

SELECTION GUIDE

Industrial Thermoregulation products and accessories for electrical panels

7T Series - Thermo-Hygrostats and Thermostats

7F Series - Filter Fans

7H Series - Panel Heaters

7L Series - LED panel lights

9D Series - High Current Terminal Blocks



ABOUT US



Founded in Italy in 1954, **Finder** has been designing and manufacturing a wide range of electromechanical and electronic components for the residential and industrial sectors. Today, thanks to a global vision, Finder distributes these products around the world through a network of 29 company-owned subsidiaries and more than 80 trade partnerships.

Finder is an international family made up of more than 1300 individuals, all united by the same values and passion for our products.



14,500

Different products to satisfy a myriad of applications. From products at the heart of automation to the control of machines, power, time, temperature, liquid level, light and much more.

OUR PRODUCTS CARRY MORE CERTIFICATIONS THAN ANY OTHER RELAY MANUFACTURER

































FINDER IS AN ITALIAN BRAND WITH A WORLDWIDE PRESENCE

4 PRODUCTION PLANTS IN EUROPE

29 SUBSIDIARIES

80+ OFFICIAL DISTRIBUTORS







Industrial Thermoregulation products and accessories for electrical panels

Thermo-hygrostats and Thermostats Ensuring the performance of components and instrumentation within control panels and enclosures - often enhancing product life.	Page 4
7F Series Filter Fans New filter fan range to ventilate and safeguard against high enclosure temperatures. Air flow from 17 CFM to 412 CFM.	Page 6
7H Series Heaters Preventing the formation of condensation and ensuring the optimum temperature within electrical enclosures. Heating power from 25 W to 400 W.	Page 10
7L Series LED panel lights	Page 12
9D Series High Current Terminal Blocks For the combining and distribution of high current power cables within electrical panels and cabinets.	Page 15



7T Series

Thermo-Hygrostats



Type 7T.51.0.230.4360

- · Electronic control
- Small, compact size (17.5 mm wide)
- 1 NO 10 A 250 V AC1
- · 4 functions
- Nominal voltage 110 to 240 V AC/DC
- Temperature ranges from (+10 to +60)°C, (+50 to +140)°F
- Humidity range up to 90%
- LED status indication contact ON



Drying kilns



Industrial refrigeration



Road / tunnel lighting



Industrial furnaces and ovens



Automatic car-washes



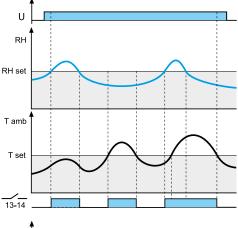
Panels for electrical distribution



Control panels



Forced-air ventilators

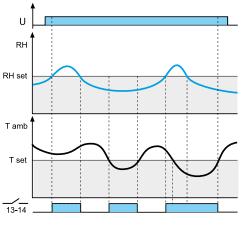


HT: RH > RHset OR Tamb > Tset

Power is permanentely 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 (Tamb) is > of set temperature (Tset).

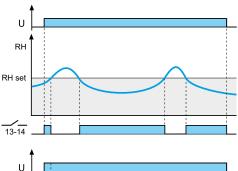
When contact is closed, LED is ON



TH: RH > RHset OR Tamb < Tset

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

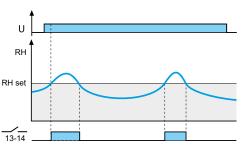
When contact is closed, LED is ON



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



Thermostats

- Small, compact size (17.5 mm wide)
- 1 NO 1 NC 10 A 250 V AC1
- Snap action thermostatic Bimetal sensor
- Wide temperature setting range
- · Long electrical life



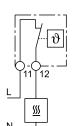
Type 7T.81.0.000.240x



θ

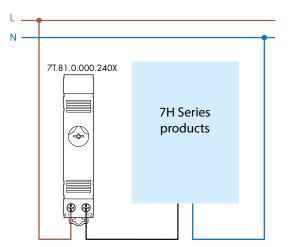
Heating control

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 to +40)°C (-4 to +104)°F (-20 to +60)°C (-4 to +140)°F (0° to +60)°C (+32 to +140)°F

