

# INDUSTRIAL



SUPPLY OF  
**BULK**  
WATER HEATING &  
WATER COOLING SOLUTIONS

INDUSTRIAL BULK HOT AND COLD WATER TANKS



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## Bulk Hot Water Systems

### product features

- Industrial Tanks designed to supply large quantities of hot water for use in hotels, hospitals, hostels ablutions etc, and chiller tanks for airconditioning units.
- Vessels are manufactured from either mild steel or stainless steel on request.
- Mild steel vessels are coated with Sigmarite Sealer or Glass Flake Epoxy on request.
- Vessels are available in vertical or horizontal configuration for floor installation.
- Incolloy elements fitted as standard. Element loading is designed for 6 hour recovery from cold to 60°C.
- Insulation consists of 50mm 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 up to 48kW.
- 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.

### product specification data

- All tanks manufactured to SANS 347-SEP.
- Certification of all vessels is available on request.
- All tanks include connections for a Heat Pump and drain outlet.



| Code    | Capacity (lt) | 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  | 1000          | 1652               | 1020 | 5 x 50                    | 1150                 | 1869 | 12                               | 260       | 2 x 32                     |
| KS 250  | 1200          | 1927               | 1020 | 5 x 50                    | 1150                 | 2145 | 12                               | 280       | 2 x 32                     |
| KS 300  | 1400          | 2223               | 1020 | 5 x 50                    | 1150                 | 2444 | 18                               | 320       | 2 x 32                     |
| KS 350  | 1600          | 2120               | 1170 | 5 x 50                    | 1300                 | 2358 | 18                               | 360       | 2 x 32                     |
| KS 400  | 1800          | 2345               | 1170 | 5 x 50                    | 1300                 | 2583 | 24                               | 400       | 2 x 32                     |
| KS 450  | 2000          | 2545               | 1170 | 5 x 50                    | 1300                 | 2783 | 24                               | 450       | 2 x 32                     |
| KS 500  | 2300          | 2403               | 1320 | 5 x 50                    | 1450                 | 2640 | 24                               | 540       | 2 x 32                     |
| KS 550  | 2500          | 2605               | 1320 | 5 x 50                    | 1450                 | 2840 | 27                               | 600       | 2 x 32                     |
| KS 600  | 2700          | 2706               | 1320 | 5 x 50                    | 1450                 | 2940 | 27                               | 650       | 2 x 32                     |
| KS 650  | 3000          | 2462               | 1470 | 5 x 50                    | 1600                 | 2664 | 36                               | 700       | 2 x 32                     |
| KS 700  | 3200          | 2582               | 1470 | 5 x 50                    | 1600                 | 2787 | 36                               | 760       | 2 x 32                     |
| KS 800  | 3600          | 2862               | 1470 | 2 x 50 & 3 x 80           | 1600                 | 3067 | 48                               | 820       | 2 x 32                     |
| KS 900  | 4000          | 2941               | 1550 | 2 x 50 & 3 x 80           | 1680                 | 3176 | 48                               | 880       | 2 x 32                     |
| KS 1000 | 4600          | 3141               | 1550 | 2 x 50 & 3 x 80           | 1680                 | 3478 | 60                               | 950       | 2 x 32                     |
| KS 1100 | 5000          | 3541               | 1550 | 2 x 50 & 3 x 80           | 1680                 | 3878 | 60                               | 1200      | 2 x 80                     |
| KS1300  | 6000          | 3224               | 1780 | 2 x 50 & 3 x 80           | 1960                 | 3435 | 72                               | 1500      | 2 x 80                     |
| KS 1500 | 6800          | 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                     |



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## Inline Heaters

### product features

- These units are manufactured from mild steel and coated with Glass Flake Epoxy.
- 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 specification data

- Inline heaters can be used in conjunction with a large storage tank.
- Inline heaters can be used with when no storage tank is available.
- This product can be used to heat liquids other than water and is ideally suited for the conversion from oil and coal fired boilers where existing tanks are available.

| Code  | Standard Electrical Loading (kW) |
|-------|----------------------------------|
| KSI6  | 6                                |
| KSI9  | 9                                |
| KSI12 | 12                               |
| KSI18 | 18                               |
| KSI24 | 24                               |
| KSI27 | 27                               |
| KSI36 | 36                               |
| KSI48 | 48                               |





