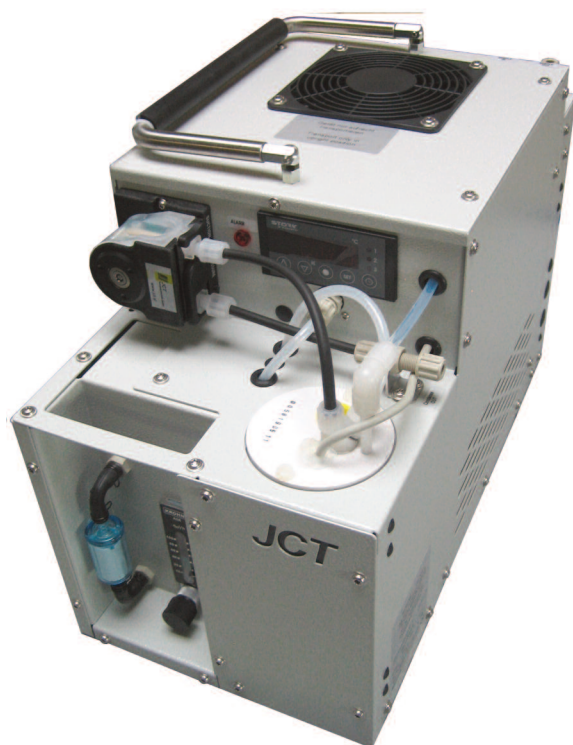




# JCC-R/JCC-Q/JCC-P/JCC-L Gas Conditioning Systems

**JCT**  
Analysentechnik



Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate  
Treatment

Accessories

**Gas Conditioning  
Systems**

Sample Gas  
Converters

## 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 reproducible measuring results
- Optimum operational safety due to self-monitoring
- Extremely 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

## TECHNICAL DATA

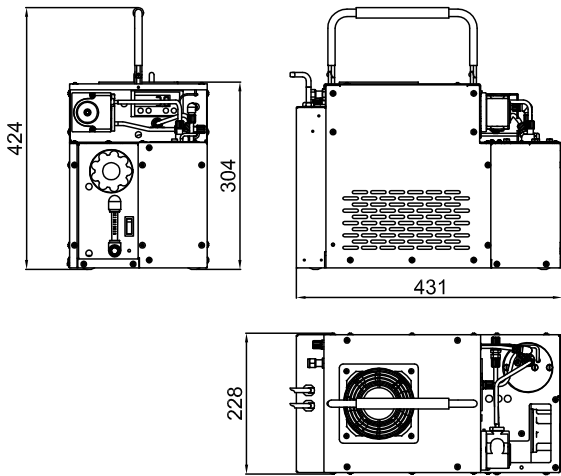
Model	JCC-R	JCC-Q	JCC-P	JCC-L
Description	mobile and stationary gas conditioning systems			
Installation	19" rack	side panel	portable	rear panel
Cooling principle	compressor cooling with hot gas bypass			
Number of heat exchangers / Gas paths	1 / 1 (mono or dual)			
<b>Operation</b>				
Flow rate per 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)	±0,3 K			
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			
<b>Construction</b>				
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			
<b>Electrics</b>				
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 changeover 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

