



IRELANDS LEADING IMMERSION HEATERS

Dual or single element
immersions available in
a variety of materials
to suit different
levels of water
hardness.



T 041 983 5611
T 01 842 6255
E sales@elemex.ie






Sanbra Fyffe Ltd, Instantor Works,
Santry Avenue, Dublin D09 K160

elemex.ie

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MAP OF IRELAND TO SHOW WATER HARDNESS BREAKDOWN

-  **Soft**
Less than 100mg/L as calcium carbonate
-  **Soft to moderate**
100mg/L - 200mg/L as calcium carbonate
-  **Moderate to very hard**
200mg/L as calcium carbonate



Copper Immersion Heaters
Suitable for normal / soft water areas



+



Incoloy and Titanium Immersion Heaters
Suitable for moderate to hard water areas

Dual immersion heaters are exclusively used in vertical orientation domestic water cylinders. Dual heaters work in conjunction with a “sink/bath” switch, with a short element used to heat smaller quantities of water, and the longer one to heat the cylinder to the length of the element, i.e. 24”, 27” etc. Heaters are pre-wired, and have either a 1m or 2m 4 core high temperature flexible cable fitted. All heaters are fitted with a control thermostat pre-set at 65°C and an externally resettable high limit cut-out to prevent the water reaching 98°C (in accordance with IS/EN60335-2-73)

- > **Copper:** Suitable for normal water areas
- > **Incoloy:** Suitable for normal to hard water
- > **Titanium:** Suitable for extreme use cases and available on request



Copper | Standard Range

*External Reset Button

Product Code	Thread Size	Length	Rating	Cable Length	Price €
SIHD18ER	2¼”BSP	18”	2 / 2.85kW	1m	
SIHD24ER	2¼”BSP	24”	2 / 2.85kW	1m	
SIHD24ER/2	2¼”BSP	24”	2 / 2.85kW	2m	
SIHD27ER	2¼”BSP	27”	2 / 2.85kW	1m	
SIHD36ER	2¼”BSP	36”	2 / 2.85kW	1m	



Copper | Premium Range

*External Reset Button

Product Code	Thread Size	Length	Rating	Cable Length	Price €
WHD24	2¼”BSP	24”	2 / 2.85kW	1m	
WHD24/2	2¼”BSP	24”	2 / 2.85kW	2m	
WHD27	2¼”BSP	27”	2 / 2.85kW	1m	
WHD27/2	2¼”BSP	27”	2 / 2.85kW	2m	
WHD36	2¼”BSP	36”	2 / 2.85kW	1m	



Incoloy | Premium Range

*External Reset Button

Product Code	Thread Size	Length	Rating	Cable Length	Price €
BID24ER1	2¼”BSP	24”	2 / 2.85kW	1m	
BID27ER1	2¼”BSP	27”	2 / 2.85kW	1m	
BID36ER1	2¼”BSP	36”	2 / 2.85kW	1m	
BID42ER1	2¼”BSP	42”	2 / 2.85kW	1m	

Single element immersion heaters are used in mainly horizontal orientation in domestic water cylinders. All heaters are fitted with a control thermostat pre-set at 65°C and a resettable high limit cut-out to prevent the water reaching 98°C (in accordance with IS/EN60335-2-73) We offer heaters in several thread sizes, to fit all commonly used water cylinders, and in three different sheath materials, to suit various water qualities.

- > **Copper:** Suitable for normal water areas
- > **Incoloy:** Suitable for normal to hard water
- > **Titanium:** Suitable for extreme use cases



Copper

*Internal Reset Button

Product Code	Thread Size	Length	Rating	Mounting	Price €
WH2B	2¼" BSP	11"	2.85kW	Horizontal	



Incoloy

*Internal Reset Button

Product Code	Thread Size	Length	Rating	Mounting	Price €
SWH38/UV/825	1½" BSP	14"	2.85kW	Horizontal	
WH38/UV	1½" BSP	11"	2.85kW	Horizontal	
SWH61	1¾" BSP	14"	2.85kW	Horizontal	
WH61	1¾" BSP	11"	2.85kW	Horizontal	
BIS11E	2¼" BSP	11"	2.85kW	Horizontal	



Titanium

*Internal Reset Button

Product Code	Thread Size	Length	Rating	Mounting	Price €
WH38/UVT	1½" BSP	11"	2.85kW	Horizontal	
WH60T	1¾" BSP	11"	2.85kW	Horizontal	
BTS11E	2¼" BSP	11"	2.85kW	Horizontal	
BTS27E	2¼" BSP	27"	2.85kW	Vertical	

The Economiser (Willis) Heater: for fast, economical domestic hot water

The **ELEMEX** Economiser is a compact, inexpensive unit designed to heat water quickly. It is intended for everyday domestic use, where relatively small quantities of hot water are required, for example: showers, dish washing, hair washing, etc.

Typical use times:

- > Shower: 10 minutes
- > Dish Washing: 5 minutes
- > Hair Washing: 5 minutes

The Economiser consumes no more power than a standard immersion heater, but saves on electricity by heating only the amount of water that you require.