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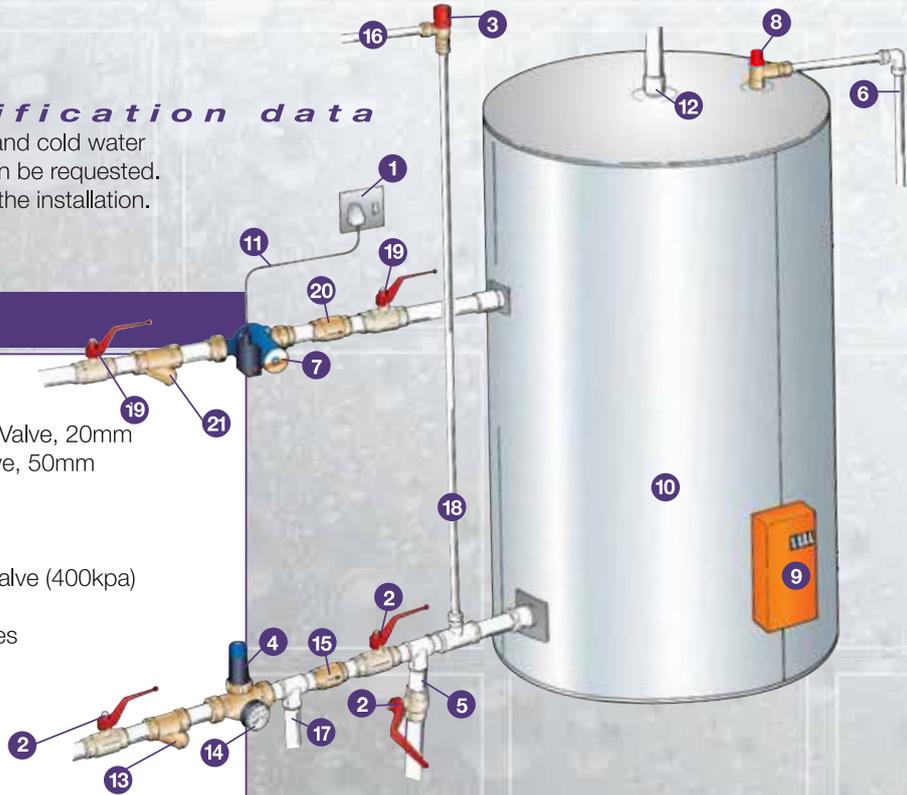
## Bulk Hot Water Systems

### installation specification data

A comprehensive service for the design of hot and cold water reticulation system for industrial applications can be requested.

NB: All accessory sizes will vary accordingly to the installation.

|    | Product Code | Product Description   |
|----|--------------|---|
| 1  |              | 15 Amp Wall Socket  |
| 2  | INDB-50      | Isolating Lever-ball Valve, 50mm                                  |
| 3  | KH2-204      | 400kpa Kwikot Expansion Relief Valve, 20mm                        |
| 4  | KH8-500      | Industrial Pressure Reducing Valve, 50mm                          |
| 5  |              | Drain Connection  |
| 6  |              | Safety Overflow Pipe (Metallic)                                   |
| 7  | IND-CPN-25-6 | Inline Circulating Pump, 25mm                                     |
| 8  | KH1-404CX    | Temperature & Pressure Safety Valve (400kpa)                      |
| 9  |              | Electrical Control Panel  |
| 10 | KS200        | Bulk Hot Water Vessel 1 000 Litres<br>(From 500 To 30 000 Litres) |
| 11 |              | Supply Cable  |
| 12 |              | Hot Water Outlet  |
| 13 | INDS-50      | Y Strainer, 50mm  |
| 14 | KH7-000      | Pressure Gauge  |
| 15 | INDN-50      | Non-Return Valve, 50mm  |
| 16 |              | Expansion Overflow Pipe (Metallic)                                |
| 17 |              | Balanced Cold Water   |
| 18 |              | Expansion Valve Stand Pipe  |
| 19 | INDB-25      | Isolation Ball Valve, 25mm  |
| 20 | INDN-25      | Non-Return Valve, 25mm  |
| 21 | INDS-25      | Y-Strainer, 25mm  |



