

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

7U Series - Modular power outlets

9D Series - High Current Terminal Blocks



ABOUT US



Finder was founded in Italy in 1954. Since then it it has been designing and manufacturing a wide range of electromechanical and electronic components for both the residential and industrial sectors.

Today, thanks to its global vision, Finder now distributes its 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

C € EK



















FINDER IS AN ITALIAN BRAND WITH A WORLDWIDE PRESENCE

- PRODUCTION PLANTS IN EUROPE
- **SUBSIDIARIES**
- DISTRIBUTORS







Industrial Thermoregulation products and accessories for electrical panels

Ensuring the	prostats and Thermostats performance of components and instrumentation I panels and enclosures - often enhancing product life.	Page 4
Filter fan rang	ge to ventilate and safeguard enclosure temperatures.	Page 6
the optimum	te formation of condensation and ensuring temperature within electrical enclosures. er from 25 W to 400 W.	Page 1
Available in to these 7L Serie	ghts	Page 1
For a secure a	wer outlets	Page 1
For the comb	t Terminal Blocks	Page 1



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...240 V AC/DC
- Temperature ranges from +10° to +60°C
- Humidity range up to 90%
- LED status indication contact ON





refrigeration



Road / tunnel





Automatic



electrical



Control panels



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 13-14 HM: RH > RHset The contact 13-14 closes if the ambient

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

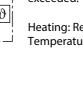


Type 7T.81.0.000.240x



Heating control

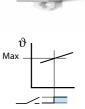
Should the panel temperature fall below the (minimum) set temperature the contact will close to call for heat. The contact will open when this set temperature is exceeded.



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



Type 7T.81.0.000.230x



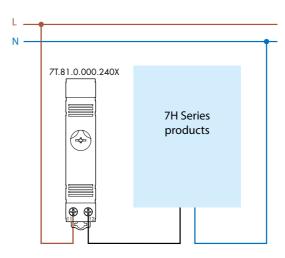
Ventilation control

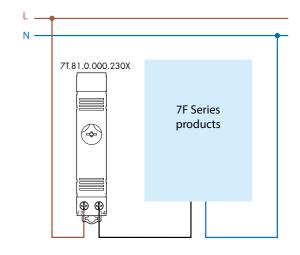
Should the panel temperature exceed the (maximum) set temperature then the contact will close to call for cooling. The contact will open when the temperature falls below this set temperature.

-20° to +60°C

0° to +60°C

Ventilation: Blue Dial Temperature ranges: -20° to +40°C









humidity (RH) is > of set humidity (RHset).

When contact is closed, LED is ON

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 (24...700)m³/h
- · Time-saving installation and maintenance
- Very low acoustic noise
- Protection category: IP54/Type 12
- Black colour RAL 9004 available
- Dimensions from 120 mm up to 320 mm







for Type 7F.2x.x.xxx.2055

Type 7F.02.0.000.2000

Type 7F.02.0.000.1000

for Type 7F.2x.x.xxx.1020

Type 7F.02.0.000.3000 for Type 7F.2x.x.xxx.3100



Type 7F.02.x.000.4000 for Type 7F.2x.x.xxx.4250

Type 7F.02.8.000.4000

for Type 7F.2x.8.xxx.4400





machines





Machines for



processing



electrical





- 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
- Protection category IP54/Type 12
- Black colour RAL 9004 available









