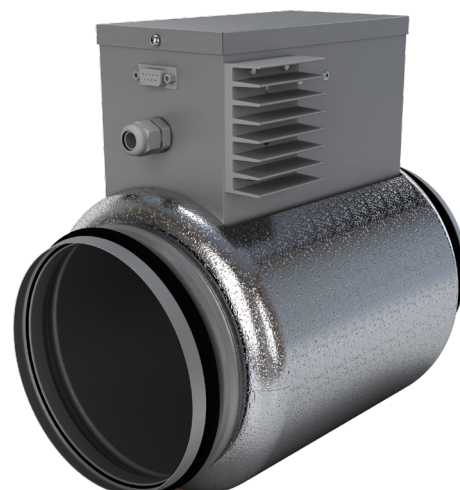


EVH

Electric duct heater for heat exchanger freeze protection

Features

- Heat exchanger freeze protection by means of preheating of the intake air.
- Maintains the duct air temperature at a point that prevents the heat exchanger freezing.
- Compatible with Ø125 up to 200 mm air ducts.



Design

- The casing is internally filled with 20 mm layer of non-flammable mineral wool.
- The casing and the junction box are made of galvanized steel.
- Heating elements are made of stainless steel.
- Airtight connection to air ducts due to rubber seals.

Control

- Equipped with a power cable.
- The signal cable for connection to the controller of the air handling unit.
- Equipped with a triac power regulator. Regulation is carried out via switching-on and switching-off the full load. Load commutation is carried out by the semiconductor device (triac). The switching unit has no wearing mechanical elements.
- Equipped with overheat thermostats:**
 - main protection with automatic restart at +50 °C;
 - emergency protection with manual restart at +90 °C.

Mounting

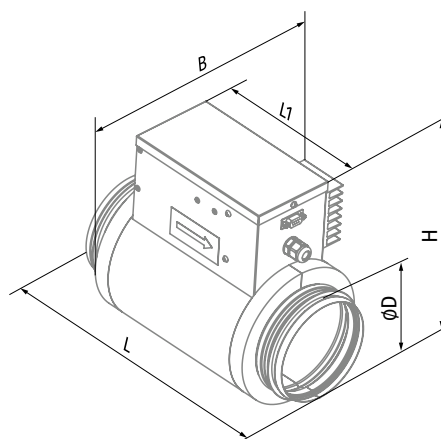
- Fixation to round air ducts by means of clamps (included in the delivery).
- In case of horizontal mounting position the control box cover must be directed upwards only. Permitted deviation up to 90°. The control box cover may not be positioned downwards!

Compatibility chart

Heater model	Unit model
EVH 125	KOMFORT unit with a Ø 125 mm spigot and S11 automation
EVH 150	KOMFORT unit with a Ø 150 mm spigot and S11 automation
EVH 160	KOMFORT unit with a Ø 160 mm spigot and S11 automation
EVH 200	KOMFORT unit with a Ø 200 mm spigot and S11 automation
EVH 125 S21	KOMFORT unit with a Ø 125 mm spigot and S21 automation
EVH 150 S21	KOMFORT unit with a Ø 150 mm spigot and S21 automation
EVH 160 S21	KOMFORT unit with a Ø 160 mm spigot and S21 automation
EVH 200 S21	KOMFORT unit with a Ø 200 mm spigot and S21 automation

Overall dimensions [mm]

Model	D	B	H	L	L1
ENH 125-0.6-1	124	155	251	306	190
ENH 125-0.8-1	124	155	251	306	190
ENH 125-1.2-1	124	155	251	306	190
ENH 150-0.8-1	149	170	282	306	190
ENH 150-1.2-1	149	170	282	306	190
ENH 150-1.7-1	149	170	282	306	190
ENH 150-2.0-1	149	170	282	306	190
ENH 160-0.8-1	159	175	293	306	190
ENH 160-1.2-1	159	175	293	306	190
ENH 160-1.7-1	159	175	293	306	190
ENH 160-2.0-1	159	175	293	306	190
ENH 200-1.2-1	199	195	337	306	190
ENH 200-1.7-1	199	195	337	306	190
ENH 200-2.0-1	199	195	337	306	190

