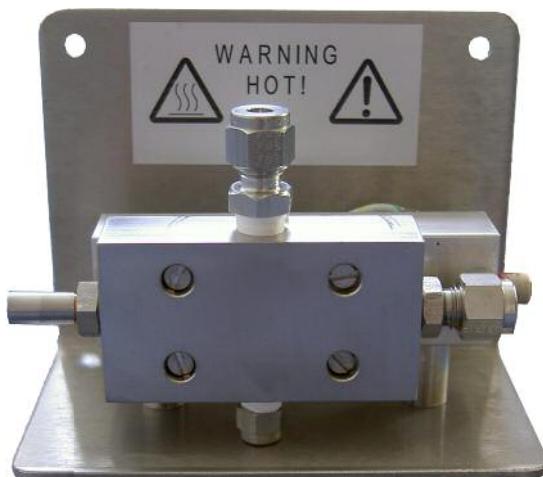


Innovation in Gas Analysis



JDU Dilution Unit



JCT

Analysentechnik
GmbH

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate
Treatment

Accessories

Gas Conditioning
Systems

Sample Gas
Converters

MADE IN AUSTRIA



APPLICATION

- For extractive gas analysis
- For emission and process monitoring
- For adaption of the sample gas concentration to the measuring range of the analyser
- For dilution of toxic sample gas below the maximum allowable concentration (MAC)
- For dilution of the water vapour concentration in the sample gas to a low dew point
- For gas analysis at low sample gas quantities
- For dilution of the water vapour concentration for humidity measurements with IR analysers
- Also applicable as eductor pump

FEATURES

- Completely made of stainless steel
- For wall mounting
- Compact and robust design
- Low dead volume
- Suitable for high pressures and temperatures
- Heated version up to max. 180°C

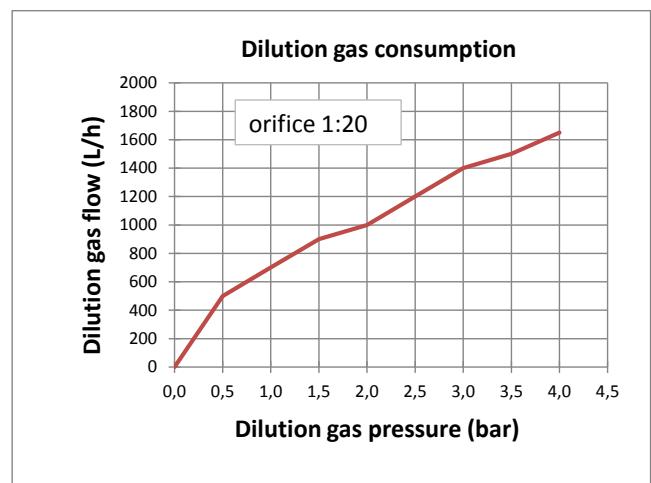
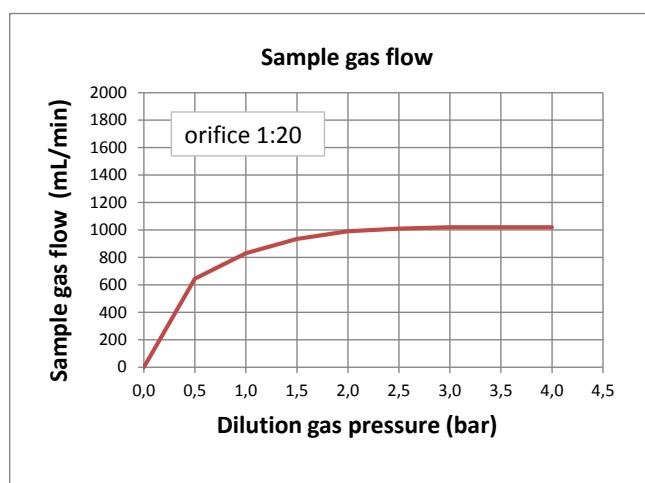
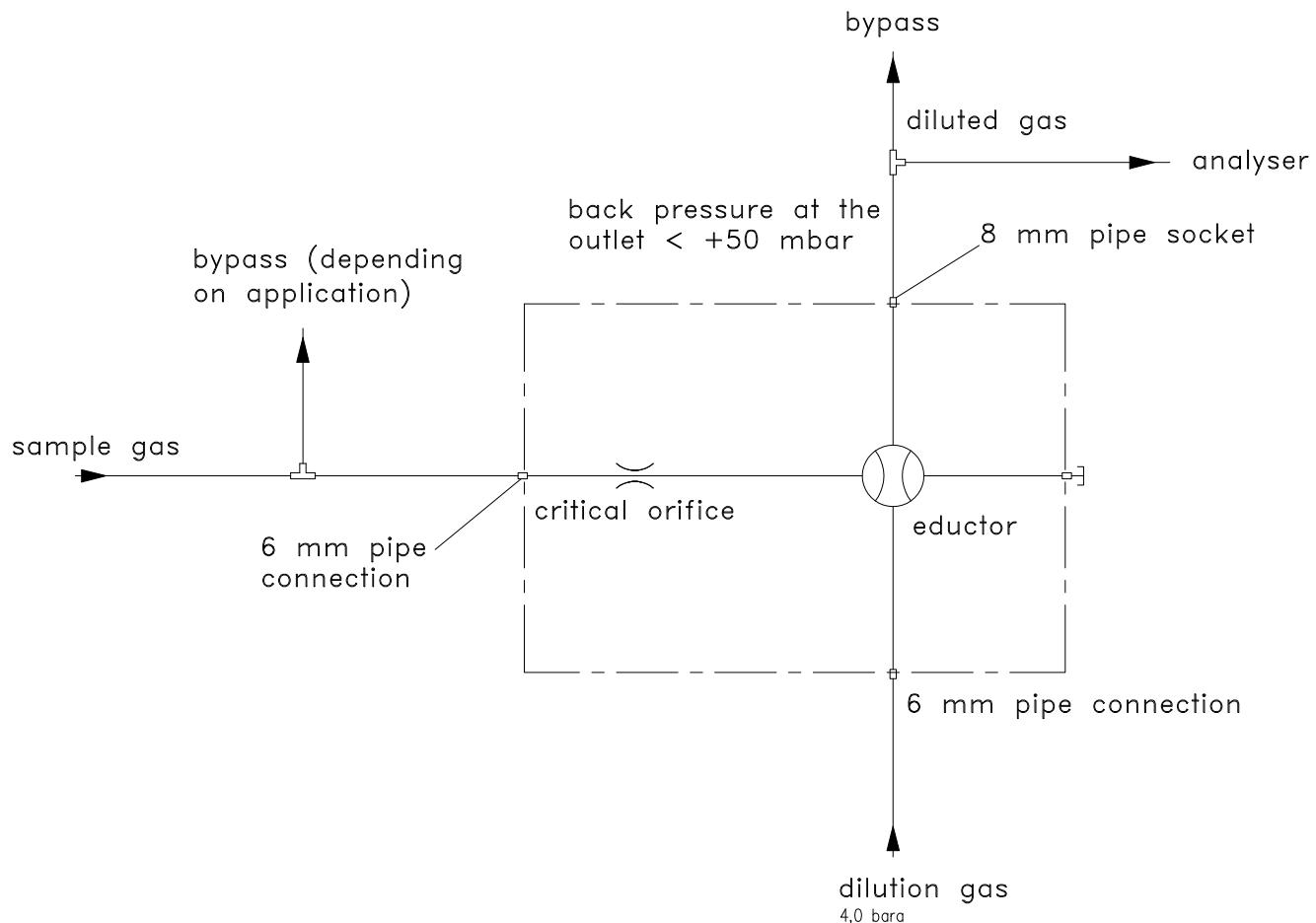
BENEFITS

