JCC-R/JCC-Q/JCC-P/JCC-L Gas Conditioning Systems



APPLICATION

- · Mobile or stationary extractive gas analysis
- · Emission and process monitoring
- Continuous sample gas conditioning of humid process gases
- Continuous drying of sample gas to a precise low and constant outlet dew point
- Minimises water vapour cross sensitivities and volumetric errors

BENEFITS

- Complete solution for a great number of applications
- Sustainable reproducable measuring results
- Optimum operational safety due to self-monitoring
- Extremlely precise long term stable dew point even under varying loads
- · Fast response time due to low dead volume
- · Continuous condensate removal
- · Low maintenance operation
- · Easy to maintain design

FEATURES

- 4 housing versions:
 - 19" mounting
 - Rear panel mounting
 - Side panel mounting
 - Portable housing
- Individual configuration due to modular design
- Basic device with high-performance compressor sample gas cooler
- Integrated condensate pumps
- · Digital temperature display and status LEDs
- · Status contact
- · Additional options:

High-performance corrosion resistant sample gas pump with safety interlock

Easy to maintain robust fine dust filter or disposable filter

Corrosion resistant flowmeter with precise needle valve

Reliable condensate monitoring



JCT Analysentechnik

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate Treatment

Accessories

Gas Conditioning Systems

Sample Gas
Converters

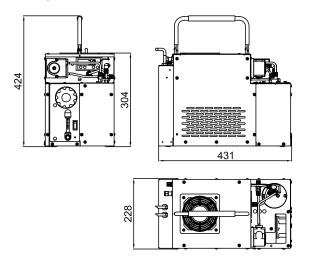
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TECHNICAL DATA

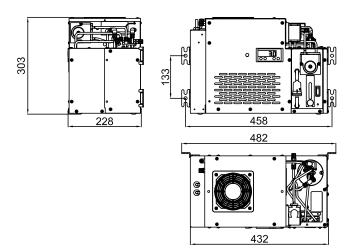
Model	JCC-R	JCC-Q	JCC-P	JCC-L					
Description	mobile and stationary gas conditioning systems								
Installation	19" rack	side panel	portable	rear panel					
Cooling principle		compressor coolir	ng with hot gas bypass						
Number of heat exchangers / gas paths		1 / 1 (m	ono or dual)						
	Оре	ration							
Flow rate per gas path*	mono: max. 250 NI/hr, dual: max. 125 NI/hr								
Gas temperature inlet*	max. +140°C								
Dew point inlet*	max. +70°C								
Dew point outlet	+3°C								
Dew point stability (for constant inlet conditions)		Ė	£0,3K						
Ambient temperature		+5 to +45°C							
Operating pressure	0,2 to 2,2 bara								
Ready for operation	< 15 min								
Pressure drop at 100 NI/hr	6 mbar								
	Cons	truction							
Dimensions over all (B x H x T) [mm]	483 x 245 x 354	482 x 303 x 228	228 x 304 x 431	277 x 303 x 441					
Mounting position	horizontal								
Weight	approx. 20 kg (dependent on configuration)								
Housing, colour	sheet steel 1,5 mm, powder coated, RAL 7035								
Material heat exchanger	PVDF								
Dead volume per gas path	mono: 67 ml, dual: 2 x 50 ml								
Connection sample gas inlet	JCC-R / JCC- Q / JCC-L: PVDF hose fitting DN 4/6 mm JCC-P: stainless steel fitting 6 mm								
Connection sample gas outlet	PP hose fitting DN 4/6 mm								
Connection condensate outlet	PP hose fitting DN 4/6 mm								
Approvals / signs			CE						
	Ele	ctrics							
Power supply	230 VAC 50/60 Hz or 115 VAC 50/60 Hz								
Power consumption (depending on load, ambient temperature and configuration)	150 to 200 VA								
Connection power / status signal	cable with open ends, L = 2 m; portable model: CEE 7/7plug to IEC plug, L = 2 m								
Fusing	external on installation site, fuse characteristic C: 230 VAC 6 A; 115 VAC 10 A portable model: internal fuse T 6.3 A / T 10 A								
Protection class		IP 20 (EN 60529)							
On time		100 %							
Alarm set points		< 0 / > +10°C							
Status relay		volt free cha	angeover contact						
Switching capacity relay		max. 250 VAC / 2	A; min. 5 VADC 5 mA						

^{*} Results from the effective cooling capacity at 25°C ambient temperature and 3°C outlet dew point and can be influenced by further operational parameters

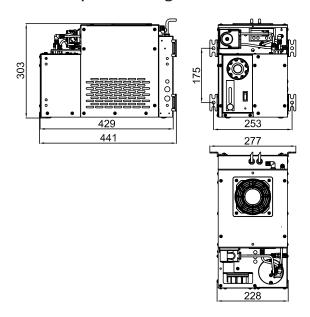
JCC-P portable



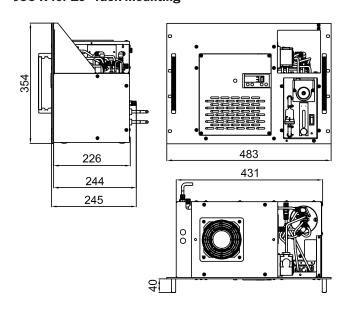
JCC-Q for side panel mounting



JCC-L for rear panel mounting

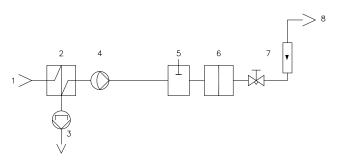


JCC-R for 19" rack mounting



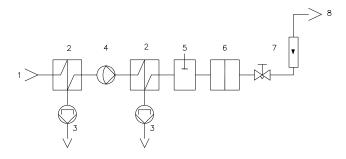
GAS FLOW DIAGRAMS

JCC with mono heat exchanger



- 1 Sample gas inlet
- 2 Gas heat exchanger
- 3 Condensate pump JSR-25
- 4 Sample gas pump

JCC with dual heat exchanger



- 5 Condensate sensor KW-2
- 6 Sample gas filter
- 7 Flow meter with needle valve
- 8 Sample gas outlet

ORDER CODE

${\tt JCC-L \ / \ JCC-Q \ / \ JCC-R \ / \ JCC-P}$

Order code	22								
		,	₩	\	\	¥	\	\	\
Condensate detector Power supply	115 VAC 60 Hz								4
	115 VAC 50 Hz								3
	230 VAC 60Hz								2
	230 VAC 50 Hz								1
	With condensate detector KW-2							1	
	Without condensate detector KW-2							0	
Gas flow control	Flow meter with needle valve 10100 NI/h incl. flow alarm						5		
	Flow meter with needle valve 10100 NI/h						4		
Fine dust filter Sample gas pump	Sample gas pump < 200 NI/h incl. relay for remote control					4			
	Sample gas pump < 200 NI/h					2			
	Fine dust filter JF-1 incl. filter element				2				
	Disposable fine dust filter				1				
Basic unit Gas heat exchanger	1 dual gas heat exchanger and 2 condensate pumps JSR-25			4					
	1 mono gas heat exchanger PVDF and 1 condensate pump JSR-25			1					
	Portable housing		Р						
	19 rack housing		R						
	Wall mounting on side panel		Q						
	Wall mounting on rear panel		L						

Some possible combinations of options are technically futile and therefore not available. Please ask the **JCT** sales team for advice.

JCC-R





Lauper Instruments AG Irisweg 16 B CH-3280 Murten Tel. +41 26 672 30 50 info@lauper-instruments.ch www.lauper-instruments.ch