Time-saving installation

Design by MINELLI | FOSSATI



Exhaust Filters



Compact size



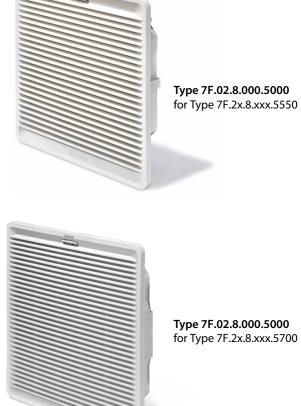
acoustic noise





Type 7F.2x.x.xxx.1020

Type 7F.2x.x.xxx.2055





7F Series

Filter Fans and Exhaust Filters





Drying kilns



Textile machine



Machines for paper processing



Machines for ceramics



Woodprocessing machines



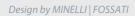
Panels for electrical distribution



panels

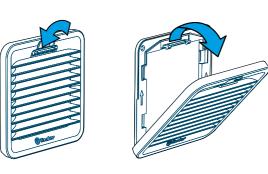


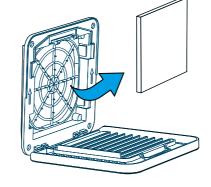
Forced-air ventilators



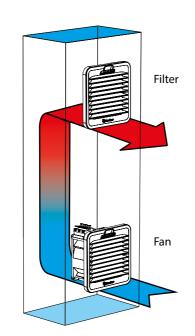


Replacement of Filter mat



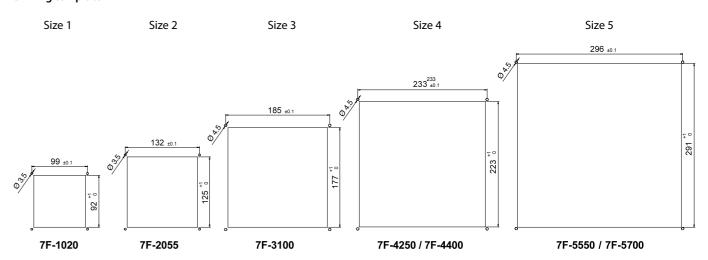


Mounting arrangement of Filter Fan and Exhaust Filter



Standard Filter Fan	Operating voltage (V AC)	Operating voltage (V DC)	Air volume (m³/h)	Rated power (W) 50/60 Hz	Size	Standard Exhaust Filter	Reverse flow versions	Filter mat
7F.20.8.120.1020	120 V AC	_	24	27/21	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	_	24	23/18	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	24	3.6	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	_	55	30/25	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	_	55	29/25	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	55	7	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	_	100	30/25	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	_	100	29/25	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	100	7	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	_	250	42/48	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	_	250	46/50	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	250	43	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	_	400	72/120	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	_	400	69/112	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	_	550	75/102	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	_	550	76/116	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	_	700	110/140	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	_	700	106/120	5 (320 x 320 mm)	7F.02.0.000.5000	7F.20.8.230.5700	07F.55

Drilling template





7H Series

Heaters fan assisted

- Nominal voltage 120 or 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): **(& UK [] (PN)** US



Drying kilns



Hoists an



Road / tunnel lighting



Plastic moulding machine



Automatic car-washes



Panels for electrical distribution



panels



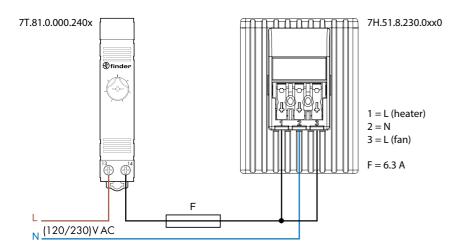
Forced-air ventilators



51.8.230.0250 wer 250 W ed ns (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

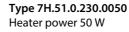
Separate supply (L) terminals for the heater and the internal fan allow them to be powered independently. So, dependent on the specific situation, the installer might wish the heating element to be controlled by an upstream thermostat but require the fan to run continuously (although the latter will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

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



Type 7H.51.0.230.0025 Heater power 25 W



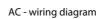
Dimensions (w x h x d): 41 x 125 x 41 mm

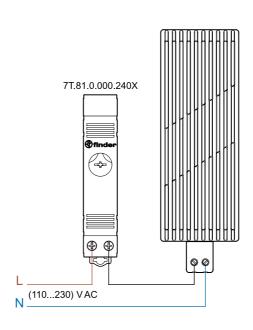


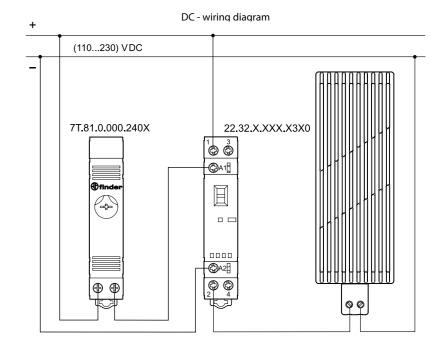
Type 7H.51.0.230.0100Heater power 100 W
Dimensions (w x h x d): 70 x 140 x 63 mm



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











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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...48 V AC/DC and 110...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)















Radiation angle: 120°



connection to a single unit



Colour temperature: 5000 K

connection to a single or multiple units (up to 7 lamps)