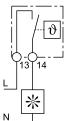






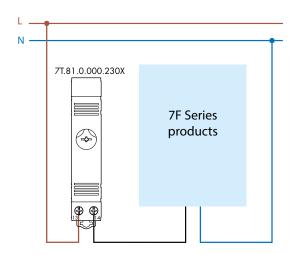
Ventilation control

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 to +40)°C (-4 to +104)°F (-20 to +60)°C (-4 to +140)°F (0° to +60)°C (+32 to +140)°F





7F Series

Filter Fans

- Operating voltage: 120 V AC, 230 V AC or 24 V DC (according to type)
- Easily replaceable filter mat
- Minimal depth within enclosure
- Air volume (17 to 412) CFM
- Time-saving installation and maintenance
- · Very low acoustic noise
- UL Type 12
- Black colour RAL 9004 available
- Dimensions from 4" to 12"



Drying kilns



Textile machines



Machines for paper processing



Machines for ceramics



Woodprocessing machines



Panels for electrical distribution



Control panels



Forced-air ventilators

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
- Time-saving installation and maintenance
- Easily replaceable filter mat
- UL Type 12
- Black colour RAL 9004 available

Approvals (according to type): $\mathbf{C} \in \mathbb{C} \times \mathbb{R} \times \mathbb{R}$



Compact size



Very low acoustic noise



Time-saving installation and maintenance







7F Series

Filter Fans and Exhaust Filters





Drying kilns



Textile machines



Machines for paper processing



Machines for ceramics



Woodprocessing machines



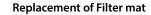
Panels for electrical distribution



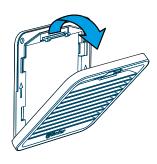
Control panels

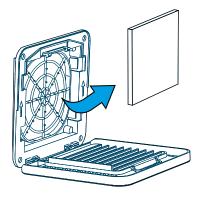


Forced-air ventilators

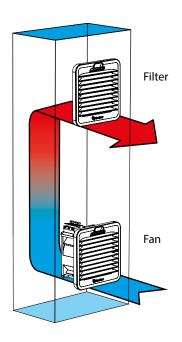








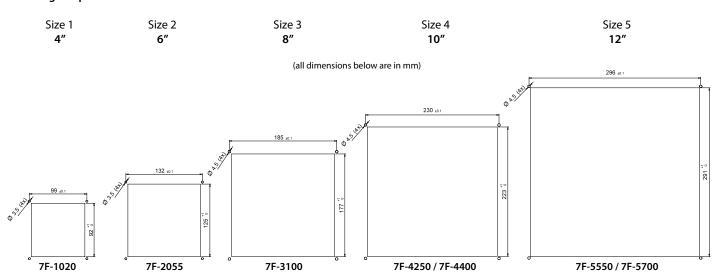
Mounting arrangement of Filter Fan and Exhaust Filter





