

Immersion heaters connection boxes

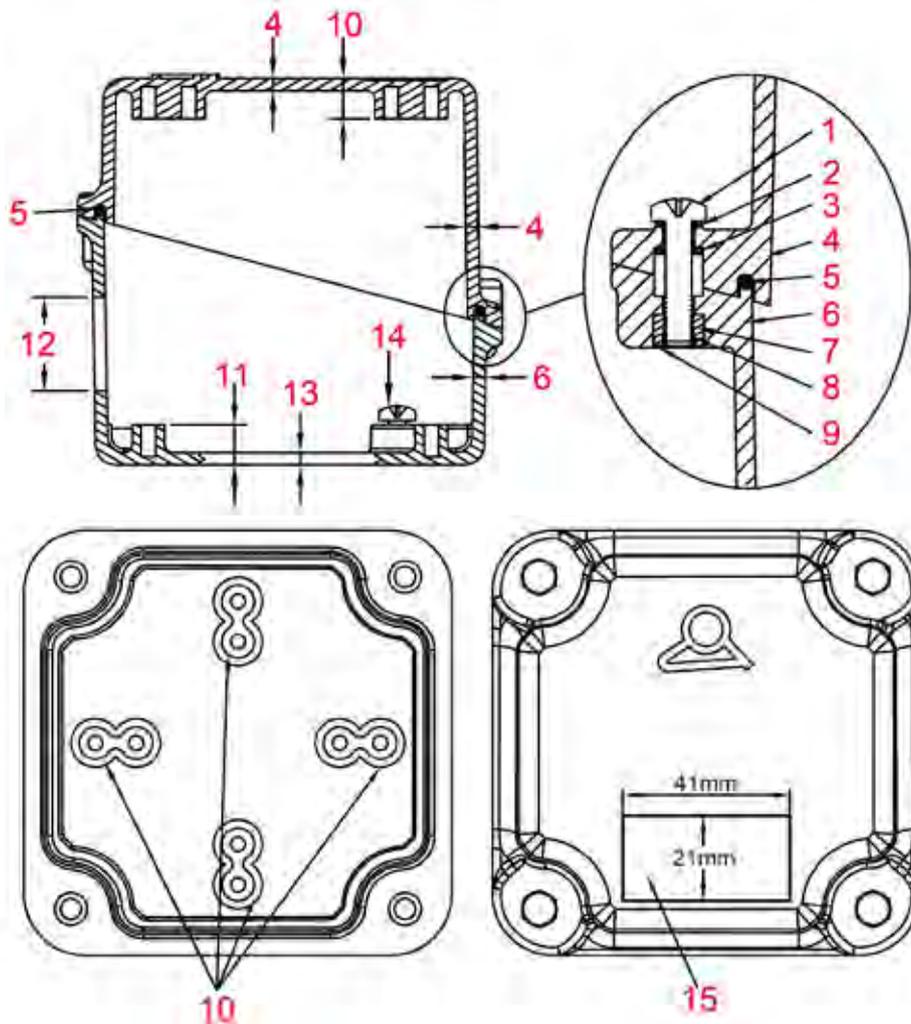
Design

The design of Ultimheat connection boxes for immersion heaters was oriented on the multiplicity of applications and therefore every possible machining.

Two lines of aluminum boxes of similar sizes (whose design is registered) exist:

- A "Universal" range which can cover all applications, and allows the mounting of all variants of accessories, including small series.
 - A "Simplified" range, designed for specific applications, invariable, and large production series, for which the cost prevails on performance.
- The complementary range of plastic enclosures has been designed to be used when aluminum is not convenient.

Technical features comparison of "Universal" and "simplified" types



1: M5 lid screws

2: Galvanic corrosion protection washer

3: Unlosable screw retaining washer

4: Lid wall

5: Lid gasket

6: Bottom wall

7: Crimped nut

8: Nylon on nut

9: Epoxy

10: M4 studs on cover

11: M4 studs on bottom

12: Hole/ thread for cable gland

13: Hole/ thread for immersion heater fitting

14: M4 ground screws

15: Identification label recessed place

Walls and threads

Universal

- 3mm thick body, (and sometimes 4mm for the bottom) allows to make threads without the need for inside nut, for example, cable glands, plugs for internal adjustment of thermostats and immersion heaters fittings

Simplified

- Walls of 1.7 to 2 mm thick which does not allow tapping.
- Mounting accessories (heater fitting, cable gland) shall be made using an internal nut.

Internal accessories mounting

Universal

- Studs on internal lid for mounting thermostat brackets and waterproof shaft outlet
- Studs on internal lower part of the housing for mounting terminal blocks or other accessories not linked with the lid

Simplified

- No studs for accessories internal mounting,
- Thermostats can be mounted only with holes on cover for shaft and mounting screws



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Examples of internal accessories mountings

Universal	Simplified
Outside adjustment thermostat, waterproof shaft outlet	Inside adjustment thermostat with inside printed dial
<p>1: Knob 2: Thermostat shaft 3: Waterproof shaft outlet gasket 4: Lid 5: Bracket 6: Bracket mounting screws 7: Thermostat mounting screws</p>	<p>1: Cable gland cap 2: Gasket 3: Thermostat shaft (short) 4: Arrow clip 5: Bracket 6: Bracket mounting screws 7: Thermostat mounting screws 8: Printed adhesive dial</p>
Inside access manual reset thermostat	Outside access manual reset thermostat
<p>1: Cable gland cap 2: Gasket 3: Lid 4: Bracket mounting screws 5: Bracket 6: M10 x1 nut 7: Manual reset thermostat</p>	<p>1: Silicone cap 2: Lid 3: Bracket mounting screws 4: Bracket 5: M10 x1 nut 6: Manual reset thermostat</p>
Inside access 3 pole manual reset, bottom mounted	Outside access 3 pole manual reset, bottom mounted
<p>1: Cable gland cap 2: Gasket 3: Lid 4: Bracket mounting screws 5: Bracket 6: Manual reset shaft 7: 3 Pole manual reset thermostat 8: Thermostat mounting screws 9: Backside thermostat bracket (x2) 10: Backside bracket screws 11: Box bottom</p>	<p>1: Silicone cap 2: Lid 3: Bracket mounting screws 4: Bracket 5: Manual reset shaft 6: 3 Pole manual reset thermostat 7: Thermostat mounting screws 8: Backside thermostat bracket (x2) 9: Backside bracket screws 10: Box bottom</p>

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

