



**Trusted by
industry leaders.**

Add warmth to life
with Kwikot bulk water heating systems.



Bulk Hot Water systems

Industrial Water Heaters
from 500L to 30 000L



Features

- Industrial tanks designed to supply large quantities of hot water for use in Hotels, Hospitals, Hostels and Ablutions etc. Supply of chiller tanks for airconditioning units.
- Vessels are manufactured from either mild steel or stainless steel on request.
- Mild steel vessels are coated with Carboguard 545 or Glass Flake epoxy on request.
- Vessels are available in vertical or horizontal configuration for floor installation.
- Incalloy elements fitted as standard. Element loading is designed for 6 hour recovery from cold to 60 °C.
- Insulation consists of 50 mm IW24 fibreglass wool clad with 0,6mm galvanised sheet metal or stainless steel cladding on request.
- All vessels are fitted with over-pressure and over-temperature safety valves.
- Vessels are fitted with control and over-temperature thermostats.
- Working pressure up to 400kPa (600kPa available on request).
- Pre-wired, vessel mounted control panels for loadings from 6kW to 84kW (Not limited. Can be customised to specific need).
- Additional electrical accessories including ammeter; volt meter; time and by-pass switches; stepped control and low water cut outs are available on request.
- Flanged connections available on request.

Inline Heaters

KSI6

Inline Water Heater
6kW



Features

- These units are manufactured from mild steel.
- Glass flake epoxy coated.
- Units are insulated with 50mm fibre wool and 0.6mm galvanised cladding or stainless steel cladding on request.
- Element loading to specification but can be manufactured up to 252kW.
- Product is supplied with electrical control, thermostat and safety valve.
- Product can be manufactured to customer specification and include high working pressures, specialised material for non standard dimensions and alternative electrical controls.

Product specifications

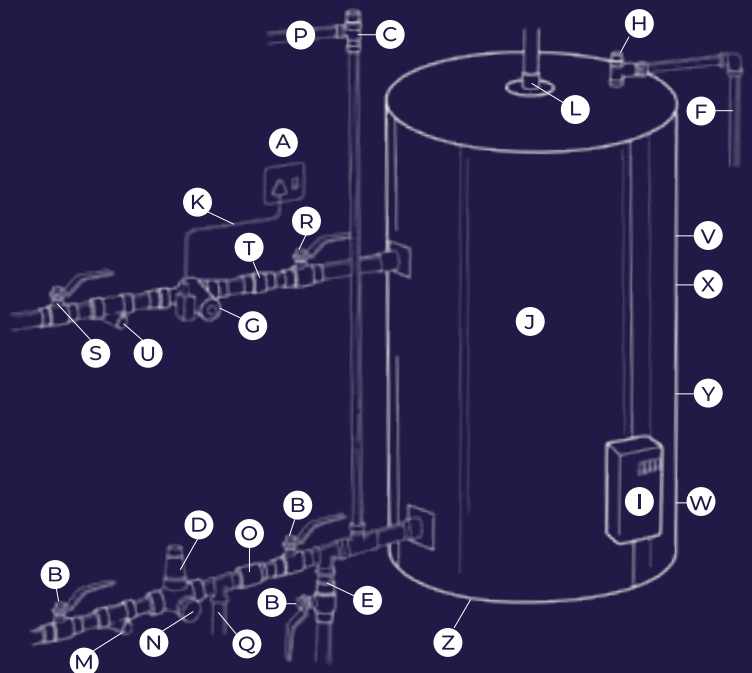
| Product Code | Standard Electrical Loading (kW) |
|--------------|----------------------------------|
| KSI 6 | 6 |
| KSI 9 | 9 |
| KSI 12 | 12 |
| KSI 18 | 18 |
| KSI 24 | 24 |
| KSI 27 | 27 |
| KSI 36 | 36 |
| KSI 48 | 48 |

