

SELECTION GUIDE



finder[®]
SWITCH TO THE FUTURE

Industrial Thermoregulation

NEW

Products for panels and enclosures

7T Series - Thermo-Hygrostat
and Thermostats

7F Series - Filter Fans

7H Series - Panel Heaters



Perfect climate inside panels

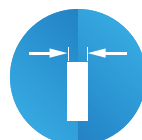
A range of products dedicated to maintaining constant temperature in control panels and enclosures.



Climate control



High precision



Compact size

Thermo-hygrostat and Thermostats

7T Series

Ensures performance of components and instrumentation in control panels and enclosures, and can prolong product life.

Filter Fans

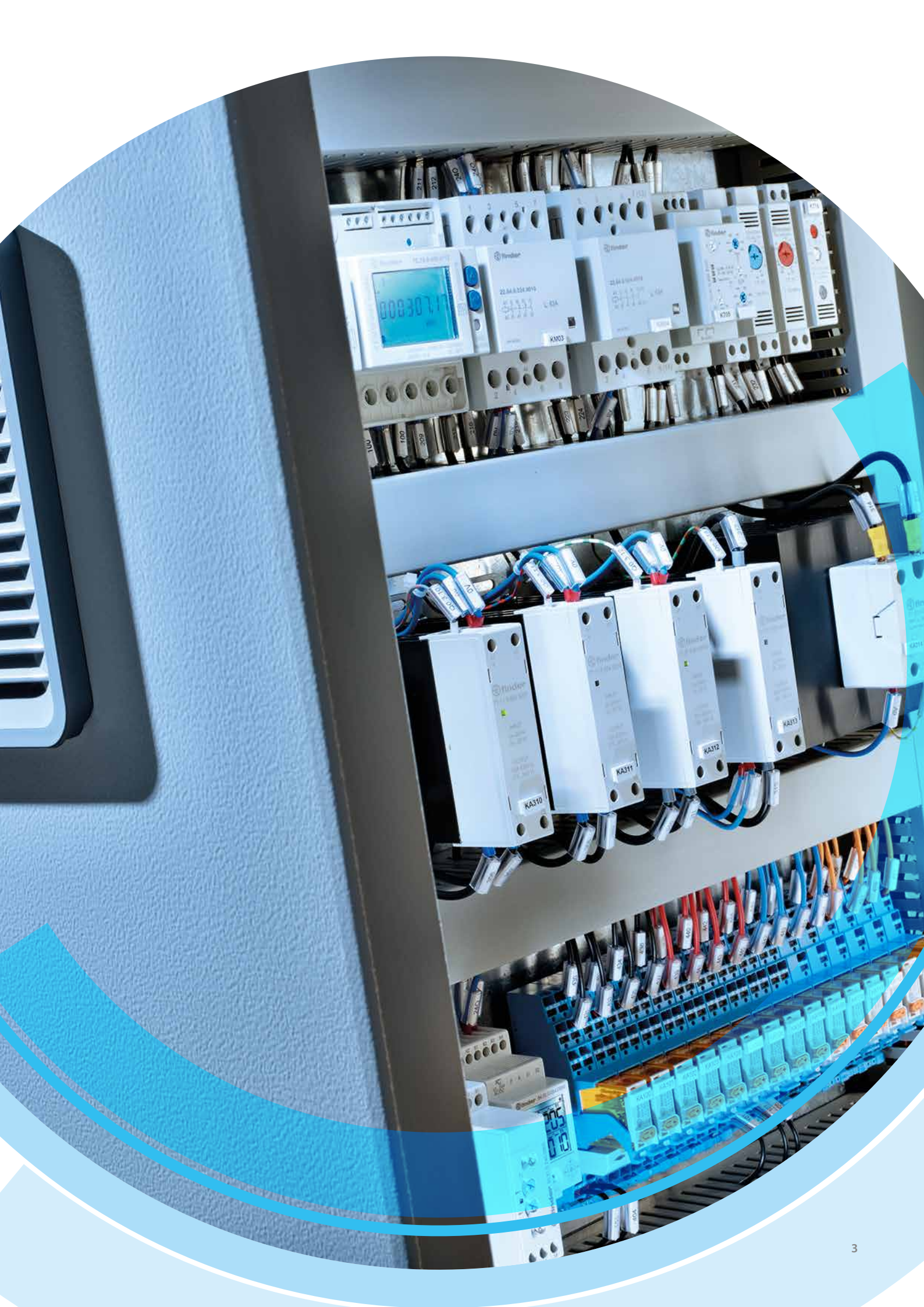
7F Series

New filter fan range to ventilate and safeguard against high enclosure temperatures.

Panel Heaters

7H Series

Prevents the formation of condensation and ensures the optimum temperature within electrical enclosures. Heating power from 50 W to 400 W.



7T Series

Panel Thermo-Hygrostat
and Thermostats

Panel Thermo-Hygrostat



Type 7T.51.0.230.4360

NEW

Electronic control
Small, compact size (17.5 mm wide)
1 NO 10 A - 250 V AC1
