

The HAZCOOL BASELINE® BHZ1-0030C11, 3kW Water Tank Chiller Unit, is designed and constructed for use in hazardous, explosive atmospheres (Zone 1, Zone 2) within the oil and gas, marine and petrochemical industries. All of our HAZCOOL BASELINE® products are manufactured using quality, industry standard components and are cased in powder coated zintec. Manufactured within an ISO9001 accredited quality management system to provide our clients with a quality, safe and reliable product, this ATEX compliant unit consists of ATEX and IECEx dual certified electrical components and is primarily designed to be integrated into a variety of safety shower systems.



System Description

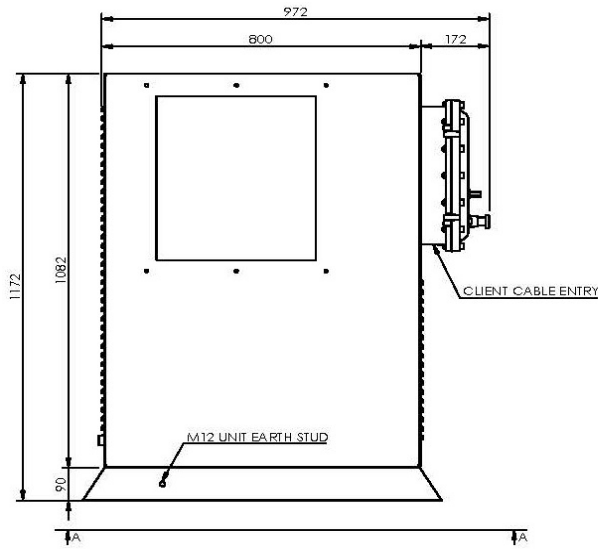
Efficiency, reliability and safety are some of the key design criteria for the HAZCOOL BASELINE® BHZ1-0030C11 3kW Water Tank Chiller Unit. The chiller unit regulates the water temperature automatically at a defined set point within the range of +20°C and +36°C (tepid water). Multiple protection concepts are applied to ensure the chiller unit complies with all relevant ATEX directives. All the electrical components are dual certified (ATEX and IECEx). Controls are designed for ease of operation without the need for complicated programming, whilst still maintaining reliable and efficient automated control of fluid temperature. This product is typically used to regulate the temperature of stored water for emergency safety showers, decontamination showers, eye or face wash stations and personal wash stations.

WATER TANK CHILLER UNIT DATA

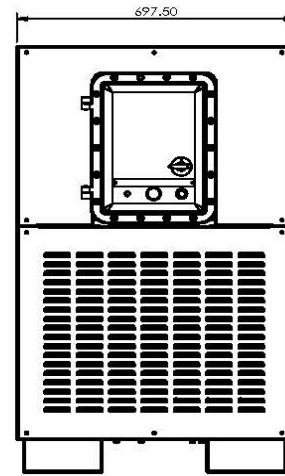
GENERAL DATA

No.	Description	Data
1	Model	BHZ1-0030C11
2	Explosive Atmosphere Compliance	ATEX
3	Electrical Component Certification	ATEX and IECEx
4	Suitable Environment	Zone 1
5	Unit Classification	II 2G IIB T4
6	Operating Limits	0 to +60 (°C)
7	Ingress Protection Classification	IP 66
8	Noise Level (at 1m distance)	77 (dBA)
9	Safety Features	Compressor Motor Protection, HP and LP Safety Switch, Flow Switch
10	Total Cooling Duty	3 (kW)
11	Adjustable Water Temperature Range	+20 to +36 (°C)
12	Refrigerant	R134a
13	Cooling Duty Design Point	+43 (°C)
14	Unit Operating Weight	195 (kg)
15	Overall Dimensions (l x w x h)	1016.5 x 697.5 x 1172 (mm)
16	Service Space/ Airflow Clearance	600 (mm)
17	Condenser Tube / Fin Material	Copper (Cu) / Aluminium (Al)
18	Casing Material	Zinc Coated Mild Steel (Zintec)
19	Casing Material Finish	RAL9010 (Pure White) Polyester Industrial Powder Coated
20	Fluid Flow Rate	2.16 (m ³ /h)
21	Fluid Supply Connection Type/ Size	Female BSP / 3/4" (inch)
22	Fluid Return Connection Type/ Size	Female BSP / 3/4" (inch)
23	Internal Water Circuit Material	ABS Thermoplastic Polymer
24	Electrical Power Supply	240-262 / 1 / 60 (V/Ph/Hz)
25	Total Power Consumption	2.14 (kW)
26	Running Current	10.51 (A)
27	Maximum Running Current	14.0 (A)
28	Control Voltage	240-262 (Vac)

