

Immersion heaters connection boxes

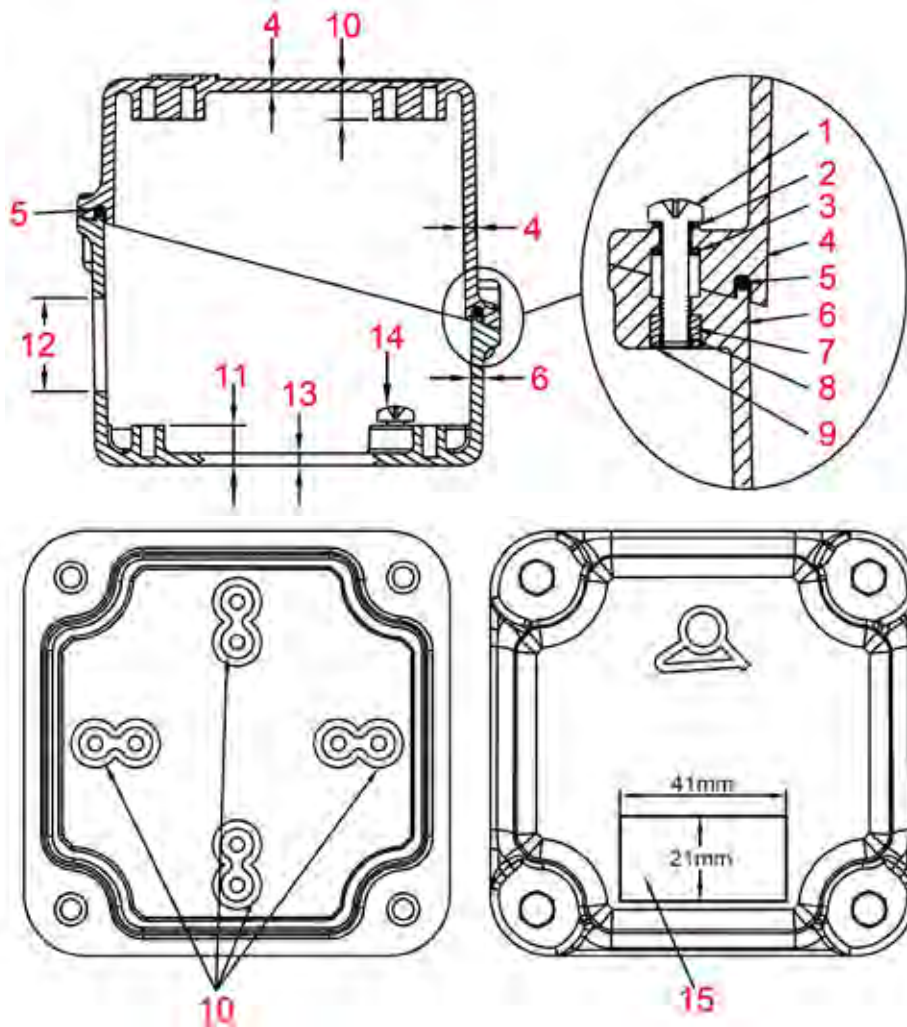
Design

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

