

# 5.4 Large immersion heating element

## Model Large immersion heating element for single-phase current

### APPLICATION

- direct heating of water and other non-aggressive fluids that allow a specific surface load of approx. 8 W/cm<sup>2</sup>

### DESIGN

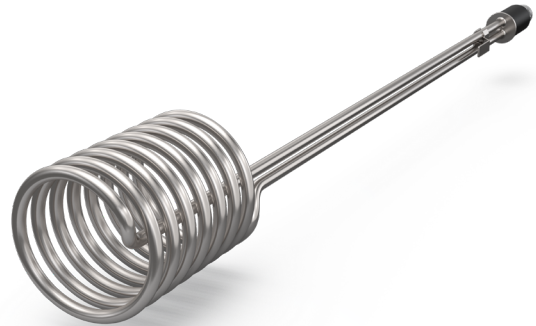
- coiled tubular heating element made of stainless-steel mat.-no. 1.4571 (AISI 316Ti)
- plastic-screw cap for handling, protective type IP 65
- with adjustable retaining clamp
- design with thermostat, externally regulated, see cap-design on catalogue page 5.5

### INSTALLATION

- hang the heater vertically in the liquid and attach at the rim of the tank
- liquid level must be above the minimum immersion length

### ELECTRICAL CONNECTION

- up to 3.000 Watt at 230 V single-phase current, with power cable, 2 m long
- from 4.000 Watt at 3 x 400 V three-phase current, without power cable

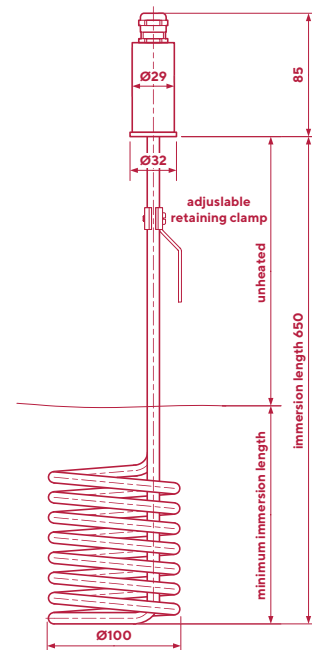


### TECHNICAL DATA

| IMMERSION LENGTH (APPROX. MM) | MIN. IMMERSION LENGTH (APPROX. MM) | POWER (APPROX. WATT) | ARTICLE NO. (WITHOUT THERMOSTAT) | ARTICLE NO. (WITH THERMOSTAT) |
|-------------------------------|------------------------------------|----------------------|----------------------------------|-------------------------------|
| 210                           | 60                                 | 1.000                | 05040011                         | not available                 |
| 300                           | 80                                 | 2.000                | 05040021                         | not available                 |
| 650                           | 80                                 | 2.000                | 05040031                         | 05052011                      |
| 650                           | 130                                | 3.000                | 05040041                         | 05052021                      |
| 650                           | 130                                | 4.000                | 05040051                         | 05052031                      |
| 650                           | 180                                | 5.000                | 05040061                         | 05052041                      |

### ALTERNATIVE DESIGN

- other immersion length or unheated zones
- other voltage or power
- other materials



# 5.5 Large immersion heating element

## Model Large immersion heating element for three-phase current

### APPLICATION

- direct heating of water and other non-aggressive fluids that allow a specific surface load of approx. 8 W/cm<sup>2</sup>

### DESIGN

- 3 coiled tubular heating element made of stainless-steel mat.-no. 1.4571 (AISI 316Ti)
- thermostat 30 to 110 °C, switching difference 5 K, switching capacity see catalogue page 12.5
- steel-cap with handhold, protective type IP 30

### INSTALLATION

- hang the heater vertically in the liquid and attach at the rim of the tank
- liquid level must be above the minimum immersion length

### ELECTRICAL CONNECTION

- at 230/400 V three-phase current



### TECHNICAL DATA

| IMMERSION LENGTH (APPROX. MM) | MIN. IMMERSION LENGTH (APPROX. MM) | POWER (APPROX. WATT) | ARTICLE NO. (WITHOUT THERMOSTAT) | ARTICLE NO. (WITH THERMOSTAT) |
|-------------------------------|------------------------------------|----------------------|----------------------------------|-------------------------------|
| 650                           | 80                                 | 6.000                | 05051011                         | 05050011                      |
| 650                           | 130                                | 9.000                | 05051021                         | 05050021                      |
| 650                           | 130                                | 12.000               | 05051031                         | 05050031                      |
| 650                           | 180                                | 15.000               | 05051041                         | 05050041                      |

### ALTERNATIVE DESIGN

- other immersion length or unheated zones
- other voltage or power
- thermostat 0 to 85 °C, switching difference 4 K, switching capacity see catalogue page 12.5
- protective type IP 65
- other materials
- power cable 4 x 1.5 mm<sup>2</sup>, 3 m long with CEE-plug, 5-pole, up to 9.000 Watt

