

ISES Range of Hazardous Area Ex e Certified Immersion Heaters

The ISES electric heater comprises a large range of process immersion heaters, certified for use in Zone 1 (ATEX and IECEx among others) or Class I, Division 2 (Canada only) hazardous areas, and are custom built to meet client specifications.

FEATURES

Certified to ATEX, IECEx or CSA standards

Terminal box is certified weatherproof to IP67 or Type 4X

Temperature classifications T1 to T6

Up to 5000kW

Anti-condensation heaters fitted, if required

Elements are specially sealed to prevent moisture ingress, and are individually replaceable on site without the need for special tools

Withdrawable type elements are available to facilitate replacement without draining the vessel

Lightweight stainless steel construction terminal box

Suitable and certified for use in ambient temperatures of -60°C to $+60^{\circ}\text{C}$

TYPICAL APPLICATIONS

Butane / propane vaporisers

Crude oil

Glycol (TEG & MEG) reboilers

Molecular sieve regeneration

Synthetic oils

Fuel oils

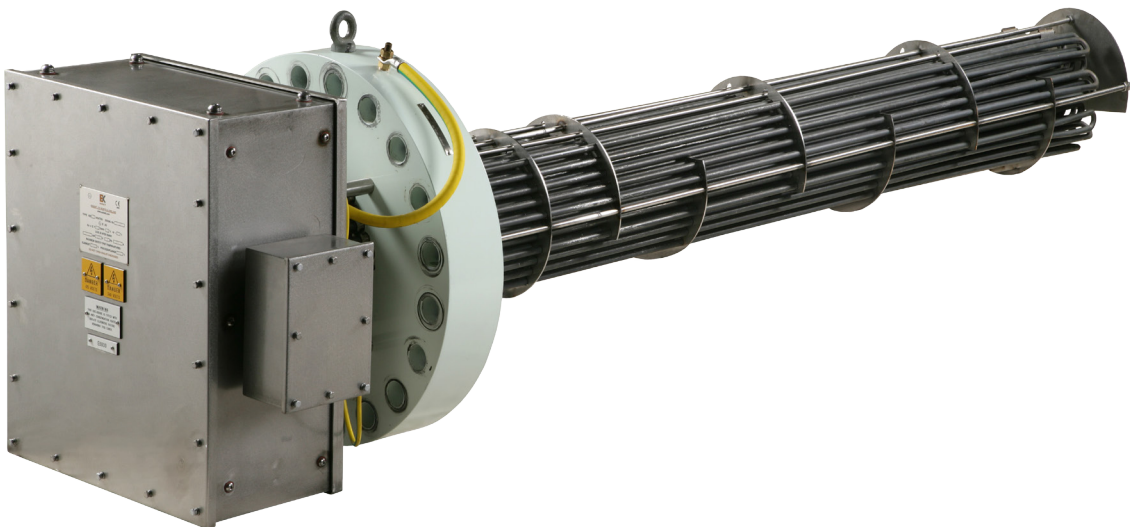
Fresh water

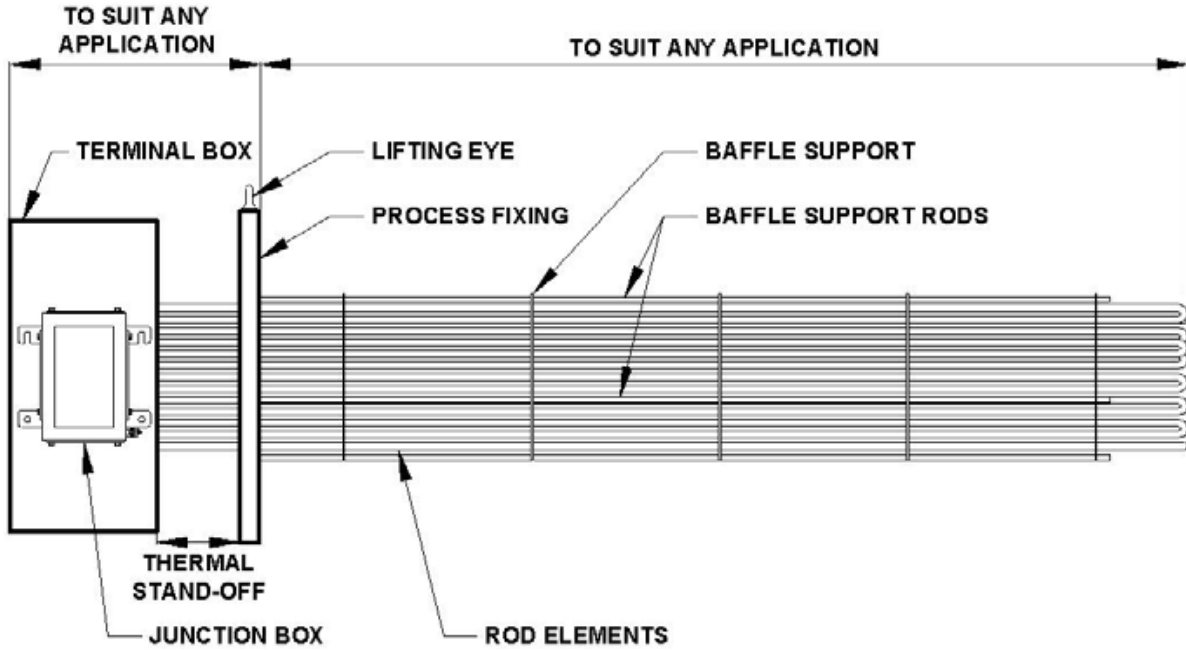
Sea water

Heating medium

Tank heating

KO drums





Nominal Flange Size		kW LOAD with Maximum Immersed Length of 3665 mm		
Inch	mm	1 w/sq cm	2.5 w/sq	7.44 w/sq cm
6	150	30	80	200
8	200	60	160	400
10	250	100	260	650
12	300	150	380	950
14	350	180	460	1150
16	400	245	620	1550
18	450	325	800	2000
20	500	400	980	2500
24	600	585	1460	3650
30	750	1110	2780	5000
36	900	1610	4040	n/a
40	1000	1995	5000	n/a

Certification

ATEX / IECEx II 2 G
 Ex e IIC T1 to T6 Gb IP67
 CSA Class I, Div 2, Groups A, B, C, D, T1 to T6, Type 4 or 4x
 CU TR (formerly GOST), CCOE, CNEEx, Inmetro

Elements

Manufactured from 80/20 NiCr resistance wire with high purity compacted magnesium oxide powder sheathed within corrosion/erosion resistant tube, eg:

- | | | |
|--------------------------|---------------------|----------|
| Incoloy 800/825 | Inconel 600/625 | Titanium |
| 316/316L stainless steel | 321 stainless steel | Monel |