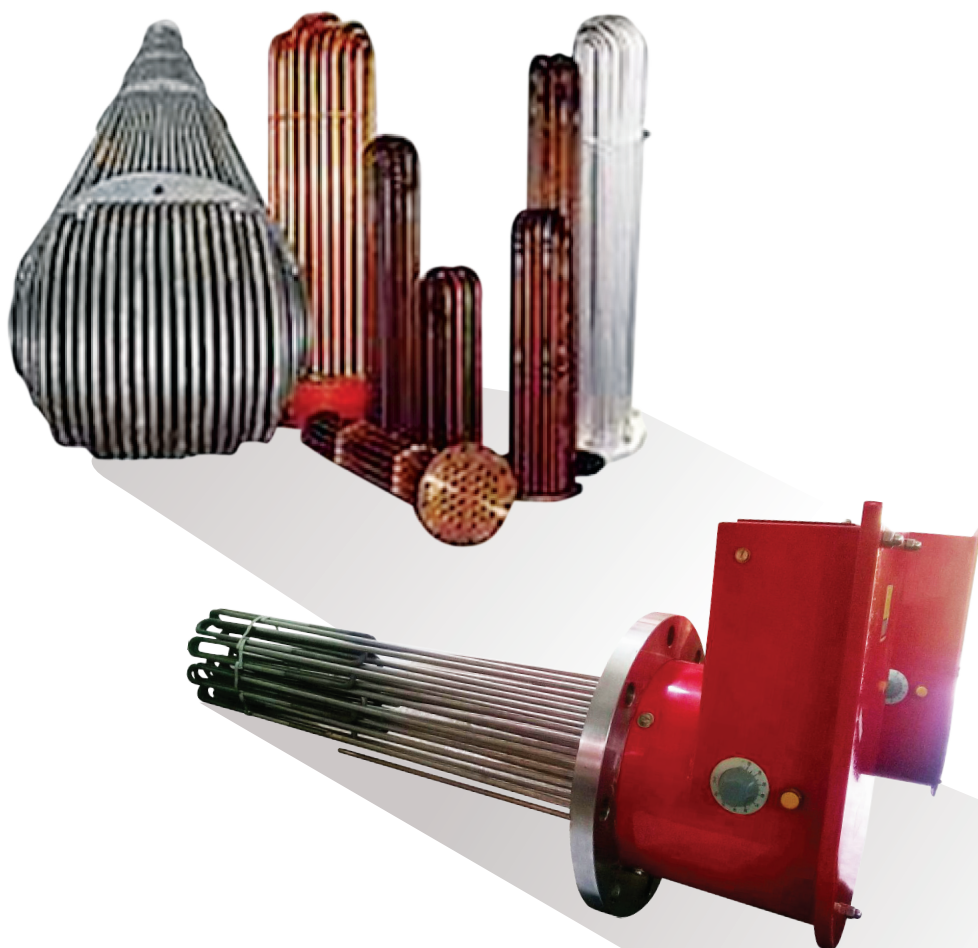




VERSOL HEATING SOLUTIONS - VERSOHEX



VERSOL Immersion Heaters- VERSOHEX-IM Range



VERSOL are specialized in the design and manufacturing of Immersion Heaters for different applications. VERSOL Immersion Heaters are capable to fulfill customer requirements in Heating or Cooling of liquids. VERSOL offers mainly two type of Immersion Heaters

1) U Tube Bundle Immersion Heaters (UT Range)

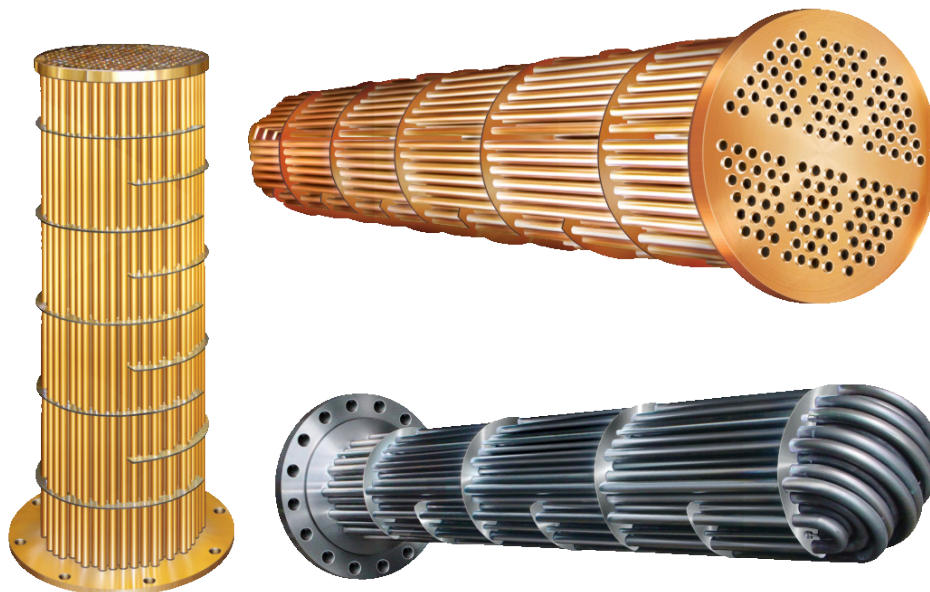
2) Electric Immersion Heaters (EL Range)

VERSOL U Tube Bundle Immersion Heaters (UT Range)

VERSOL U Tube Bundle Immersion Heaters are to be used with Primary Heating Sources like Boilers, Heat Pump, Solar or Geothermal. We are specialised in the design of Tube bundle heat exchangers for range of applications and VERSOL U tube Bundle Immersion heaters can ensure better performance of the system based on the tube designed.

