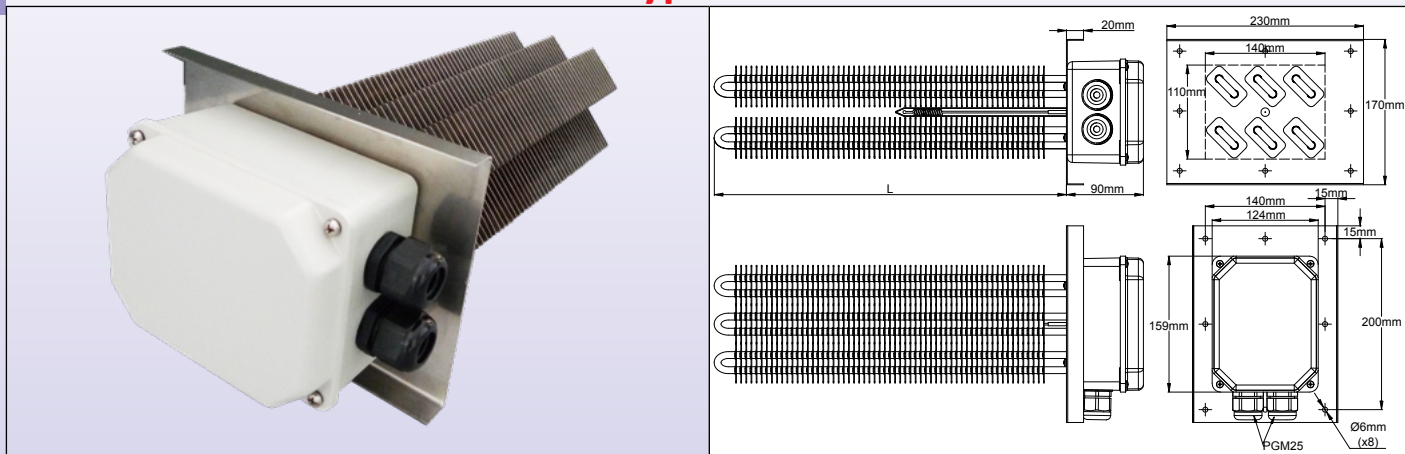


Air heating elements for incorporation



Medium power duct heaters, with finned stainless steel heaters,
3.5W/cm², for air speed ≥ 2m/s

Type 9NF



Main applications

These medium duct heaters are mainly used in air ducts, upstream vents, for heating industrial premises, in closed hot air circuit (recirculating air) or open circuit, with a mini air speed of 2m/s.

They are also used for drying, for heat treatment, dehydration, or cooking, in industrial processes.

They can be used on square or rectangular ducts. They consist of finned stainless steel heating elements, mounted on a stainless steel flange. Their installation in existing pipes requests cutting a 140 × 110mm rectangular hole, and drill 8 holes for 6mm dia. screws. The electrical connections are made in an IP65 aluminum housing. These devices are equipped with a 3 pole manual reset failsafe limiter.

Main features

Assembly: The finned tubes are oriented at 45° from the axis of the mounting bracket, thereby it is possible to position the duct heater along or perpendicular to the duct upon available spacing.

Ducts minimum sizes:

170mm heating element references: 200 × 170mm

320mm heating element references: 350 × 170mm

420mm heating element references: 450 × 170mm

Duct opening: 140 × 110mm rectangular hole, plus 8 holes for dia.6mm screws (or equivalent size).

High limit thermostat: 3 poles, failsafe, manual reset, capillary thermostat, calibrated at 120°C (other values on request). Bulb mounted inside a waterproof pocket.

Connection box: In gray epoxy paint aluminum housing, IP65, 160 × 124 × 92mm, fitted with two M25, PA66 cable glands.

Minimum air velocity: ≥ 2m/s

Mounting bracket: 304 stainless steel, 150 × 235mm, 1.2 mm thick, with 8 holes for M6 screws (undrilled version on request). IP65 sealing between the heating elements, connection box and bracket

Heating elements: 3 or 6, non-removable, finned heaters, surface load 3.5W/cm², 304L stainless steel, with internal connection on M4 screw terminals. The power of each element is 250 watts in 170mm, 500W in 320mm and 700W in 420mm (Other features, see P4 of section 4)

Voltage: 230V, 50/60Hz (110-120V on request). Wiring is possible in 230V single phase, or in 400V three-phase with neutral.

Power, surface load, air flow:

See section 2 of this catalog tables providing surface temperatures and air temperature vs load with and without fans. However, it is up to the integrator to perform the appropriate checks of flow and temperatures reached in the application, and insure that they comply with the local regulations and safety standards.

Main references

3 finned heating elements			6 finned heating elements		
References	Total power (W)	Length L	References	Total power (W)	Length L
9NFL170C230753NC	750	170	9NFL170C231506NC	1500	170
9NFL320C231503NC	1500	320	9NFL320C233006NC	3000	320
9NFL420C232103NC	2100	420	9NFL420C234206NC	4200	420

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice