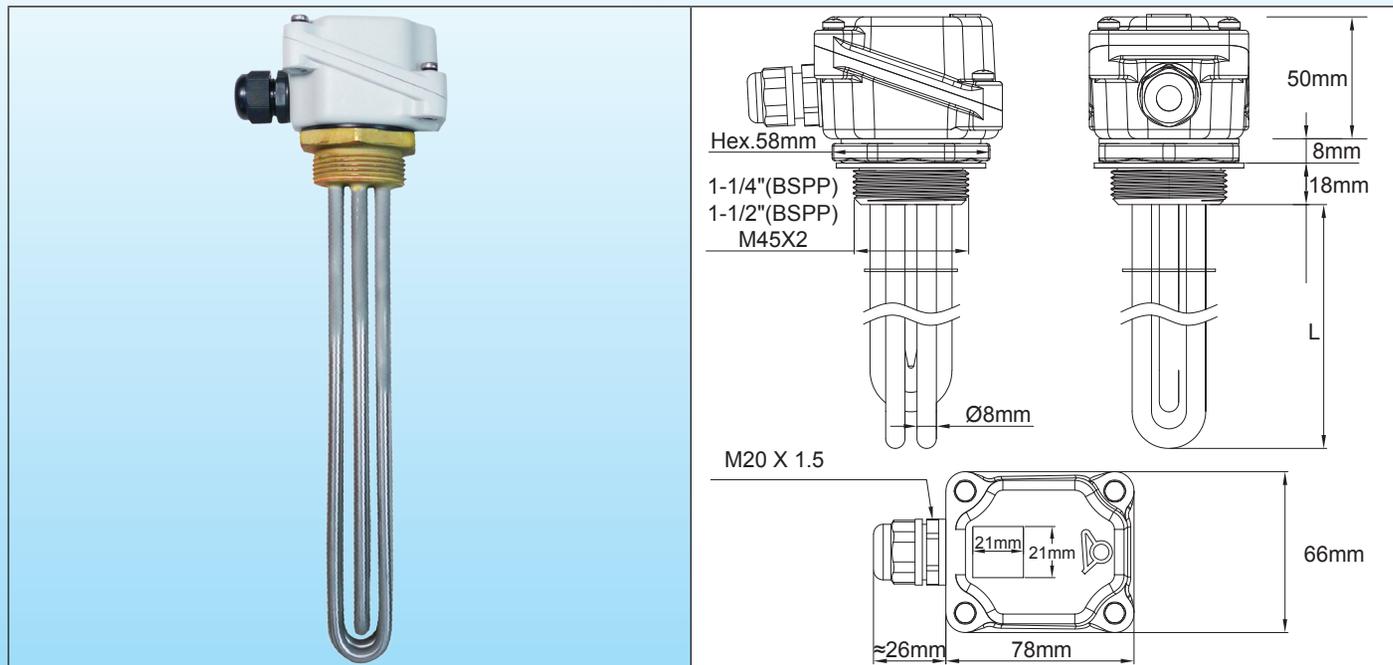




Immersion heaters with aluminum connection box

Immersion heater with 78mm × 66mm × 50mm aluminum enclosure.
1¼", 1½", M45x2 fittings.
Type 9ST3



Main applications: liquid heating, hot water circuits, containers and buffer tanks.

These immersions heaters are the smallest with 3 heating elements and aluminum enclosure. There is not enough room inside for thermostat.

They do not have a built-in connection block.

They exist in:

- 6 standard power levels: 1kW – 1.5kW - 2kW - 3kW - 4kW - 6kW.
- 3 types of standard fittings: 1¼", 1½" and M45x2
- 2 types of surface load density: 5W/cm² and 10W/cm². See technical introduction to optimize the surface load.

Heater tube material: 8mm dia. AISI 304 or Incolloy 800 (AISI 316; AISI 321; Incolloy 825 on request).

Fitting material: brass, swiveling on housing, brazed on tubes. (AISI 304 or AISI 316, TIG welded, or brazed, models are available on request). Supplied without gasket and without nut. See accessories below.

Thread: 1¼", 1½" BSPP (ISO 228) and metric thread M45x2.

Enclosure: 78 × 66 × 50mm, die-cast aluminum, 3mm wall thickness. Silicone foam gasket. Stainless steel cover screws with locking nuts, 2 inner earth terminals M4; Gray epoxy paint RAL7035. Protected against galvanic corrosion.

Ingress protection class: Water and dust: IP65; shock resistance: IK 10 (with metal cable gland).

Cable glands: M20, PA66. Nickel-plated brass on request.

Thermowell: On request.

Heating elements connections: terminals with stainless steel screw, nut and stainless steel washer. Switching straps on 3 phases models.

Support grid: 1 grid AISI 304 for lengths from 400 to 600mm, 2 grids above.

Not heating immersed zone: 50mm.

Surface load: standard 5W/cm² or 10W/cm², others values on request.

Voltage: 220-240V single phase or three phases 380-400V (Star connection with neutral).

Variants on request: TCO inside dia. 10mm pocket, at center of heating elements. (MOQ apply).

Electric Wiring



Straps position in 220-240V single phase

Straps position in 380-400V 3 phases

Immersion heaters with aluminum connection box



Main references

5W/cm², 1½" * brass fitting.

Power	1kW	1.5kW	2kW	3kW	4kW	6kW
Length (mm)	170	240	300	440	570	840
AISI 304 Reference	9ST3G5E0010U8170	9ST3G5E0015U8240	9ST3G5E0020U8300	9ST3G5E0030U8440	9ST3G5E0040U8570	9ST3G5E0060U8840
Incolloy 800 reference	9ST3G5E0010UK170	9ST3G5E0015UK240	9ST3G5E0020UK300	9ST3G5E0030UK440	9ST3G5E0040UK570	9ST3G5E0060UK840

10W/cm², 1½" * brass fitting.

Power	1kW **	1.5kW	2kW	3kW	4kW	6kW
Length (mm)	135	135	170	240	300	440
AISI 304 Reference	9ST3G5E0010B8130	9ST3G5E0015U8130	9ST3G5E0020U8170	9ST3G5E0030U8240	9ST3G5E0040U8300	9ST3G5E0060U8440
Incolloy 800 reference	9ST3G5E0010BK130	9ST3G5E0015UK130	9ST3G5E0020UK170	9ST3G5E0030UK240	9ST3G5E0040UK300	9ST3G5E0060UK440

* 1¼" brass fitting instead of 1½", replace G5 by G4 in the reference. M45x2 brass fitting instead of 1½", replace G5 by G9 in the reference.

** This model has only 2 heating elements.

References of accessories in option (not included in the product, must be ordered separately):

Nuts

	Thread	1¼"	1½"	M45x200
	Brass	9BRR3000ELH302A	9BRR3000ELH303A	9BRR3000ELH305A
	AISI304	9BRR3000ELH032A	9BRR3000ELH006A	9BRR3000ELH049A
	AISI316	9BRR3000ELH202A	9BRR3000ELH203A	9BRR3000ELH205A

Gaskets

	Thread	1¼"	1½" - M45x200
	NBR	9BRJ03000ELH206A	9BRJ03000ELH205A
	Fiber	9BRJ03000ELH052A	9BRJ03000ELH007A
	PTFE	9BRJ03000ELH032A	9BRJ03000ELH033A

Other accessories and drawings: see last section of this catalogue

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