4 functions
Nominal voltage 110...240 V AC/DC
Temperature ranges from +10° to +60°C
Humidity range up to 90%
LED status indication contact ON

Approvals (according to type): **CE EAC**



Drying kilns



Industrial refrigeration



Road / tunnel lighting



Industrial furnaces and ovens



Automatic car-washes



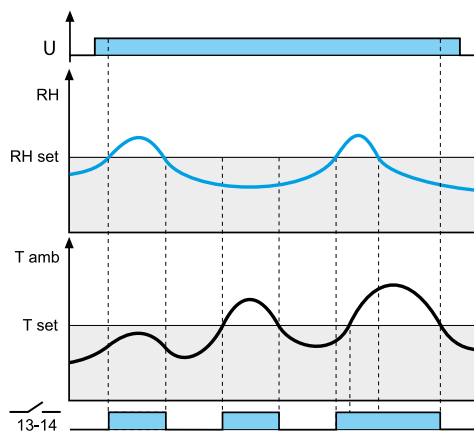
Panels for electrical distribution



Control panels



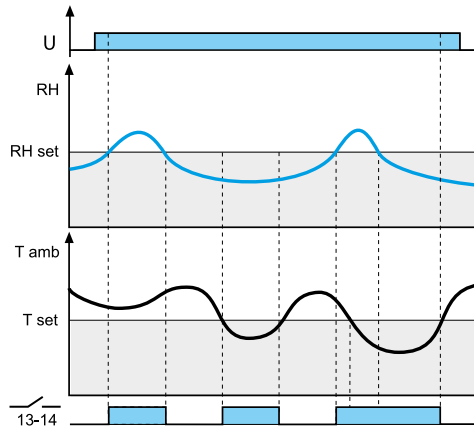
Forced-air ventilators



HT: RH > RHset OR T amb > Tset

Power is permanently applied to the thermo-hygrostat.
The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset) OR if the ambient temperature (T amb) is > of set temperature (Tset).

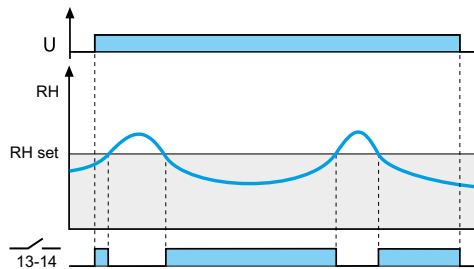
When contact is closed, LED is ON



TH: RH > RHset OR T amb < Tset

The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset) OR if the ambient temperature (T amb) is < of set temperature (Tset).

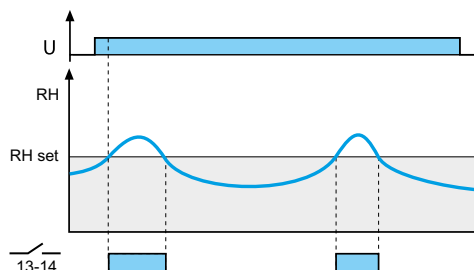
When contact is closed, LED is ON



HL: RH < RHset

The contact 13-14 closes if the ambient humidity (RH) is < of set humidity (RHset).

When contact is closed, LED is ON



HM: RH > RHset

The contact 13-14 closes if the ambient humidity (RH) is > of set humidity (RHset).

When contact is closed, LED is ON

Panel Thermostats

Small, compact size (17.5 mm wide)
 1 NC 10 A - 250 V AC1
 Snap action thermostatic Bimetal sensor
 Wide temperature setting range
 Long electrical life
 35 mm rail (EN 60715) mount

Approvals (according to type): **CE** **EAC** **UL** **CSA**



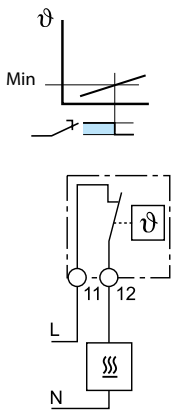
Type 7T.81.0.000.240x

Direct switching of heater loads up to 2500 VA



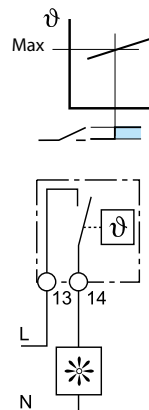
Type 7T.81.0.000.230x

Direct switching of fans up to 130 W



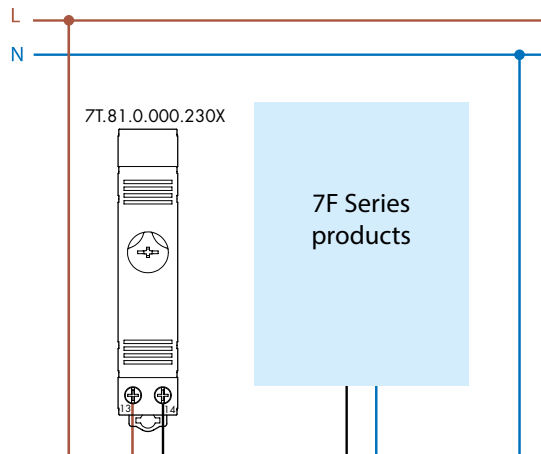
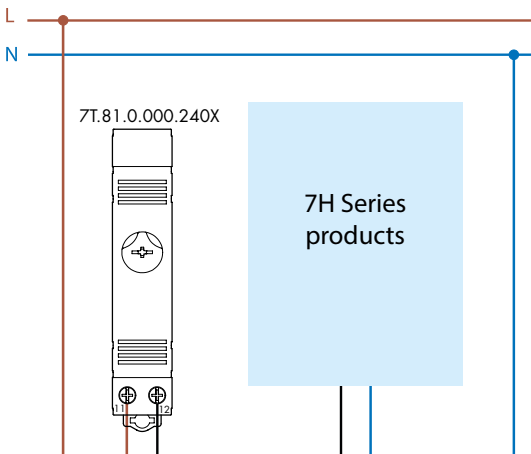
Heating control
 Should the panel temperature fall below the (minimum) set temperature the contact will close to call for heat. The contact will open when this set temperature is exceeded.

Heating: Red Dial
 Temperature ranges: -20° a +40°C
 0° a +60°C



Ventilation control
 Should the panel temperature exceed the (maximum) set temperature then the contact will close to call for cooling. The contact will open when the temperature falls below this set temperature.