Product specifications

| Product Code | Capacity (L) | Vertical Size (mm) | | Standard Connections (mm) | Horizontal Size (mm) | | Standard Electrical Loading (kW) | Mass (kg) | Heat Pump Connections (mm) |
|--------------|--------------|--------------------|------|---------------------------|----------------------|------|----------------------------------|-----------|----------------------------|
| | | H | D | | H | L | | | |
| KS 100 | 500 | 1864 | 710 | 5 x 40 | 840 | 2249 | 6 | 125 | 2 x 32 |
| KS 125 | 600 | 1660 | 850 | 5 x 40 | 980 | 1854 | 6 | 150 | 2 x 32 |
| KS 150 | 700 | 1918 | 850 | 5 x 40 | 980 | 2129 | 9 | 170 | 2 x 32 |
| KS 180 | 800 | 1427 | 1020 | 5 x 50 | 1150 | 1645 | 12 | 210 | 2 x 32 |
| KS 200 | 1 000 | 1652 | 1020 | 5 x 50 | 1150 | 1869 | 12 | 260 | 2 x 32 |
| KS 250 | 1 200 | 1927 | 1020 | 5 x 50 | 1150 | 2145 | 12 | 280 | 2 x 32 |
| KS 300 | 1 400 | 2223 | 1020 | 5 x 50 | 1150 | 2444 | 18 | 320 | 2 x 32 |
| KS 350 | 1 600 | 2120 | 1170 | 5 x 50 | 1300 | 2358 | 18 | 360 | 2 x 32 |
| KS 400 | 1 800 | 2345 | 1170 | 5 x 50 | 1300 | 2583 | 24 | 400 | 2 x 32 |
| KS 450 | 2 000 | 2545 | 1170 | 5 x 50 | 1300 | 2783 | 24 | 450 | 2 x 32 |
| KS 500 | 2 300 | 2403 | 1320 | 5 x 50 | 1450 | 2640 | 24 | 540 | 2 x 32 |
| KS 550 | 2 500 | 2605 | 1320 | 5 x 50 | 1450 | 2840 | 27 | 600 | 2 x 32 |
| KS 600 | 2 700 | 2706 | 1320 | 5 x 50 | 1450 | 2940 | 27 | 650 | 2 x 32 |
| KS 650 | 3 000 | 2462 | 1470 | 5 x 50 | 1600 | 2664 | 36 | 700 | 2 x 32 |
| KS 700 | 3 200 | 2582 | 1470 | 5 x 50 | 1600 | 2787 | 36 | 760 | 2 x 32 |
| KS 800 | 3 600 | 2862 | 1470 | 2 x 50 & 3 x 80 | 1600 | 3067 | 48 | 820 | 2 x 32 |
| KS 900 | 4 000 | 2941 | 1550 | 2 x 50 & 3 x 80 | 1680 | 3176 | 48 | 880 | 2 x 32 |
| KS 1000 | 4 600 | 3141 | 1550 | 2 x 50 & 3 x 80 | 1680 | 3478 | 60 | 950 | 2 x 32 |
| KS 1100 | 5 000 | 3541 | 1550 | 2 x 50 & 3 x 80 | 1680 | 3878 | 60 | 1200 | 2 x 32 |
| KS 1300 | 6 000 | 3224 | 1780 | 2 x 50 & 3 x 80 | 1960 | 3435 | 72 | 1500 | 2 x 80 |
| KS 1500 | 6 800 | 3624 | 1780 | 2 x 50 & 3 x 80 | 1960 | 3881 | 72 | 1600 | 2 x 80 |
| KS 2000 | 10 000 | 3933 | 2080 | 2 x 50 & 3 x 80 | 2260 | 4166 | 84 | 1800 | 2 x 80 |

Installation specifications

- A. 15 Amp wall socket
- B. Isolating lever-ball valve, 50mm (INDB-50)
- C. 400kpa Kwikot expansion Relief valve, 20mm (KH2-204)
- D. Industrial pressure Reducing valve, 50mm (KHB-500)
- E. Drain connection
- F. Safety overflow pipe (Metallic)
- G. Inline circulating pump, 25mm (IND-CPN-25-6)
- H. Temperature and pressure safety valve (400kpa) (KH1-404CX)
- I. Electrical control panel
- J. Bulk hot water vessel 1 000 Litres (from 500 to 30 000 Litres) (KS200)
- K. Supply cable
- L. Hot water outlet
- M. Y Strainer, 50mm (INDS-50)
- N. Pressure gauge (KH7-000)
- O. Non-return valve, 50mm (INDN-50)
- P. Expansion overflow pipe (Metallic)
- Q. Balanced cold water
- R. Expansion valve stand pipe
- S. Isolation ball valve, 25mm (INDB-25)
- T. Non-return valve, 25mm (INDN-25)
- U. Y-Strainer, 25mm (INDS-25)
- V. Return connection
- W. Cold water inlet or outlet
- X. Heatpump in connection
- Y. Heatpump out connection
- Z. Drain connection



Please note:

- Tanks are not waterproof. They need to be protected from all weather elements.
- Standard connection sizes and quantities may vary on different tank sizes.
- A comprehensive service for the design of hot and cold water reticulation systems for industrial applications can be requested.
- All accessory sizes will vary accordingly to the installation.

