

IMMERSION HEATERS WITH SCREW CAP AND TUBULAR HEATING ELEMENTS, RFA RANGE


The 'RFA' range of tubular immersion heaters is apt for installation in process tanks, safety baths, motor oil collectors, pressure receivers, and similar equipment, located in hazardous areas classed as Zone 1 and Zone 2 where the flammable atmosphere is Group IIA, IIB, or IIC. Apt for heating of liquid or gas that is not corrosive to the heater materials.

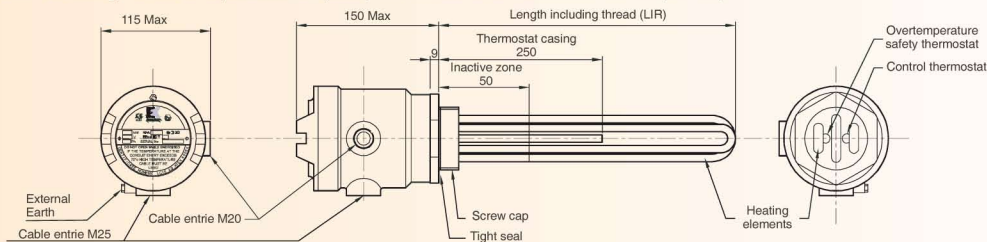
Common applications

- Water or oil preheating
- Cleaning and flushing tanks
- Process equipment
- Heat-transfer systems
- Boilers
- Anti-icing protection

General characteristics

- Certificate ATEX Ex II 2 G/D EEx'd' IIC T3 to T6, in accordance with EN 50014 and EN 50018
- Aluminium terminal box with damp protection IP67
- Integrated temperature sensor
- Valid for ambient temperature down to -40 °C
- Heater coupling using 2" - 2"¼ - 2"½ screw cap
- Designed exclusively for horizontal fitting. Vertical fitting available on request.

- **Terminal box:** Aluminium box with a maximum of 2 inputs for cables, internal and external earth connection, and screw cap. ATEX II 2 G/D EEx'd' IIC T4 to T6 with optional T3 to T6 if the terminal box is separated from the coupling cap (type RFA/SO). Damp protection grade IP67.
- **Heating components:** Maximum of three tubular elements, fabricated with NiCr 80/20 alloy resistive wire, compacted magnesium oxide, and tubular sleeve made of copper, steel, Monel, Inconel, Incoloy 800/825, stainless steel, or titanium, welded to the cap by brazing or TIG welding depending on the application.
- **Controls:** RFA heaters incorporate overtemperature protection by default. Other temperature devices such as thermostats, thermoresistors, or thermocouples may be incorporated as options.
- **Coupling:** Within the design limits, it is possible to specify the thread and material of the coupler cap.


Standard RFA models with 2" stainless-steel AISI 316L screw cap

Standardized models especially designed for use in Biofuel equipment.

Code	LIR in mm	Volts	Watts	W/cm ²	Tube material	Thermostats temperature range	
						control	safety
RFA3-15-DS	381	3-240 Δ 3-415 ⤴	3000	4,7	AISI 321 Ø10	+5 / +80 °C	+95 °C
RFA6-27-DSZ	686	3-240 Δ 3-415 ⤴	6000	2,8	AISI 321 Ø10	+5 / +80 °C	+95 °C
RFA12-27-DSZ	686	3-240 Δ 3-415 ⤴	12000	5,3	AISI 321 Ø10	+5 / +80 °C	+95 °C

Standard RFA models with 2" brass screw cap.
Choice of control thermostat

The control thermostat can be replaced by another from the following

list at no additional cost. If this is necessary, indicate it in your order:

- Scale: -10 / +65 °C
- Scale: +45 / +120 °C

Code	LIR in mm	Volts	Watts	W/cm ²	Tube material	Thermostats temperature range	
						control	safety
RFA111	280	~240	1000	8,4	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA211	280	~240	2000	5,7	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA311	280	3-240 Δ 3-415 ⤴	3000	8,4	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA330	762	3-240 Δ 3-415 ⤴	3000	2,8	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA616	406	3-240 Δ 3-415 ⤴	6000	11,2	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA630	762	3-240 Δ 3-415 ⤴	6000	5,6	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA916	406	3-240 Δ 3-415 ⤴	9000	16,8	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA923	584	3-240 Δ 3-415 ⤴	9000	11,2	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA926	660	3-240 Δ 3-415 ⤴	9000	9,8	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA1223	584	3-240 Δ 3-415 ⤴	12000	14,8	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA1233	838	3-240 Δ 3-415 ⤴	12000	10,1	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C

Standard RFA models with 2" stainless-steel screw cap.
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- Scale: +45 / +120 °C

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						control	safety
RFA111S	280	~240	1000	8,4	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA211S	280	~240	2000	5,7	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA311S	280	3-240 Δ 3-415 ⤴	3000	8,4	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA330S	762	3-240 Δ 3-415 ⤴	3000	2,8	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA616S	406	3-240 Δ 3-415 ⤴	6000	11,2	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA630S	762	3-240 Δ 3-415 ⤴	6000	5,6	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
RFA916S	406	3-240 Δ 3-415 ⤴	9000	16,8	Incoloy-825 Ø8	+5 / +80 °C	+45 / +95 °C
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