ANKERSMID Compressor cooler

ACC 82x/83x Ex Series

Application

Ankersmid Compressor Coolers are used to lower the dew point of humid gas to avoid condensate entering into the gas analyser.
This unique micro-processor controlled compressor cooler has been designed with a powerful dew point stabiliser. The dew point is set at 3°C. A good and stable gas dew point avoids cross-interference if the analyser is sensitive to H_2O.

Description

The cooler offers precision, safety and long-term stability for extractive analytics. The cooler incorporates a housing suitable for wall-mounting as standard.
The design enables up to 2 heat exchangers. The exchangers can be connected in series or parallel following customer requirements.
The controller is self-checking and provides an analogue display indicating the operating temperature.
Condensate is removed either into condensate vessels or by automatic condensate drainers which can be attached to the heat exchangers within the cooler's outer contour.
Available for 230VAC and 115VAC power supply.

- **Provide clean dry sample gases to extractive analysers in continuous emission monitoring, process control and engine testing applications**
- **Optimise industrial burning processes**
- **Continuously dehumidify gas sample streams**
- **Environment-friendly (CFC free)**
- **Intended for use in Potentially Explosive Atmospheres**
- **For use in hazardous area Zone 1/2**

ANKERSMID Compressor cooler

ACC 82x/83x Ex Series

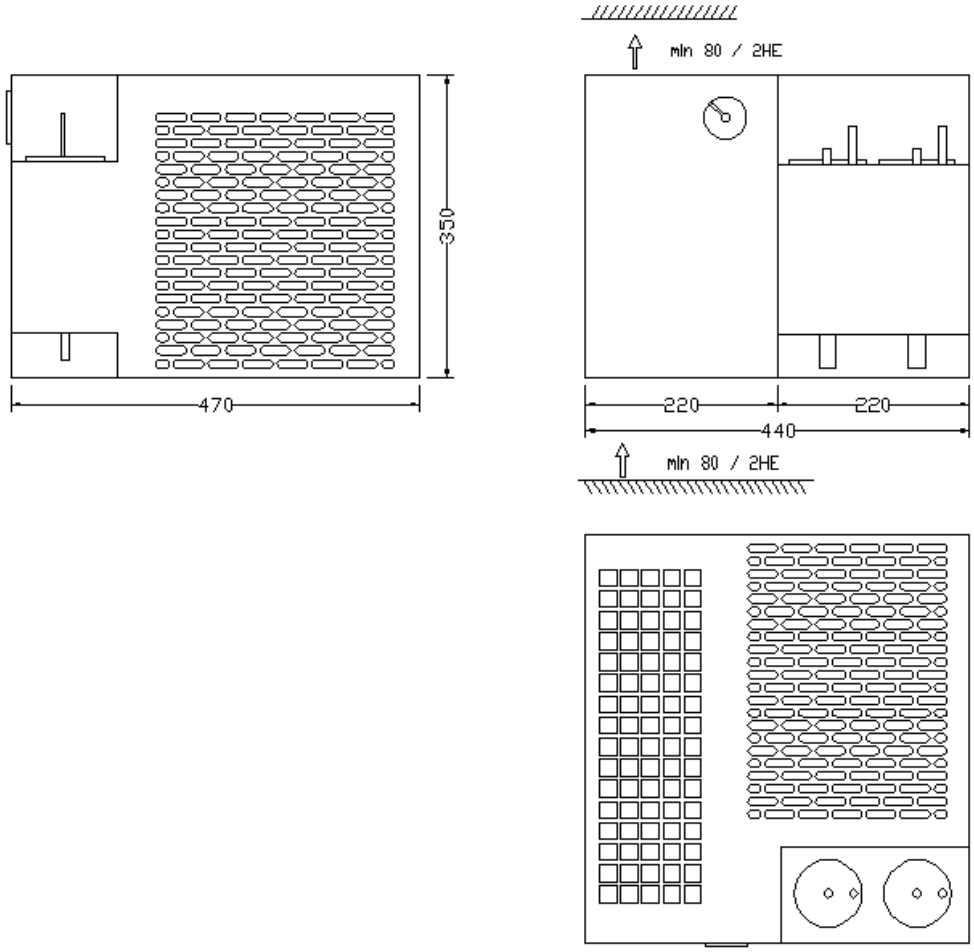
Technical data

Model ACC	820Ex	830Ex
Number of heat exchangers	1	2
Flow rate	1x 350Nl/h	2x 350Nl/h
Material of gas wetted parts	PFA® (standard), SS316 (optional)	
Housing version	Wall-mount or stand alone	
Housing material	Stainless steel / Polyester	
Dimensions (H x W x D)	370mm x 435mm x 470mm	
Weight (approximately)	39kg	
Operation data		
Gas outlet temperature	factory setting: +3°C	
Dew point stability	±0,5K	
Ambient temperature	+10°C to +40°C	
Cooling capacity (at 25°C)	1080kJ/h (300W)	
General electrical data		
Marking	II 2G Ex px d e [ia] IIC T4 for Zone 1 or 2	
Power supply	230V/50-60Hz (standard) or 115V/50-60Hz	
Electrical protection	External on installation site	
Power consumption	220 Watt at 230V; starting current 6,3 Amp.	
Protection class electrically	IP20 / acc. EN 60529 / EN 61010	
Coolant	R134a	

ANKERSMID Compressor cooler

ACC 82x/83x Ex Series

Dimensions



ANKERSMID Compressor cooler

ACC 85x/86x Ex Series

* Picture may vary

Application

Ankersmid Compressor Coolers are used to lower the dew point of humid gas to avoid condensate entering into the gas analyser.
