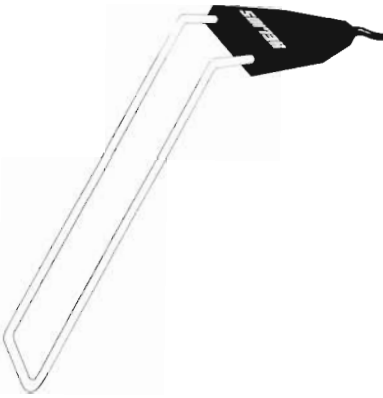


HELIOS IMMERSION HEATERS



OVER THE SIDE IMMERSION HEATERS

Tubular over the side immersion heaters are designed for use in liquids or solutions where easy removal of heaters for periodic inspection or cleaning is necessary, and where modification to an existing tank is impracticable to suit other forms of heating.

The Helios range of over the side immersion heaters are the first in Australia featuring an absolute liquid tight electrical termination.

Used mainly in the metal finishing industry where acids and other liquid chemicals are heated. Splashes and spillages are no longer a concern as the electrical termination is totally encapsulated in a rubber moulding, thus eliminating the problem of moisture, causing premature electrical failure.

A selection of sheath materials and wattages can be made from the chart below.

Should our range of stock heaters not suit your application, a custom made heater can be manufactured to your individual requirements.

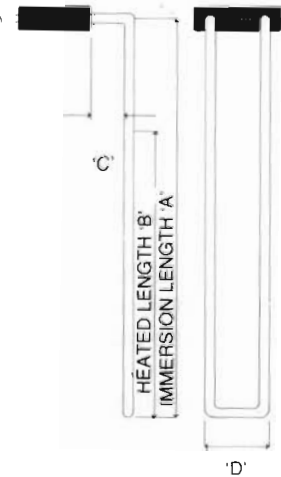
Should an initial boost of heat be required, extra heaters are easily removed when the required temperature is reached.

CONTROL

Where temperature control is required and in the interests of energy utilization, a thermostat is mounted in a fully sealed polycarbonate junction box (0-40 deg C) (30-110 deg C) see page 58.

OVER THE SIDE TYPE

Catalogue Number	Wattage	Application	Sheath Material	Dimensions							
				Immersion A		Heated B		C		D	
				mm	in	mm	in	mm	in	mm	in
TS20	2000	FOR SUITABILITY REFER CORROSION CHART PG 54	Steel	710	28	480	19	75	3	100	4
TS30	3000			890	35	660	26	75	3	100	4
TS40	4000			1090	43	860	34	75	3	100	4
TS50	5000			1320	52	1090	43	75	3	100	4
TI20	2000			Incoloy 825	710	28	480	19	75	3	100
TI30	3000		890		35	660	26	75	3	100	4
TI40	4000		1090		43	860	34	75	3	100	4
TI50	5000		1320		52	1090	43	75	3	100	4
TAS20	2000		Type 316 Stainless Steel		710	28	480	19	75	3	100
TAS30	3000			890	35	660	26	75	3	100	4
TAS40	4000			1090	43	860	34	75	3	100	4
TAS50	5000			1320	52	1090	43	75	3	100	4
TAT20	2000			Titanium	710	28	480	19	75	3	125
TAT30	3000		890		35	660	26	75	3	125	5
TAT40	4000		1090		43	860	34	75	3	125	5
TAT50	5000	1320	52		1090	43	75	3	125	5	



ALL SHEATHS ARE AVAILABLE EX STOCK
STANDARD FORM MAY BE BENT TO BETTER SUIT TANK DIMENSION
AND CONTROL THERMOSTAT FITTED WHERE REQUIRED.

HELIOS IMMERSION HEATERS

OVER THE SIDE TYPE QUARTZ SHEATHED

Helios quartz sheathed over the side immersion heaters, manufactured in Australia, are used for heating acid and pickling baths, and are engineered for better performance, long life and easy maintenance.

CONSTRUCTION

The pure fused Silica sheath is highly resistant to corrosion, thereby eliminating the possibility of upsetting the chemical balance of solutions by metallic contamination. A nickel-chrome alloy resistance wire wound into a high purity ceramic core, and centered in this fused quartz tube gives a heater which is totally protected and easily removed for maintenance.

The cable compression gland and 'O' ring sealed junction box prevent solution vapours from entering the heater. Care must be taken that the heated portion of the unit is immersed 50mm below the liquid level. Two metres of flex is supplied as standard.

These units are not suitable for use in solutions containing hydrofluoric or concentrated phosphoric acids.

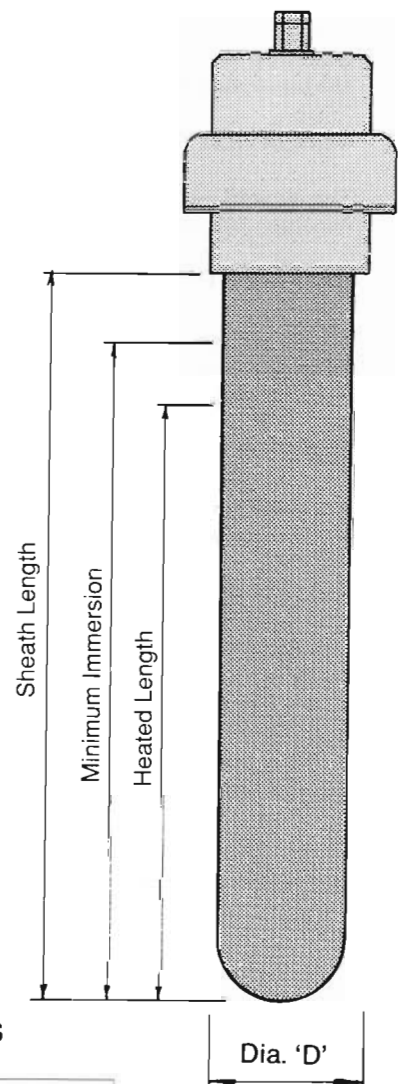
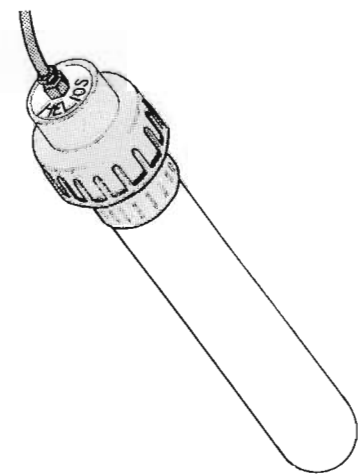
INSTALLATION

It is recommended that all quartz sheathed immersion heaters be mounted in an appropriate protective cage manufactured from steel, and coated in an inert plastic ('Unichrome'), the Helios range of HQ cages offer corrosion resistant protection together with ease of installation.

LABORATORY HEATERS

Quartz heaters can be manufactured in smaller sizes than listed below to suit many small laboratory uses.

Please consult Helios for further information.



HELIOS QUARTZ GLASS IMMERSION HEATERS

CATALOGUE	WATTAGE	SHEATH	MIN IMMERSION	HEATED	DIAMETER
HQ05	500	300	250	200	25
HQ1	1000	450	330	280	25
HQ2	2000	570	450	400	60
HQ3	3000	630	520	460	60
HQ4	4000	710	600	540	60
HQ5	5000	790	690	650	60

NON-STANDARD UNITS CAN BE MANUFACTURED UPON REQUEST.

INSTALLATION OF EARTH LEAKAGE CIRCUIT BREAKERS RECOMMENDED WITH ALL QUARTZ HEATERS.