

# Green Cooling Solutions for Your Showers and Instruments



**FastCool<sup>TM</sup> Passive Cooling  
Technology**







Delivering greener alternatives™

# Passively-cooled Emergency Tank Shower ZEC1500

## Product Information

### FastCool™ Passive Cooling

ZEC series emergency tank showers are equipped with our patented FastCool™ passive cooling technology to provide green and maintenance-free cooling to keep the water temperature within limits specified by ANSI Z358.1. Our passive cooling system does not require any electrical power and peripherals. Water cooling speeds match that of an electric chiller, leading to a very short commissioning time. This helps in saving energy for your plant while keeping your employees safe. The solution is highly economical as compared to the chiller solutions.

### Maintenance-free and robust

Green FastCool™ systems are also maintenance-free since they have no moving components.

### Quick to install

Plug-and-play type systems are shipped ready to install and require only plumbing connections. This will make sure that your project is completed within a short time. Compared to this, traditional chiller systems need a large insulated pipe network and electrical installation.



Patented

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## Shower

|                                   |   |
|-----------------------------------|---|
| <b>Sutable Installlation Area</b> | Both Hazardous and Non-Hazardous areas  |
| <b>Water storage capacity</b>     | 1500 liters   |
| <b>Dimensions</b>                 | 1320(Width) x 1320 (Depth) x 4100 (Height)  |
| <b>Material of construction</b>   | <b>Tank:</b> Stainless steel/GRP insulated<br><b>Fittings:</b> Stainless steel<br><b>Support Frame:</b> Galvanized Steel/ Stainless Steel |
| <b>Insulation</b>                 | 50 mm insulation to provide high thermal insulation   |
| <b>Supply pressure</b>            | 0.5-10 bar  |
| <b>Flow rate</b>                  | <b>Shower:</b> minimum 76 liter/min<br><b>Eye/facewash unit:</b> 12 liter/min   |
| <b>Electrical supply</b>          | Not applicable  |

## Passive cooler

|                                 |   |
|---------------------------------|---|
| <b>Ambient temperature</b>      | 60°C (maximum)  |
| <b>Water temperature</b>        | Within ANSI Z358.1 limits   |
| <b>Cooling system</b>           | Equipped with FastCool™ passive cooling technology. Internal and external heat exchangers are built with corrosion resistant materials to provide long term durability. Fully sealed and leak tight loop. |
| <b>Material of construction</b> | <b>External Heat Exchanger:</b> Copper tubes/ Aluminum fins<br><b>Plumbing:</b> Copper/Stainless Steel  |



**Zero**

## **Power Use**

Completely green. Does not require any power to operate



**Zero**

## **Maintenance**

No moving parts and robust design makes it maintenance free.



**Zero**

## **Operation Cost**

Unlike chillers, this standalone system does not require any operator intervention.

We believe in

**NEEDS**

Electric chillers require energy to offset the heat gain through your plant's large piping network. However, cooling is absolutely free, and with our green FastCool™ system. With the help of this technology, you can reduce the carbon footprint of your plant and maintain a safe workplace for your employees. Also, the system has no moving parts and hence is truly maintenance-free. The self-cleaning design of the external heat exchanger fins facilitates the deflection of sand and dirt particles.



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