

Technical data sheet

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

Volume flow inlet	4200 m ³ /h
Volume flow outlet	4200 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	35 kW
Electric power vacuum pump	8,5 kW
Electric power control	0,2 kW
Average heater power time-dependent	31,54 kW/h
Average heater power depending on load	25,54 kW/h (option dew point control TPS required)
Medium vacuum pump power time dependent	6,62 kw/h
Medium vacuum pump power load dependent	5,36 kw/h (option dew point control TPS required)
Electrical connection	400
Frequency	50 Hz
Maximum protection	3 x 100 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	IV
Module	B+F
Sound insulation level	ISO 85

Head-generated adsorption dryer ATW-V 420

Rev 01_1118

Technical data sheet

Page 2 of 2

Dimensions and weights

A	3130 mm
C	2380 mm
D	1680 mm
Connection input	DN 150 PN 16
Output connection	DN 150 PN 16
Total weight	3790 kg
Vessel volume	1322 Liter
Connection of vacuum pump exhaust air	optionally DN 150 PN 6 (DIN 2631) or DN 150 PN 6 (DIN 24154 line 4)

Scope of supply

Ready-to-operate adsorption dryer	ATW-V 420
Controls	Control cabinet with Touch Panel Siemens, S7 (standard)
Filling	BASF KC Trockenperlen WS / N
Total weight of filling	1478 kg

Options

Dew point	TPS
Preliminary filter	ECOCLEAN FF100-03SMA
Afterfilter	ECOCLEAN FF100-03DMF
Connections filtration	DN 100
Insulation	about cylindrical length of the container, heater tube and pipe bridges below

Dimensional drawings

