

Pre-heater electric duct heater for heat recovery units

HRQ-PRE-HDE**Description**

The HRQ-PRE-HDE pre-heater electric round duct heater is designed for installation in ventilation systems equipped with heat recovery units featuring wireless automation, serving as a preheater—it provides additional (optional) protection against the heat exchanger freezing and ensures balanced operation of the HVAC unit even during severe cold spells. The heater's housing is made of galvanized sheet metal, and the heating elements are made of stainless steel. The preheater is equipped with a dual safety thermostat—the first activates when the temperature exceeds 60°C (automatic deactivation), the second when the temperature exceeds 90°C (manual deactivation via a reset button), EPDM rubber gaskets on the connection nipples, and a 3-meter cord with a plug designed specifically for the unit. The HRQ-PRE-HDE-CO1 is additionally equipped with a contactor.

Detailed installation instructions are described in the manual of a heat recovery unit.

Available versions:

HRQ-PRE-HDE-160/200-1,5 - heater with Ø160/200 connection, heating capacity 1,5kW, powered and controlled by the unit

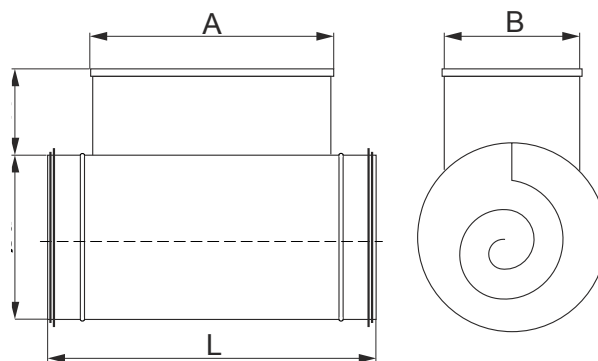
HRQ-PRE-HDE-CO1-160-2,5 - heater with Ø160 connection, heating capacity 2,5kW, single contractor, controlled by the unit, powered from the mains

HRQ-PRE-HDE-250-4,5 - a heater with Ø250 connection and a heating capacity of 4.5 kW, externally powered and controlled directly from the control panel

Product code example

Product code: HRQ-PRE-HDE - 160 - 1,5

type _____
 Ø250 _____
 power factor _____

Dimensions

Type	Ød [mm]	A [mm]	B [mm]	H [mm]	L [mm]
HRQ-PRE-HDE -160-1,5	160	280	120	110	380
HRQ-PRE-HDE -CO1-160-2,5	160	280	120	110	380
HRQ-PRE-HDE -200-1,5	200	300	160	110	400
HRQ-PRE-HDE -250-4,5	250	300	190	110	386

Technical data

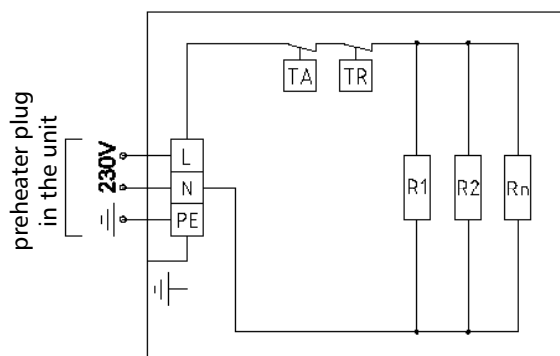
Type	Power [W]	Voltage [V]	No. of heating elements	No. of contractors
HRQ-PRE-HDE -160-1,5	1500	230	3	0
HRQ-PRE-HDE -CO1-160-2,5	2500	230	5	1
HRQ-PRE-HDE -200-1,5	1500	230	3	0
HRQ-PRE-HDE -250-4,5	4500	400	3	0

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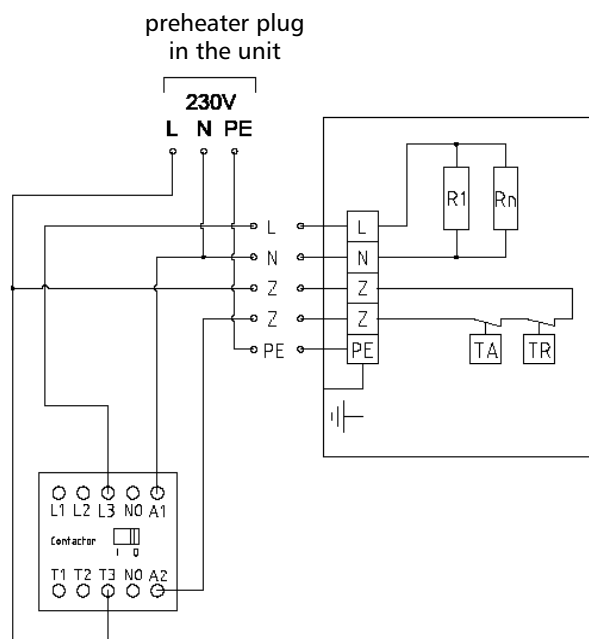
Connection diagrams

Wiring diagram for
HRQ-PRE-HDE-160-1,5/HRQ-PRE-HDE-200-1,5



L, N - 1x230V, 50Hz single phase power supply
PE - protective conductor
R1, R2...Rn - heating elements
TA - overheating protection at +60°C (auto restart)
TR - overheating protection at +90°C (manual restart)

