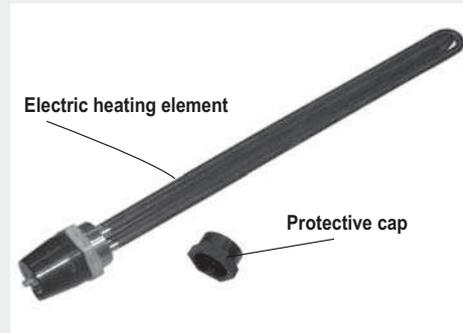


## Electric heating elements for secondary circuit

Electric immersion elements, not included in tank supply, can be mounted in all of the Master DHW storage and production tank installations, either directly for the production of DHW or to backup other heating systems.

Produced in compliance with the European Low Voltage Directive 2006/95/CE, with low specific charge density to avoid lime deposits.

It basically comprises an electric heating element which has to be mounted with an insulating bushing at the 2" GAS/M connections of the storage tank. The electric wiring of the element to the mains socket is by means of conductor wires (not included) or by a delta (230 V III) or star (400 V III) connection.



Technical characteristics		RA4/2-60	RA4/2-90	RA4/2-120
Power	kW	6	9	12
Voltage	V	230/400	230/400	230/400
Connection	"GAS/M	2	2	2
Recommended production electric heating element for tanks	litres	1500...2500	3000...5000	4000...5000
Recommended backup electric heating element for tanks	litres	1500...5000	1500...5000	4000...5000

\* Recommended cable: H05SJ-K according to UNE 21027 standard

# Electrical heating Inertia tanks. MV-I, MV-IS, G-I/F, G-IS tanks

## Electric heating elements for primary circuit

Armoured electric immersion elements, with tight head (IP40 protection) and screwed connection, not included in tank supply. They can be mounted in all tanks for closed circuit installations.

Made of stainless steel and conforming to the European Low Voltage Directive 2006/95/CE.

The electrical wiring of the heating element to the mains socket will be by means of conductor cables (not included in the supply).



Electrical Heater	Power (KW)	Electrical Connection	Tank Connection	Inertia tank application	
RI 4/2-22	2,2	230 V, 3F A	400 V, 3F Y	2"	G-80 to 600-IF; G-IS; MV-I; MV-IS
RI 4/2-54	5,4	230 V, 3F A	400 V, 3F Y	2"	G-80 to 600-IF; G-IS; MV-I; MV-IS
RI 4/2-72	7,2	230 V, 3F A	400 V, 3F Y	2"	G-200 to 1000-IF; G-IS; MV-I; MV-IS
RI 4/2-90	9,0	230 V, 3F A	400 V, 3F Y	2"	G-200 to 1000-IF; G-IS; MV-I; MV-IS
RI 4/2-120	12,0	230 V, 3F A	400 V, 3F Y	2"	G-600 to 1000-IF; G-IS; MV-I; MV-IS

\* Recommended cable: H05SJ-K according to UNE 21027 standard.

## Recommendations for handling electrical equipment:

- Before touching the connection means, ensure that all connection circuits are totally disconnected from the mains power supply.
- Installation, configuration, start-up and maintenance of the heating elements must only be carried out by an authorised electrical fitter. All current rules, standards and regulations must be complied with.
- The tanks must be equipped with a DHW temperature control thermostat (maximum 80 °C) and an all-pole limiting thermostat. The sensors must be positioned higher than the electric heating element.
- Inertia models must be equipped with a temperature control thermostat (maximum 85 °C) and an all-pole limiting thermostat.
- Suitable safety devices should be installed (temperature safety, level safety for heating liquids by natural convection, flow safety in the case of fluids in circulation, etc.).
- The elements must be connected to the mains by means of a power contactor, never directly.
- The installation should be protected by means of an automatic all-pole switch, with a separation of 3 mm or more between contacts, as well as automatic electric protection systems.
- It is the user's responsibility to ensure that the basic requirements of the European Low Voltage Directive are complied with.
- Electric heating elements generate high temperatures. It is advisable to take precautions to ensure the protection of goods and persons against the risk of fire or accidental burns during operation and following the disconnection of the equipment or installation.