

4.1.4 Tank heater for caustic soda



Application

Tempering of caustic sodas and acid solutions to 20°C to avoid faults due to crystallization in the system.

Low overall height allows heating of fluid from a level of 210 mm.

Design

Flange DN 150 made of stainless-steel mat.-no. 1.4571 (AISI 316Ti), riser pipe resistant against caustic soda, 3 tubular heating elements made of a special material mat.-no. 2.4858 (alloy 825).

Specific surface load 2 W/cm²

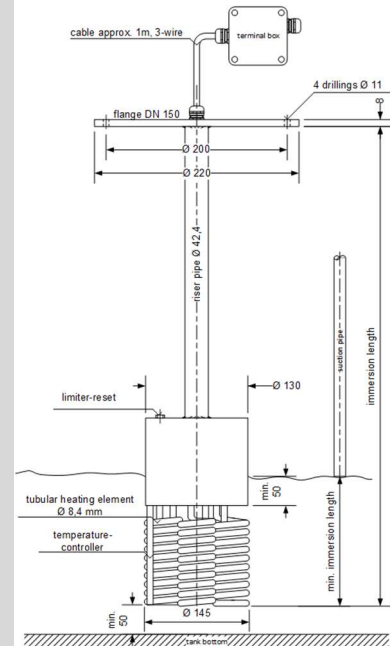
temperature controller adjusted to 20°C

Kindly specify the immersion length as you require

Terminal box 84 x 84 x 47 mm, protection type IP 65

Electrical Connection

at 230 V single-phase current, single-pole thermostat switches directly



Power calculation

For example (not-binding):

With a power of 3 kW it will be possible to hold the temperature of 1500 l caustic soda at 20°C in an uninsulated tank at an ambient temperature of 10°C.

Installation

Provide dome cover with hole diameter 150 mm and 4 stud bolts M 8, bolt circle diameter 200 mm. The immersion depth of the heater must be set to a ground clearance of at least 50 mm, hang it in and screw the flange.

ATTENTION!

The suction pipe must be shortened so that the liquid level does not sink deeper than the minimum immersion depth.

Temperature control

The thermostat turns off at approx. 23°C and turns on at approx. 20°C. The setting may be changed by the manufacturer. Kindly specify the turn-off temperature that you require.

Special design

with temperature-limiter, dry-run protection

other voltages, powers and surface loads are available. Tank heater made of titan is available.

length [mm]	minimum immersion length [mm]	Power [Watt]	Article-no.
250	210	1500	0401 4011
290	230	2250	0401 4021
390	250	3000	0401 4031