

SAMPLE GAS DRYER



PERIPHERAL RIN

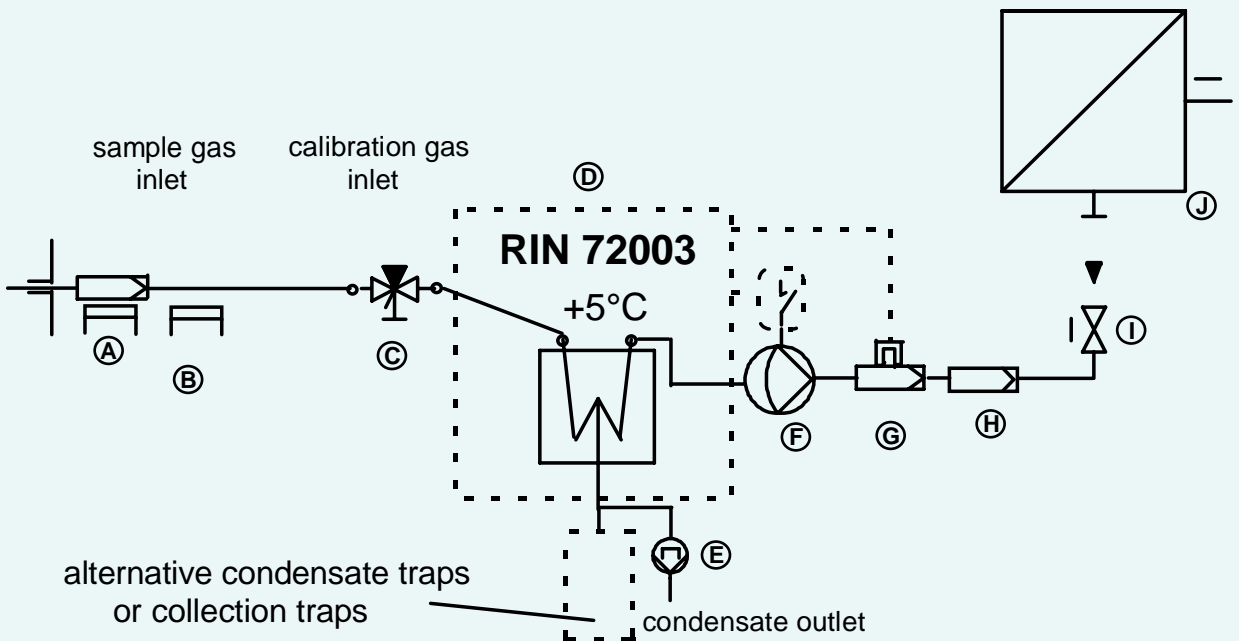
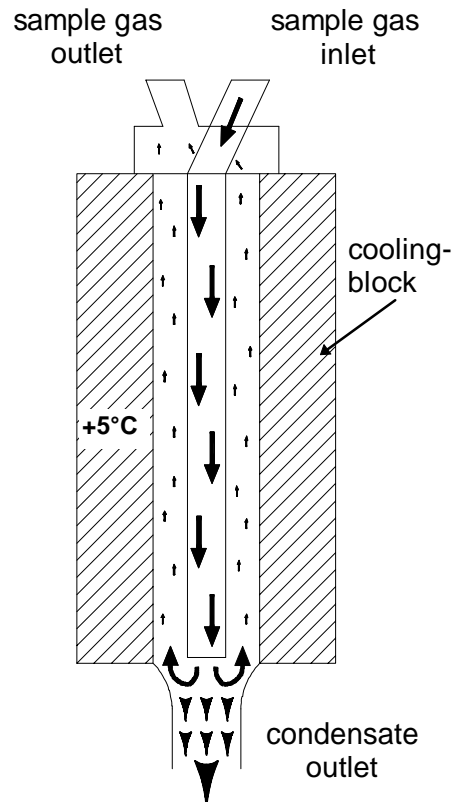
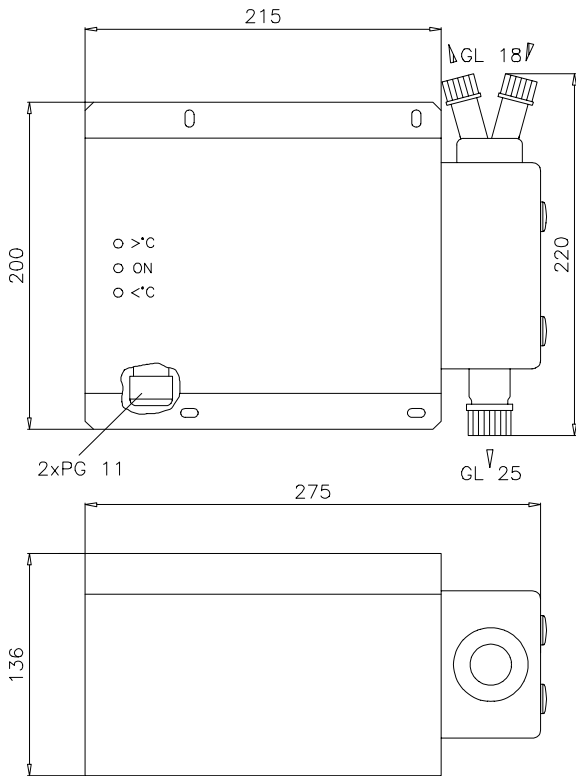
FEATURES