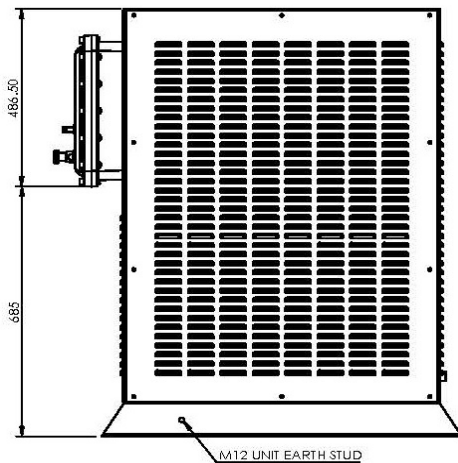
DIMENSIONS



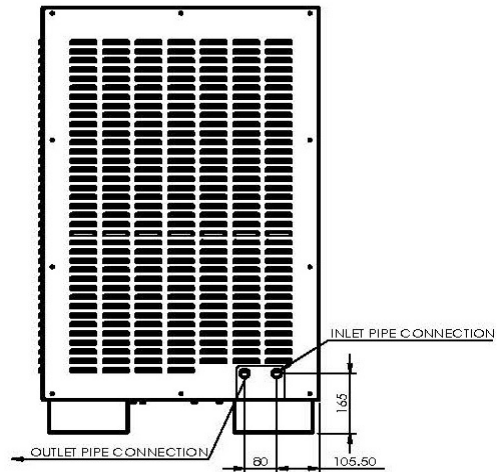
LEFT SIDE ELEVATION



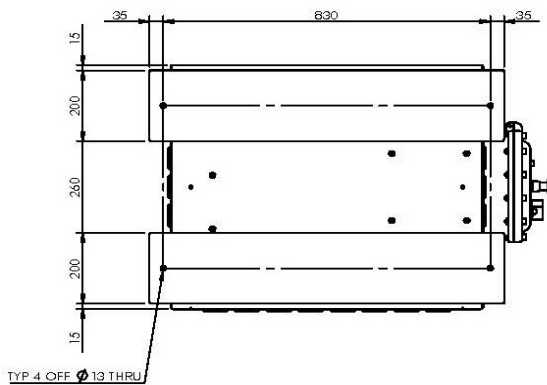
FRONT ELEVATION



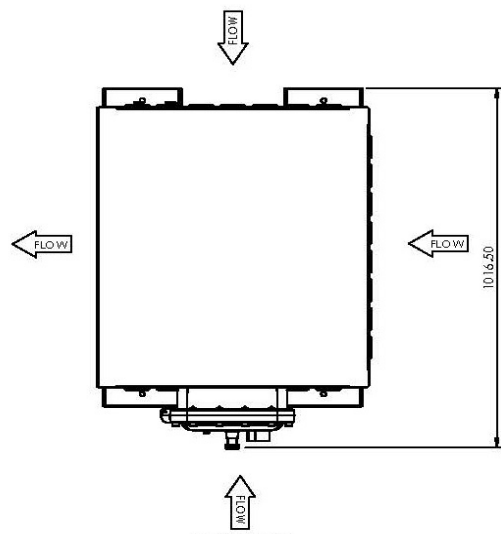
RIGHT SIDE ELEVATION



REAR ELEVATION



VIEW ON A-A



PLAN VIEW