Ventilation: Blue Dial
 Temperature ranges: -20° a +40°C
 0° a +60°C



7F Series

Filter Fans and
Exhaust Filters

NEW



Drying kilns



Textile machines



Machines
for paper
processing



Machines for
ceramics



Wood-
processing
machines



Panels for
electrical
distribution



Control panels



Forced-air
ventilators

Filter Fans

Easily replaceable filter mat
Minimal depth within enclosure
Air volume (24...100)m³/h
Time-saving installation and maintenance
Very low acoustic noise
Protection category IP54

Approvals (according to type):   



Type 7F.20.8.xxx.1020
Operating voltage (120 or 230)V AC
Air volume 24 m³/h
Rated power 13 W
Size 1

Type 7F.20.9.024.1020
Operating voltage 24V DC
Air volume 24 m³/h
Rated power 3.6 W
Size 1



Type 7F.20.8.xxx.2055
Operating voltage (120 or 230)V AC
Air volume 55 m³/h
Rated power 22 W
Size 2

Type 7F.20.9.024.2055
Operating voltage 24V DC
Air volume 55 m³/h
Rated power 9 W
Size 2



Type 7F.20.8.xxx.3100
Operating voltage (120 or 230)V AC
Air volume 100 m³/h
Rated power 22 W
Size 3

Type 7F.20.9.024.3100
Operating voltage 24V DC
Air volume 100 m³/h
Rated power 22 W
Size 3

Exhaust Filters

The size of the Exhaust Filter should match the size of the Filter Fan to achieve the best ventilation within the cabinet.
Time-saving installation and maintenance
Easily replaceable filter mat
Protection category IP54

Approvals (according to type):   



Type 7F.02.0.000.1000
For Filter Fans
Type 7F.20.x.xxx.1020

Size 1



Type 7F.02.0.000.2000
For Filter Fans
Type 7F.20.x.xxx.2055

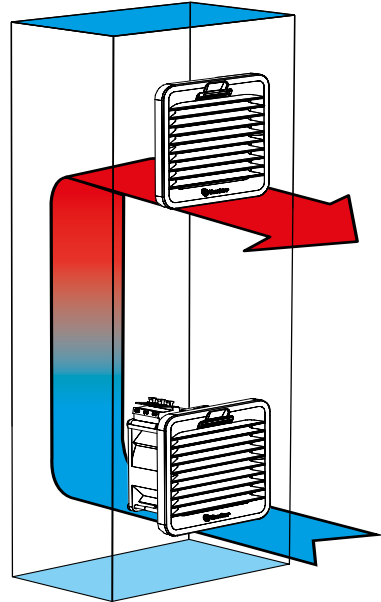
Size 2



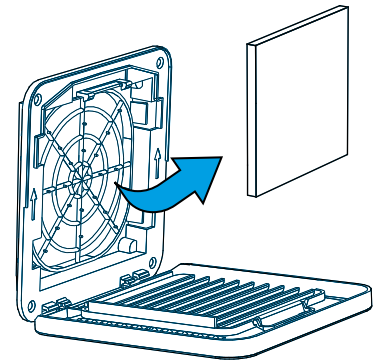
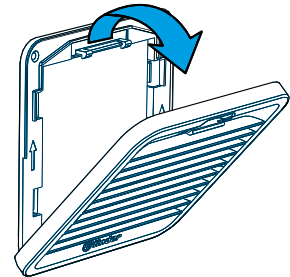
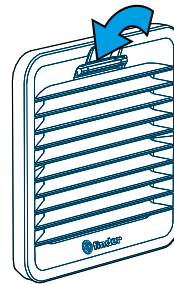
Type 7F.02.0.000.3000
For Filter Fans
Type 7F.20.x.xxx.3100

Size 3

Mounting arrangement of Filter Fan and Exhaust Filter



Replacement of Filter mat



7F Series Filter Fans

Filter Fans and
Exhaust Filters

Minimal depth within enclosure
Air volume (230...630)m³/h
Very low acoustic noise
Protection category IP54