The Economiser is fitted externally to the main hot water cylinder. Easy, user-friendly installation ensures the minimum of mess and disruption.



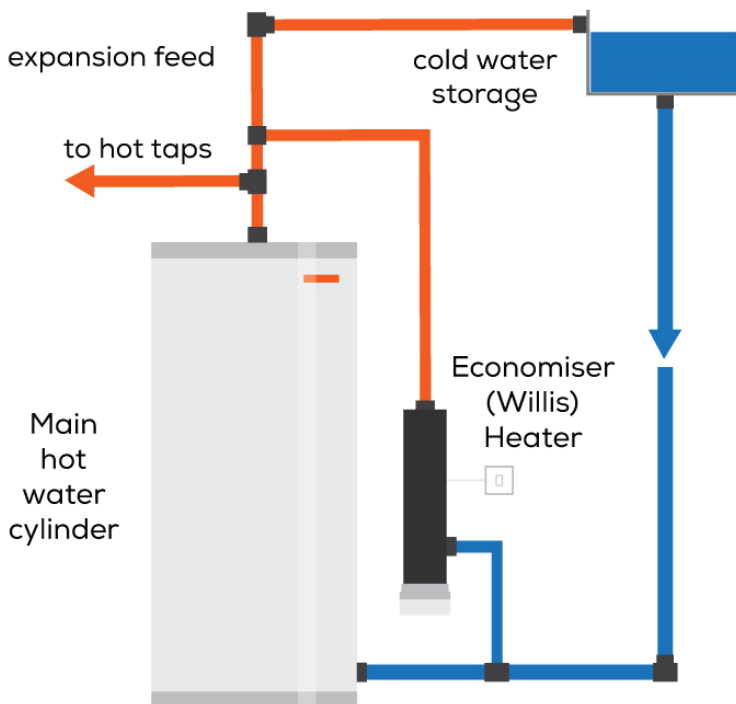
Economiser (Willis)

*Internal Reset Button

Product Code	Thread Size	Length	Rating	Mounting	Price €
SWILLIS	2¼" BSP	11"	2.85kW	Vertical	

The unit comes pre-wired with a 1m flex cable

How it works



The Economiser is fitted in parallel to the main domestic hot water cylinder and heats the water from the top down. So, for a shower (typical requirement – 35 litres @ 40°C), the Economiser will heat only the top 35 litres of the cylinder in about 10 minutes, and the unit should then be switched off.

For maximum efficiency we recommend that the Economiser be fitted in conjunction with a timer (such as the **ELEMEX** T1). This will ensure that the heater is switched off after the required time. You can then set it and forget it.

Rod thermostats are available in two main types: > Control only

> Combination Control & Cut-Out

Both are used in domestic immersion heaters, and are made in three stem lengths (measured underneath the head) of 7" (178mm), 11" (279mm), and 18" (457mm). Both have 7.5mmØ stems, designed to fit into a 5/16" (7.9mm) i.d tube. The control thermostats are factory pre-set at 60°C and should be used in conjunction with a separate over-temperature device in domestic applications. The combination types have two separate sets of contacts, one adjustable and one factory set, giving a one piece compliance with IS/EN 60335-2-73.



Control Only

7.5mm Stem Diameter

Product Code	Stem Length	Range °C	Pre-set °C	Cut-out °C	Current Rating	Price €
WH14	7"	40-80°	60°	N/A	15A	
WH15	11"	40-80°	60°	N/A	15A	
WH16	18"	40-80°	60°	N/A	15A	



Control Only

Premium Range Control Stats

7.5mm Stem Diameter

Product Code	Stem Length	Range °C	Pre-set °C	Cut-out °C	Current Rating	Price €
WH14S	7"	50-80°	N/A	N/A	16A	
WH15S	11"	25-65°	N/A	N/A	16A	
WH16S	18"	35-65°	N/A	N/A	16A	



Control & Cut-out

7.5mm Stem Diameter

Product Code	Stem Length	Range °C	Pre-set °C	Cut-out °C	Current Rating	Price €
WH14CH	7"	0-65°	N/A	89°	16A	
WH15CV	11"	0-65°	N/A	89°	16A	
WH16CV	18"	0-65°	N/A	89°	16A	



TSE

WH15RTS

WH15TT

Spade Connect

Spade Connect

Wire Connect

**Control & Cut-out
Misc Replacement Stats**

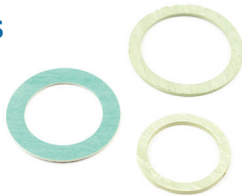
6mm Stem Diameter

Product Code	Stem Length	Range °C	Pre-set °C	Cut-out °C	Current Rating	Price €
TSE	11"	10-70°	N/A	80°	16A	
WH15RTS	11"	10-70°	N/A	90°	16A	
WH15TT	11"	10-65°	N/A	75°	16A	

We offer a comprehensive range of accessories for the installation and control of our immersion heaters.

