

# Ex Proof Close Loop Chiller

## ACHX1



### FEATURES

- » Suitable to Zone 1 & 2 , IIB + H2 hazardous area
- » Ease of Maintenance
- » Low Noise and Vibration
- » Efficient cooling capacity
- » High Quality CRCA or SS304 or SS316
- » Individual electrical components are ATEX / PESO certified

### ADVANTAGES

- » 100 % tested for performance on specially designed and tested for onsite load conditions
- » Compressor carries their own compliance certificate and fully complying to IEC standards.
- » Refrigerant is CFC free and fully comply with Montreal Protocol requirement.
- » Unit's unique design and component reliability ensures minimum servicing excepting routine condenser and water Tank cleaning or general maintenance.
- » The flameproof and weather proof Ex d electrical enclosure
- » Flameproof electrical motors
- » This can work with harsh environment within 5°C to 50°C
- » SS Material options ensure high reliability of the units life.

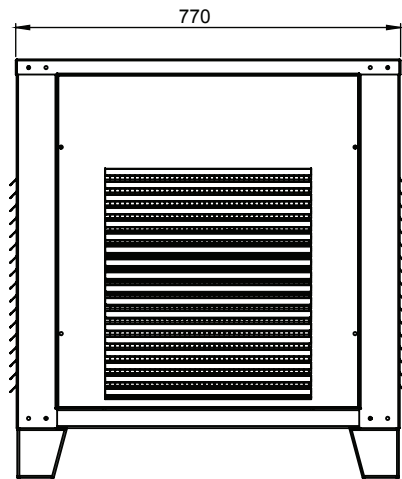
### DESCRIPTION

The basic requirements for any Chiller units are to perform according to given parameter with trouble free operations. Specifically design for sample cooling application. Where sample cooling is required and sufficient cooling water is not available, close loop cooling water circulation chiller is the ideal solutions. These are mainly use in remote locations or at very challenging locations or experiencing extreme weather conditions. Depending on flow rate, different circulating pump capacities are optionally available.

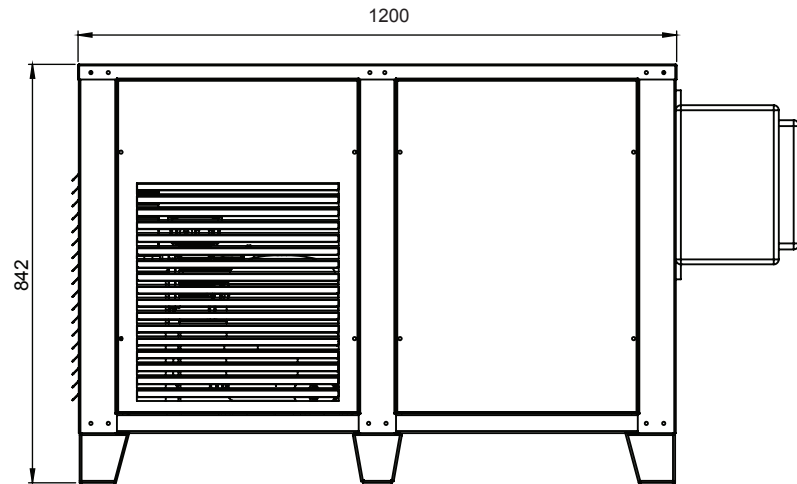
Axis brings you the Explosion proof Chiller to meet diverse and exacting demand which runs trouble free for 24 x 7 days in Oil, Gas, Refinery and Petrochemical Industries for cooling the sample.

It can be used in Fast loop system , physical property analysers , sample conditioning system , recovery systems in sulphur plants

### DIMENSION DETAILS



FRONT VIEW



SIDE VIEW

All Dimension are in MM

### TECHNICAL SPECIFICATIONS

General	
Area Class	Suitable to Zone 1 & 2 , IIB + H2 , T3
Mounting	Grounding / foundation
Dimensions	840 mm (H) x 1200 mm (W) x 770 mm (D)
Cooling Capacity	2.9 KW or 0.84 TR @ 35°C
Refrigerant	R134a / 2.5 Kg
Operating Temperature	5°C to 50°C
Flow Rate	450 LPH @ up to 2 Bar
Electrical	
Power Supply	3 Phase + N , 415 VAC , 50 Hz
Power Consumption	Approx. 4.0 Amp
Thermostat	Adjustable between 8°C – 25°C
Tube connection	
Cooling water outlet	3/4" OD tube
Cooling water return	3/4" OD tube
Water Drain	1/2" NPT (F)
Water Tank fill up	1/2" OD tube
Water Tank Over flow	1/2" OD tube

### COMPONENTS DETAIL

#### Casings:

Unit casing fabricated from MSCRCA sheet steel ( Optional : SS304 / SS316 Grade Stainless Steel ).

#### Compressor :

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

#### Condenser Coil :

Copper tubing with anti-corrosive blue coating aluminium fins and end plates fully compliance for long service life in corrosive environment.

#### Condenser Fan :

Design for continuous operation and Impeller design from aluminium with alloy hub.

#### Fan Motors :

Zone 1 & 2 , IIC Certified flameproof Motor.