VERSOL Specialty is finned type tubes which will increase the efficiency of heater and low maintenance.

VERSOL U tube Bundle heat exchangers are available to use with Steam or Hot Water and are available in Copper or Stainless Steel materials. Material to be selected based on the type of Calorifiers unit or shell unit where these are going to fix. Copper Lined Calorifiers and Glass Lined Calorifiers are normally used with Copper Tube heat exchangers and Stainless Steel Calorifiers are used with Stainless Steel Heat Exchangers.



Copper Tube Heat Exchangers

Stainless Steel Tube Heat Exchangers

VERSOL U tube Bundle can be designed to use with Steam or Hot Water applications.

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VERSOHEX-IM-UT Range

Heating kW	Area m2	Connection Size	Length
50 kW	UT/50	100 NB	1000 mm
80 kW	UT/80	200 NB	1000 mm
100 kW	UT/100	200 NB	1250 mm
150 kW	UT/150	250 NB	1250 mm
200 kW	UT/200	200 NB	1500 mm
300 kW	UT/300	250 NB	1500 mm
400 kW	UT/400	300 NB	1500 mm
500 kW	UT/500	400 NB	1350 mm
600 kW	UT/600	450 NB	1350 mm
700 kW	UT/700	350 NB	1500 mm
800 kW	UT/800	400 NB	1500 mm
900 kW	UT/900	450 NB	1500 mm

** Heaters are Designed based on the Primary Condition- 85/75C and Secondary Conditions- 25/65C.
And Subject to change based on this Conditions and System Type.

* Dimensions are indicative and to be confirmed before ordering.

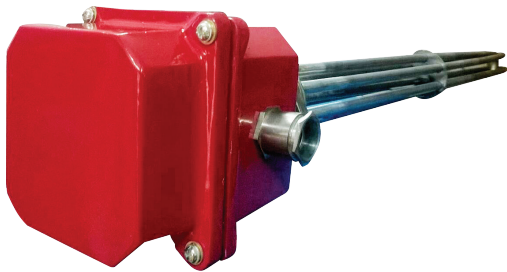
Design Standards:

Normally the U Tube Bundle are designed with recovery time of 2 Hours, to use with Boiler or any other Primary Source. But it can also be designed with 30 minutes or 4 Hours depends on the System requirements.

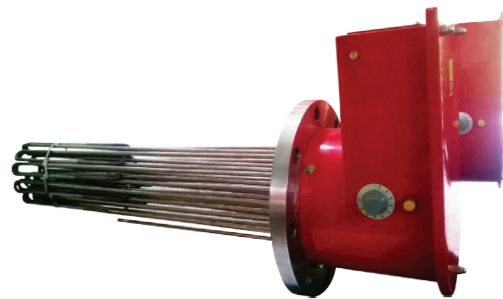
Storage Solutions	Semi Instantaneous/ Instantaneous Solutions
<p>Preferred Recovery Time = 2 Hours Secondary Temperature Change = 45 Dgree C Sample Storage Volume = 4000L U Tune Bundle Heating Load = $(4000/(2*3600)) * 4.2 * 45 = 105 \text{ kW}$</p> <p>Heat Exchanger Area Need to designed based on the primary Source Temperature and Length of the same by Considering the Storage Tank Dimensions.</p>	<p>Preferred Recovery Time = 30 Minutes Secondary Temperature Change = 45 Dgree C Sample Hot Water Demand = 2000L/Hour U Tune Buindle Heating Load = $(2000/(30*60)) * 4.2 * 45 = 210 \text{ kW}$</p> <p>Heat Exchanger Area Need to designed based on the primary Source Temperature and Length of the same by Considering the Shell Dimensions.</p>

VERSOL Electric Immersion Heaters (EH Range)

VERSOL Electric Immersion Heaters (**EH Range**) are manufactured with high quality materials and design standards to ensure life longevity. Heaters can be made of Incolloy 825, Incolloy 800, Stainless Steel and Copper depends on the requirement.