Approvals (according to type): **CE** **cRU[®]us**



Drying kilns



Textile machines



Machines
for paper
processing



Machines for
ceramics



Wood-
processing
machines



Panels for
electrical
distribution



Control panels



Forced-air
ventilators



Type 7F.50.8.xxx.4230

Operating voltage (120 or 230)V AC
Air volume 230 m³/h
Rated power 40 W
Size 4

Type 7F.50.9.024.4230

Operating voltage 24 V DC
Air volume 230 m³/h
Rated power 26
Size 4



Type 7F.50.8.xxx.4370

Operating voltage (120 or 230)V AC
Air volume 370 m³/h
Rated power 70 W
Size 4



Type 7F.50.8.xxx.5500

Operating voltage (120 or 230)V AC
Air volume 500 m³/h
Rated power 70 W
Size 5






Type 7F.50.8.xxx.5630

Operating voltage (120 or 230)V AC
Air volume 630 m³/h
Rated power 130 W
Size 5

Exhaust Filters

The size of the Exhaust Filter should match the size of the Filter Fan to achieve the best ventilation within the cabinet.
Minimal depth within enclosure
Protection category IP54

Approvals (according to type):   



Type 7F.05.0.000.4000
For Filter Fans
Type 7F.50.x.xxx.4230 or
Type 7F.50.8.xxx.4370

Size 4



Type 7F.05.0.000.5000
For Filter Fans
Type 7F.50.8.xxx.5500 or
Type 7F.50.8.xxx.5630

Size 5

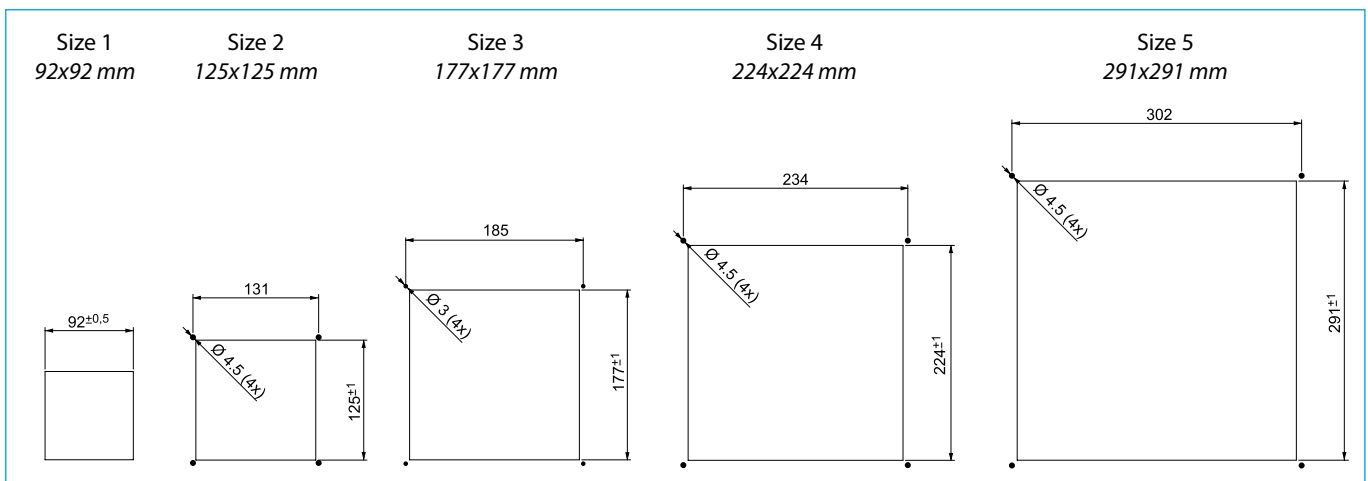
Filter Fans - Available versions

Standard versions	EMC versions	Reverse flow versions	Size
7F.20.8.120.1020	—	7F.21.8.120.1020	1
7F.20.8.120.2055	—	7F.21.8.120.2055	2
7F.20.8.120.3100	—	7F.21.8.120.3100	3
7F.50.8.120.4230	—	7F.80.8.120.4230	4
7F.50.8.120.4370	—	7F.80.8.120.4370	4
7F.50.8.120.5500	—	7F.80.8.120.5500	5
7F.50.8.120.5630	—	—	5
7F.20.8.230.1020	—	7F.21.8.230.1020	1
7F.20.8.230.2055	—	7F.21.8.230.2055	2
7F.20.8.230.3100	—	7F.21.8.230.3100	3
7F.50.8.230.4230	7F.70.8.230.4230	7F.80.8.230.4230	4
7F.50.8.230.4370	7F.70.8.230.4370	7F.80.8.230.4370	4
7F.50.8.230.5500	7F.70.8.230.5500	7F.80.8.230.5500	5
7F.50.8.230.5630	7F.70.8.230.5630	—	5
7F.20.9.024.1020	—	7F.21.9.024.1020	1
7F.20.9.024.2055	—	7F.21.9.024.2055	2
7F.20.9.024.3100	—	7F.21.9.024.3100	3
7F.50.9.024.4230	7F.70.9.024.4230	7F.80.9.024.4230	4

