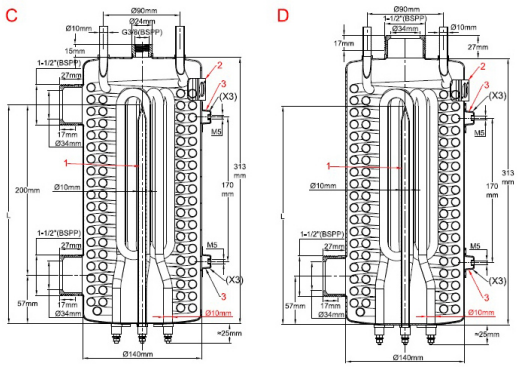
140mm diameter, length 313mm, hairpin tubular heaters, 1½" fittings, With built-in tubular heat exchanger

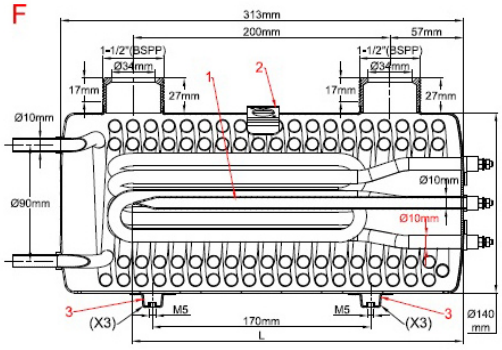
Diameter (mm)	Tank length (mm)	Mounting	Tubular heaters Qty	Maximum power	Type
140	313	Horizontal	3	4,5kw (3 × 1,5kW, 5W/cm²) 9kW (3 × 3kW, 10W/cm²)	9SU831



Vertical (C, D)



Horizontal (F)



Diameter of the heaters: 10mm
Tubular heaters material: 316L (Incolloy 800 optional)
Quantity of tubular heaters: 3
Body material: 304L stainless steel (316L optional)
Material fittings: 304L stainless steel (316L optional**)**
Inlet connection: Male 1½" BSPP cylindrical (1¼" optional)
Outlet diameter: Male 1½" BSPP cylindrical (1¼" optional)
Air vent thread: ⅜" BSPP (on models where it exists)
Tubular heat exchanger: dia. 10 × 8.6mm 316L stainless steel tube, heat exchange surface 4000cm²
Thermowell (1): 304L stainless steel dia. 10 × 8.5mm, length 260mm for thermal cut-out (See thermal cut-out sub assembly models at end of this catalog). Copper thermowell is available on request. This thermowell can also be used for a thermostat bulb or a temperature sensor.
Disc thermostat mounting bracket (2): 1 bracket for thermostat with extended cup (see thermostat models at the end of catalog).
Wall mounting brackets (3): 3 × 2 M5 feet, 170mm center line distance, for wall mounting on 3 different sides. M5 brackets that are not used for wall mountings can be used for grounding.
Accessories: see end of catalog

Standard products, 304L stainless steel tanks, hairpin 316L sheathed heaters, SUS 316L tubular heat exchanger, 1½" fittings

References	Style	Surface load (W/cm²)	Heating elements dia.	Qty of heating elements	Voltage (V)	Power (kW)
9SU831C690Y22E00	C	10	10	3	230-400	3 × 3
9SU831C645Y22E00	C	5	10	3	230-400	3 × 1.5
9SU831D690Y22000	D	10	10	3	230-400	3 × 3
9SU831D645Y22000	D	5	10	3	230-400	3 × 1.5
9SU831F690Y22000	F	10	10	3	230-400	3 × 3
9SU831F645Y22000	F	5	10	3	230-400	3 × 1.5

Power values are the maximum possible power for a given surface load. It is possible to reduce the power by reducing the surface load.

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Examples of insulation and wiring



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