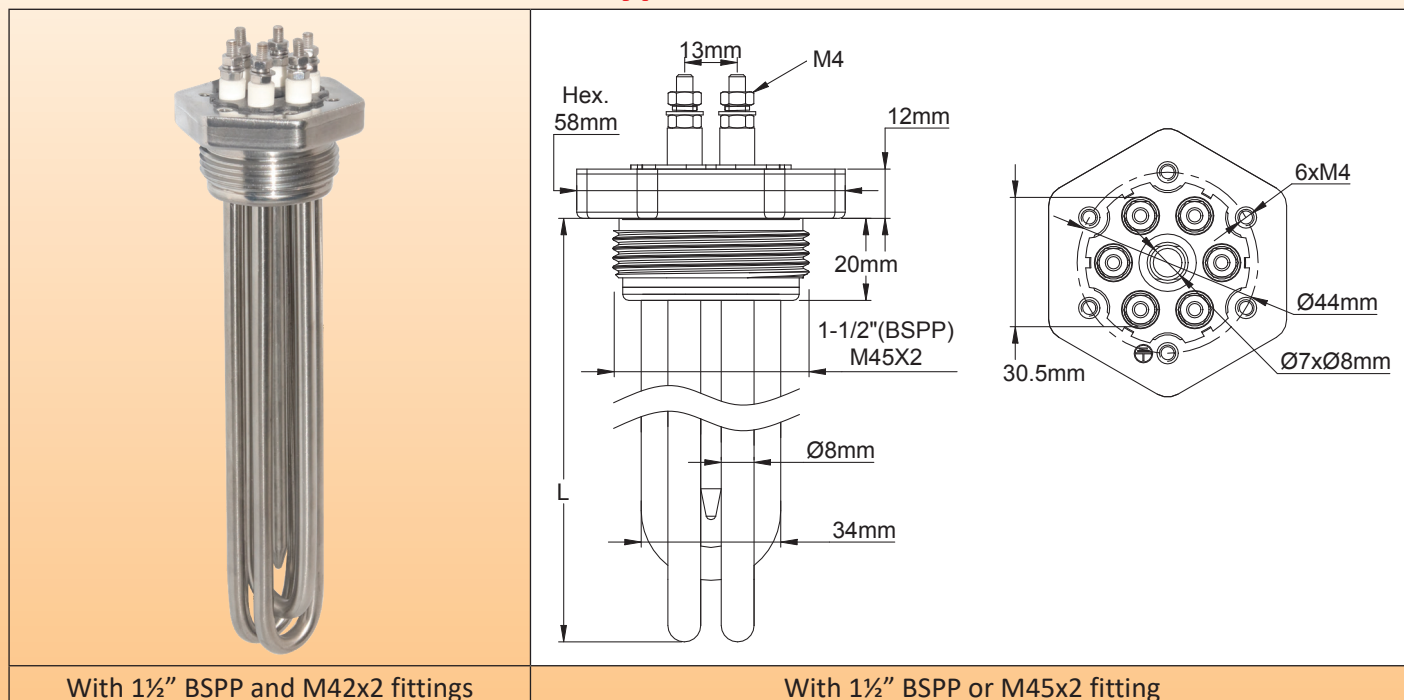




Immersion heaters

Full stainless steel immersion heaters with 3 hairpin heating elements, TIG welded **stainless steel fitting (Without brazing)**, with cylindrical thread 1½" BSPP; M45x2.

Type 9RSU3



Main applications: These immersion heaters with full stainless steel construction are intended for liquid heating applications in scientific, medical, pharmaceutical or food fields, as well as for applications in corrosive environments. All welds are TIG, without any brazing. Liquids are in contact with stainless steel only

They exist in standard in 2 types of surface load density: 5W/cm² and 10W/cm² (Others available on request). See the technical introduction to select the best surface load.

Many enclosures for these heaters are available in our catalogue N°11.

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

Fitting material: Stainless steel, TIG welded to the heating elements. The heated liquid is in contact only with stainless steel. The fitting material is AISI 304 for models with AISI 304, AISI 321 and Incolloy tubes, and AISI 316 for models with AISI316 tubes. Supplied without gasket and without nut. See accessories below. These fittings have M4 threaded holes for connection box assembly

Thread: 1½" BSPP (ISO 228); M45x2.

Thermowell: Dia. 8x7mm, using the same material than heating elements.

Heating elements connections: Stainless steel M4 screw terminals, nuts and washers

Ground connection: M4 threaded hole

Not heating immersed zone: 50mm including the length inside the fitting.

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

Voltage: 230-240V single phase (110-115V and 380-400V on request)

Option 1: Set of 4 brass jumpers for star-triangle commutation in 3 phases or connection of 3 heating elements in parallel.