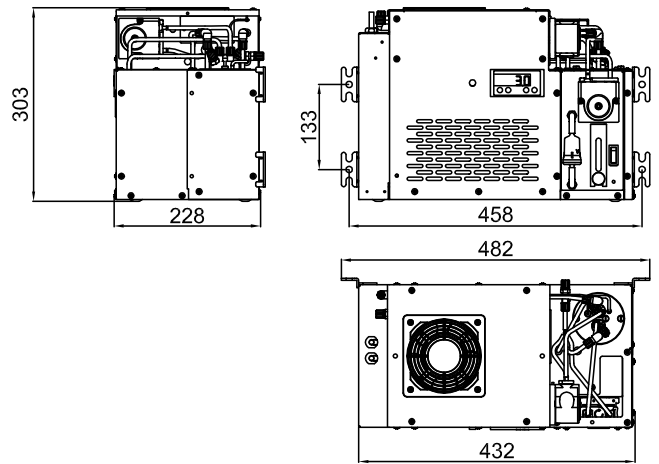
## DIMENSIONS

Dimensions in mm

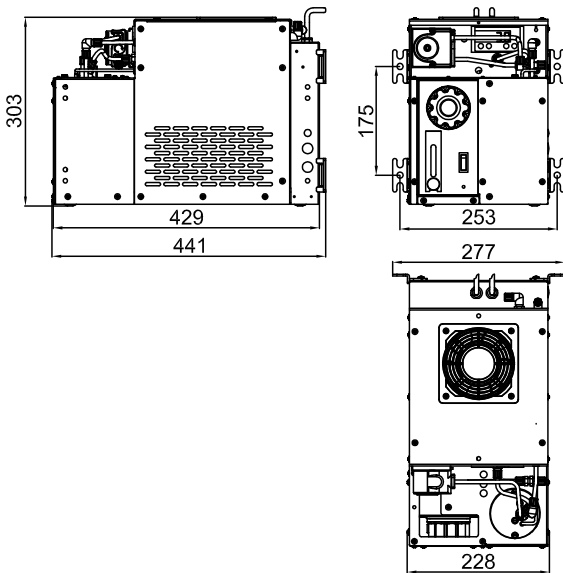
**JCC-P portable**



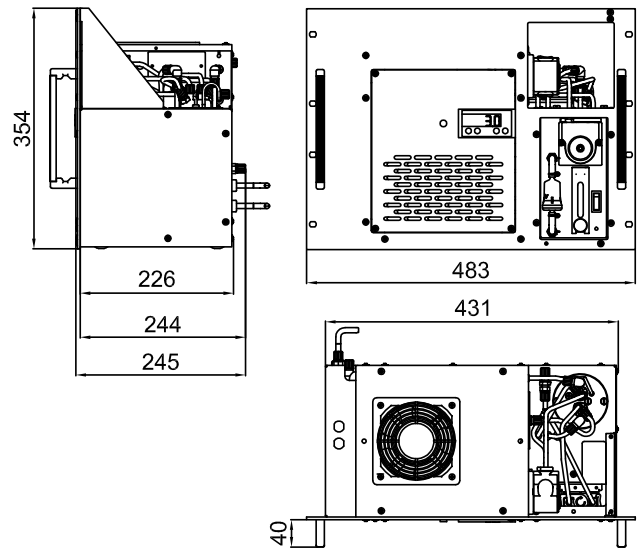
**JCC-Q for side panel mounting**



**JCC-L for rear panel mounting**

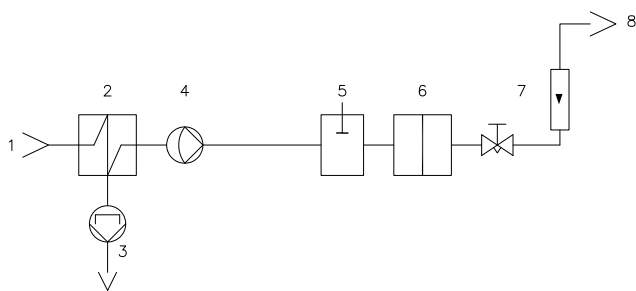


**JCC-R for 19" rack mounting**

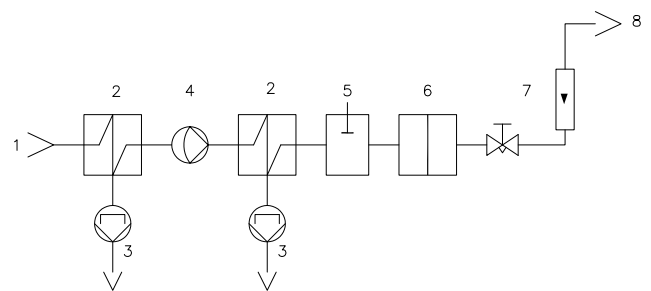


## GAS FLOW DIAGRAMS

**JCC with mono heat exchanger**



**JCC with dual heat exchanger**



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

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

## ORDER CODE

### JCC-L / JCC-Q / JCC-R / JCC-P

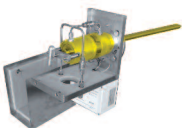
Basic unit	Wall mounting on rear panel	L						
	Wall mounting on side panel	Q						
	19" rack housing	R						
	Portable housing	P						
Gas heat exchanger	1 mono gas heat exchanger PVDF and 1 condensate pump JSR-25			1				
	1 dual gas heat exchanger and 2 condensate pumps JSR-25			4				
Fine dust filter	Disposable fine dust filter				1			
	Fine dust filter JF-1 incl. filter element				2			
Sample gas pump	Sample gas pump < 200 NI/h				2			
	Sample gas pump < 200 NI/h incl. relay for remote control				4			
Gas flow control	Flow meter with needle valve 10....100 NI/h					4		
	Flow meter with needle valve 10....100 NI/h incl. flow alarm					5		
Condensate detector	Without condensate detector KW-2					0		
	With condensate detector KW-2					1		
Power supply	230 VAC 50/60 Hz						1	
	115 VAC 50/60 Hz						3	
<b>Order code</b>		22.						

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

### JCC-R



Gas Sampling **Probes**



Heated Sample **Lines**



Sample Gas **Coolers**



Gas Conditioning **Systems**



NOx **Converter**



and solutions for

