

Chiller Unit

CUSA & CUEX



CUSA



CUEX

FEATURES

- » Safe Area or Suitable to Zone 1 & 2, IIB + H2 hazardous area
- » Ease of Maintenance
- » Low Noise and Vibration
- » Efficient cooling capacity
- » High Quality CRCA or SS 304 or SS 316
- » Individual electrical components are ATEX / PESO certified

ADVANTAGES

- » 100 % tested for performance on specially designed and tested for onsite ambient condition.
- » Compressor carries their own compliance certificate and fully complying with IEC standards (Ex proof chiller).
- » Refrigerant is CFC free and fully complies with Montreal Protocol requirement.
- » Unit's unique design and component reliability ensures minimum servicing excepting routine
- » Condenser and water tank cleaning or general maintenance within 8°C to 50°C *
- » SS Material options ensure high reliability of the unit's life.

Note : (*) For higher ambient temperature contact Axis solution

DESCRIPTION

Axis make chiller unit is capable to lower the sample temperature for the sample analysis for analyzer and trouble-free operation. Chilled water to be flow through external heat exchanger (shell & tube type) and the same will maintain the sample temperature to be analysis.

This chiller fulfils the requirement where requirement of special cooling or cooling water utility is not available at site. Chiller can be supplied in various ranges of cooling capacity as per the requirement. It can be supplied for single to multi analyzers in a single house.

The basic requirements for any Chiller units are to perform according to given parameter with trouble free operations. Specifically design for sample cooling application. Depending on flow rate, different circulating pump capacities are optionally available.

Axis brings you the safe area / Hazardous Area Chiller Unit to meet diverse and exacting demand which runs trouble free for 24 x 7 days in Power Plant, Refinery and Petrochemical Industries for cooling the sample to be analyzed

ORDERING INFORMATION

CUSA				9
Power Supply				
0		3 Phase + N , 415 VAC, 50 Hz		
Cooling Capacity				
0		1.5 TR**		
1		3TR**		
2		5 TR**		
3		7 TR**		
4		10 TR**		
5		Other on request		

Note : (*) Contact Axis solutions for chilled water flow rate
 (**) Cooling capacity based upon 35 °C ambient,
 Min set point will be 20 °C (CUSA) & be 10 °C (CUEX)
 (***) Individual component certified

TECHNICAL SPECIFICATIONS

Area Class	Safe Area or Suitable to Zone 1 & 2, IIA IIB + H2. Entry: M25
Certification available	PESO / ATEX Certified
Refrigerant	R134a /R407c
Working ambient Temperature	8°C to 50°C
Coolant	Water
Chilled Water connection	Depend on Model
Return water connection	Depend on Model
Water Drain connection	Depend on Model
Water Tank fill up connection	Depend on Model
Water Tank Over flow connection	Depend on Model

ORDERING INFORMATION

CUEX				9
Area Classification				
0		Hazardous Area Zone - 1, IIA, IIB, T4		
1		Hazardous Area Zone - 1, IIB +H2, T4		
Power Supply				
0		3 Phase + N , 415 VAC, 50 Hz		
Cooling Capacity				
0		0.84 TR**		
1		1.5 TR**		
2		2 TR**		
3		Other on request		
Certification				
0		CCOE certificate***		
1		ATEX***		

COMPONENT DETAILS

Casings:
 CRCA Sheet Duly Powder Coated (Color RAL7035 standard) or SS 304 / SS 316 on request

Compressor :
 Hermetically sealed reciprocating type compressor with flameproof terminal box is certified for zone 1 & 2, IIC area class.

Condenser Coil :
 Coil type or water-cooled type.

Fan Motors :
 Safe area or Zone 1 & 2, IIA, IIB+H2 certified flame-proof motor. (For coil type only)

Chiller :
 Coil Type or Shell & Tube Type

Chilled Water Pumps :
 Safe area or zone 1 & 2, IIC certified flame-proof.

Temperature Controller :
 Digital (For Safe Area) and Thermostat (For Hazardous Area)

Water Level Controller :
 Safe area or zone 1 & 2, IIC certified flame-proof.

Alarms :
 Low water level, No flow of Chilled water