

Hazardous Area Closed Loop Sampling Chiller

'Ex' Certified Water Chillers For Sampling Systems Operating In Hazardous Gas Areas



Innovative safety driven IECEx / ATEX certified hazardous area cooling solutions

Hazardous Area Closed Loop Sampling Chillers



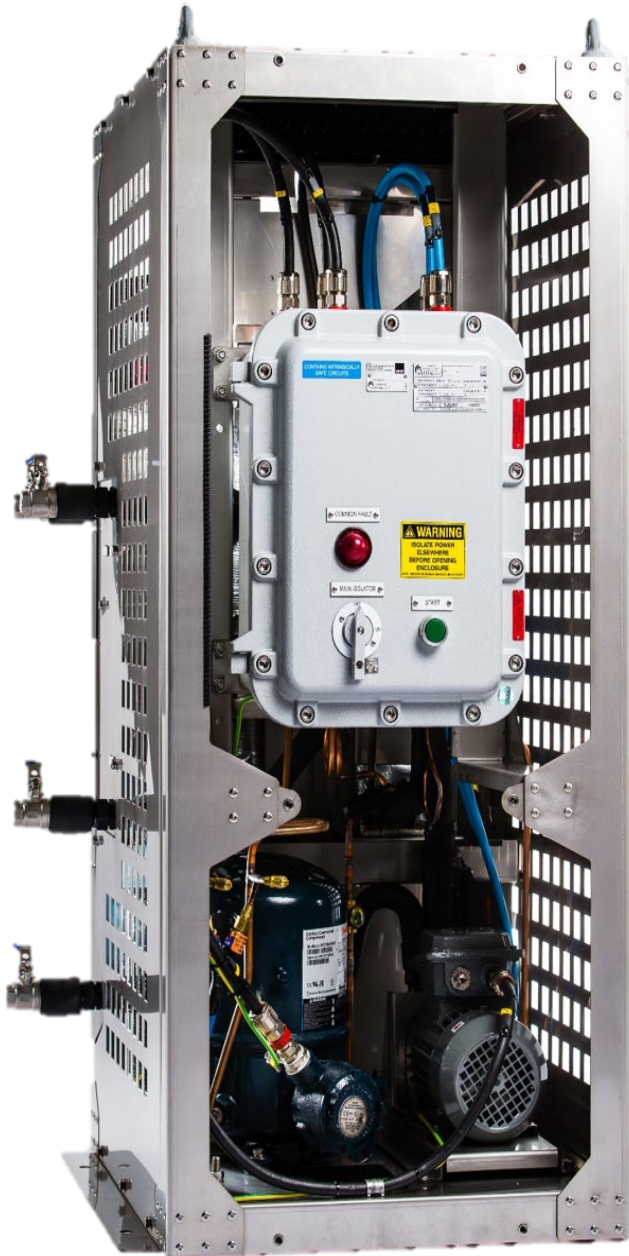
APPLICATIONS

- Water Chillers for closed loop process sample Analyzer systems. Suitable for installation with single & multi-circuit heat exchangers
- Ideal for applications or systems requiring close temperature control

TYPICAL DESIGN FEATURES

- IEC Ex or ATEX Certification for Zone 1 Group IIB+H2 T3 Hazardous areas
- Single overall certificate of conformity
- Nominal capacity - 2kW
- 50Hz or 60 Hz power supplies. Single or 3 Phase systems
- Designed for tough environments up to 50°C ambient temperatures as standard. Suitable for out/indoor installation
- Environmentally friendly R134a Refrigerant with zero ozone depletion potential
- All-in-one design with integrated control enclosure
- Single point power connection

Hazardous Area Closed Loop Sampling Chillers



TYPICAL CONSTRUCTION FEATURES



- Casing – powder-coated heavy gauge galvanised steel
- Brazed plate stainless steel heat exchanger, fully insulated with high density neoprene
- Fully hermetic compressors with Exd terminal box for maximum reliability
- Direct drive condenser fan and water circulating pump, with non-sparking construction
- Air cooled condenser coil – Copper tube/Aluminium fins, epoxy treatment for corrosion protection and long service life

OPTIONS

- Project compliant paint systems & colours
- Upgrade to IP 66 for Instruments, terminal boxes and enclosures
- Condenser coil – copper tube / copper fin construction
- Casing – SS304 or SS316 Material
- Ambient temperature rating to 60°C
- T4 temperature rating

Hazardous Area Closed Loop Sampling Chillers

Typical Specifications/Features

Standard Technical Features	STSC2G-15FP	STSC2G-16FP	STSC2G-35FP	STSC2G-36FP
Power Supply	230V/1Ø/50Hz	230V/1Ø/60Hz	415V/3Ø/50Hz	460V/3Ø/60Hz
Capacity at 30°C Amb. Nom.	2.8kW	2.7kW	2.8kW	2.7kW
Capacity at 40°C Amb. Nom.	2.3kW	2.2kW	2.3kW	2.2kW
Capacity at 50°C Amb. Nom.	1.8kW	1.8kW	1.8kW	1.8kW
Flow Rate Nom.	3.7L/min	3.8L/min	3.7 L/min	3.8L/min
Maximum Operating Amb.	50°C	50°C	50°C	50°C
Unit Weight	240kg	240kg	240kg	240kg
Running Current Nom.	9.2A	9.2A	5.1A	5.1A
Dimensions (mm)	550 W 710 D 1220 H	550 W 710 D 1220 H	550 W 710 D 1220 H	550 W 710 D 1220 H
Ext. Component IP Rating	IP66			
Thermostat Setpoint	6°C adjustable			
Casing Material	Galvanized steel (G) 304 stainless steel (S) 316 stainless steel (M)			
Casing Finish	Polyester powder coat – RAL7032			
Heat Exchanger	Braze Plate			
Condenser Coil	Copper tube Aluminium fins with epoxy treatment for corrosion protection			
Condenser Fan	Direct drive polypropylene non-sparking type with Ex certified TEFC motor			
Circulator	Open drive circulator coupled to an Ex certified TEFC motor			
Electrical Enclosure	Certified Ex d electrical enclosure suitable for use in the specified hazardous area Contains all motor control equipment and protection devices			
Ex Marking	IECEX: Ex IIB+H2 T3 ATEX: II (1) 2 G Ex IIB+H2 T3			
Certification		IECEX SIR 11.0155X Sira 11ATEX1356X		
Australian Refrigeration Council Ltd. Certificate	Authorisation No: AU07408			
Ordering Information	<p style="text-align: center;">STSC 2 G - 1 5 FP</p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: left;"> <p>2kW 2</p> <p>Stainless steel 316 M</p> <p>Stainless steel 304 S</p> <p>Galvanised Steel G</p> </div> <div style="text-align: right;"> <p>5 50 Hz</p> <p>6 60Hz</p> <p>1 Single phase</p> <p>3 Three phase</p> </div> </div>			