

Most Energy Efficient Emergency Shower With Innovative Chiller Technology

Smith Applied Solutions develops green and energy-efficient emergency shower and eyewash solutions for extreme environments. ATEX-compliant tank shower chiller system uses patented technology to provide a cooling system that consumes only 1/5th of the power of conventional chillers.



Patented (US Patent)



80% Lower Power Consumption

This chiller combines passive cooling and active cooling to provide 80% less power than a typical chiller.

Zero Footprint

The compact chiller does not take up any space on the ground and is attached to the tank directly. This also saves additional civil work that is needed for a ground-based chiller.

Quick Installation

Unlike a typical chiller + shower system, the unit comes with the chiller integrated into the tank eliminating the need for the tank-to-chiller connection.

Highly Reliable

Most of the components are constructed from corrosion-resistant GRP or stainless steel to enhance overall reliability.

General Specifications

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|-------------------|---|
| Capacity | 1500 Liters |
| Supply Pressure | 0.5 to 10 bar(g) |
| Supply Connection | 1" NPT (or as per customer specification) |
| Shower Flow Rate | 20 US Gallons per minute |
| Eyewash/Facewash | 3 US Gallons per minute |
| Shower Operation | Pull rod (optional foot operated actuator) |
| Eyewash Operation | Hand operated (optional foot operated actuator) |

Material of Construction

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|-------------------------|--|
| Water Tank Material | Stainless steel |
| Outer Cover Material | Stainless steel/GRP |
| Piping Material | Stainless steel |
| Frame Material | GI/Stainless steel (optional) |
| Eyewash and showerheads | Stainless Steel/ABS |
| Valves | Stainless steel |
| Pull Rod | Stainless steel |
| Accessories | SS Eyewash strainer, Overflow valve, Drain valve |
| Dimensions | 1320 (Width) x 1320 (Depth) x 3900 (Height) |

Hazardous Area Chiller Specifications

| | |
|----------------------------------|--|
| Hazardous Environment | Suitable for both Zone 1 and Zone 2 |
| Classification | II 2G IIB T4 |
| Ambient Limits | -5°C to +60°C |
| IP Classification | IP 66 |
| Noise Level | < 45dB |
| System Safety Features | Compressor Motor Protection, HP and LP Safety Switch, Thermal Protection |
| Shower Water Temperature Setting | +25°C to +36°C |
| Refrigerant | R134a |
| Overall Dimensions (L x W x H) | 1150 mm x 300 mm x 950 mm |
| Heat Exchangers | Copper/SS Tube/Aluminum fins |
| Power Supply | 220 (± 30V) / 1 or 3 Ph / 50 or 60 Hz |
| Total Power Consumption | < 600 Watts |
| Warrantee | Two years from the date of delivery |