Standard Filter Fan	Operating voltage (V AC)	Operating voltage (V DC)	Air volume (CFM)	Rated power (W) 50/60 Hz	Size			Standard Exhaust Filter	Reverse flow versions	Filter mat
7F.20.8.120.1020	120 V AC	_	17	27/21	4"	1	(120 x 120 mm)	7F.02.0.000.1000	7F.21.8.120.1020	07F.15
7F.20.8.230.1020	230 V AC	_	17	23/18	4"	1	(120 x 120 mm)	7F.02.0.000.1000	7F.21.8.230.1020	07F.15
7F.20.9.024.1020	_	24 V DC	14	3.6	4"	1	(120 x 120 mm)	7F.02.0.000.1000	7F.21.9.024.1020	07F.15
7F.20.8.120.2055	120 V AC	_	37	30/25	6"	2	(155 x 155 mm)	7F.02.0.000.2000	7F.21.8.120.2055	07F.25
7F.20.8.230.2055	230 V AC	_	37	29/25	6"	2	(155 x 155 mm)	7F.02.0.000.2000	7F.21.8.230.2055	07F.25
7F.20.9.024.2055	_	24 V DC	32	7	6"	2	(155 x 155 mm)	7F.02.0.000.2000	7F.21.9.024.2055	07F.25
7F.20.8.120.3100	120 V AC	_	68	30/25	8"	3	(209 x 209 mm)	7F.02.0.000.3000	7F.21.8.120.3100	07F.35
7F.20.8.230.3100	230 V AC	_	68	29/25	8"	3	(209 x 209 mm)	7F.02.0.000.3000	7F.21.8.230.3100	07F.35
7F.20.9.024.3100	_	24 V DC	59	7	8"	3	(209 x 209 mm)	7F.02.0.000.3000	7F.21.9.024.3100	07F.35
7F.20.8.120.4250	120 V AC	_	174	42/48	10"	4	(255 x 255 mm)	7F.02.0.000.4000	7F.21.8.120.4250	07F.45
7F.20.8.230.4250	230 V AC	_	174	46/50	10"	4	(255 x 255 mm)	7F.02.0.000.4000	7F.21.8.230.4250	07F.45
7F.20.9.024.4250	_	24 V DC	147	43	10"	4	(255 x 255 mm)	7F.02.0.000.4000	7F.21.9.024.4250	07F.45
7F.20.8.120.4400	120 V AC	_	262	72/120	10"	4	(255 x 255 mm)	7F.02.0.000.4000	7F.21.8.120.4400	07F.46
7F.20.8.230.4400	230 V AC	_	262	69/112	10"	4	(255 x 255 mm)	7F.02.0.000.4000	7F.21.8.230.4400	07F.46
7F.20.8.120.5550	120 V AC	_	356	75/102	12"	5	(320 x 320 mm)	7F.02.0.000.5000	7F.21.8.120.5550	07F.56
7F.20.8.230.5550	230 V AC	_	356	76/116	12"	5	(320 x 320 mm)	7F.02.0.000.5000	7F.21.8.230.5550	07F.56
7F.20.8.120.5700	120 V AC	_	412	110/140	12"	5	(320 x 320 mm)	7F.02.0.000.5000	7F.20.8.120.5700	07F.55
7F.20.8.230.5700	230 V AC	_	412	106/120	12"	5	(320 x 320 mm)	7F.02.0.000.5000	7F.20.8.230.5700	07F.55

Drilling template





7H Series

Panel Heaters



Drying kilns



Hoists and cranes



Road / tunnel lighting



Plastic moulding machines



Automatic car-washes



Panels for electrical distribution



Control panels



Forced-air ventilators



Fan assisted heaters

- Nominal voltage 120 or 230 V AC
- PTC resistor, self regulating heating system
- · Fan assisted heaters
- Air flow volume 18 CFM
- Fast wiring terminals
- · Safe touch
- Clip for 35 mm rail (EN 60715) mount

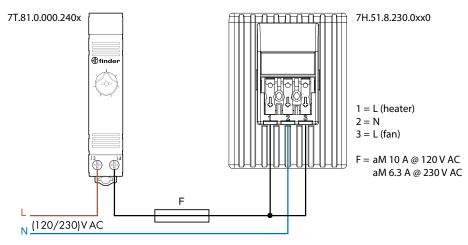
Approvals (according to type): **()**



Type 7H.51.8.110.0250 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.51.8.110.0400
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).

Heaters

Nominal voltage (110 to 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): **(€** UK [|| C**A**]*_{US}



Type 7H.51.0.230.0025 Heater power 25 W

Type 7H.51.0.230.0050 Heater power 50 W

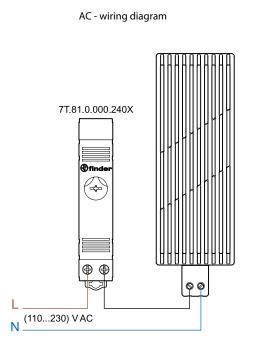
Dimensions (w x h x d): 41 x 125 x 41 mm

