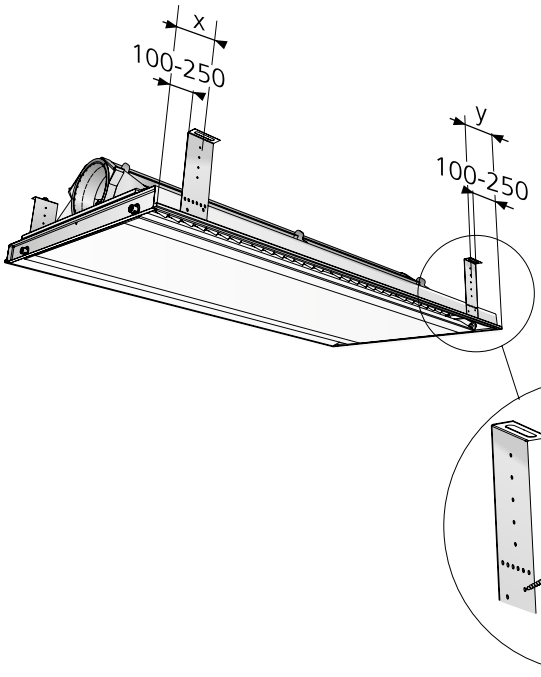
Length	Dry weight
(mm)	(kg)
1000	3,41
1000 NPT	3,79
1600	5,02
1600 NPT	5,4
2200	7,06
2200 NPT	7,44
2800	8,63
2800 NPT	9,01

Design module

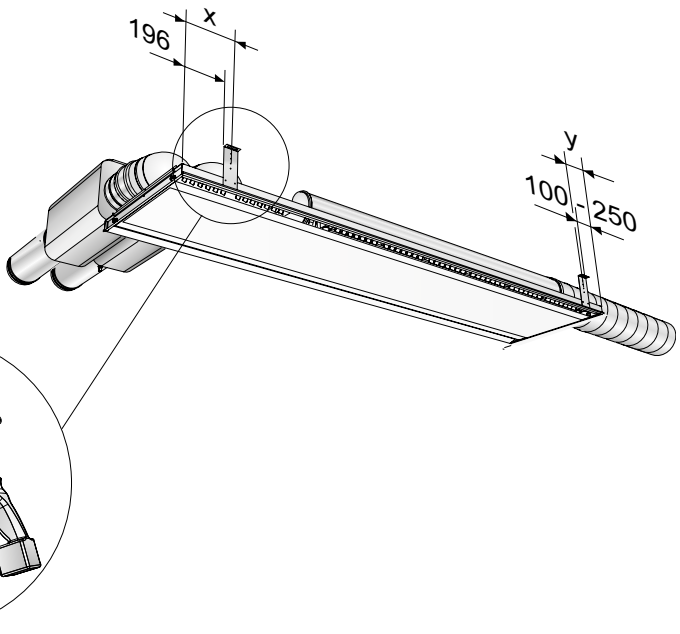
Length	Width	Weight
(mm)	(mm)	(kg)
1194	594	5,35
1794	594	7,65
2394	594	9,96
2994	594	12,27
1198	598	5,39
1798	598	7,72
2398	598	10,04
2998	598	12,36
1213	603	5,49
1823	603	7,87
2433	603	10,25
3043	603	12,63
1242	617	5,72
1867	617	8,21
2492	617	10,71
1342	667	6,55
2017	667	9,46
2692	667	12,38

