

# BACKER IMMERSION HEATERS FOR WATER HEATING WITH ELEMENT TUBES IN ACIDPROOF STAINLESS STEEL



## Properties

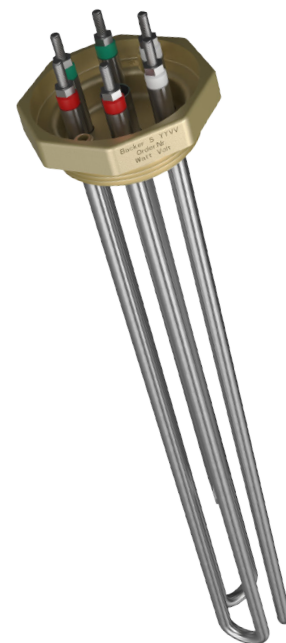
Backer standard range of screw plug immersion/ insertion heaters in stock are suitable as heat sources for instance in domestic water heaters, calorifiers, electric boilers, tanks and industrial baths. The heaters consists of 3 pieces Backer tubular heating elements soldered to a screw plug. It could be fitted with different accessories such as terminal box, thermostat, safety temperature limiter, tube and insulation for flow-through heater, socket key for assembly etc.

## Technical specification

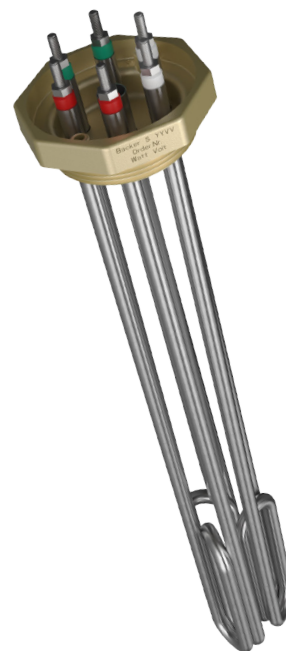
Material	Tubular elements Ø8,5 mm in acidproof stainless steel EN 1.4404/AISI 316L Screw plug G2" (R50, 60 mm) in brass Tube for thermostat/temp.limiter Ø12x0,7 length 187 mm for IU 31R and 260 mm for others
Inactive length	100±10 mm for art. 25203875xx, 60±6 mm for others
Electric connection	M4
Assembly	Kit with gasket and connection parts included
Max working temperature	120°C
Max working pressure	9 bar
Manufacturing standard	Backer 40579311 CE
Standards	SS 4330701, SS-EN 60335-1, UL-1030, ISO 6469-3
Power tolerance	+5% / -10%
Surface power density	Approx. 6-11 W/cm <sup>2</sup> depending on type

## Standard assortment

Type IU	Power W	Voltage V	Insertion length Max mm	Design	Article no
IU31R	1500	230/400	180	U	2520391501
IU3R	2000	230/400	260	U	2520391502
IU34R	3000	230/400	280	U	2520548001
IU36R	4500	230/400	390	U	2520548002
IU39R	6000	230/400	390	IDU	2520548003
IU311R	9000	3x400	390	IDU	2520548004
IU3R	9000	3x400	755	U	2520548005
IU3R	12000	3x400	750	U	2520387504
IU3R	15000	3x400	900	IDU	2520387505
IU315R	15000	3x400	1260	U	2530397706
IU3R	20000	3x400	900	IDU	2520387506
IU3R	23300	3x400	900	IDU	2520387507



Type U

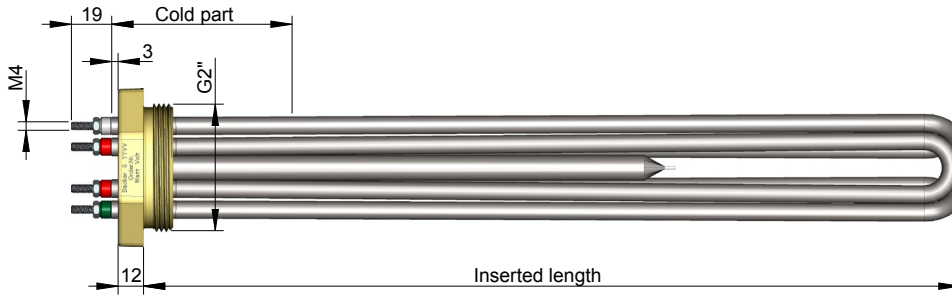


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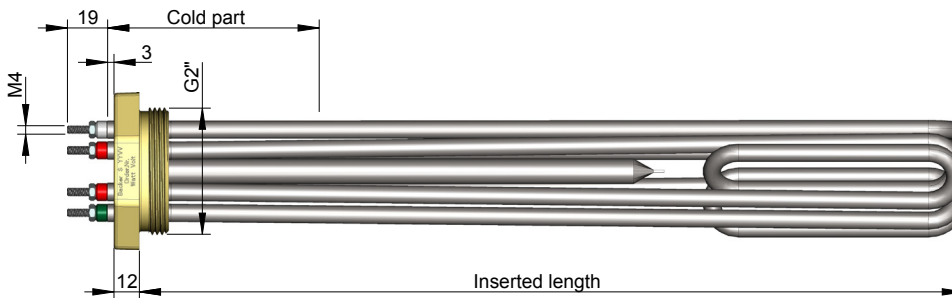
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Type, U



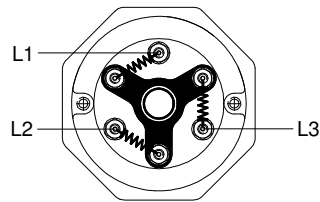
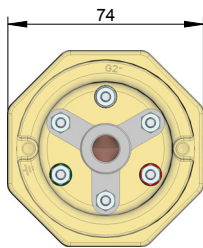
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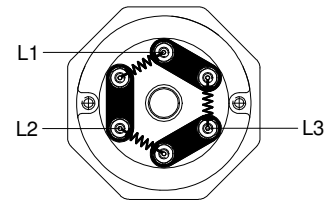
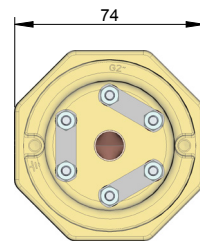
## Circuit diagram/ connection alternatives\*

1500W-6000W

9000W-23300W



Star connection Y 3x400V



Delta connection D 3x400V

\*Electric connection must be performed by an appropriated electrician

## Options

- Terminal boxes, thermostats and safety temperature limiters, different options
- Tube and insulation for flow-through heater, different options
- Socket key G2" article no 1160143201
- Nut G2" in brass article no 1140485405