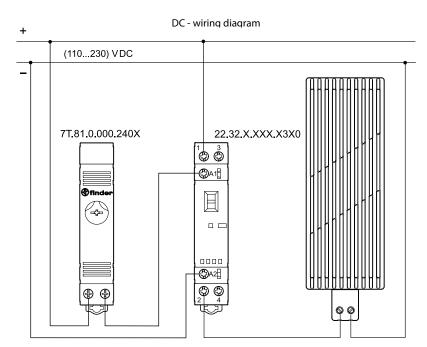


Type 7H.51.0.230.0100Heater power 100 W
Dimensions (w x h x d): 70 x 140 x 63 mm



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







7L Series

LED panel lights

Type 7L.43.0.xxx.xx00 - Brightness level: 600 lumens

Type 7L.46.0.xxx.xx00 - Brightness level: 1200 lumens

- Direct magnetic mounting or through a screw-fixed metallic support
- Power supply Multi-voltage: 12 to 48 V AC/DC and 110 to 240 V AC/DC
- Low energy consumption
- Nominal power consumption: 6 W (600 lm), 9 W (1200 lm)
- Push-in terminals for the connection to a single unit
- Plug-in terminals for the connection to a single or multiple units (up to 7 lamps)











Panels for electrical distribution



Control panels





Radiation angle: 120°



Multi-voltage



Colour temperature: 5000 K



Protection category: IP20



Push-in terminals for the connection to a single unit



Plug-in terminals for the connection to a single or multiple units (up to 7 lamps)

Design by MINELLI | FOSSATI



Code Lamps	Lumen	Code Lamps	Lumen	Supply voltage	Switching	Connections
7L.43.0.024.0100	600	7L.46.0.024.0100	1200	024 = (12 to 48)V AC/DC	Direct switching	Push-in
7L.43.0.024.0200	600	7L.46.0.024.0200	1200	024 = (12 to 48)V AC/DC	Direct switching	Plug-in*
7L.43.0.230.0100	600	7L.46.0.230.0100	1200	230 = (110 to 240)V AC/DC	Direct switching	Push-in
7L.43.0.230.0200	600	7L.46.0.230.0200	1200	230 = (110 to 240)V AC/DC	Direct switching	Plug-in*
7L.43.0.024.1100	600	7L.46.0.024.1100	1200	024 = (12 to 48)V AC/DC	ON/OFF soft latch switch	Push-in
7L.43.0.024.1200	600	7L.46.0.024.1200	1200	024 = (12 to 48)V AC/DC	ON/OFF soft latch switch	Plug-in*
7L.43.0.024.2100	600	7L.46.0.024.2100	1200	024 = (12 to 48)V AC/DC	PIR - motion detector	Push-in
7L.43.0.024.2200	600	7L.46.0.024.2200	1200	024 = (12 to 48)V AC/DC	PIR - motion detector	Plug-in*
7L.43.0.230.1100	600	7L.46.0.230.1100	1200	230 = (110 to 240)V AC/DC	ON/OFF soft latch switch	Push-in
7L.43.0.230.1200	600	7L.46.0.230.1200	1200	230 = (110 to 240)V AC/DC	ON/OFF soft latch switch	Plug-in*
7L.43.0.230.2100	600	7L.46.0.230.2100	1200	230 = (110 to 240)V AC/DC	PIR - motion detector	Push-in
7L.43.0.230.2200	600	7L.46.0.230.2200	1200	230 = (110 to 240)V AC/DC	PIR - motion detector	Plug-in*



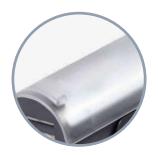
Push-in connection



Plug-in* connection

SWITCHING OPTIONS

1)
Direct switching



Switching via PIR - motion detector



Switching via soft latch ON/OFF switch



Magnetic mount directly to metallic panel



Magnetic mount via screwmounted metallic bracket

MOUNTING OPTIONS



Rotational adjustment 30°



*Type 07L.11 Included in the package on all 7L.4x.0.xxx.x200 part numbers.





Type 07L.12 Plug for output side to allow connection to a 2 wire cable (2 x 1.5 mm²).

One plug is required for each added lamp on 7L.4x.0.xxx.x200 part numbers (up to 7 lamps).



