

Adsorption dryer DDAP40

Rev 02_0425

Technical data sheet

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Nominal capacity (based on ambient conditions 14.5 psi, 68 °F)		
	Unit	Design data
Volume flow inlet	scfm	41
Volume flow outlet	scfm	35
Average purge air	scfm	5.8
Compressed air inlet temperature	°F	95
Working pressure	psig	102
Pressure dew point	°F	-40
Residual oil content	mg/m ³	x

General data		
	Unit	Design data
Maximum operating pressure	psig	232
Minimum operating pressure	psig	58
Maximum inlet temperature	°F	122
Ambient temperature minimum	°F	35.6

Norms and key figures		
	Unit	Design data
North America		ASME B31.3 - 2020
Canada		CSA B-51
Testing pressure	psig	348
Sound insulation level		ISO 85

Scope of supply		
	Unit	Design data
Ready-to-operate desiccant dryer	Type	DDAP40
Control unit	Type	ECOMATIC22
Pre filter	Type	APF55SMA
Final filter	Type	APF55DMF
Desiccant filling	Type	Alumina

Options		
	Unit	
Controls		Dew point device ETC4.0
		Dew point device ETP4.0 (incl. inlet air control)
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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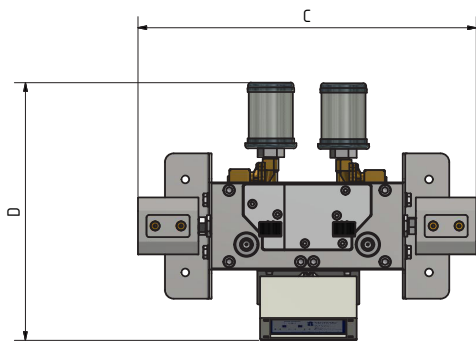
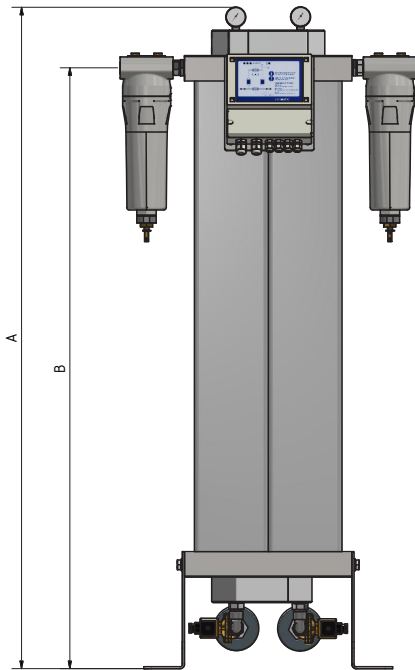
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Dimensions and weights	Unit	Design data
A	inch	38.57
B	inch	33.88
C	inch	21.12
D	inch	17.41
Nominal size inside the adsorber	inch	1/2" NPT
Connection input	inch	1/2" NPT
Output connection	inch	1/2" NPT
Total weight	lbs	125.4
Vessel volume	gallon	2.52

Electrical data	Unit	Design data
Installed capacity	HP	0.043
Connector	V	115
Control voltage	V	115
Rate	Hz	50 / 60
Protection class housing	IP	54

Dimensional drawings



Correction factors

Inlet temperature

°F	< 77	77	86	95	100	104	113	118	122
F(t)	1.2	1.1	1.09	1	0.84	0.78	0.72	0.65	0.58

Correction factors working pressure																			
psig	58	65	72.5	80	87	94	102	109	116	123	130	138	145	152	160	167	174	181	189
F(p)	0.6	0.7	0.74	0.82	0.89	0.97	1	1.08	1.11	1.16	1.22	1.29	1.36	1.42	1.5	1.57	1.63	1.69	1.75

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