



HEAT TRANSFER ENGINEERING

Manufactures of Industrial Bulk Water Heaters





Industrial Bulk Hot Water Systems

HT “S” Series Storage Water Heaters are designed to provide large quantities of hot water, for use in **hotels, hospitals, hostels, apartment blocks** as well as **large domestic applications**.

PRODUCT SPECIFICATION:

- Manufactured in accordance with ASME VIII Code of Practice, from mild steel, or stainless steel on request.
- Certification of vessels by an Independent Test Authority is also available on request.
- All mild steel vessels are offered standard with a Sigmarite internal protective lining or with Phenoline 1205 as a protective lining for aggressive water areas. Galvanised vessels are also manufactured on request.
- Water heaters are insulated with 50mm thick IW12 fibre wool, and are clad with 0.6mm galvanised sheet metal. Both Stainless steel or Aluminium cladding are also available on request.
- The water heaters are supplied standard with Incolloy immersion elements.
- Dual thermostats with Control and Over temperature features are fitted where required.
- Control Panels with IP54 protection enclosures as standard, are fitted and wired to the elements, or are available as a wall mounted option.
- All units fitted with an over temperature/over pressure (TP) valve.
- All vessels are manufactured as standard for 400kPa pressure, with higher or lower pressures available on request.



MODEL	SIZE	STD LOADING	CAPACITY	MASS (KG)
HT450S	710 x 1680	6 Kw	450	110
HT500S	710 x 1790	6 Kw	500	125
HT600S	862 x 1680	6 Kw	600	150
HT700S	862 x 1820	9 Kw	700	170
HT800S	862 x 1850	9 Kw	800	180
HT1000S	1020 x 1610	12 Kw	1000	250
HT1200S	1020 x 1910	12 Kw	1200	275
HT1400S	1020 x 2210	18 Kw	1400	320
HT1500S	1170 x 1790	18 Kw	1500	340
HT1600S	1170 x 1900	18 Kw	1600	360
HT1800S	1170 x 2130	24 Kw	1800	400
HT2000S	1320 x 1850	24 Kw	2000	450
HT2300S	1320 x 2110	27 Kw	2300	500
HT2500S	1320 x 2280	27 Kw	2500	580
HT2700S	1320 x 2450	27 Kw	2500	580
HT3000S	1320 x 2710	36 Kw	3000	700
HT3600S	1400 x 2570	48 Kw	3600	760
HT4000S	1400 x 2870	48 Kw	4000	880
HT4500S	1450 x 2910	48 Kw	4500	940
HT5000S	1450 x 3210	60 Kw	5000	980
HT6000S	1600 x 3170	60 Kw	6000	1050
HT7500S	1800 x 3160	72 Kw	7500	1250
HT10000S	2100 x 3140	96 Kw	10000	1500
HT12000S	2200 x 3410	108 Kw	12000	1650
HT15000S	2300 x 3890	144 Kw	15000	2000
HT20000S	2400 x 4700	180 Kw	20000	2400

All model listed are available as both vertical or horizontal.

**LARGER VESSELS
AVAILABLE ON REQUEST.**

Heat Transfer Engineering offers a design service for all industrial hot and cold water applications.



**Winner of the
Eskom Energy Effective
Design Award**



Industrial In-Line Water Heaters

HT "I" Series Storage Water Heaters are designed for use in a variety of different applications, such as:

- the heating source for large storage vessels (HT "S" Series Water Heaters)
- for direct water heating where no storage vessel is utilised.
- for heating liquids other than water (food, chemical factories, etc...)

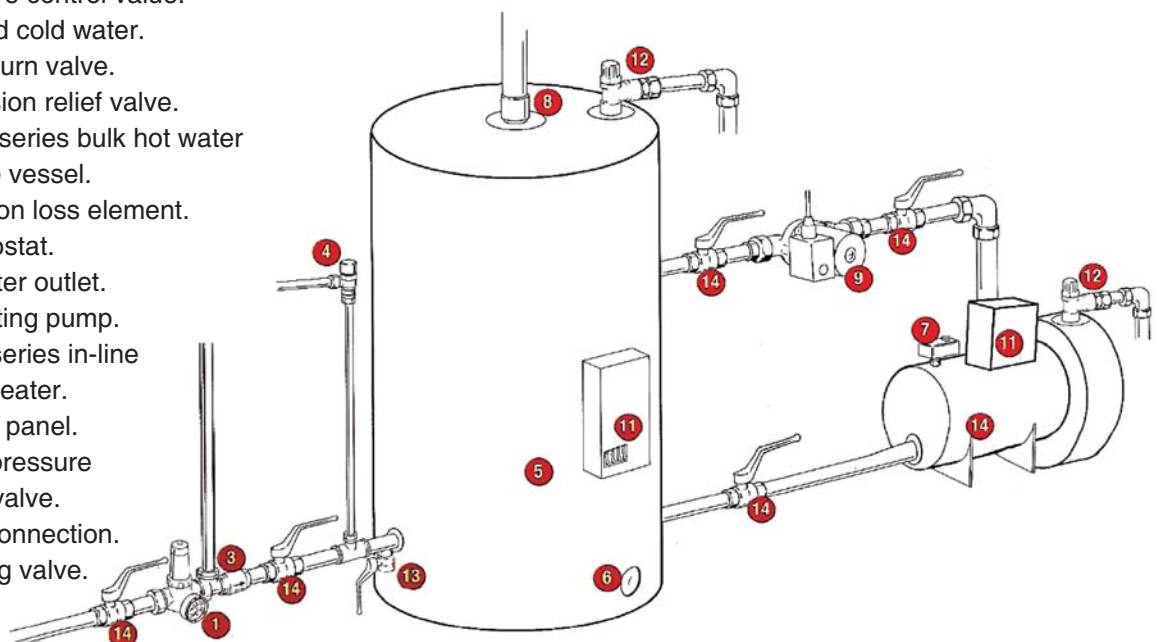


PRODUCT SPECIFICATION:

- Manufactured in accordance with ASME VIII Code of Practice, from mild steel, or stainless steel on request.
- Certification of vessels by an Independent Test Authority is also available on request.
- All mild steel vessels are offered standard with a Sigmarite internal protective lining or with Phenoline 1205 as a protective lining for aggressive water areas. Galvanised vessels are also manufactured on request.
- Water heaters are insulated with 50mm thick IW12 fibre wool, and are clad with 0.6mm galvanised sheet metal. Both Stainless steel or Aluminium cladding are also available on request.
- The water heaters are supplied standard with Incolloy immersion elements.
- Control Panels with IP54 protection enclosures as standard, are fitted and wired to the elements, or are available as a wall mounted option. (Ammeters, voltmeters, timers etc available on request.)
- The units are fitted with dual thermostats which have control and over temperature features.
- All units fitted with an over temperature/over pressure (TP) valve.
- Thermometers and pressure gauges available on request.
- All heaters are manufactured as standard for 400kPa pressure, with higher or lower pressures available on request.
- Units are available from 6Kw to 480Kw.

TYPICAL INSTALLATION:

1. Pressure control value.
2. Blanced cold water.
3. Non return valve.
4. Expansion relief valve.
5. HT "S" series bulk hot water storage vessel.
6. Radiation loss element.
7. Thermostat.
8. Hot water outlet.
9. Circulating pump.
10. HT "I" series in-line water heater.
11. Control panel.
12. Temp/pressure safety valve.
13. Drain connection.
14. Isolating valve.



Royles Calorifiers

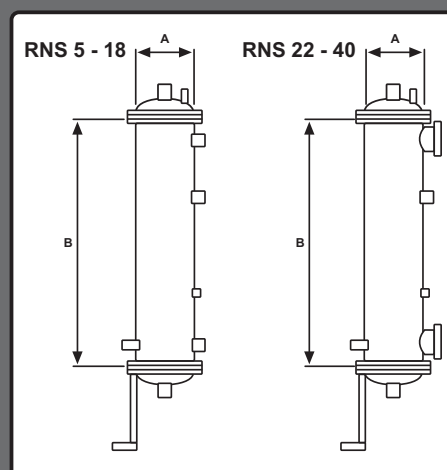
HT “RNS” Series Non Storage Calorifiers are designed and manufactured generally in accordance with the ASME VIII code of practice, from mild steel and in compliance with the Machinery and Occupational Safety Act, with all **steam heads** independently certified to meet the Factories Act requirements.

Manufacturing Specification (Royles Non Storage Calorifiers)

Manufactured using our ROYLES patented indented copper tubes for supreme efficiency.

- Steam domes are certified by an Independent Test Authority.
- Available in both vertical and horizontal models
- Insulation is by means of 40mm fibre wool, clad with 0.6mm galvanised sheet metal, with stainless steel or aluminium on request.
- Calorifiers are generally galvanised, but Sigmarite or Phenoline 1205 protective linings are available on request.
- Practical heating ranges from 75Kw to 6000Kw (See table below).

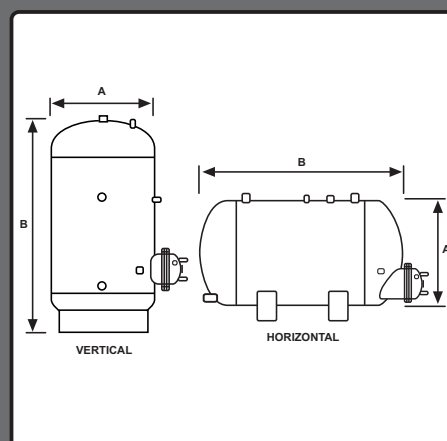
MODEL	DIMENSIONS A x B	HEATING RANGE (KW)	
		MIN	MAX
RNS 5	140 x 920	75	260
RNS 6	165 x 920	100	370
RNS 7	165 x 1370	130	460
RNS 8	220 x 1370	200	730
RNS 10	220 x 1370	300	1000
RNS 14	275 x 1370	450	1530
RNS 17	325 x 1370	540	1870
RNS 18	325 x 1830	540	1870
RNS 22	355 x 1830	950	3250
RNS 27	405 x 1830	1200	4000
RNS 33	460 x 1830	1500	5000
RNS 40	460 x 1830	1750	6000



Royles Storage Calorifiers

Are manufactured to the same specifications as the above.
Non Storage Type Heating Specs as the table below.

MODEL	DIMENSIONS A x B	Mass Kg	KW for 55°C 1Hr
R 450	670 x 1840	121	7.2
R 700	850 x 1660	154	11.2
R 1000	1020 x 1620	187	16
R 1200	1020 x 1900	275	19.2
R 1400	1020 x 2250	330	22.4
R 1600	1170 x 1900	352	25.6
R 1800	1170 x 2150	374	28.8
R 2000	1320 x 1870	396	32
R 2300	1320 x 2100	418	36.8
R 2500	1320 x 2300	451	40
R 2700	1320 x 2450	473	43.2
R 3000	1320 x 2750	528	43
R 3600	1400 x 2870	605	57.6
R 4000	1470 x 2870	649	64.8
R 4500	1550 x 2900	748	72
R 5000	1660 x 2800	803	90
R 5200	1660 x 2900	935	83.2
R 6000	1730 x 3000	990	95.6
R 10000	2200 x 3120	1375	160
R 20000	2300 x 5200	2310	320



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