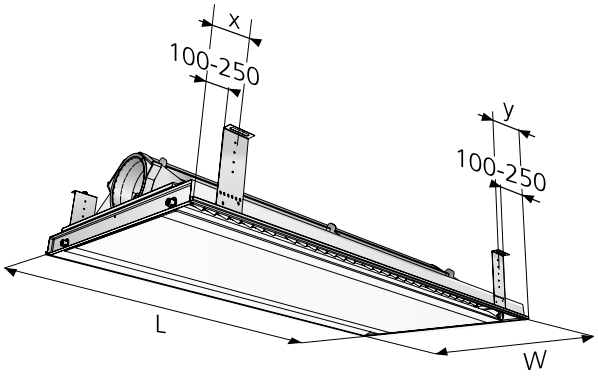
Suspension

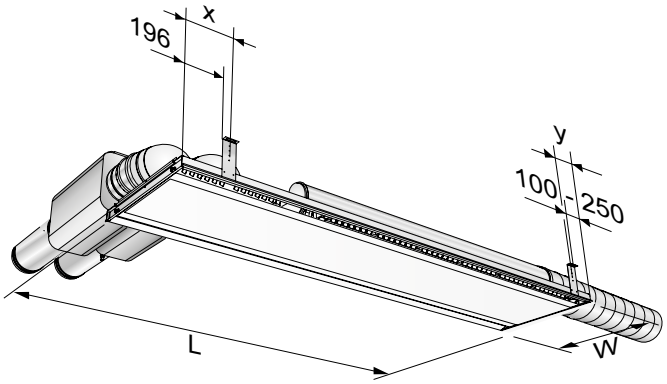
PACIFIC

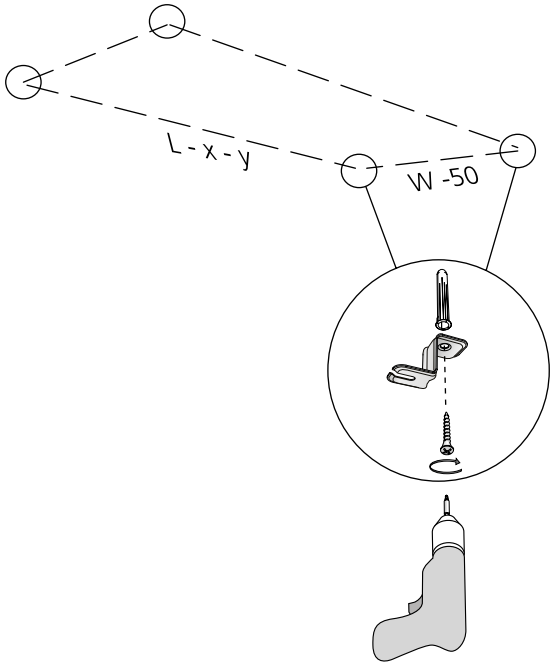


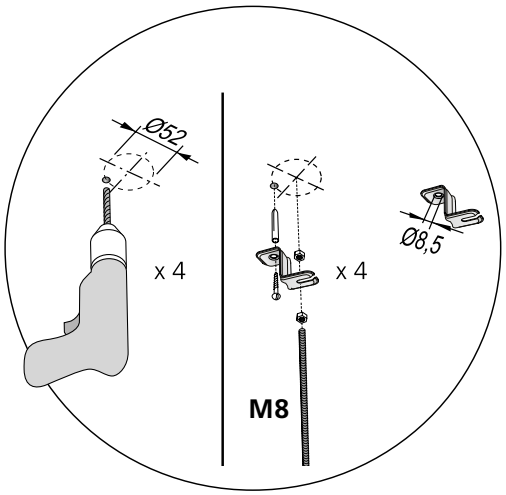
PACIFIC SA/EA

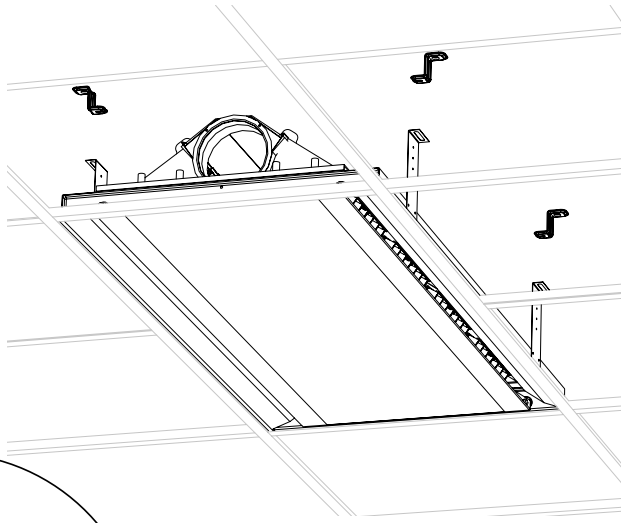


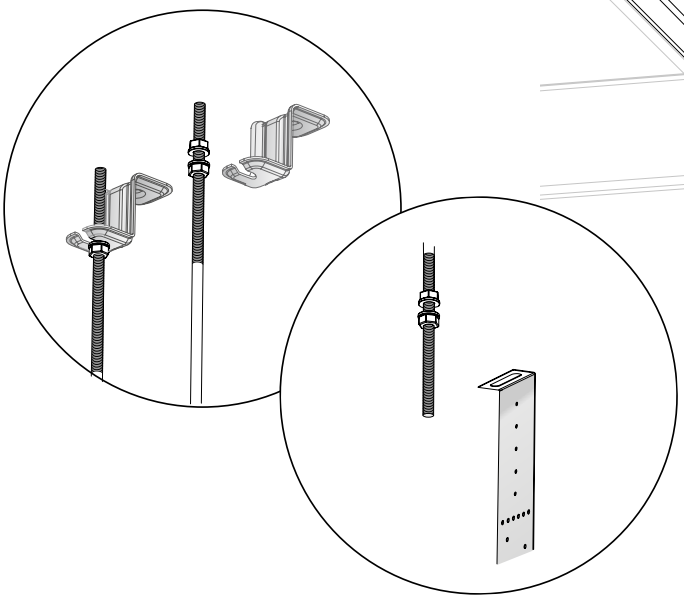


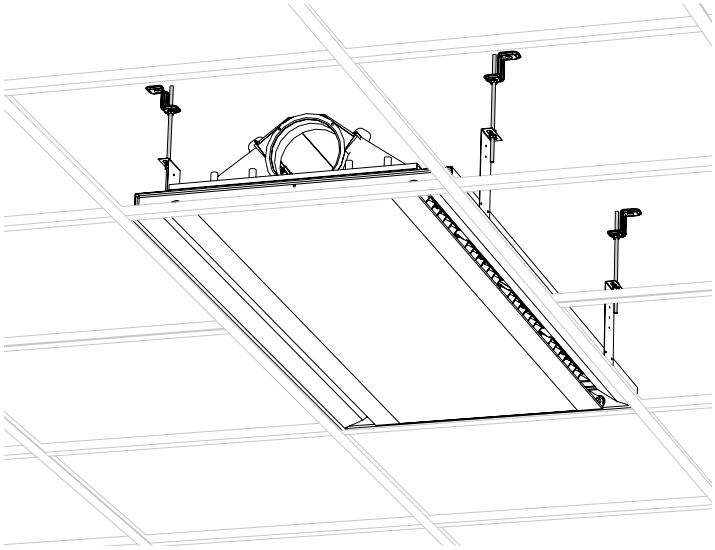





Ø52
x 4
x 4
Ø8,5
M8

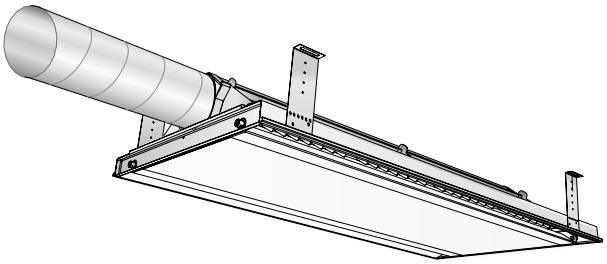




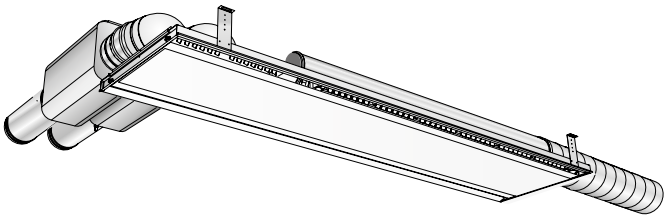


Air

PACIFIC



PACIFIC with SA/EA module



Air connection

Connection dimensions - PACIFIC

Unit *	Air connection, diameter
(mm)	Ø
1200, 1800, 2400, 3000	125, 160, 200

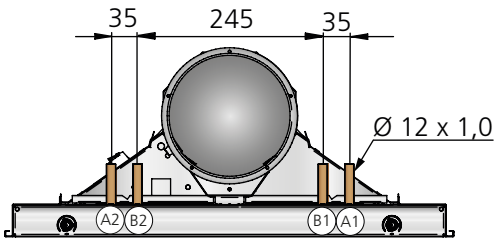
** Nominal length*

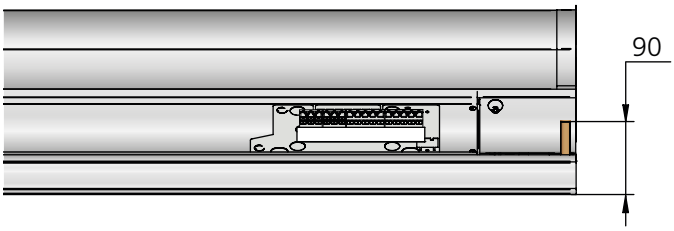
Connection dimensions - SA/EA module

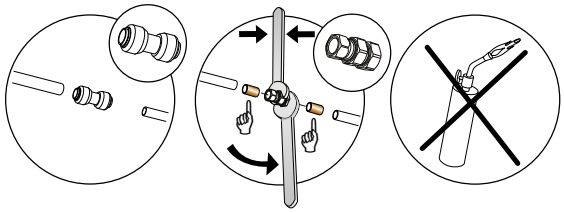
Air connection, diameter
Ø
160

Water

Water connection







N.B!
Use support sleeves inside the pipes together with compression ring couplings.

Max. recommended operating pressure: 1600 kPa
Max. permissible inlet flow temperature: 60°C

A2	B1	B2	A1
Kyla retur/ Cooling return	Värme tillopp/ Heating supply	Värme retur/ Heating return	Kyla tillopp/ Cooling supply

Water quality

