

zehnder

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best climate

Zehnder ComfoBox Q

Brine/water heat pump with integrated ventilation unit



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Zehnder ComfoBox Q – all building equipment from one source



All the building equipment needed for a residential building – heating, cooling, ventilation and the preparation of hot water from a single source. Zehnder ComfoBox Q combines a brine/water heat pump and a ventilation unit in one compact energy centre.

Zehnder ComfoBox Q is extremely easy to maintain and very reliable and requires minimal space. Due to the maximum efficiency of all components it is perfectly adapted to a house with low energy consumption. Available in two different heating capacities (1–9 kW and 3–12 kW).

Benefits

- Brine/water heat pump is individually adjustable thanks to a smoothly adjustable inverter compressor
- Cooling unit with electronically controlled expansion valve
- The control console and all the necessary electronics are equipped with connection-ready wiring
- Integrated circulation pumps for brine and heating circuit, safety valves, switch valves and shut-off valves in a compact and ready-to-connect design
- Integrated electric emergency heating
- Ventilation unit Zehnder ComfoAir Q 450 or Q 600 (max 450m³/h or 600m³/h airflow), optionally available with standard heat exchanger or enthalpy exchanger
- Passive cooling
- Simple design and fast installation
- Low noise and vibration-free operation

Specifications

Model	Power	Product no.
Zehnder ComfoBox Q450 S with standard diamond heat exchanger (heat)	1–9 kW 3–12 kW	300 054 27 300 054 32
Zehnder ComfoBox Q450 E with enthalpy exchanger (heat and humidity)	1–9 kW 3–12 kW	300 054 28 300 054 33
Zehnder ComfoBox Q600 S with standard diamond heat exchanger (heat)	1–9 kW 3–12 kW	300 054 30 300 054 34
Zehnder ComfoBox Q600 E with enthalpy exchanger (heat and humidity)	1–9 kW 3–12 kW	300 054 31 300 054 35

General specifications (according to EN14511)		1–9 kW	3–12 kW
Energy efficiency	Energy efficiency class / efficiency VL 35 °C	A+++ / 195 %	A+++ / 192 %
Heating	Heating capacity B0/W35	1.3 – 11 kW	2.1 – 16 kW
	Passive cooling capacity B16/W19 - B16/W23	4 / 6.8 kW	4 / 6.8 kW
	Power factor COP B0/W35°C	4.5	4.6
	Ground probe output power B0/W35°C*	1.8 – 9.3 kW	2.5 – 12.7 kW
	Type of freezing agent	R410 A	
Electrical data of heat pump	Compressor operating voltage	3x 400 V	
	Recommended fuse 3P / N / PE / 50 Hz / 400 V	3 x 10 A	3 x 16 A
	Compressor power consumption	0.9 – 1.9 A	0.7 – 2.6 A
Electrical data of Zehnder ComfoAir Q	Recommended fuse 1P / N / PE / 50 Hz / 230 V	10 A	
Brine circuit (ΔT = 3 °C)	Min / Max temperature	-10/20 °C	
	Recommended freezing agent	Propylene glycol / water with freezing point at -17 ±2 °C	
Heating circuit (ΔT = 5 °C)	Min / Max Temperature	20/60 °C	
	Heating water quality	SWKI Guideline BT 102-01, EN 14868 and SIA 384/1	
Dimensions	Height x Width x Depth	1971 x 912 x 643 mm	
Weight	Net weight	230 kg	240 kg

* with Zehnder ComfoFond Q-Box

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