

JPAG Pure Air Generator



APPLICATION

- For zero check and calibration of gas analysers
- Für dilution of calibration gas
- For dilution of reaction mixture with zero gas at gas phase titration (GPT)
- For hydrocarbon-free burner air supply of GC combustion detectors like e.g. flame ionisation detectors (FID)

BENEFITS

- Reliable constant continuous pure air on ppt level
- Simple installation
- Economically operation (no need to purchase or replace gas cylinders)
- Optimal operating safety
- Error messages are indicated as text on the display
- Low maintenance effort with indication of maintenance instructions on the display
- Stand-by mode for short interruptions of operation

FEATURES

- Continuous production of pure air, free of water vapour (H₂O), hydrocarbons (HC), nitrogen oxides (NO_x), sulphur dioxide (SO₂), ozone (O₃) and carbon monoxide (CO)
- For direct connection of compressed air or an external compressor
- PLC process control with display for temperatures (cooler, catalyst), operating hours, as well as status and error messages
- Water vapour removal with peltier cooler to a dew point of -15°C
- Automatic periodically condensate removal
- With integrated pre-filter for protection of the external compressor
- With integrated dust filter in the in- and outlet for removal of solid particles
- With integrated separator for condensate droplets with automatic discharge and pressure relief safety-valve
- With 2 precision pressure regulators in the in- and outlet
- With palladium catalyst, ozone generator and activated charcoal for „gas cleaning“
- For 19"-rack mounting or free standing operation



JCT

Analysentechnik
GmbH

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate
Treatment

Accessories

Gas Conditioning
Systems

Sample Gas
Converters



www.jct.at

TECHNICAL DATA

Model

JPAG

Description	pure air generator
-------------	--------------------

Operation

Flow capacity	max. 12 l/min at 2,5 bara
Outlet dew point	-15°C
Residual concentration	NO _x , SO ₂ and Ozon: < 10 ppt HC and CO: < 3 ppb
Filter porosity	< 7 µm
Outlet pressure	max. 3 bara
Ambient temperature	+10....+40°C
Ready for operation	< 30 min
Humidity	5....95 % RH (not condensing)
Operating temperature cooler	+2,5°C
Operating temperature platinum catalyst	+400°C
Alarm limits cooler	min. +1,5°C / max.+10°C
Alarm limits catalyst	± 20K
On-time	100 %

Construction

Dimensions over all (H x W x D)	266 x 483 x 430 mm
Weight	20,6 kg
Inlet / outlet / condensate	push on fitting DN 4/6 mm
Housing material / colour	stainless steel natural
Mounting	19"-rack or free standing
Protection class	IP20 (EN 60529)
Approvals / signs	CE

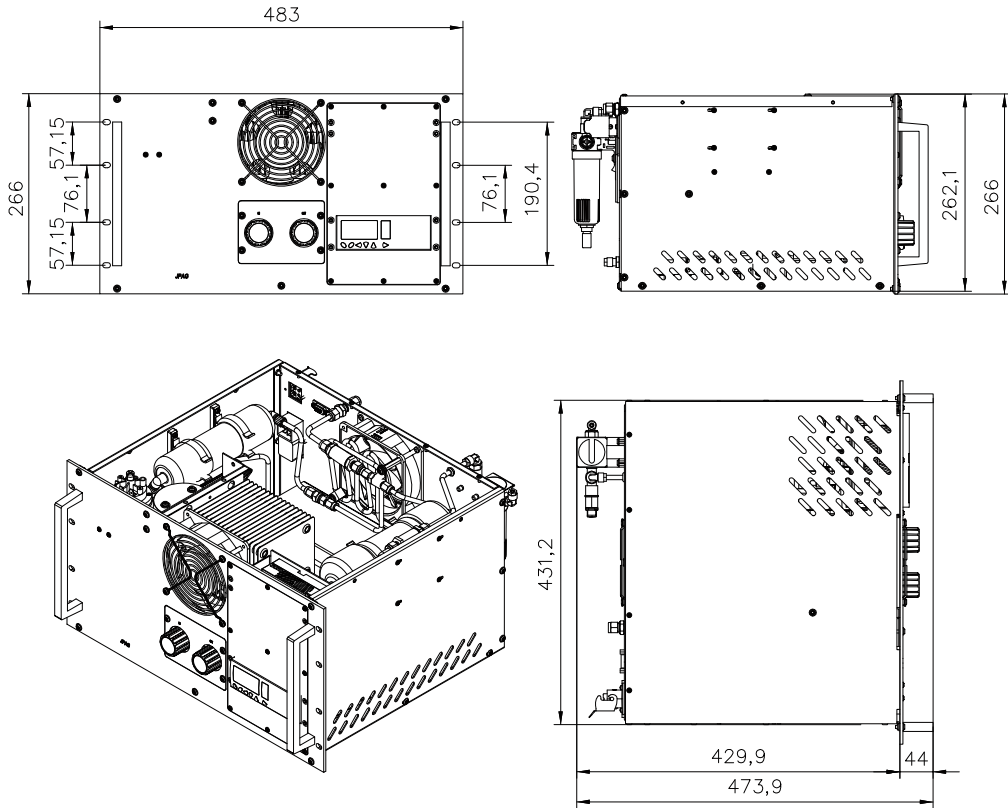
Electrics

Power supply	230 VAC 50 Hz or 115 VAC 60 Hz ±10 %
Power consumption	approx. 390 VA (without compressor)
Fusing	230 VAC: 2 x 3.15 AT 115 VAC: 2 x 6.30 AT
Connection status / remote	DB 9 special
Electrical connection	IEC device socket / CEE 7/7 plug to IEC plug, 2 m cable

