

# **Ex Proof Sample Gas Cooler**

## COOLEREX



#### **FEATURES**

- » Used in Analyser Gas Conditioning
- » High quality robust design
- » Suitable up to 50°C Ambient Temperature
- » Cooling Capacity up to 320 KJ
- » Optimum operational reliability
- » Sample flow rate 550 LPH Max
- » Used in Zone 1 & 2 , IIC hazardous area

#### **ADVANTAGES**

- » Economical
- » Ease of Maintenance & Operation
- » Indoor application
- » Optional Alarm contact
- » Single and dual path heat exchanger options
- » High Dewpoint Stability

#### **DESCRIPTION**

Reliable & long term operation of an Analyzer depends upon efficiency of the Sample conditioning system for which stable dew point of the sample is essential.

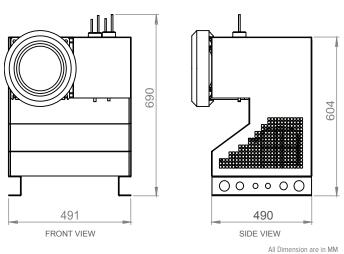
Axis COOLEREX Sample Gas Coolers are compressor cooled, equipped with efficient heat exchangers to provide stable dew point of the sample at outlet, there by ensuring security with precise performance of the Analyzer.

Cooling performance is ensured by having very tight control within tolerance range of dew point indirectly with mechanical control.

The heat exchangers are either Single Coil or Dual Coil so that two different streams can be catered. Very compact housing design ensures best placement of other components with saving of the cost Insulation at top of heat exchanger effectively isolates ambient effect.

In COOLEREX power supply can be either any of 115 VAC or 230 VAC. For electrical connection provides separate Flame proof Junction box suitable in Zone 1 & 2 , IIC hazardous area.

## **DIMENSION DETAILS**



## **TECHNICAL SPECIFICATION**

General	Туре	Type Refrigeration			
	Mounting Wall / Base Mounting				
	Dimensions	690 X 491 X 490(F	690 X 491 X 490(HxWxD)mm		
	No. of Sample Stream	One / Two			
	Sample	Gas			
	Weight	40Kg Approx.			
	Housing	MSCRCA / SS 304 (on request)			
Material	Cooling Coil Copper				
	Heat Exchanger	SS 316 (Other on Request)			
	Finish	Powder coated RAL 7035 for MS/Buff Finish for SS 304			
Connections	Sample Gas Inlet	1/4" Tube			
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	Condensate Outlet	3/8" Tube			
Electrical	Power Supply 230 or 115 VAC, 50 Hz				
	Alarm Contact	Max. 250 V, 1A (Resistive Load) (Optional)			
	Power Consumption	Approx. 460VA			
Functionality	Sample Gas Flow 550 LPH				
	Sample Outlet Temp.	Approx. 5°C (+/- 1°C)			
	Operating Pressure	1.5 bar for heat exchanger			
	Cooling Capacity	320 kJ			
	Warm Up Time	20-30min. (Max.)			
	Ambient Temperature	+5°C to +50°C			
Heat Exchanger		SCE	DCE		
	Flow Rate	550LPH	2 x 225 LPH		
	Max. Cooling Capacity	475 kJ/h	475 kJ/h		
	Pressure drop.	< 0.1 bar	< 0.1 bar		
	Dead Volume	67 ml	30 ml x 2		

## ORDERING INFORMATION

COOLEREX							9	
								Power Supply
	0							115V AC, 50 Hz
	1							230V AC, 50 Hz
		Но	Housing Material					
		0						MSCRCA Painted
		1						SS 304
			Heat Exchanger					
			0	0				Without
			1	1			SC, Single Coil, SS	
			2					DC, Dual Coil, SS
			Alarm Option					
				0			Without	
				1			With	
			Condensate Discharge (1st Stream)					
					0			Without
					1			Auto Condensate Drain AK 5.1
					2			Auto Condensate Drain AK 5.2
					3			Auto Condensate Drain AK 20
						Condensate Discharge (2nd Stream)		
						0		Without
						1		Auto Condensate Drain AK 5.1
						2		Auto Condensate Drain AK 5.2
						3		Auto Condensate Drain AK 20

## SPARE / ACCESSORIES

Description	Part No.	Quantity
Auto CondensateDrain AK 5.2	4510008	1 No.
Auto CondensateDrain AK 5.1	4510006	1 No.
Auto Condensate Drain AK 20	4510004	1 No.
Condensate Vessel	ASPL1096	1 No.
SCE – Single Coil HE	ASPL3101	1 No.
DCE – Dual Coil HE	ASPL3403	1 No.
Temp.Controller with Alarm	ASPL2520	1 No.
Compressor 230VAC, 50Hz	ASPL2787	1 No.
Compressor 115VAC, 50Hz	ASPL2876	1 No.