9D Series

High Current Terminal Blocks

- Nominal current: 80, 125, 175, 250 or 400 A
- Available with 7, 8 or 12 connections (according to type)
- Daisy chain blocks for further expansion of output terminals
- Cable connection capacity up to 185 mm² cross section
- · Screw terminals
- 35 mm rail (EN 60715) mount

Approvals (according to type): CE UK ®











Panels for electrical distribution



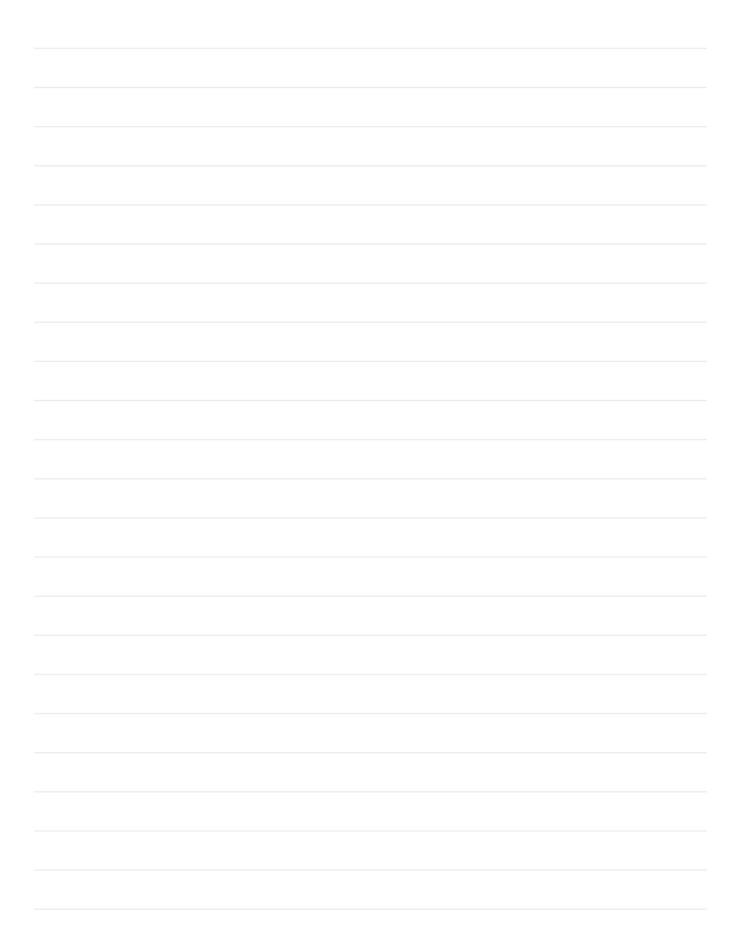
Control panels





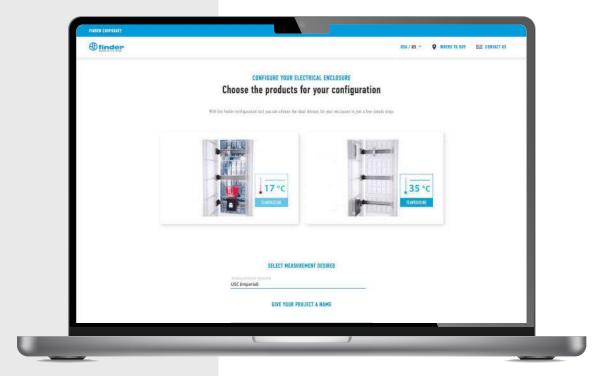
			Input wire specification		Output wire specification			
Code	Current (A)	Inputs	mm²	AWG	Output	mm²	AWG	Connections
9D.01.5.080.0304	80	3	16	6	4	6	10	0 0
9D.01.5.125.0206	125	2	35	2	6	16	6	0_00 0_000 0_000
9D.01.5.175.0210	175	2	70	2/0	10	16	6	0-00 0-00 0-00 0-00
9D.01.5.250.0111	250	1	120	250 Kcmil	11	35	2	
9D.01.5.400.0111	400	1	185	400 Kcmil	11	35	2	







FINDER THERMO CONFIGURATOR







https://configuratore.findernet.com/us/

Easy; Efficient; Informative.

Building a new panel and would like an easy way to select your thermoregulation components? Finder has a new Thermo Configurator to help you choose your thermostats, filter fans, panel heaters and even panel lights. Links to technical information right alongside the product summary – no searching the web.

Try it out today, explore the Configurator, explore thermoregulation products, explore everything Finder.







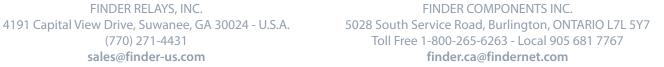






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