Option compressor

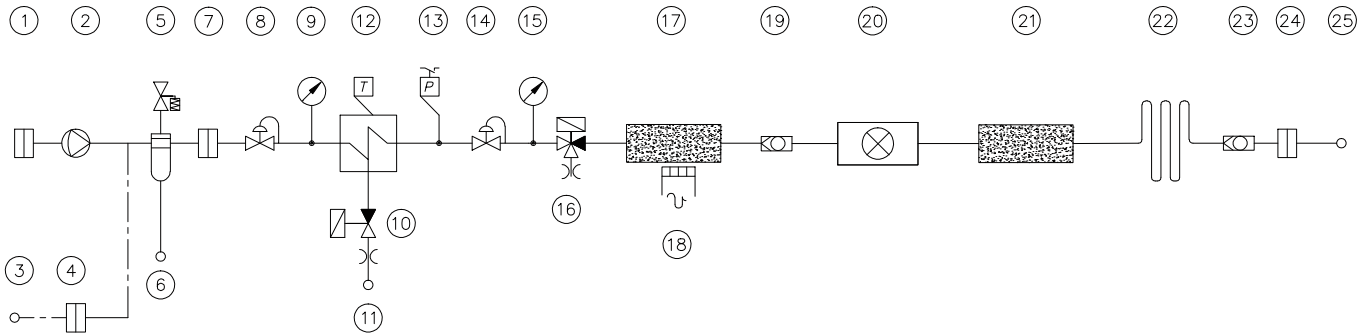
Outlet pressure	max.7,9 bara (continuous operation)
Pump capacity	16,1 NI/min at 7 bara
Dimensions (B x H x T)	137 x 183 x 203 mm
Weight	approx. 6,6 kg
Approvals / signs	CE
Power supply	230 VAC 50Hz or 115 VAC 60Hz
Power consumption	270 VA

DIMENSIONS



Dimensions in mm

GAS FLOW DIAGRAM



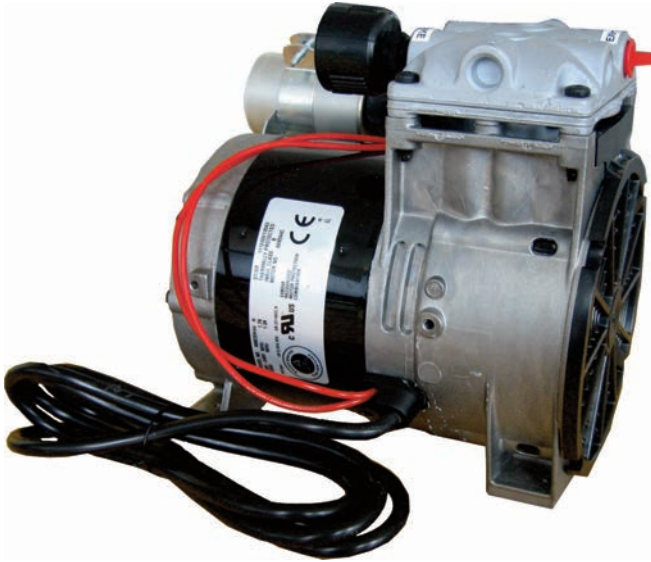
1	Pre-filter compressor
2	External compressor
3	Connection compressed air
4	Pre-filter compressed air
5	Filter with automatic discharge and pressure relief valve
6	Condensate outlet
7	Particle filter inlet
8	Pressure regulator inlet
9	Pressure indication inlet
10	Solenoid valve condensate outlet peltier cooler
11	Condensate outlet peltier cooler
12	Peltier cooler
13	Pressure switch outlet

14	Pressure regulator outlet
15	Pressure indication outlet
16	Solenoid valve with choke for process start
17	Palladium catalyst
18	Heating element for palladium catalyst
19	Check valve
20	Ozone generator
21	Activated charcoal cartridge
22	Cooling coil
23	Check valve
24	Particle filter outlet
25	Pure air outlet

ORDER CODES

Order code	Description
27.00510	JPAG pure air generator, 230 VAC 50 Hz, without compressor
27.00511	JPAG pure air generator, 115 VAC 60 Hz, without compressor
56.00100	External compressor for compressed air generation, 230 VAC 50 Hz

External compressor for compressed air generation



JCT Analysetechnik 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