Industrial valves

Industrial adjustable pressure reducing valves

Designed for all industrial bulk water systems.

| Product Code | Connection Size | Connection Type |
|--------------|-----------------|------------------|
| KHN8-150 | 15 mm | 150kPa to 600kPa |
| KHN8-200 | 20 mm | 150kPa to 600kPa |
| KHN8-250 | 25 mm | 150kPa to 600kPa |
| KHN8-320 | 32 mm | 150kPa to 600kPa |
| KHN8-400 | 40 mm | 150kPa to 600kPa |
| KHN8-500 | 50 mm | 150kPa to 600kPa |
| KH8-650 | 65 mm | 150kPa to 600kPa |
| KH8-800 | 80 mm | 150kPa to 600kPa |
| KH8-000 | 100 mm | 150kPa to 600kPa |

Industrial expansion relief valves

Designed for use in Industrial bulk water systems. Comprises of a cartridge with a built-in flushing mechanism and dry spring operation. The body is manufactured from DZR brass.

| Product Code | Connection Size | Connection Type |
|--------------|-------------------------------|-----------------|
| KH2-200 | 20mm FI inlet, 25mm FI outlet | 300kPa |
| KH2-204 | 20mm FI inlet, 25mm FI outlet | 400kPa |
| KH2-206 | 20mm FI inlet, 25mm FI outlet | 600kPa |
| KH2-250 | 25mm FI inlet, 32mm FI outlet | 300kPa |
| KH2-254 | 25mm FI inlet, 32mm FI outlet | 400kPa |
| KH2-256 | 25mm FI inlet, 32mm FI outlet | 600kPa |

Industrial temperature and pressure relief valves

| Product code | Connection Size | Connection Type |
|--------------|-----------------|-----------------|
| KH1-403 IND | 25 mm FI | 300kPa |
| KH1-404 IND | 25 mm FI | 400kPa |
| KH1-406 IND | 25 mm FI | 600kPa |

Product warranty

Product warranties are determined by the correct installation specification and servicing requirements. Please ensure that tanks are protected from all weather elements. They are not waterproof.

- One year on the electrical control panel, thermostat and safety valve.
- All installation guarantees are the responsibility of the installer.
- The warranty is applicable from date of manufacture and subject to water conditions equivalent to Main metropolitan supply authorities.
- Two years on Carboguard 545 coated tanks.
- Five years on Glass Flake epoxy coated tanks

Estimated hot water consumption

| ABLUTION BLOCKS | Per person / per day |
|---------------------|----------------------------|
| Bath | 60 litres |
| Shower | 45 litres |
| Hand basin | 5 litres |
| FLATS | Storage per flat / per day |
| Bachelor/1 bedroom | 100 litres |
| 2 bedroom | 150 litres |
| 3 to 4 bedroom | 200 litres |
| CARAVAN PARK | Per caravan / per day |
| | 150 - 250 litres |
| OLD AGE HOME | Per person / per day |
| Infirm | 60 litres |
| Normal | 110 litres |
| HOTELS | Per person / per day |
| 1 and 2 star | 100 litres |
| 3 and 4 star | 125 litres |
| 5 star | 150 litres |
| Residential | 100 litres |
| HOSPITALS | Per person / per day |
| General | 120 litres |
| Infections | 180 litres |
| Maternity | 180 litres |
| Mental | 90 litres |
| Staff Residential | 90 litres |
| SPORTING FACILITIES | Per person / per day |
| Baths | 80 litres |
| Showers | 60 litres |

Installation accessories

- Circulating pump
- Pressure gauges
- Thermostat
- Dual thermostat
- Spring loaded non return valve
- Lever ball valve
- Y-strainer
- Standard immersion element

All accessory sizes will vary accordingly to the installation.



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