

## Enhanced Performance and Protection for your Compressed Air and Gas System



PNEUMATIC PRODUCTS

# Oil and Water Vapor Adsorbers

25 to 2200 SCFM

### DESCRIPTION

Fourteen model sizes of adsorbers to remove oil and water vapor from compressed air and other gases. The adsorbers are available with either activated carbon for use as an oil vapor adsorber, or with activated alumina for use primarily as a water vapor adsorber. ASME coded for operating pressures to 150 PSIG (10.3 bars) at 450°F.

### APPLICATIONS

The oil vapor adsorber should be used whenever the presence of oil vapor is detrimental. Common applications are found in the food, pharmaceutical, instrument, hospital and electronics industries. It is recommended downstream of both lubricated and non lubricated compressors, since hydrocarbon vapors are also found in ambient air. It is usually placed between the desiccant dryer and the afterfilter as part of a total purification system.

The water vapor adsorber may be used as a temporary, single chamber regenerable desiccant dryer. Installed parallel to the main desiccant dryer it allows servicing while maintaining high quality air for the downstream process or instrumentation application. It should be installed with its own prefilter and afterfilter assemblies as with dual chamber regenerative dryers. Hydrocarbon removal also occurs.

### FEATURES AND BENEFITS

- Stainless steel diffuser and adsorbent support screens for superior corrosion resistance
- Downflow design for less fluidization and longer adsorbent life
- ASME section VIII designed, manufactured and stamped (where applicable) for certified quality assurance
- Specially selected carbon and aluminum adsorbents for low pressure drop
- Separate fill and drain ports for ease in adsorbent replacement



## REFERENCE DATA

FA model	Nominal SCFM capacity*		Fig. no.	Dimensions, Inches (cm)						
	Carbon	Alumina		A	B	C	D	E	G	H
12	35	30	1	3 1/8 (81)	—	7 1/8 (20)	—	5 (12)	1/2 NPT (1/2 BSPT)	1/4 NPT (1/4 BSP)
30	85	75	2	4 5/8 (115)	20 (51)	11 1/4 (30)	21 (53)	6 1/8 (17)	1 NPT (1 BSPT)	1/4 NPT (1/4 BSP)
31	165	145	2	4 9/8 (125)	20 (51)	13 3/8 (34)	27 (69)	8 1/8 (22)	1 NPT (1 BSPT)	1 NPT (1 BSPT)
32	220	190	2	6 1/8 (163)	20 (51)	13 3/8 (34)	27 (69)	8 1/8 (22)	1 NPT (1 BSPT)	1 NPT (1 BSPT)
33	275	240	2	5 1/8 (131)	20 (51)	14 1/4 (38)	27 (69)	10 1/4 (27)	1 1/2 NPT (1 1/2 BSPT)	1 1/2 NP (1 1/2 BS)
34	330	290	2	6 1/8 (156)	20 (51)	14 1/4 (38)	27 (69)	10 1/4 (27)	1 1/2 NPT (1 1/2 BSPT)	1 1/2 NP (1 1/2 BS)
35	435	380	2	5 8/8 (149)	20 (51)	16 1/2 (42)	27 (69)	12 1/4 (32)	1 1/2 NPT (1 1/2 BSPT)	2 NPT (2 BSPT)
36	540	470	2	8 0 (203)	16 (41)	16 1/2 (42)	27 (69)	12 1/4 (32)	2 FLG	2 NPT (2 BSPT)
37	810	705	2	7 7/8 (196)	16 (41)	18 1/2 (47)	33 (84)	16 (41)	2 FLG	2 NPT (2 BSPT)
38	910	790	2	8 4/8 (215)	16 (41)	18 1/2 (47)	33 (84)	16 (41)	2 FLG	2 NPT (2 BSPT)
39	975	845	2	6 3/8 (161)	16 (41)	21 1/8 (54)	33 (84)	20 (51)	3 FLG	2 NPT (2 BSPT)
40	1365	1185	2	8 2/8 (210)	16 (41)	21 1/8 (54)	33 (84)	20 (51)	3 FLG	2 NPT (2 BSPT)
41	1650	1435	2	9 6 1/8 (246)	16 (41)	21 1/8 (54)	33 (84)	20 (51)	3 FLG	2 NPT (2 BSPT)
42	2200	1915	2	9 0 1/8 (229)	16 (41)	24 1/4 (62)	33 (84)	24 (61)	3 FLG	2 NPT (2 BSPT)

\*SCFM and PSID at 100 PSIG, 100°F inlet.

Pressure drop correction factors: Carbon, 50 PSIG 0.70, 150 PSIG 1.24  
Alumina, 50 PSIG 0.56, 150 PSIG 1.43

## NOMENCLATURE

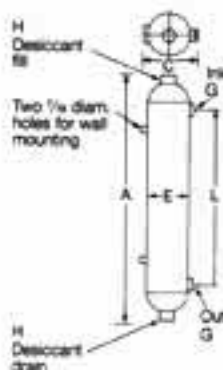
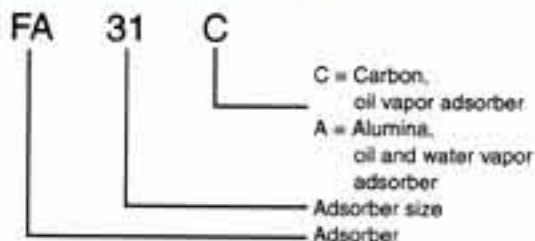


Fig. 1

Because of our policy of continuous improvement, some information, specifications and dimensions contained herein may be revised. For confirmed accuracy, always refer to factory submittals.



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