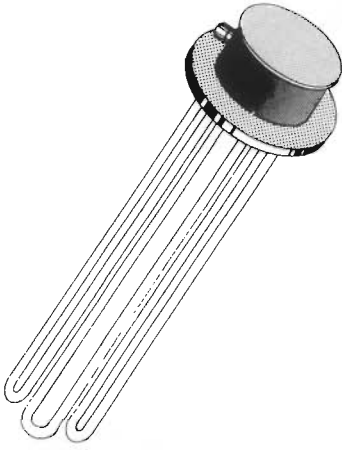


FLANGED IMMERSION HEATERS



FLANGED IMMERSION HEATERS

Helios manufacture a varied range of flanged immersion heaters for direct immersion into water, oils, resins, food stuffs and many other liquids and gasses.

GENERAL CONSTRUCTION

The standard immersion unit consists of a number of robust hairpin shaped heaters welded or glanded into a blind pipe flange. All units have heaters in multiples of three for use with single or 3 phase power supply, and are terminated in a protective steel junction box.

VERSATILITY

This type of unit gives simple, low cost installation, 100% heating efficiency generated within the solution, and minimum resistance to the circulation of solutions to be heated.

INSTALLATION

The immersion units, having standard pipe flanges, are easily installed through a matching companion flange fitted to the product tank, making Helios Immersion Heaters suitable for a variety of positions in tanks, vats, pipes or irregular shaped vessels.

CONTROL

Provision is made for the installation of control and/or safety thermostats, with sensing probes into protective wells, mounted to the heater bundle flange.

SELECTION OF HEATERS

The selection of the proper flanged immersion heater requires careful engineering judgement. The design will be influenced by the following:

1. Heat characteristics of the product in solution, its concentration, and temperature.
2. Corrosive nature of product to be heated.
3. Flow rate and process heat up time.

All units are hydrostatically tested to twice their operating pressure.

IN LINE CIRCULATION HEATERS

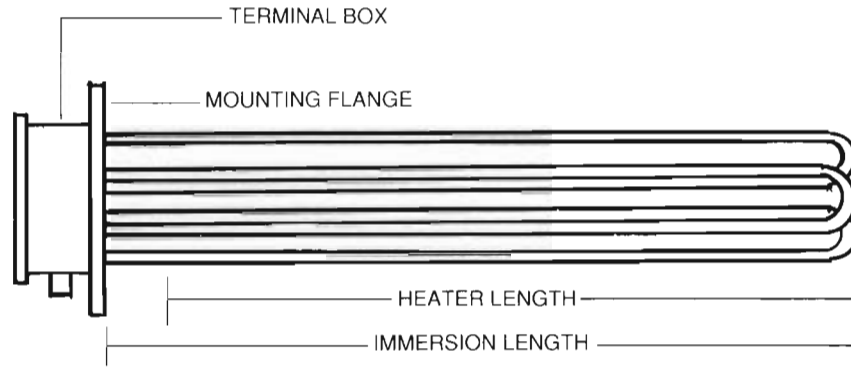
Helios Circulation Heaters are designed to heat liquids or gasses which flow through pipework on either a recirculating or single pass basis.

Using the appropriate flanged heater as a heat source, and with the addition of baffles and a barrel to create a cross flow effect over the heaters, the Helios In Line Circulation Heater is ideal for the remote heating of storage vessels and materials as they flow through process pipework.

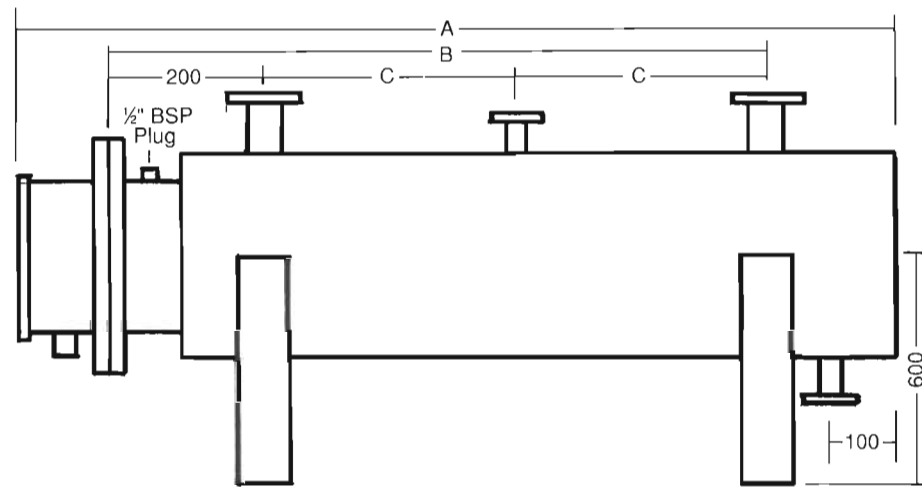
The following pages cover our standard range of oil and water heaters. Please consult with Helios for our recommendations and advice.

