

SELECTION GUIDE

Industrial Thermoregulation and Panel Lighting

PRODUCTS FOR PANELS AND ENCLOSURES

7T Series - Thermo-Hygrostats and Thermostats
7F Series - Filter Fans
7H Series - Panel Heaters
7L Series - LED panel lights





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 28 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.



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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

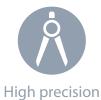


FINDER IS AN ITALIAN BRAND WITH A WORLDWIDE PRESENCE



The perfect climate and lighting within control panels







Thermo-hygrostats and Thermostats 7T Series

Ensuring the performance of components and instrumentation within control panels and enclosures - often enhancing product life.

Filter Fans 7F Series

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

Panel Heaters 7H Series

Preventing the formation of condensation and ensuring the optimum temperature within electrical enclosures. Heating power from 25 W to 400 W.

LED panel lights 7L Series

Available in two brightness levels, 600 lumens or 1200 lumens, these new 7L Series LED panel lights featuring magnetic mounting are the ideal solution for perfect lighting for machines and electrical panels.





Panel Thermo-Hygrostats



7T Series



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

Approvals (according to type): CE 💥 [All calls



Industrial refrigeration



Road / tunnel lighting



and ovens

Automatic car-washes

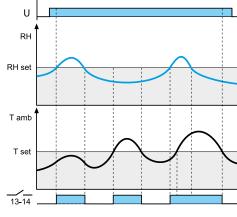


Panels for electrical distribution

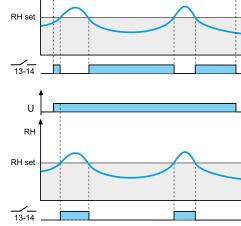


Forced-air ventilators





U RH RH set T amb T set 13-14 U RH



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

Panel 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 35 mm rail (EN 60715) mount

Approvals (according to type): CE 🖁 [fill 🛣 c🔊 c🔊



Type 7T.81.0.000.240x



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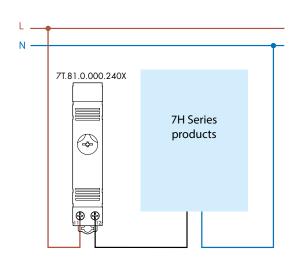
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Heating control Should the panel temperature fall below the (minimum) set temperature the contact will close to call for heat. The contact will open when this set temperature is exceeded.

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





Type 7T.81.0.000.230x



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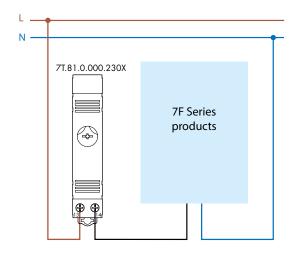
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Ventilation control

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 -20° to +60°C 0° to +60°C







Filter Fans and Exhaust Filters

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/Type 12 Black colour RAL 9004 available

Approvals (according to type): CE 🖁 [fill c90°us 🐠 s



Textile



Machines for paper processing

Drying kilns

machines



ceramics

Machines for



Woodprocessing machines



distribution

Panels for

electrical



Forced-air ventilators



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

Size 1

Operating voltage 24V DC Air volume 24 m³/h Rated power 3.6 W



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

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Type 7F.20.9.024.2055
Operating voltage 24V DC
Air volume 55 m<sup>3</sup>/h
Rated power 9 W
Size 2
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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

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Mounting arrangement of Filter Fan and Exhaust Filter

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/Type 12 Black colour RAL 9004 available

Approvals (according to type): CE \ [A [A [] C] C]



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

Size 1



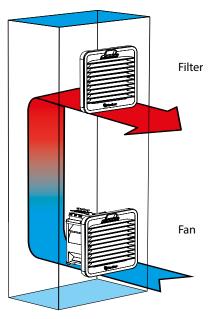
Type 7F.02.0.000.2000 For Filter Fans Type 7F.20.x.xxx.2055

Size 2



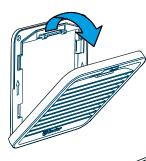
Type 7F.02.0.000.3000 For Filter Fans Type 7F.20.x.xxx.3100

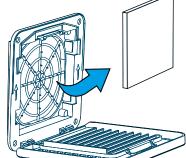
Size 3



Replacement of Filter mat













Filter Fans and Exhaust Filters

Filter Fans

Minimal depth within enclosure Air volume (250...550)m³/h Very low acoustic noise Protection category (according to type): IP54/Type 12 Black colour RAL 9004 available

Approvals (according to type): CE 🖁 [fill c🔊 us



Textile



for paper processing

Drying kilns

machines

Machines



Machines for ceramics



Woodprocessing machines



Panels for electrical distribution



Forced-air



Type 7F.20.8.xxx.4250 Operating voltage (120 or 230)V AC Air volume 250 m³/h Rated power 45 W Size 4

Type 7F.20.9.024.4250 Operating voltage 24 V DC Air volume 250 m³/h Rated power 45 W Size 4



Type 7F.20.8.xxx.4400 Operating voltage (120 or 230)V AC Air volume 400 m³/h Rated power 70 W Size 4

Type 7F.20.8.xxx.5550 Operating voltage (120 or 230)V AC Air volume 550 m³/h Rated power 76 W Size 5

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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/Type 12 Black colour RAL 9004 available



Type 7F.02.0.000.4000 For Filter Fans Type 7F.20.x.xxx.4250 or Type 7F.20.8.xxx.4400