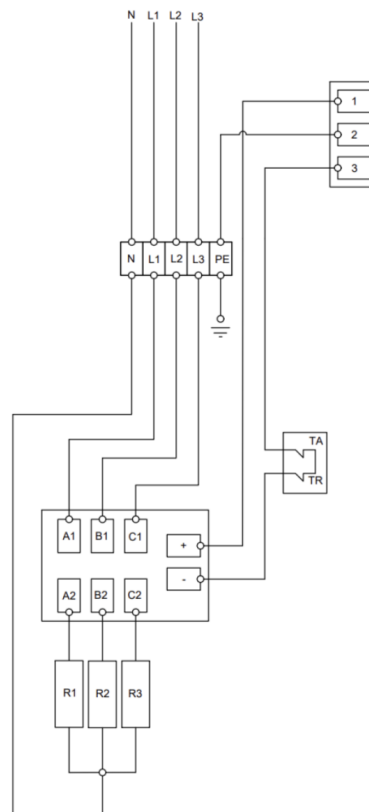
Wiring diagram for HRQ-PRE-HDE-CO1-160-2,5



L, N - 1x230V, 50Hz single phase power supply
PE - protective conductor
R1, R2...Rn - heating elements
Z-Z - overheating protection terminals
TA - overheating protection at +60°C (auto restart)
TR - overheating protection at +90°C (manual restart)

Connection drawing

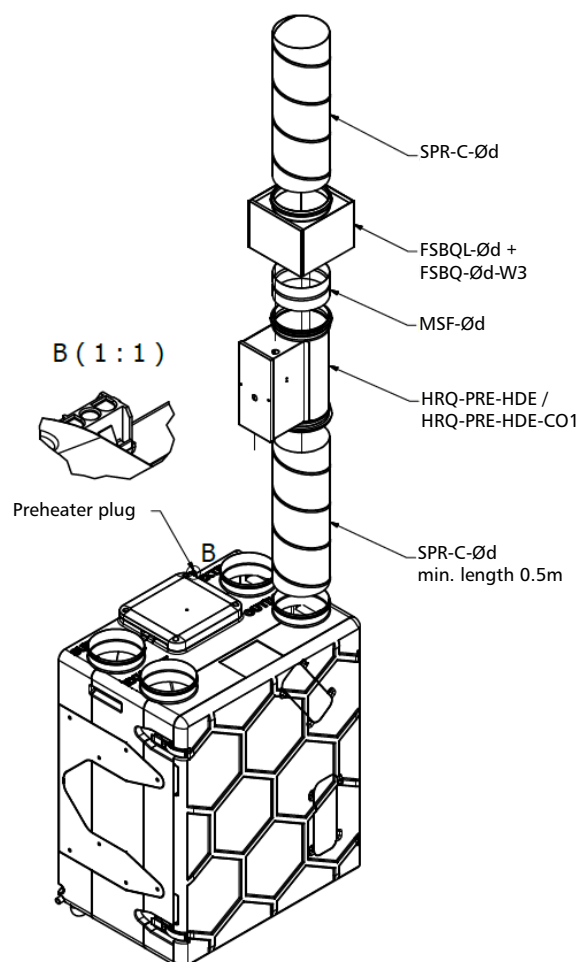
Wiring diagram for HRQ-PRE-HDE-250-4,5



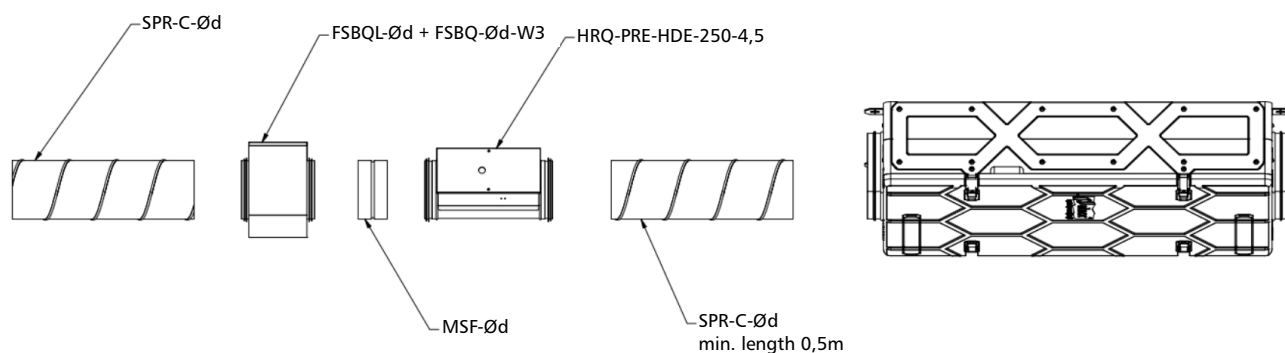
L1, L2, L3 - three-phase power supply 3x400V, 50Hz
PE - protective conductor
R1, R2... Rn - heating elements
TA - automatic temperature limiter up to +60°C (automatic reset)
TR - temperature limiter with manual reset up to +90°C (non-automatic)

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HRQ-PRE-HDE



HRU-PremAIR



HRU-SlimAIR