Components

Standard-Filter Fan	Standard-Exhaust Filter	Filter mat	Size
7F.20.8.xxx.1020	7F.02.0.000.1000	07F.15	1
7F.20.8.xxx.2055	7F.02.0.000.2000	07F.25	2
7F.20.8.xxx.3100	7F.02.0.000.3000	07F.35	3
7F.50.8.xxx.4230	7F.05.0.000.4000	07F.45	4
7F.50.8.xxx.4370	7F.05.0.000.4000	07F.45	4
7F.50.8.xxx.5500	7F.05.0.000.5000	07F.55	5
7F.50.8.xxx.5630	7F.05.0.000.5000	07F.55	5
7F.20.9.024.1020	7F.02.0.000.1000	07F.15	1
7F.20.9.024.2055	7F.02.0.000.2000	07F.25	2
7F.20.9.024.3100	7F.02.0.000.3000	07F.35	3
7F.50.9.024.4230	7F.05.0.000.4000	07F.45	4

EMC-Filter Fan	EMC-Exhaust Filter	Filter mat	Size
7F.70.8.230.4230	7F.07.0.000.4000	07F.45	4
7F.70.8.230.4370	7F.07.0.000.4000	07F.45	4
7F.70.8.230.5500	7F.07.0.000.5000	07F.55	5
7F.70.8.230.5630	7F.07.0.000.5000	07F.55	5
7F.70.9.024.4230	7F.07.0.000.4000	07F.45	4



7H Series

Panel Heaters

Panel Heaters

NEW

Nominal voltage 230 V AC
 PTC resistor, self regulating heating system
 Fan assisted heaters
 Fast wiring terminals
 Safe touch
 Clip for 35 mm rail (EN 60715) mount

Approvals (according to type): **CE** **cULus**



Drying kilns



Hoists and cranes



Road / tunnel lighting



Plastic moulding machines



Automatic car-washes



Panels for electrical distribution



Control panels



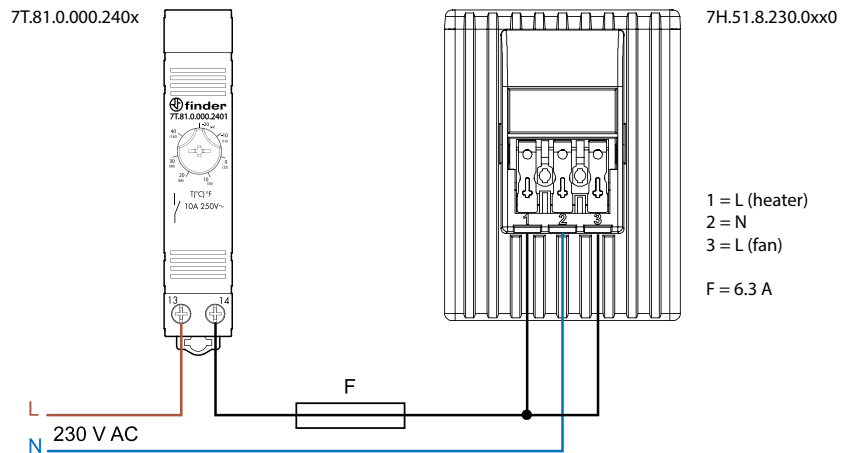
Forced-air ventilators



Type 7H.51.8.230.0250
 Heater power 250 W
 Fan assisted
 Dimensions (w x h x d): 88.2 x 28.7 x 67 mm



Type 7H.51.8.230.0400
 Heater power 400 W
 Fan assisted
 Dimensions (w x h x d): 88.2 x 28.7 x 67 mm



NOTE

Separate supply (L) terminals for the heater and the internal fan allow them to be powered independently. So, dependent on the specific situation, the installer might wish the heating element to be controlled by an upstream thermostat but require the fan to run continuously (although the latter will significantly reduce the product's life).

