

# DATA SHEET

## HEAT TRAP WATER VEST CHILLER WVC050

Document No: HTS-WVC-050-001 | Author: A. Singh | Revision: 1 | Date of last revision: 4/11/2020



### Product Description

The Heat Trap Water Vest Chillers are self-contained chilled water storage and supply system providing chilled water to water cooled vests for workforce in hot environments. Water cooled vests improve comfort, safety, and productivity. The Heat Trap WVC050 Water Vest Chillers are designed to provide chilled water at a rate of up to 60 Liters/hour per vest. Each chiller can service up to five (5) water cooled vests. The Heat Trap WVC050 Water Vest Chillers are free standing self-contained units which are filled with potable water and connected with a single phase 10-amp 240V general purpose power supply. Galvabond steel frame and galvanized steel plates ensure suitability for all industrial and mining applications.

### Features

- Standalone self-contained chilled water storage and supply system for water cooled vests.
- Non-Plumbed system operates with potable water and maintains 150kPa pressure required for circulation through water cooled vests and hoses.
- Supports hoses up to 20m long.
- Built in circulation pump to circulate water for up to five (5) water cooled vests through pressure reduction valves.
- Chilled water stored at 8°C (Factory Setting).
- Single phase 10A 240V electrical supply.
- The Heat Trap WVC050 Water Vest Chillers can service up to five (5) cooling vests.
- Header tank to replace any air which gets trapped in chilled water storage tank through connecting hoses.
- Gate Valves to control flow for each vest.

### Benefits

- The Heat Trap WVC050 water vest chiller, 50 Liter chilled water storage capacity is sufficient to supply 60 Liters of chilled water per hour to up to five (5) cooling vests.
- Chilled water circulates through water cooled vests providing comfort, safety, and less downtime in hot environment and which results in higher productivity.
- Eliminates chances of heat stroke.
- Portable unit with forklift guides can be moved from one place to another.
- Easy to commission.
- Stored water temperature easy to adjust down to 4°C for hotter work applications
- Easy to adjust flow to water cooled vest for individual personal comfort.
- Easy to maintain.

# HEAT TRAP

## WVC 050 SPECIFICATIONS

<b>Chilled water storage tank</b>	50 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>	8°C ± 2°C (Factory Setting) (Adjustable down to 4°C)
<b>Skid mount framing</b>	40mm x 2.5mm RHS Galvabond
<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 Heat Exchangers
<b>Primary and Secondary Circulating pumps</b>	Lowara Vario D5 shaftless magnetic drive
<b>Water Cooled Vest Circulating Pump</b>	Marro QB60
<b>Water Inlet</b>	Universal Tap Adaptor 18mm
<b>Vest Connection</b>	Valved coupling Insert
<b>Power consumption</b>	Maximum 4 amp
<b>Physical Dimensions</b>	W1,100*L800*H1,540 (mm)
<b>Weight</b>	150 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