## Industrial Adjustable Pressure Reducing Valves

Designed for all Industrial bulk water systems.



| Code     | Industrial Pressure Reducing Valves                       |
|----------|---|
| KHN8-150 | 15mm adjustable pressure reducing valve 150kPa to 600kPa  |
| KHN8-200 | 20mm adjustable pressure reducing valve 150kPa to 600kPa  |
| KHN8-250 | 25mm adjustable pressure reducing valve 150kPa to 600kPa  |
| KHN8-320 | 32mm adjustable pressure reducing valve 150kPa to 600kPa  |
| KHN8-400 | 40mm adjustable pressure reducing valve 150kPa to 600kPa  |
| KHN8-500 | 50mm adjustable pressure reducing valve 150kPa to 600kPa  |
| KH8-650  | 65mm adjustable pressure reducing valve 150kPa to 600kPa  |
| KH8-800  | 80mm adjustable pressure reducing valve 150kPa to 600kPa  |
| KH8-000  | 100mm adjustable pressure reducing valve 150kPa to 600kPa |

## Industrial Relief Valves

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



| Code    | Kwikot Industrial Expansion Relief Valve                            |
|---------|---|
| KH2-200 | 20mm expansion relief valve, 20mm FI inlet, 25mm FI outlet - 300kPa |
| KH2-204 | 20mm expansion relief valve, 20mm FI inlet, 25mm FI outlet - 400kPa |
| KH2-206 | 20mm expansion relief valve, 20mm FI inlet, 25mm FI outlet - 600kPa |
| KH2-250 | 25mm expansion relief valve, 25mm FI inlet, 32mm FI outlet - 300kPa |
| KH2-254 | 25mm expansion relief valve, 25mm FI inlet, 32mm FI outlet - 400kPa |
| KH2-256 | 25mm expansion relief valve, 25mm FI inlet, 32mm FI outlet - 600kPa |

## Industrial Temperature and Pressure Relief Valves

Ranging from 300kPa to 600kPa.



| Code        | Kwikot Temperature & Pressure Relief Valves          |
|-------------|--|
| KH1-403 IND | 25mm FI temperature & pressure relief valve - 300kPa |
| KH1-404 IND | 25mm FI temperature & pressure relief valve - 400kPa |
| KH1-406 IND | 25mm FI temperature & pressure relief valve - 600kPa |



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## estimated hot water consumption

| ABLUTION BLOCKS    | Per Person/Per day       | HOTELS              | Per Person/Per day |
|--------------------|--------------------------|---------------------|--------------------|
| Bath               | 60 litres                | 1 & 2 Star          | 100 litres         |
| Shower             | 35 litres                | 3 & 4 Star          | 125 litres         |
| Hand Basin         | 2 litres                 | 5 Star              | 150 litres         |
|                    |                          | Residential         | 100 litres         |
| FLATS              | Storage Per flat/Per day | HOSPITALS           | Per Person/Per day |
| Bachelor/1 Bedroom | 100 litres               | General             | 120 litres         |
| 2 Bedroom          | 150 litres               | Infections          | 180 litres         |
| 3 to 4 Bedroom     | 200 litres               | Maternity           | 180 litres         |
|                    |                          | Mental              | 90 litres          |
| CARAVAN PARK       | Per caravan/Per day      | Staff Residential   | 90 litres          |
|                    | 150 to 250 litres        | SPORTING FACILITIES | Per Person/Per day |
| OLD AGE HOME       | Per Person/Per day       | Baths               | 60 litres          |
| Infirm             | 60 litres                | Showers             | 30 litres          |
| Normal             | 110 litres               |                     |                    |

## product warranty

Product warranties are determined by the correct specification and servicing requirements.

- 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 Sigmarite coated tanks
- Five years on Glass Flake Epoxy coated tanks

## installation accessories

A wide range of accessories are available to complete the hot water installation



Electrolux SA (Pty) Ltd



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### inland division

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### eastern cape division

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Fairview,  
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Sheffield Business Park, Phillippi,  
Cape Town  
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### kwazulu-natal division

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