Panel Heaters

Nominal voltage 110...230 V AC/DC
 PTC self regulating heating system
 Screw terminals
 Safe touch
 Clip for 35 mm rail (EN 60715) mount

Approvals (according to type): **CE** **cRA**[®] **US**



Type 7H.51.0.230.0025
 Heater power 25 W



Type 7H.51.0.230.0100
 Heater power 100 W
 Dimensions (w x h x d): 70 x 140 x 63 mm

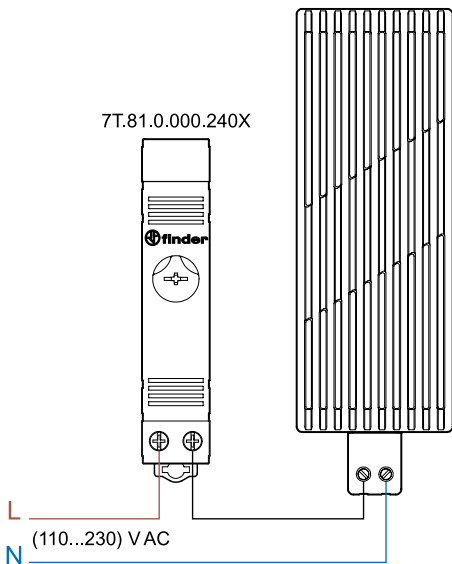


Type 7H.51.0.230.0150
 Heater power 150 W
 Dimensions (w x h x d): 70 x 220 x 63 mm

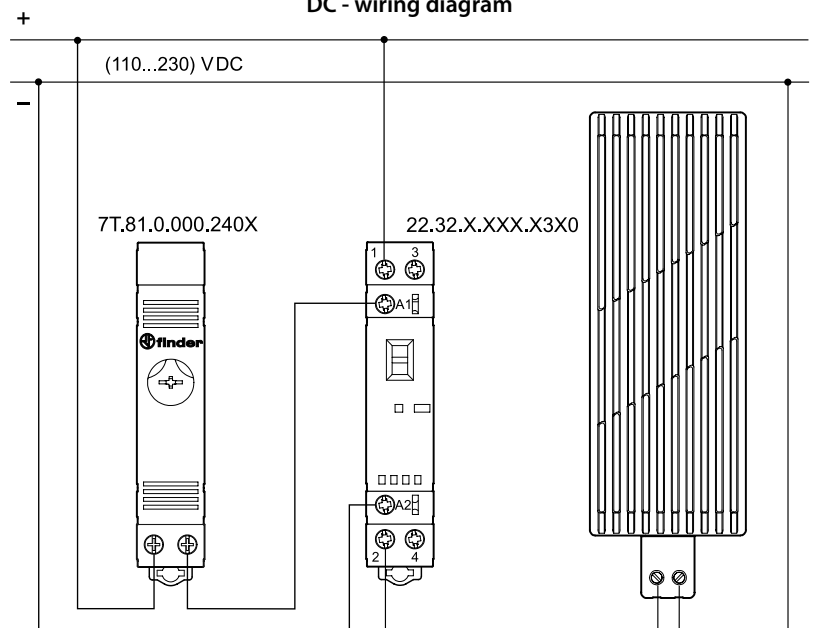
Type 7H.51.0.230.0050
 Heater power 50 W

Dimensions (w x h x d): 41 x 125 x 41 mm

AC - wiring diagram



DC - wiring diagram



Finder in the world



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