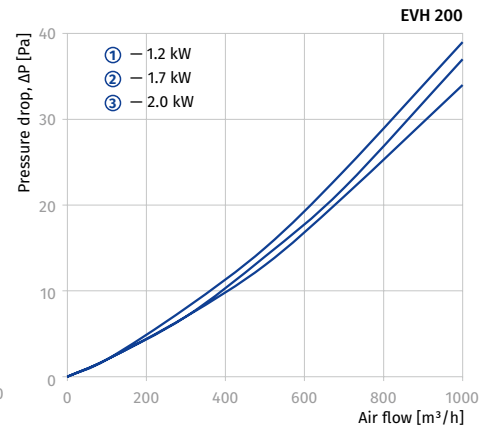
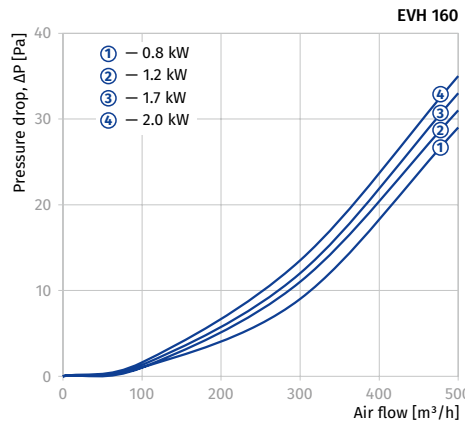
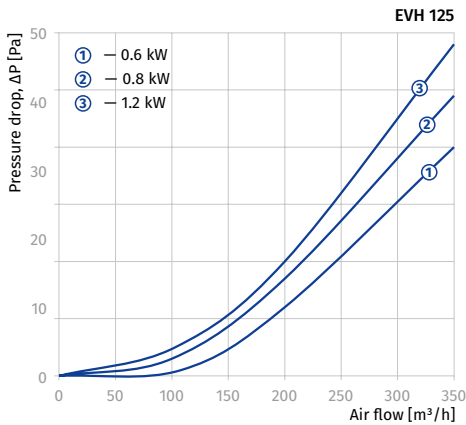


Designation key

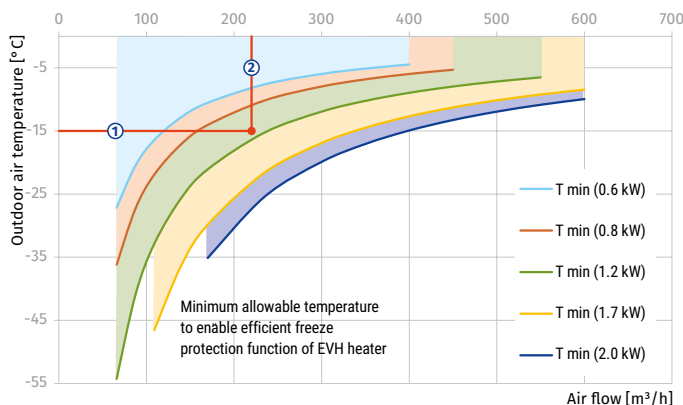
Serie	Connected air duct diameter [mm]	Heater power [kW]	Number of phases	Compatibility with automation
EVH	125; 150; 160; 200	– 0.6; 0.8; 1.2; 1.7; 2.0	– 1: single-phase	– compatible with S11 automation S21: compatible with S21 automation

Technical data

Parameters	Min. air flow [m³/h (l/s)]	Power [kW]	Current [A]	Weight [kg]
EVH 125-0.6-1	60	0.6	2.6	2.1
EVH 125-0.8-1	80	0.8	3.5	2.1
EVH 125-1.2-1	90	1.2	5.2	2.1
EVH 150-0.8-1	80	0.8	3.5	2.3
EVH 150-1.2-1	90	1.2	5.2	2.3
EVH 150-1.7-1	160	1.7	7.4	2.3
EVH 150-2.0-1	170	2.0	8.7	2.3
EVH 160-0.8-1	80	0.8	3.5	2.5
EVH 160-1.2-1	150	1.2	5.2	2.5
EVH 160-1.7-1	160	1.7	7.4	2.5
EVH 160-2.0-1	170	2.0	8.7	2.5
EVH 200-1.2-1	150	1.2	5.2	2.8
EVH 200-1.7-1	160	1.7	7.4	2.8
EVH 200-2.0-1	170	2.0	8.7	2.8



Heater capacity selection diagram



o EVH heater parameters calculation example:

- It is necessary to select EVH freeze protection heater for the KOMFORT EC SB350 S11 unit. Design outdoor air temperature in cold season is -15 °C. The rated capacity is 220 m³/h.
- Identify the interception point of the air flow line (1) with the outdoor temperature line (2). In this case the heater with the capacity of 1200 W will assure efficient freeze protection of the heat exchanger. Select the **EVH 160-1.2-1** heater with the diameter corresponding to the diameter of the spigot of the KOMFORT EC SB350 S11 unit.