

## electric duct heaters for rectangular ducts PBER

Duct heaters PBER are designed for air heating inside air ducts of rectangular cross-section. The casing and switching box are made of galvanized steel sheet and heating elements are made of stainless steel. Protection class: IP 43.



### Mounting

Duct heaters should be installed so that air flow is in direction, as indicated by arrow indicator on the cover and is uniform for the whole cross-section. Recommended spacing from heater to the duct or flapper bending, etc. must be at least equal to diagonal dimension of heater. Heaters may be installed in vertical or horizontal duct. It is prohibited to supply voltage to heater when the fan is OFF.

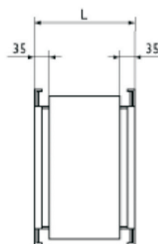
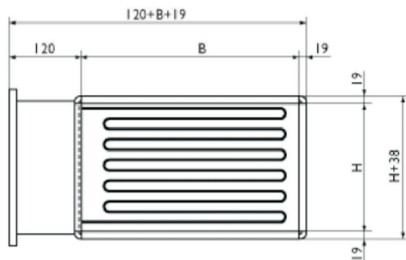
### Power regulation

It is recommended to use thyristor regulators TTC to control heating power regulation. If heater power exceeds power rating of the main regulator, use additional step regulator.

### Overheating protection

Duct heaters PBER are equipped with two thermostats for overheating protection: one with automatic restart (triggering temperature 70°C) and the other with manual (triggering temperature 120°C) restart. Duct heaters are estimated for 1.5 m/s minimum air flow rate and 40°C maximum air working temperature at the outlet.

### Dimensional data



## Technical data

Type of heater	Capacity, kw	Voltage, V	Amperage, A	Thyristor control	Dimensions, mm		Weight, kg
					D	B	
PBEC 100/0.4	0.4	230/1 phase	1.7	Pulser	100	98	2.0
PBEC 100/0.6	0.6	230/1 phase	2.6	Pulser	100	98	2.0
PBEC 125/1.2	1.2	230/1 phase	5.2	Pulser	125	105	2.5
PBEC 125/1.8	1.8	230/1 phase	2.8	Pulser	125	105	2.7
PBEC 160/1.2	1.2	230/1 phase	5.2	Pulser	160	135	3.1
PBEC 160/2.1	2.1	230/1 phase	9.1	Pulser	160	135	3.3
PBEC 160/3.0	3.0	230/1 phase	13.0	Pulser	160	160	3.7
PBEC 160/5.02	5.0	400/2 phase	12.5	Pulser	160	160	4.2
PBEC 160/5.0	5.0	400/3 phase	7.3	TTC 25	160	160	4.2
PBEC 200/1.5	1.5	230/1 phase	6.5	Pulser	200	165	3.7
PBEC 200/2.1	2.1	230/1 phase	9.1	Pulser	200	165	3.9
PBEC 200/3.0	3.0	230/1 phase	13.0	Pulser	200	165	4.2
PBEC 200/5.02	5.0	400/2 phase	12.5	Pulser	200	200	4.8
PBEC 200/6.02	6.0	400/2 phase	15.0	Pulser	200	200	5.1
PBEC 200/6.0	6.0	400/3 phase	8.7	TTC 25	200	200	5.1
PBEC 250/3.0	3.0	230/1 phase	13.0	Pulser	250	195	4.9
PBEC 250/5.02	5.0	400/2 phase	12.5	Pulser	250	250	5.5
PBEC 250/6.02	6.0	400/2 phase	15.0	Pulser	250	250	5.8
PBEC 250/6.0	6.0	400/3 phase	8.7	TTC 25	250	250	5.8
PBEC 250/9.0	9.0	400/3 phase	13.9	TTC 25	250	250	6.7
PBEC 250/12.0*	12.0	400/3 phase	18.5	TTC 25	250	250	7.6
PBEC 315/3.0	3.0	230/1 phase	13.0	Pulser	315	230	5.8
PBEC 315/6.02	6.0	400/2 phase	15.0	Pulser	315	315	6.7
PBEC 315/6.0	6.0	400/3 phase	8.7	TTC 25	315	315	6.7
PBEC 315/9.0	9.0	400/3 phase	13.9	TTC 25	315	315	7.6
PBEC 315/12.0*	12.0	400/3 phase	18.5	TTC 25	315	315	8.5
PBEC 400/6.02	6.0	400/2 phase	15.0	Pulser	400	400	7.9
PBEC 400/6.0	6.0	400/3 phase	8.7	TTC 25	400	400	7.9
PBEC 400/9.0	9.0	400/3 phase	13.9	TTC 25	400	400	8.8
PBEC 400/12.0*	12.0	400/3 phase	18.5	TTC 25	400	400	9.7

## Connection diagram

Fig. 1  
230 V, 1 phase

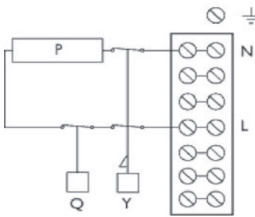


Fig. 2  
400 V, 2 phase

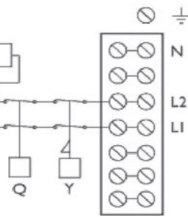
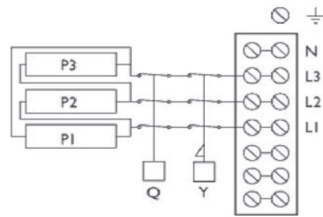
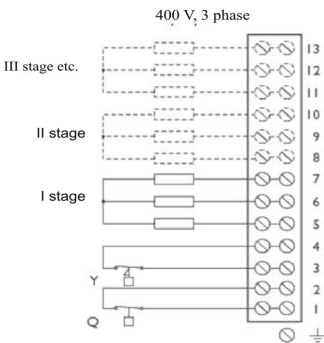


Fig. 3  
400 V, 3 phase



Q – overheating protection thermostat, triggering temperature 60°C;  
Y – spark protection thermostat, triggering temperature 120°C.

\*Fig. 3



Q – overheating protection thermostat, triggering temperature 70°C;  
Y – spark protection thermostat, triggering temperature 120°C.