

Adsorption dryer ATM-APN 1

Rev 01_0325

Technical data sheet

Page 1 of 2

Nominal capacity (based on suction conditions 1 bar (a), 20°C)	Unit	Design data
Volume flow inlet	m³/h	6
Volume flow outlet	m³/h	5,16
Average regeneration air	m³/h	0,84
Compressed air inlet temperature	°C	35
Working pressure	bar g	9
Pressure dew point	°C	-28

General data	Unit	Design data
Maximum operating pressure	bar g	16
Minimum operating pressure	bar g	4
Maximum inlet temperature	°C	50
Ambient temperature minimum	°C	2

Norms and key figures	Unit	Design data
Pressure vessel standard		2014/68/EU
Category		Art. 4 (3)
Module	Type	-
Fluid group		2
Testing pressure	bar g	24
Sound insulation level		ISO 85
Norm for medical breathing air		EU Pharmacopoeia / DIN EN ISO 7396-1

Scope of supply	Unit	Design data
Ready-to-operate adsorption dryer	Type	ATM-APN 1
Controls	Type	ECOMATIC
Preliminary filter	Type	APF53MFO / APF53SMA
Final filter	Type	APF53DSF
Filling 1st and 2nd chamber	Type	Alumina / Molecular sieve
Filling 3rd chamber	Type	Activated carbon / Hobcalite

Options	Unit
Controls	Dew point device ET-C
	Dew point device ET-P (incl. inlet air control)
	ECOMATIC24 (24 V DC version)
	APF53SE
Minimum pressure devices	AV G 1/2", AV G 3/4"

Cycles	Unit	Design data
Total	min	10
Adsorption	min	4,5
Regeneration	min	4,5
Pressure build-up time	min	1

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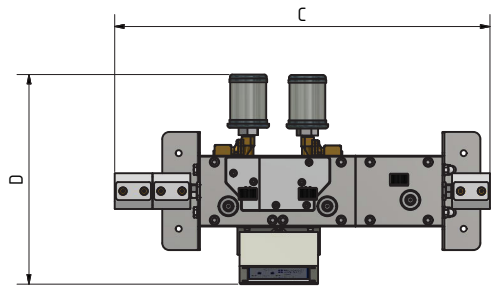
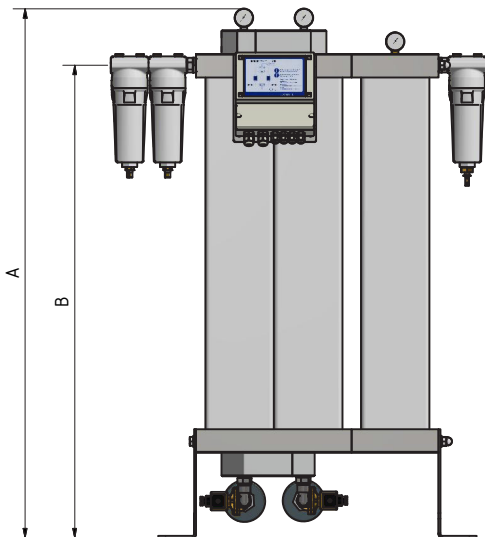
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Page 2 of 2

Dimensions and weights	Unit	Design data
A	mm	623
B	mm	535
C	mm	557
D	mm	306
Nominal size inside the adsorber	Inch	3/8"
Connection input	Inch	3/8"
Output connection	Inch	3/8"
Total weight	Kg	21
Volume (per chamber)	Liter	

Electrical data	Unit	Design data
Installed capacity	W	32
Connector	V	230
Control voltage	V	230
Rate	Hz	50 / 60
Protection class housing	IP	54

Dimensional drawings



Correction factors

Inlet temperature

°C	< 25	25	30	35	38	40	45	48	50
F(t)	1,2	1,1	1,09	1	0,84	0,78	0,72	0,65	0,58

Correction factors working pressure																				
bar g	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10	10,5	11	11,5	12	12,5	13	13,5
F(p)	0,49	0,55	0,61	0,67	0,73	0,80	0,82	0,89	0,91	0,95	1	1,06	1,11	1,16	1,23	1,29	1,34	1,39	1,43	1,5

Please multiply the capacity with the correction factors in the above table