Swegon recommends water quality according to VDI 2035-2 for both the heating and cooling systems. In order to maintain the oxygen content in the water below the levels (<0.1 mg/l) prescribed in VDI 2035-2, it is recommended to install a vacuum degasser, particularly in the cooling system where it's more challenging to dissolve gas. It is also important that the prepressure in the expansion vessel is dimensioned according to EN-12828 for both the heating and cooling systems and that regular checks are made of the pre-pressure. The cooling and heating systems must be designed to prevent oxygen from entering the system, this is particularly important to consider when selecting flex hose, pipes and expansion vessels. When the system is filled with fresh water, it has an oxygen content of approximately 8 mg/l, however, this oxygen is consumed quickly through corrosion processes and within a few days the oxygen in the water should be consumed. Nevertheless, it is important to avoid filling the system with fresh water unnecessarily.

Automatic deaerators are often installed to facilitate filling of the system. It is recommended that the automatic deaerators are turned off once the system has been fully vented to avoid these drawing in air in the system if the pre-pressure in the expansion vessel should drop.

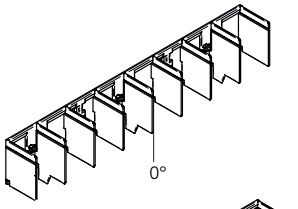
Connection sizes

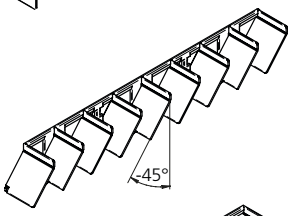
Model	Length *	Factory-fitted	Connection	Coupling type	Connection	Coupling type
Cooling only	1200, 1800	Actuator and valve	Return	DN15, male thread	Supply pipe	Plain pipe 12 x 1.0 mm
Cooling/heating	1200, 1800	Actuator and valve	Return	DN15, male thread	Supply pipe	Plain pipe 12 x 1.0 mm
Cooling only	2400, 3000	Actuator and valve	Return	DN20 external threads	Supply pipe	Plain pipe 12 x 1.0 mm
Cooling/ heating	2400, 3000	Actuator and valve	Return	DN20 external threads DN15 external threads	Supply pipe	Plain pipe 12 x 1.0 mm Plain pipe 12 x 1.0 mm
Cooling only	1200, 1800	-	Return	Plain pipe 12 x 1.0 mm	Supply pipe	Plain pipe 12 x 1.0 mm
Cooling/heating	1200, 1800	-	Return	Plain pipe 12 x 1.0 mm	Supply pipe	Plain pipe 12 x 1.0 mm
Cooling only	2400, 3000	-	Return	Plain pipe 12 x 1.0 mm	Supply pipe	Plain pipe 12 x 1.0 mm
Cooling/heating	2400, 3000	-	Return	Plain pipe 12 x 1.0 mm	Supply pipe	Plain pipe 12 x 1.0 mm

