Innovation on Gas Analysis

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-LED's
- 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





Analysentechnik GmbH

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate Treatment

Accessories

Gas Conditioning Systems

> Sample Gas Converters



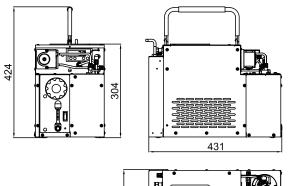
TECHNICAL DATA

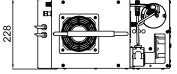
| Model | JCC-R | JCC-Q | JCC-P | JCC-L | | | | |
|--|--|-------------------------|---------------------|-----------------|--|--|--|--|
| Description | r | nobile and stationary g | as conditioning sys | tems | | | | |
| Installation | 19"-rack | side panel | portable | rear panel | | | | |
| Cooling principle | compressor cooling with hot gas bypass | | | | | | | |
| Number of heat exchangers / Gas paths | 1 / 1 (Mono or Dual) | | | | | | | |
| | Ор | eration | | | | | | |
| Flow rate per gas path* | mono: max. 250 Nl/hr, Dual: max. 125 Nl/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) | ±0,3K | | | | | | | |
| Ambient temperature | +5+45°C | | | | | | | |
| Operating pressure | 0,22,2 bara | | | | | | | |
| Ready for operation | < 15 min | | | | | | | |
| Pressure drop at 100 NI/hr | 6 mbar | | | | | | | |
| | Cons | struction | | | | | | |
| 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 | ectrics | | | | | | |
| Power supply | 230 VAC 50/60 Hz or 115 VAC 50/60 Hz | | | | | | | |
| Power consumption (depending on load, ambient temperature and configuration) | 150200 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

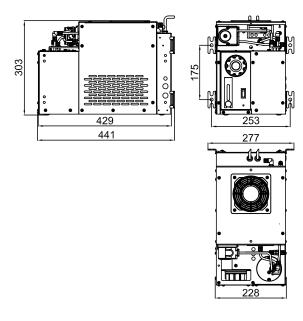
DIMENSIONS

JCC-P portable

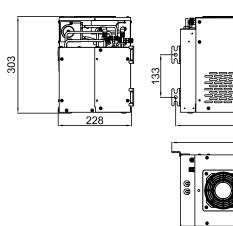




JCC-L for rear panel mounting



JCC-Q for side panel mounting

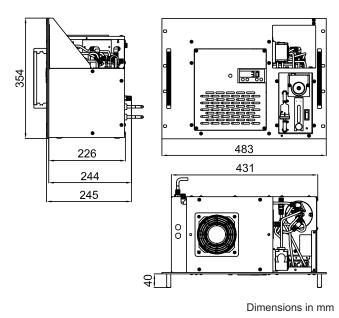


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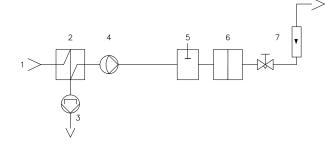
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JCC-R for 19"-rack mounting



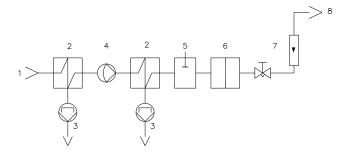
GAS FLOW DIAGRAMS

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

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

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

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

JCC-R



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