Threaded Type Immersion Heater



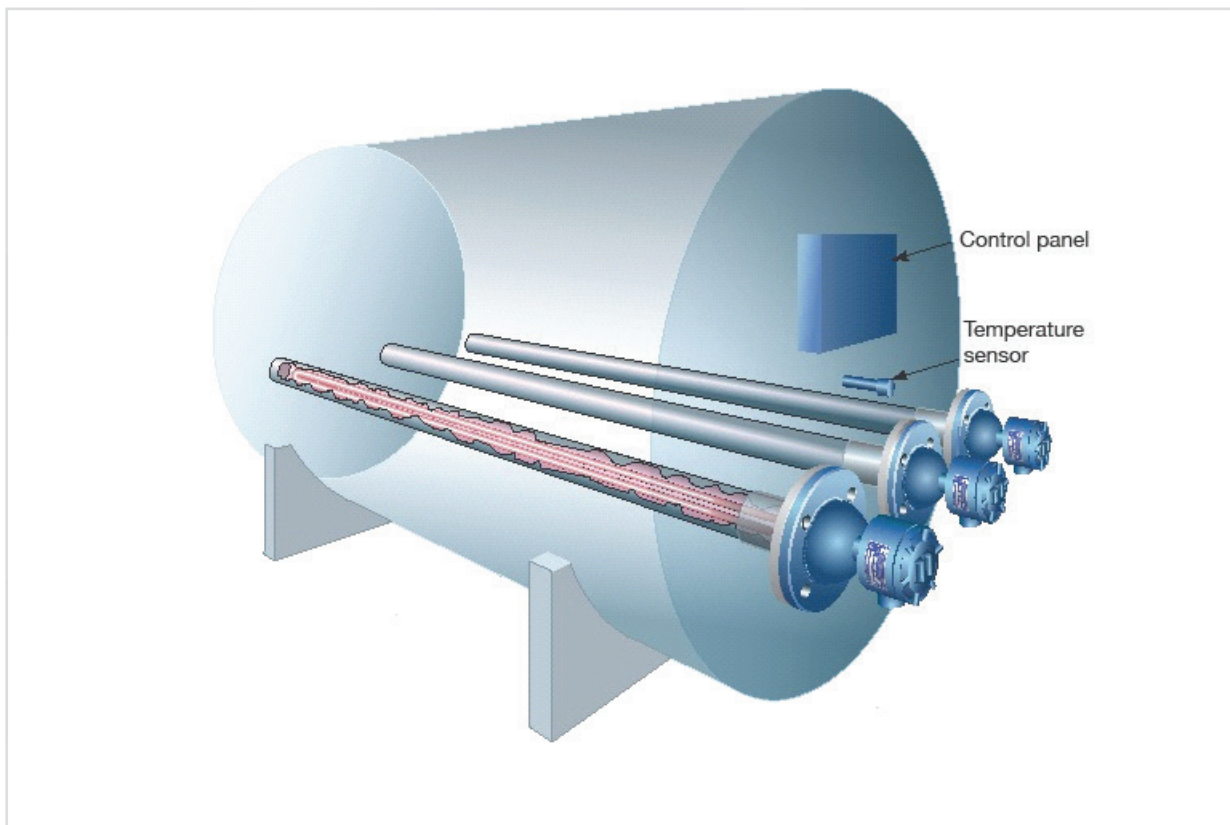
Flanged Type Immersion Heaters

Although electricity is associated with high running costs, it is also a very efficient means of heating domestic hot water due to all the power used being converted into heat. Primary LTHW & steam boilers can be as inefficient as 85% of the power used to heat the medium. Utilizing electricity also negates the need for extra space within the plant room to cover the duty boilers that need to be installed for heating applications can be smaller, thus freeing space for other applications.

VERSOL Electric Immersion Heaters are available in Threaded or Flanged connections depends on the requirement and kW Capacity. Threaded connection heaters are available up to 15kW and the flanged Heaters up to 400kW. Multiple Heater option need to follow for the higher capacity requirements.

The Flanged Heaters can be Supplied in Multiple Stages which will reduce sudden Electricity consumptions and hence can avoid high load fluctuations.

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Threaded Type Electric Immersion Heaters

Heating kW	Supply	Connection Size	Legth
3 kW	1 Phase	1-1/2"	460 mm
5 kW	3 phase	1-1/2"	485 mm
7 kW	3 phase	1-1/2"	635 mm
10 kW	3 phase	1-1/2"	765 mm
12 kW	3 phase	2"	965 mm
15 kW	3 phase	2 "	1070 mm

* Dimensions are indicative and to be confirmed before ordering.

Flanged Type Electric Immersion Heaters

Heating kW	Supply	Connection Size	Legth
10 kW	3 phase	150NB	610 mm
25 kW	3 phase	150NB	610 mm
30KW	3 phase	150NB	610 mm
36KW	3 phase	150NB	610 mm
45KW	3 phase	200NB	610 mm
50KW	3 phase	200NB	610 mm
60KW	3 phase	200NB	610 mm
75KW	3 phase	200NB	740 mm
100KW	3 phase	250NB	740 mm
200KW	3 phase	400NB	890 mm
300KW	3 phase	400NB	1150 mm
400 kW	3 phase	400NB	1150 mm

* Dimensions are indicative and to be confirmed before ordering.

VERSOL Immersion Heaters can be supplied with Control panel, with stage wise operation. All the Electric Immersion Heaters are supplied with Control Thermostat and Safety Thermostats.



VERSOL LTD.

Unit 15 Hanson Lane Enterprise Centre
Hanson Lane, Halifax, HX6 3PP

Email: mail@versol.co.uk www.versol.co.uk