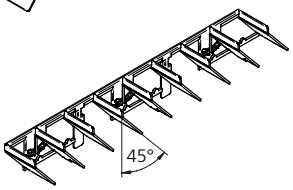
**Nominal length*

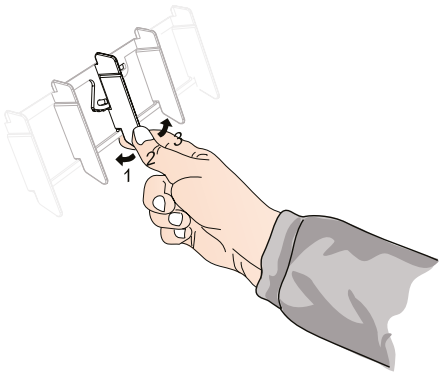
Commissioning

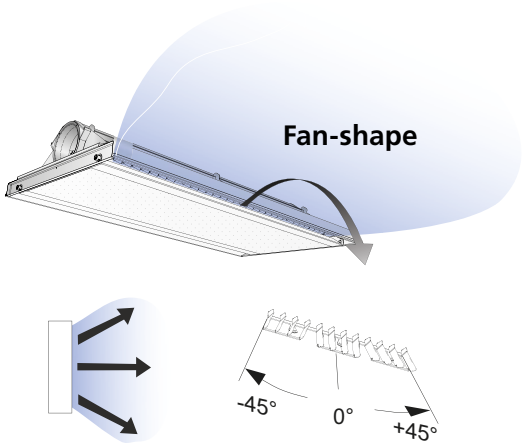
ADC

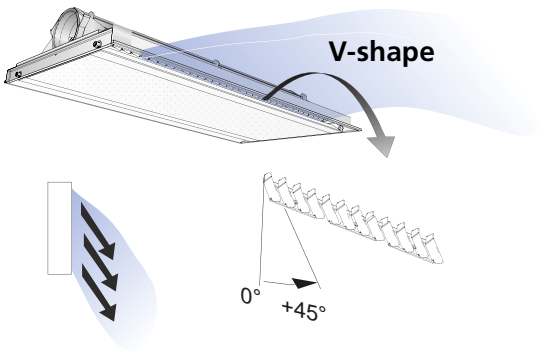


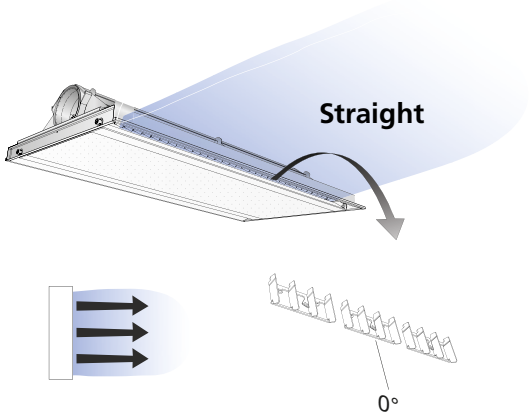












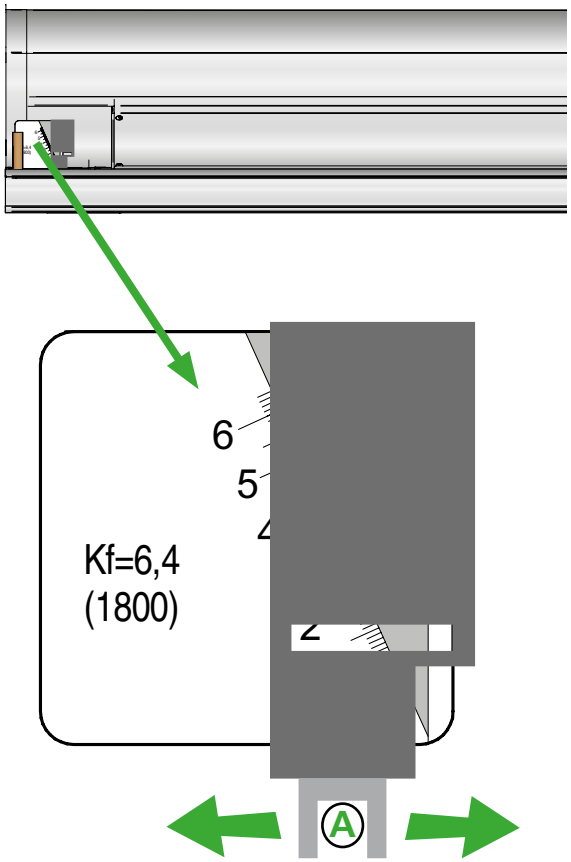
K-factor setting

Having the entire airflow available for each product size simplifies project design and future layout changes, as airflows can be adjusted using an positioning lever.