Option 2*:** On request, the stainless steel fitting can be filled with epoxy resin, which provides incomparable protection against the penetration of moisture into the heating elements, especially when the environment is very humid and the heating elements only operate occasionally and for short periods.

Main references with 1½" fitting* in Aisi 304, without pocket**

Surface load	5W/cm ²			
Power of heating element	10kW	2kW	3kW	4kW
Length L (mm)	250	450	650	850
Reference in Aisi 304	9RSU280C10052325	9RSU280C20052345	9RSU280C30052365	9RSU280C40052385
Reference in Incolloy 800	9RSU288C10052325	9RSU288C20052345	9RSU288C30052365	9RSU288C40052385



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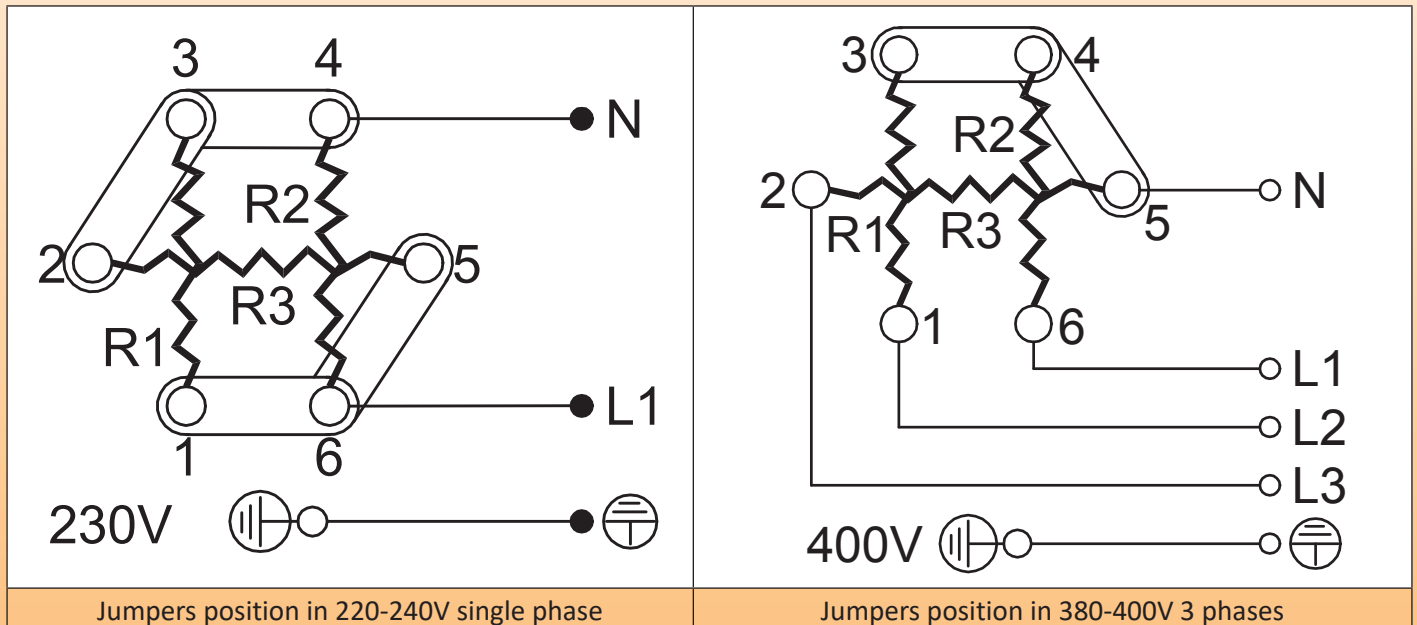
Surface load	10W/cm ²			
Power of heating element	2kW	3kW	4kW	6kW
Length L (mm)	250	350	450	650
Reference in Aisi 304	9RSU280C200A2325	9RSU280C300A2335	9RSU280C400A2345	9RSU280C600A2365
Reference in Incolloy 800	9RSU288C200A2325	9RSU288C300A2335	9RSU288C400A2345	9RSU288C600A2365

*M45 fitting, replace C by D.

**With pocket, replace U2 by UB

*** Aisi 304 fitting with epoxy filling, replace SU by SV

Electric Wiring in single phase 230V and 3 phases 400V star connection



References of accessories in option

(not included in the product, must be ordered separately):

Nuts

	Thread	1½"	M45x200
	Brass	9BRRA3000ELH303A	9BRRA3000ELH305A
	AISI304	9BRRA3000ELH006A	9BRRA3000ELH049A
	AISI316	9BRRA3000ELH203A	9BRRA3000ELH205A

Gaskets

	Thread	1½" - M45x200	Jumpers
	NBR	9BRJ03000ELH205A	
	Fiber	9BRJ03000ELH007A	
	PTFE	9BRJ03000ELH033A	9BRCO1SE4ELH001A

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