

Adsorption dryer ATKN 90

Rev 01_0724

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	1000
Volume flow outlet	m³/h	860
Average regeneration air	m³/h	140
Compressed air inlet temperature	°C	35
Working pressure	bar g	7
Pressure dew point	°C	-40
Residual oil content	mg/m³	x

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		IV
Module	Typ	B+F
Fluid group		2
Testing pressure	bar g	24
Sound insulation level		ISO 85

Scope of supply	Unit	Design data
Ready-to-operate adsorption dryer	Type	ATKN 90
Controls	Type	ECOMATIC
Preliminary filter	Type	APF163SMA
Afterfilter	Type	APF163DMF
Filling		Alumina

Options	Unit
Controls	Dew point device ETC
	Dew point device ETP (incl. inlet air control)
	ECOMATIC (24 V DC version)
	PNC (pneumatic control)
Minimum pressure devices	AV G1“, AV G1 1/2“, AV G2“

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

Adsorption dryer ATKN 90

Rev 01_0724

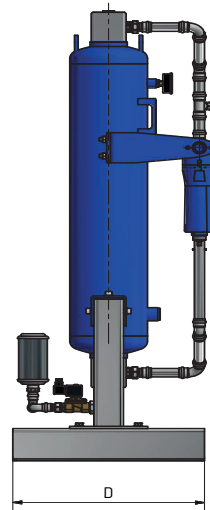
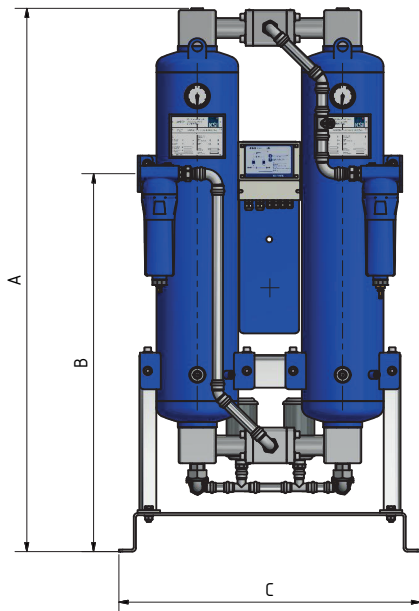
Technical data sheet

Page 2 of 2

Dimensions and weights	Unit	Design data
A	mm	2114
B	mm	1509
C	mm	1340
D	mm	855
Nominal size inside the adsorber	Inch	2"
Connection input	Inch	2"
Output connection	Inch	2"
Total weight	Kg	911
Vessel volume	Liter	212

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)	0,6	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	1,83

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