Example: To achieve the required k-factor for example PACIFIC 1800 with desired k-factor 3.0

A Pull the adjustment rod to the desired k-factor.

Product, dimensioned via Room Unit Design, comes with a default setting for the desired airflow. Swegon recommends fine-tuning during commissioning.

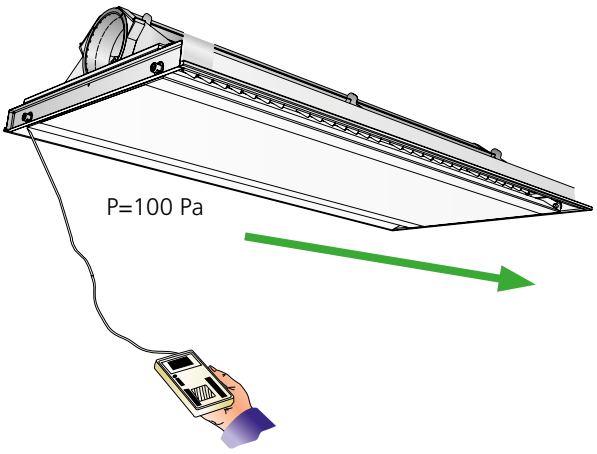


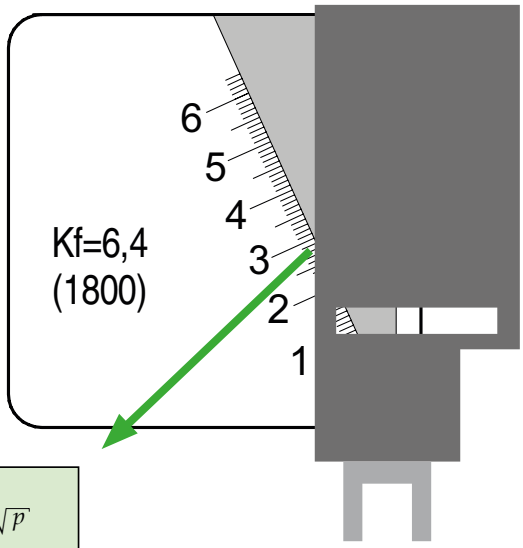
$$p_i = \left(\frac{q}{k}\right)^2 \; [Pa]$$

