

Head-generated adsorption dryer ATW-V 83

Rev 01_1118

Technical data sheet

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Nominal capacity (based on suction conditions 1 bar (a), 20°C)

Volume flow inlet	830 m ³ /h
Volume flow outlet	830 m ³ /h
Average regeneration air	0 m ³ /h
Compressed air inlet temperature	40°C
Ambient temperature	25°C
Working pressure	7 bar (g)
Pressure dew point	-40°C

General data

Maximum operating pressure	11 bar (g)
Minimum operating pressure	4 bar (g)
Maximum inlet temperature	40°C
Ambient temperature minimum	2°C
Ambient temperature maximum	35°C

Cycles

Adsorption time-dependent	rigid 360, variable max 720
Adsorption load-dependent	480 minutes (option dew point control TPS required)
Regeneration: Expansion	rigid 20, variable 20
Regeneration: Heating phase (at least)	rigid 165, variable 165
Regeneration: Cooling phase (at least)	rigid 50, variable 50
Pressure build-up timet	rigid 15, variable 15

Electrical data

Electric power heater	8 kW
Electric power vacuum pump	1,6 kW
Electric power control	0,2 kW
Average heater power time-dependent	5,84 kW/h
Average heater power depending on load	5,37 kW/h (option dew point control TPS required)
Medium vacuum pump power time dependent	1,25 kw/h
Medium vacuum pump power load dependent	1,15 kw/h (option dew point control TPS required)
Electrical connection	400
Frequency	50 Hz
Maximum protection	3 x 25 Ampere
Degree of protection switch cabinet	54

Norms and key figures

Testing pressure	16,5 bar g
Pressure vessel standard	2014/68/EU
Fluid group	2
Category	III
Module	B+F
Sound insulation level	ISO 85

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Dimensions and weights

A	2496 mm
C	1572 mm
D	1141 mm
Connection input	DN 50 PN 16
Output connection	DN 50 PN 16
Total weight	1010 kg
Vessel volume	200 Liter
Connection of vacuum pump exhaust air	optionally DN 80 PN 6 (DIN 2631) or DN 80 PN 6 (DIN 24154 line 4)

Scope of supply

Ready-to-operate adsorption dryer	ATW-V 83
Controls	Control cabinet with Touch Panel Siemens, S7 (standard)
Filling	BASF KC Trockenperlen WS / N
Total weight of filling	280 kg

Options

Dew point	TPS
Preliminary filter	ECOCLEAN F140SMA
Afterfilter	ECOCLEAN GTF140DMF
Connections filtration	2"
Insulation	about cylindrical length of the container, heater tube and pipe bridges below

Dimensional drawings