HELIOS FLANGED IMMERSION HEATERS AND CIRCULATION HEATERS – WATER

FLANGED IMMERSION HEATER



IN-LINE CIRCULATION HEATER



INCOLOY TUBULAR HEATERS RATED AT 100 kW/m²

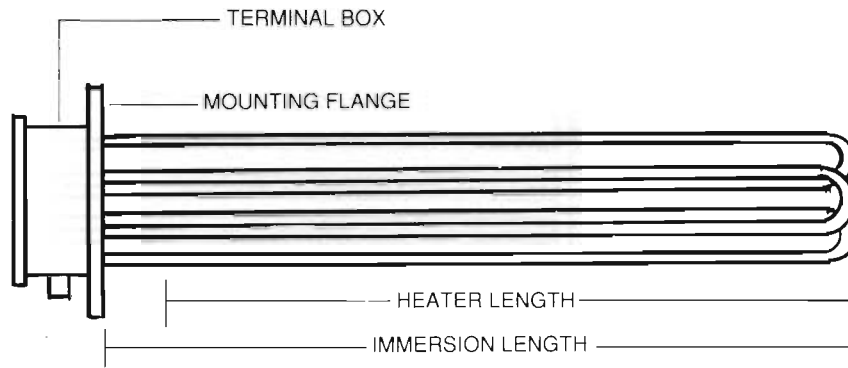
FLANGED IMMERSION HEATER – WATER					
Rating kW	Catalogue Number	Flange Size mm	Immersion length mm	Number of Heaters	Number of Stages
10	FIW10	80	700	3	1
15	FIW15	80	950	3	1
20	FIW20	125	700	6	1
40	FIW40	150	850	9	1
60	FIW60	150	1190	9	2
80	FIW80	150	1500	9	2
100	FIW100	200	1050	18	2
150	FIW150	200	1450	18	2
200	FIW200	250	1300	27	2
250	FIW250	300	1300	36	2
300	FIW300	350	1200	45	3
350	FIW350	350	1400	45	3
400	FIW400	350	1550	45	3

CIRCULATION HEATERS – WATER					
Catalogue Number	Dimensions mm				
	A	B	C	Inlet Outlet	Bleed Drain
CHW10	1025	925	250	25NB	25NB
CHW15	1275	1175	375	25NB	25NB
CHW20	1075	925	250	40NB	25NB
CHW40	1225	1075	325	50NB	25NB
CHW60	1565	1415	495	50NB	25NB
CHW80	1875	1725	650	50NB	25NB
CHW100	1475	1275	425	80NB	25NB
CHW150	1875	1675	625	80NB	25NB
CHW200	1820	1525	550	80NB	25NB
CHW250	1830	1525	550	100NB	25NB
CHW300	1730	1425	500	100NB	25NB
CHW350	1930	1625	600	150NB	25NB
CHW400	2080	1775	675	150NB	25NB

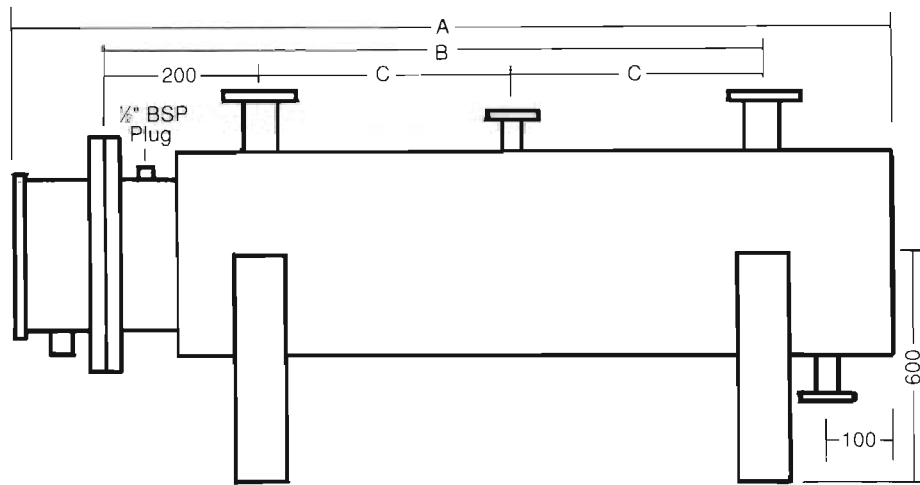
Incoloy Tubular Heaters rated at 100kW/m²
 Each Heater is rated at 415 volts from and including FIW60 to FIW400

HELIOS FLANGED IMMERSION HEATERS AND CIRCULATION HEATERS – OIL

FLANGED IMMERSION HEATER



IN-LINE CIRCULATION HEATER



INCOLOY TUBULAR HEATERS RATED AT 24kW/m²

FLANGED IMMERSION HEATER – OIL					
Rating kW	Catalogue Number	Flange Size mm	Immersion length mm	Number of Heaters	Number of Stages
5	FIO5	80	1285	3	1
10	FIO10	150	925	9	1
15	FIO15	150	1285	9	1
20	FIO20	200	925	18	1
30	FIO30	200	1285	18	1
40	FIO40	250	1170	27	1
50	FIO50	250	1400	27	1
60	FIO60	300	1290	36	2
80	FIO80	350	1360	45	3
95	FIO95	350	1580	45	3

CIRCULATION HEATERS – OIL					
Catalogue Number	Dimensions mm				
	A	B	C	Inlet Outlet	Bleed Drain
CHO5	1610	1510	542	25NB	25NB
CHO10	1300	1150	363	50NB	25NB
CHO15	1660	1150	543	50NB	25NB
CHO20	1350	1510	363	80NB	25NB
CHO30	1710	1510	543	80NB	25NB
CHO40	1700	1395	485	80NB	25NB
CHO50	1930	1625	600	80NB	25NB
CHO60	1820	1515	545	100NB	25NB
CHO80	1890	1585	580	150NB	25NB
CHO95	2110	1805	690	150NB	25NB

Incoloy Tubular Heaters rated at 24kW/m²

In industry there are many oils which require heating, each having its own very different characteristics and properties – it is therefore recommended you consult with Helios for the correct heater selection and helpful advice.