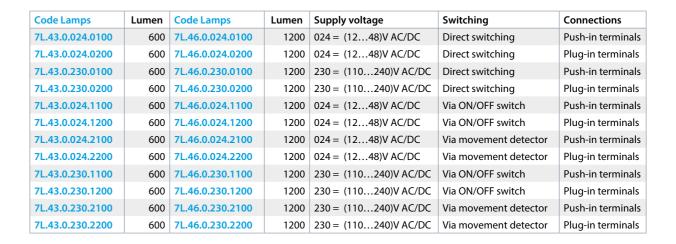


Protection category: IP20

12



Design by MINELLI | FOSSATI







Magnetic fixing direct to metallic panel



Push-in terminals for the



Plug-in terminals for the





Switching via motion detector



Magnetic fixing via screw-fixed metallic support





Rotational adjustment



(3)

Switching via ON/OFF

soft latch switch



Type 07L.12 Plugs for connection to a 2-core cable (2 x 1.5 mm²), e.g. H05VV-F, 2 x 1.5 mm² Loose item - for the output side (not included)



7U Series

Modular power outlets

- Nominal voltage: 230 V AC
- Nominal current: up to 16 A
- Compatible with Schuko and Italian Bipasso
- Availbale in grey and yellow color
- Voltage indication LED version available
- 45 mm wide
- Panel or rail 35 mm (EN 60715) mounting









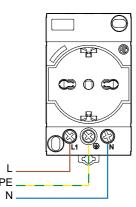




Type 7U.00.8.230.00x0 Grey RAL 70355



Type 7U.00.8.230.00x2 Yellow RAL 1021





Screw terminals

Electric shock hazard

Any equipment within an electrical system that remains live after turning off at the main switch, must be marked in compliance with standards DIN VDE 0105-1 and IEC 204-1 / EN 60204-1 / DIN VDE 0113 Part 1, as well as the VBG 4 accident prevention regulations. For these applications use the yellow power outlet.

9D Series

electrical distribution

Control

High Current Terminal Blocks

- Nominal current: 80, 125, 160, 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











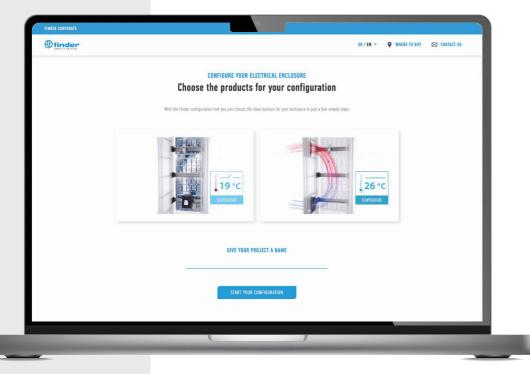


			Input wire specification			Output wire specification			
Code	Current (A)	Inputs	mm²	AWG	Output	mm ²	AWG	Connections	
9D.01.5.080.0304	80	3	16	6	4	6	10		
9D.01.5.125.0206	125	2	35	2	6	16	6	O	
9D.01.5.175.0210	175	2	70	2/0	10	16	6	O-000 O-000 O-000	
9D.01.5.250.0111	250	1	120	250 Kcmil	11	35	2		
9D.01.5.400.0111	400	1	185	400 Kcmil	11	35	2		





Industrial configurator







https://configuratore.findernet.com/en/

Configure your electrical enclosure Choose the products for your configuration

For the optimal performance of an electrical panel it is necessary, at the design stage, to consider all those components that will influence the need to heat or cool the enclosure. Maintaining an ideal temperature and good air quality is important for the safety and optimal performance of the installed devices and the overall reliability of the system.

Finder have been supporting industry professionals for over 65 years in the installation of electronic and electromechanical devices, having developed a wide range of thermostats, thermo-hygrostats, fans and panel heaters - devices you can rely on to ensure the optimal climate is maintained within the electrical switchboard and with the confidence that comes with their numerous national and international approvals and certification.

Using the new Finder configurator for industrial thermoregulation greatly simplifies the calculation process, providing data and characteristics of the required products in a intuitive, downloadable and shareable report.

Once the configuration is complete, it is possible to request a quote as well as draw on the expertise of Finder technicians in the application and incorporation of other devices, such as timers, modular contactors, industrial relays and much more.





FINDER S.p.A. sole proprietorship Via Drubiaglio, 14 - 10040 ALMESE (TO) ITALY tel +39 011 9346211 - export@findernet.com

findernet.com