This unique micro-processor controlled compressor cooler has been designed with a powerful dew point stabiliser. The dew point is set at 3°C. A good and stable gas dew point avoids cross-interference if the analyser is sensitive to H_2O.

Description

The cooler offers precision, safety and long-term stability for extractive analytics. The cooler incorporates a housing suitable for wall-mounting as standard.
The design enables one heat exchanger (mono or dual gas path). The exchanger can be connected in series or parallel following customer requirements.
An electronic system not only monitors the dew point, but also the ambient temperature.
An isolated temperature alarm output for high and low temperature alarm is included as standard.

Available for 230VAC and 115VAC power supply.

- **Provide clean dry sample gases to extractive analysers in continuous emission monitoring, process control and engine testing applications**
- **Cooler housing for wall-mounting**
- **Optimise industrial burning processes**
- **Continuously dehumidify gas sample streams**
- **Environment-friendly (CFC free)**
- **Intended for use in Potentially Explosive Atmospheres**
- **According to Directive 94/9/EC**
- **For use in hazardous area Zone 2**

ANKERSMID Compressor cooler

ACC 85x/86x Ex Series

Technical data

Model ACC	85x	86x Ex
Number of gas paths	1 (standard), max. 2 (with double heat exchanger)	
Housing version	Wall-mount or stand alone	
Housing color	RAL 7035 (light-grey)	
Dimensions (W x H x D)	230 x 300 x 355 mm	
Weight (approximately)	18,5 kg	
Peristaltic pump ASR25 for condensate removal	1 pc. (standard)	2 pcs. (standard)
Data per heat exchanger		
Gas flow	1x 250l/h or 2x 125l/h	1x 500l/h or 2x 250l/h
Material of heat exchanger	PVDF	Stainless steel
Maximum pressure	1,5 bar a	100bar a
Pressure drop	6 mbar	8 mbar
Dead volume	67ml (singler heat exchanger), 55ml (double heat exchanger)	
Sample gas inlet	Tube DN 4/6mm	
Sample gas outlet	Tube DN 4/6mm	
Condensate outlet	Tube DN 10/12mm	
Operation data		
Gas inlet dew-point	Max. 70°C	Max. 80°C
Gas inlet temperature	Max. 140°C	Max. 180°C
Cooler capacity	90W	160W
Gas outlet tem ture	factory setting: +3°C	
Dew point stab...y	±1K	
Ambient temperature	+10°C to +40°C	
General electrical data		
Mains connection	approx. 2,3m open wire ends	
Alarm contact	Voltage-free changeover contact, max. 250VAC/2A, min. 5VADC/5mA	
Alarm set points	<0 / >+10°C	
Protection class	IP 20 (EN60529)	
Marking	Ex II 3G Ex ma IIA T3 Ex II 3D Ex ma IIIB T180°c (IEc respectively EN60079)	
Power supply	220…240VAC/50Hz (standard) or 100…115VAC/60Hz	
Electrical protection	External on installation site, fuse characteristic C; 230VAC 6A; 115VAC 10A	
Power consumption	190 VA (depending on configuration, ambient temperature & load)	
Coolant	R134a	

ANKERSMID Compressor cooler

ACC 85x/86x Ex Series

Dimensions