- All immersion heaters will require a gasket or ‘O’ ring, and while these are supplied with the heater kit as standard, spares or replacements will often be needed.
- Most of our domestic heaters are installed in water cylinders with a pre-fitted threaded entry, but where it is necessary to fit a heater through a plain hole in a vessel wall, we offer flanges and backnuts for all common sizes.
- Vertically mounted immersion heaters generally have an 86mm A/F hex flange, larger than most adjustable wrenches can accommodate, and we offer low cost spanners to aid fitting, allowing uniform tightening without distorting the head or receptacle.
- Our heater timer provides a low cost means of short burst water heating, and eliminates the perennial problem of “forgetting to turn off the immersion”, thus providing dramatic savings in running costs.

Gaskets



Part No	Size	Dimensions (mm)	Price €
WH10B	1½" BSP	49 x 71 x 2	
WH10C	1¾" BSP	53 x 77 x 2	
WH10/1	2¼" BSP	66 x 83 x 1.5	

‘O’ Rings



Part No	Size	Dimensions (mm)	Price €
G024	1½" BSP	37 x 43 x 3	
G020	1¾" BSP	49 x 56 x 3.5	
G022	2¼" BSP	60 x 67 x 3.5	

Backnuts

For fitting to an open topped or accessible vessel



Part No	Size	Price €
BN12	1½" BSP	
BN24	2¼" BSP	

2 Part Flange

For fitting to a closed vessel from the outside



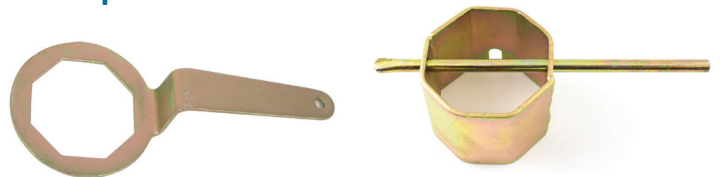
Part No	Size	Price €
WH11	2¼" BSP	

Plugs



Part No	Size	Price €
074006	1¾"	
920100	2¼"	

Spanners



Part No	Size	Type	Price €
900032	86mm A/F	Flat	
WH13	86mm A/F	Box	

Controls

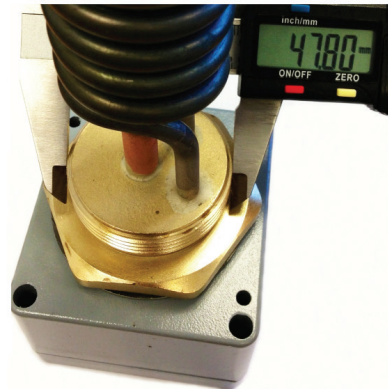
Part No	Rating	Price €
T1	16A	

Single button electronic run back timer
Range: 15mins - 2 hours, in 15 minute increments



MEASURING BSP THREAD SIZES

BSP	Basic Major Dia. (mm)	Basic Minor Dia. (mm)
1/16"	7.72	6.56
1/8"	9.73	8.56
1/4"	13.16	11.45
3/8"	16.66	14.95
1/2"	20.96	18.63
5/8"	22.91	20.59
3/4"	26.44	24.12
7/8"	30.2	27.88
1"	33.25	30.29
1 + 1/4"	41.91	38.95
* 1 + 1/2"	47.8	44.85
1 + 3/4"	53.75	50.7
2"	59.61	56.66
2 + 1/4"	65.71	62.75
2 + 1/2"	75.18	72.23
2 + 3/4"	81.53	78.58
3"	87.88	84.93



* The measurement on the left shows the 'Basic Major Dia.' of a 1½" BSP Thread

The "Basic Major Dia. (mm)" can be obtained by measuring the larger thread diameter on the threads of your immersion - typically called the "across the thread" measurement.

The "Basic Minor Dia. (mm)" can be obtained by measuring the smaller thread diameter. This measurement will closely resemble the measurement on the "port" or "inlet" on the tank.

ELEMEX

| CONTACT US

Sales Office:

Tel: +353 (0)41 983 5611 / +353 (0)1 842 6255

Email: sales@elemex.ie

Sales Office Manager:

Ciaran Beirne

Email: ciaran@elemex.ie

Field Sales Team:

Leinster

Padraig Corcoran

Tel: +353 (0)87 205 5110

E: padraig.corcoran@elemex.ie

Munster

Mark Healy

Tel: +353 (0)87 777 0832

E: mark.healy@elemex.ie

Connacht, Cavan, Donegal & Monaghan

Sean McEvilly

Tel: +353 (0)87 161 5587

E: sean.mcevilly@elemex.ie

Northern Ireland

Mark Neeson

Tel: +44 (0)74 952 12961

E: mark.neeson@elemex.ie



T: 041 983 5611 / 01 842 6255 E sales@elemex.ie www.elemex.ie

Sanbra Fyffe Ltd

Instantor Works, Santry Avenue, Santry, Dublin D09 K160

Make the connection with us socially