The ANSEROS Peltier Sample Gas Dryer **RIN 72003** is used to reduce the dew point of wet sample gases to a level suitable for humidity-sensitive gas analysers. Especially with infrared analysers, it helps to prevent (a) water vapour cross sensitivity, and (b) volumetric errors.

The sample gas passes through a measuring head to the **RIN 72003** Sample Gas Dryer where its dew point is lowered to +5°C. Dust particles and other solid substances are either trapped in an optional filter of the measuring head or in a fine filter further downstream. After that, the conditioned gas can be passed on to the analyser.

If the analyser has no control or indication functions for gas flow, these should be provided externally. For operation under pressure conditions differing from atmospheric pressure, the use of an ANSEROS peristaltic pump for condensate discharge is recommended.

DIMENSIONS & PRINCIPLE OF OPERATION



- Ⓐ gas sample probe
- Ⓑ heated sample line
- Ⓒ 3-way ball valve
- Ⓓ gas cooler
- Ⓔ peristaltic pump

- Ⓕ diaphragm pump
- Ⓖ universal filter with liquid alarm
- Ⓗ liquid particles filter
- Ⓘ flow meter
- ⓵ analyser

SPECIFICATIONS

Sample Gas Dryer Version	RIN 72002	RIN 72003	RIN 72004
sample gas dew point, outlet	+5°C* ± 1°C (set in factory)		
range of adjustment	0°C ... +20°C		
dew point stability	0,1°C at gas flow 60l/h and ambient temperature 20°C		
sample gas temperature, inlet***	max. 180°C		
sample gas dew point, inlet***	max. 80°C		
gas flow rate / heat exchanger***	150l/h	150l/h	350l/h
number of heat exchangers	1	2	1
material of heat exchangers	Duran glass, PVDF or stainless steel 1.4571		
ambient temperature***	+5°C to +45°C* +5°C to +50°C**	+5°C to +50°C	
pressure	Duran glass : max. 3 bar PVDF : max. 3 bar stainless steel: max. 10 bar (other versions on request)		
total cooling power at +25°C ambient temp	50KJ/h	90KJ/h	
dead volume / heat exchanger	50cm ³	2 x 50cm ³	100cm ³
?P/heat exchanger	1mbar at 150l/h	1 mbar at 150 l/h	5 mbar at 350 l/h
sample gas connection	for tube 6 mm Ø* 8mm or 10 mmØ**	G1/4? i	G1/4? i* NPT**
condensate connection	for tube 12 mm Ø* 8mm or 10 mmØ**	G3/8? i	G3/8? i* NPT**
ready for operation	10 min.		
power consumption	100VA	110VA	
mains power supply	230 V or 115 V ± 10%, 50 ... 60 Hz		
electric connections	Clamps 2,5 mm ² , cable gland 2 x PG11		
alarm contact	2 change-over contacts, alarm point: ?T ± 3°C to T _{setting value}		
contact rating	250 V AC, 2 A, 500 VA, 50 W		
service measuring point	0,1 V/°C		
electric protection	fuse 2 x 1,6 A _T		
case protection	IP22 EN 61010		
housing color	RAL 9005 (black)		
method of mounting	wall mounting		
dimensions	275mm x 220mm x 136mm	305 mm x 220 mm x 136 mm	
weight	5,5kg	7kg	
* Standard ** Option *** Maximum values in technical data must be rated in consideration of total cooling capacity at 25°C ambient temperature.			

DISTRIBUTOR



MANUFACTURER



ANSEROS KLAUS NONNENMACHER GMBH
 D-72070 TÜBINGEN, DISCHINGERWEG 11
 PHONE+49.7071-7995-0 FAX +49.7071-7995-95
 Info@anseros.de
 www.anseros.de