

# DATA SHEET

## HEAT TRAP SAFETY SHOWER CHILLER SC300

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### Product Description

The Heat Trap Chillers are self-contained chilled water storage and supply system providing TEPID water to plumbed emergency safety showers and face/eye wash stations in hot environments.

Australian Standard AS4775 recommends a maximum water temperature for emergency safety showers and face/eye wash stations of 37.8°C and a minimum delivery time of 15 minutes. TEPID water is defined as between 15°C and 37.8°C.

The Heat Trap SC300 Chillers are designed to provide TEPID water at a rate of up to 100 Liters/minute per shower with incoming potable feed water temperatures up to 47°C. The Heat Trap Chillers are free standing self-contained units which can be plumbed into the supply line between the potable mains and the emergency safety shower and or face/eye wash station and connected with a single phase 10 amp 240V general purpose power outlet. Galvanized steel framing and seismic and cyclone rated bolt-downs ensure suitability for all industrial and mining applications.

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### Features

- Standalone self-contained chilled water storage and supply system for plumbed eyewash safety showers.
- Complies with Australian Standard AS4775 to provide TEPID water (between 15°C and 37.8°C) for facewash/eyebath facilities connected to potable water mains with supply temperatures up to 47°C.
- Operates with potable mains water pressures between 300 kPa and 650 kPa.
- Built in recirculation cools the water in the piping between the chiller and the eyewash safety shower.
- Chilled water storage at 5°C and recirculation of cooled UV sterilized water eliminates the deadlegs and restricts bacterial growth.
- Potable main deadleg to chiller flushed weekly through automatic dump valve
- Cyclone and seismic rated design.
- Single phase 10A 240V electrical supply.
- The Heat Trap SC300 Chillers can service up to four (4) eyewash safety shower units located within a 50 metre radius of the chiller unit.
- Fail safe water flow

### Benefits

- SC300, 300 Liter chilled water storage capacity is sufficient to supply 100 Liters/min of TEPID water for a minimum of 15 minutes when fed with incoming potable water up to 47°C.
- Chilled water storage at 5°C and recirculation of cooled water through a UV sterilizer eliminates bacterial growth.
- Eliminates water wastage from anti-scald valves at emergency safety showers.
- Eyewash safety showers can be converted to be fully flushed by the mini-ringmain set up between the chiller and the eyewash safety showers.
- Deluge Safety Shower and Facewash elements can be supplied factory fitted to the Chillers.
- Chilled drinking water supply is available as an optional extra.

# HEAT TRAP

## SC 300 SPECIFICATIONS

<b>Chilled water storage tank</b>	300 litre vitreous enamel lined steel tank with replaceable sacrificial anode
<b>Cold Expansion Relief valve</b>	RMC H75 850 kPa, 60KW
<b>Chilled water storage temperature</b>	6°C + 2°C
<b>Skid mount framing</b>	50mm x 2.5mm RHS Galvanised steel
<b>Insulation</b>	Rigid polystyrene foam tank insulation and elastomeric pipe insulation
<b>Refrigeration plant</b>	Heat Trap Solar + TCL
<b>Refrigerant gas</b>	R410A
<b>Refrigerant Separation</b>	Dual Stainless Steel / Copper heat exchangers
<b>Temperature control</b>	Caleffi Temperature control valves
<b>UV Sterilizer</b>	ADVANCE C100
<b>Circulating pumps</b>	Lowara Vario D5 shaftless magnetic drive
<b>Water Inlet/Outlet fittings</b>	G 1 1/4"
<b>Recirculation fitting</b>	G 3/4"
<b>Power consumption</b>	Maximum 4 amp
<b>Maximum inlet pressure</b>	650kPa
<b>Minimum inlet pressure</b>	350 kPa dynamic at 100 LPM
<b>Dump solenoid</b>	Process Systems ES55-2-2-8V
<b>Physical Dimensions</b>	W1,100*L1,100*H1,950
<b>Weight</b>	275 kg

- This information is given in good faith but without warranty and is supplied to users based on our general experience and, where applicable, on the results of tests on samples of typical manufacture.
- However, because of the many factors that are outside our knowledge and control that can affect the use of these products, we cannot accept liability for any injury, loss or damage resulting from the reliance upon such information.
- Appropriate safety precautions should be taken to prevent bacterial growth in pipework dead legs
- Innovation patent pending