- Corrosion resistant
- Variably applicable
- Low and simple maintenance effort
- Easy mounting and integration in gas analysis systems
- Gas tight

TECHNICAL DATA

Model	JDU-US	JDU-H
Description	Sample gas dilution unit	
Heating	no	yes
Dilution ratios	1:10, 1:12,5, 1:20, 1:37,5, 1:50, 1:100, 1:200	
Operation		
Operating temperature	-	max. 180°C
Ambient temperature	+5°C....+50°C (min. +5°C above sample gas dew point)	
Supply pressure	4....5 bara	
Admissible back pressure	< +50 mbar	
Heating-up time	-	approx. 30 min
Construction		
Dimensions over all (W x H x D)	90 x 74 x 20 mm	130 x 75 x 100 mm
Weight	approx. 0,5 kg	1,2 kg
Connections dilution gas / sample gas	6 mm bulkhead union	
Connection diluted sample gas	8 mm pipe stub	
Gas wetted materials	SS 316, glass	
Mounting / position	wall mounting / any	
Protection class	IP 66 (EN60529)	IP 20 (EN60529)
Recommended dilution gas	instrument air or inert gas (e.g. nitrogen 5.0)	
Approvals / signs	CE	
Electrics		
Power supply	-	230 VAC 50/60 Hz
Power consumption	-	approx. 160 W
Temperature sensor	RTD Pt100	
Electrical connection	-	2x2-pole cables with free ends

GAS FLOW DIAGRAM / PERFORMANCE DIAGRAMS



ORDER CODES

Part number	Description
79.00003	JDU-U unheated dilution unit, dilution ratio 1:10
79.00004	JDU-U unheated dilution unit, dilution ratio 1:20
79.00011	JDU-U unheated dilution unit, dilution ratio 1:50
79.00012	JDU-U unheated dilution unit, dilution ratio 1:100
79.00013	JDU-U unheated dilution unit, dilution ratio 1:200
79.00010	JDU-US unheated dilution unit, specify dilution ratio with the order
79.00006	JDU-H heated dilution unit, max. 180°C, dilution ratio 1:10
79.00007	JDU-H heated dilution unit, max. 180°C, dilution ratio 1:20
79.00020	JDU-H heated dilution unit, max. 180°C, dilution ratio 1:50
79.00021	JDU-H heated dilution unit, max. 180°C, dilution ratio 1:100
79.00022	JDU-H heated dilution unit, max. 180°C, dilution ratio 1:200
Accessories	
89.00100	Temperature controller JPXR4
89.90000	Preconfiguration of temperature controller
89.00500	Solid state relay
HT42-20P	Temperature controller HT42
79.90050	Presicion pressure regulator, 1/4“, 10 bar
35.00673	JDCP Dilution control panel
Spare parts	
79.90010	Orifice, dilution rate 1:200
79.90015	Orifice, dilution rate 1:100
79.90020	Orifice, dilution rate 1:50
79.90025	Orifice, dilution rate 1:37,5
79.90030	Orifice, dilution rate 1:25
79.90035	Orifice, dilution rate 1:20
79.90040	Orifice, dilution rate 1:12,5
79.90045	Orifice, dilution rate 1:10

All dilution data are approximate values and can be varied with the dilution gas.

JCT Analysentechnik GmbH

Werner Heisenberg-Straße 4 A-2700 Wiener Neustadt
 Tel. +43 (0) 2622 / 87201 Fax +43 (0) 2622 / 872011
 E-Mail: sales@jct.at Web: www.jct.at