Size 4

Filter Fans - Available versions

	Standard 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.20.8.120.4250	7F.21.8.120.4250	4
	7F.20.8.120.4400	7F.21.8.120.4400	4
NEW	7F.20.8.120.5550	7F.21.8.120.5550	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.20.8.230.4250	7F.21.8.230.4250	4
	7F.20.8.230.4400	7F.21.8.230.4400	4
NEW	7F.20.8.230.5550	7F.21.8.230.5550	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.20.9.024.4250	7F.21.9.024.4250	4

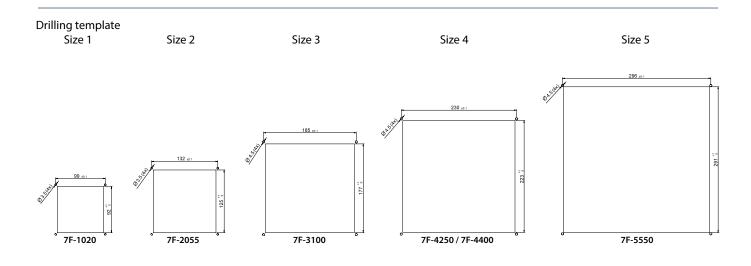
Components

	Standard-Filter Fan	Standard-Exhaust Filter	Filter mat	Size
NEW	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.20.8.xxx.4250	7F.02.0.000.4000	07F.45	4
	7F.20.8.xxx.4400	7F.02.0.000.4000	07F.47	4
	7F.20.8.230.5550	7F.02.0.000.5000	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.20.9.024.4250	7F.02.0.000.4000	07F.45	4



Type 7F.02.0.000.5000 For Filter Fans Type 7F.20.8.230.5550

Size 5







Panel Heaters

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): CE 🖁 [fill c₉]_{US}



Drying kilns



Hoists and cranes



Road / tunnel lighting



Plastic moulding machines

Automatic car-washes



Panels for electrical distribution



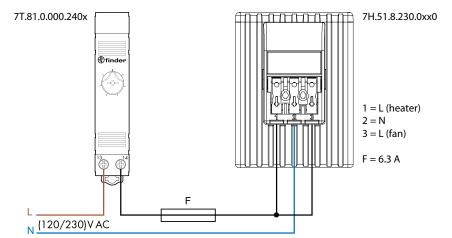
Forced-air ventilators



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).

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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 🖁 [fill c🔊 us



Type 7H.51.0.230.0025 Heater power 25 W

Type 7H.51.0.230.0050 Heater power 50 W

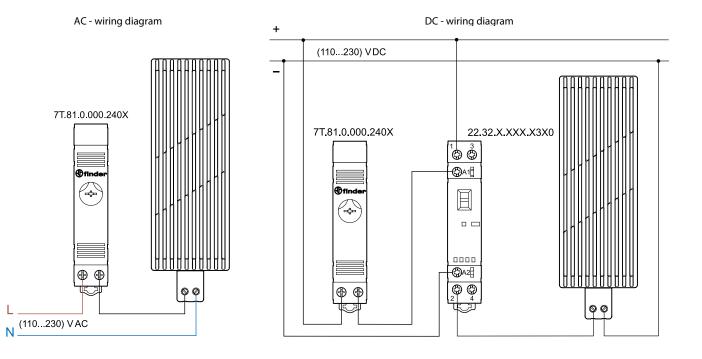
Dimensions (w x h x d): 41 x 125 x 41 mm



Type 7H.51.0.230.0100 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



Inder



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)

Approvals (according to type): CE 🖁 c🔊 us



Panels for electrical distribution







Code Lamps	Lumen	Code Lamps	Lumen	Supply voltage	Switching	Connections
7L.43.0.024.0100	600	7L.46.0.024.0100	1200	024 = (1248)V AC/DC	Direct switching	Push-in terminals
7L.43.0.024.0200	600	7L.46.0.024.0200	1200	024 = (1248)V AC/DC	Direct switching	Plug-in terminals
7L.43.0.230.0100	600	7L.46.0.230.0100	1200	230 = (110240)V AC/DC	Direct switching	Push-in terminals
7L.43.0.230.0200	600	7L.46.0.230.0200	1200	230 = (110240)V AC/DC	Direct switching	Plug-in terminals
7L.43.0.024.1100	600	7L.46.0.024.1100	1200	024 = (1248)V AC/DC	Via ON/OFF switch	Push-in terminals
7L.43.0.024.1200	600	7L.46.0.024.1200	1200	024 = (1248)V AC/DC	Via ON/OFF switch	Plug-in terminals
7L.43.0.024.2100	600	7L.46.0.024.2100	1200	024 = (1248)V AC/DC	Via movement detector	Push-in terminals
7L.43.0.024.2200	600	7L.46.0.024.2200	1200	024 = (1248)V AC/DC	Via movement detector	Plug-in terminals
7L.43.0.230.1100	600	7L.46.0.230.1100	1200	230 = (110240)V AC/DC	Via ON/OFF switch	Push-in terminals
7L.43.0.230.1200	600	7L.46.0.230.1200	1200	230 = (110240)V AC/DC	Via ON/OFF switch	Plug-in terminals
7L.43.0.230.2100	600	7L.46.0.230.2100	1200	230 = (110240)V AC/DC	Via movement detector	Push-in terminals
7L.43.0.230.2200	600	7L.46.0.230.2200	1200	230 = (110240)V AC/DC	Via movement detector	Plug-in terminals



Magnetic fixing direct to metallic panel



2 Switching via motion detector



Magnetic fixing via screw-fixed metallic support



3 Switching via ON/OFF soft latch switch



Rotational adjustment 30°



Type 07L.11 Socket 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 input side **(included in the package)**



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)







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

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