$$q = k \cdot \sqrt{p_i} \; [l/s]$$

$$\frac{q}{\sqrt{p_i}} = k$$

p_i [Pa]
q [l/s]
k = k-factor



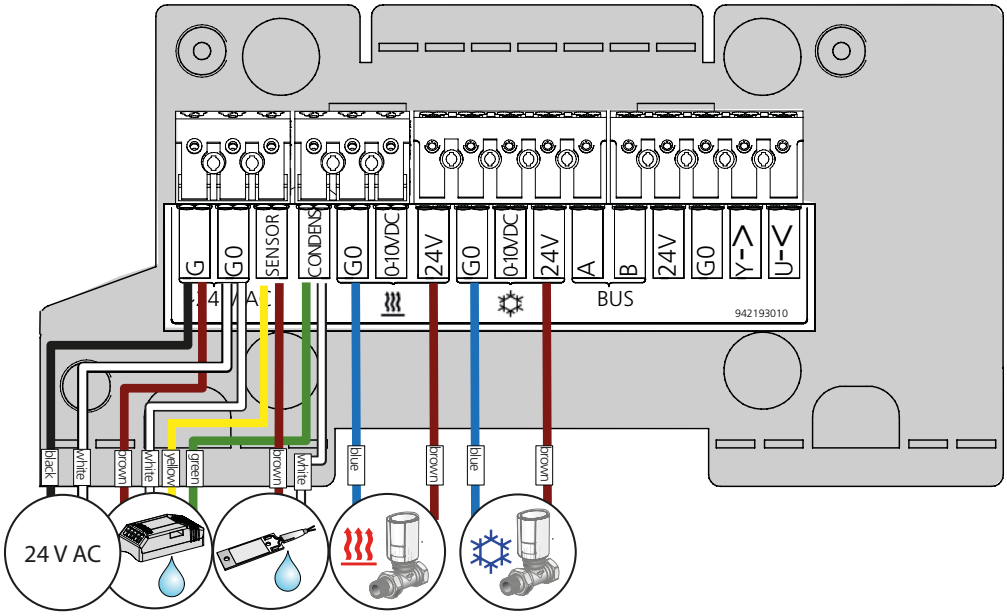


$$q = k \cdot \sqrt{p}$$

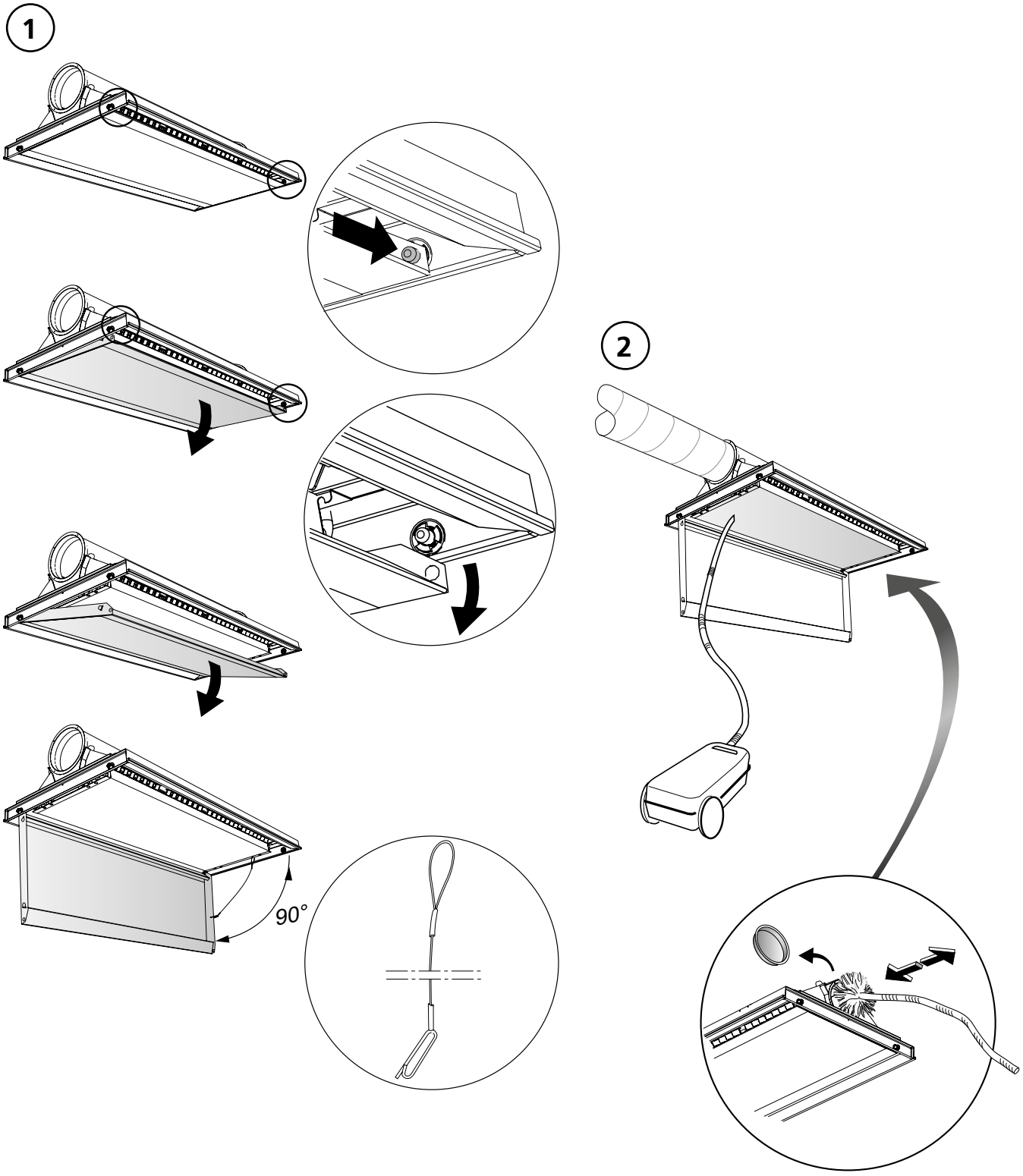
$$q = 3 \cdot \sqrt{100}$$

$$q = 30 \; l/s$$

Wiring diagram



Maintenance



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