



# **COMPRESSED AIR TREATMENT**

COMPRESSED AIR DRYER

Over 100,000 compressed air users expect more when it comes to their compressed air supply.

# BOGE air provides them with the air to work.

If it is BOGE AIR then you can be assured that is quality air "Made in Germany". This not only applies to the first class energy efficient compressed air systems manufactured by BOGE but also to the top quality compressed air treatment products. BOGE compressed air treatment products have been designed to work in perfect harmony with the compressor range to provide the optimal, most effective and efficient compressed air quality with options available to meet the highest air quality requirements.

# Adsorption dryers **DAZ 4-2** to **DAZ 1021-2**Adsorption dryer units **DACZ 4-2** to **DACZ 1021-2**

Flow capacity:  $8-6100 \text{ m}^3/\text{h}$ , 5-3587 cfm

Max. operating pressure: 10 bar and 16 bar, 150 and 230 psig



# Adsorption dryer **DAZ-2**

heatless with pre- and after-filters

#### MICROPROCESSOR CONTROL

The microprocessor control enables energy efficient control of the adsorption dryer. An optional dew point control is available that adapts the way the system operates and in doing so reduces operating costs.

### **FUNCTION DISPLAY**

A functional display at the front of the control cabinet permanently indicates operational status. The ten-minute cycle can save up to six percent of energy. The compressor synchronising control can also offer further energy savings potential.



# Treatment system

# DACZ-2

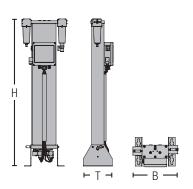
The **DAZ-2** adsorption dryer combined with a **DCZ-2** activated carbon adsorber

# **FILTRATION**

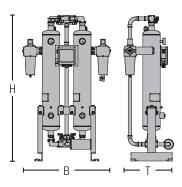
The entire range is equipped with both pre and after filter as standard. Even before drying, all solids and aerosols up to  $0.01\,\mu m$  are removed from the compressed air supply — assuring best possible quality.

#### LOW RESIDUAL OIL CONTENT

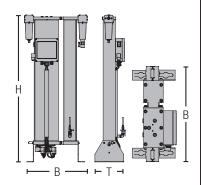
The DACZ series is equipped with an activated carbon adsorber to ensure a residual oil content of only  $0,003\,\text{mg/m}^3$  – for the highest quality compressed air.



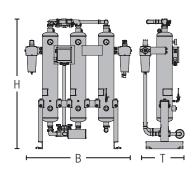
DAZ 4-2 - DAZ 14-2



DAZ 18-2 - DAZ 161-2



DACZ 4-2 - DACZ 14-2



DACZ 18-2 - DACZ 161-2

The all-in one package for dry compressed air: The ideal solution for compressed air pressure dew points below +3°C. The heatless BOGE adsorption dryers can reach dew points of -70°C (standard -40°C). The twin tower system allows regeneration simultaneously with the adsorption eliminating the need for any external power supply.

BOGE	Capacity*		Dimensions	Connection	Weight	BOGE	Capacity*		Dimensions	Connection	Weight		
Туре	m³/h	cfm	W X D X H mm		kg**	Туре	m³/h	cfm	W X D X H mm		kg**		
DAZ 4-2	8	5	326 x 216 x 400	G <sup>1</sup> / <sub>4</sub>	11.5	DACZ 4-2	8	5	459 x 225 x 400	G <sup>1</sup> / <sub>4</sub>	15		
DAZ 5-2	15	9	326 x 216 x 575	G <sup>1</sup> / <sub>4</sub>	15.5	DACZ 5-2	15	9	459 x 225 x 575	G 1/4	20		
DAZ 6-2	25	15	326 x 216 x 825	G <sup>1</sup> / <sub>4</sub>	25.0	DACZ 6-2	25	15	459 x 225 x 825	G 1/4	28		
DAZ 8-2	35	21	326 x 216 x 1075	G <sup>1</sup> / <sub>4</sub>	48.0	DACZ 8-2	35	21	459 x 225 x 1075	G 1/ <sub>4</sub>	35		
DAZ 9-2	56	33	495 x 300 x 1203	G <sup>3</sup> / <sub>8</sub>	48.0	DACZ 9-2	56	33	685 x 300 x 1430	G <sup>1</sup> / <sub>2</sub>	68		
DAZ 11-2	72	42	495 x 300 x 1428	G <sup>3</sup> / <sub>8</sub>	56.5	DACZ 11-2	72	42	685 x 300 x 1205	G 1/2	81		
DAZ 14-2	86	50	495 x 300 x 1628	G <sup>1</sup> / <sub>2</sub>	62.5	DACZ 14-2	86	50	685 x 300 x 1630	G <sup>3</sup> / <sub>4</sub>	92		
DAZ 18-2	105	62	820 x 480 x 1420	G 1	120.0	DACZ 18-2	105	62	1140 x 467 x 1070	G 1	161		
DAZ 26-2	145	85	820 x 480 x 1750	G 1	142.0	DACZ 26-2	145	85	1140 x 467 x 1320	G 1	193		
DAZ 36-2	200	118	660 x 480 x 1730	G 1	143.0	DACZ 36-2	200	118	920 x 490 x 1730	G 1	193		
DAZ 46-2	255	150	630 x 530 x 1760	G 1 <sup>1</sup> / <sub>2</sub>	173.0	DACZ 46-2	255	150	940 x 530 x 1760	G 1 <sup>1</sup> / <sub>2</sub>	234		
DAZ 61-2	350	206	790 x 585 x 1810	G 1 <sup>1</sup> / <sub>2</sub>	210.0	DACZ 61-2	350	206	1220 x 585 x 1810	G 1 <sup>1</sup> / <sub>2</sub>	283		
DAZ 71-2	420	247	820 x 605 x 1820	G 1 <sup>1</sup> / <sub>2</sub>	249.0	DACZ 71-2	420	247	1250 x 605 x 1820	G 1 <sup>1</sup> / <sub>2</sub>	334		
DAZ 101-2	620	365	860 x 635 x 1860	G 2	277.0	DACZ 101-2	620	365	1310 x 635 x 1870	G 2	428		
DAZ 126-2	750	441	950 x 640 x 2000	G 2	408.0	DACZ 126-2	750	441	1450 x 635 x 2000	G 2	555		
DAZ 161-2	940	553	1000 x 670 x 2020	G 2 <sup>1</sup> / <sub>2</sub>	510.0	DACZ 161-2	940	553	1500 x 670 x 2020	G 2 <sup>1</sup> / <sub>2</sub>	698		
DAZ 201	1200	706	1060 x 840 x 2075	DN 50	640.0	Upon request							
DAZ 261	1550	912	1270 x 900 x 2120	DN 65	830.0								
DAZ 341	2000	1176	1350 x 990 x 2160	DN 65	955.0								
DAZ 421	2500	1470	1530 x 1040 x 2210	DN 80	1075.0								
DAZ 501	3000	1764	1600 x 1100 x 2255	DN 80	1500.0								
DAZ 646	3800	2235	1875 x 1200 x 2385	DN 100	1990.0								
DAZ 811	4850	2852	1925 x 1250 x 2660	DN 100	2410.0								
DAZ 1021	6100	3587	2160 x 1565 x 2820	DN 125	2850.0								

<sup>\*</sup> Capacity in m³/h at 1 bar to DIN ISO 7183

\*\* from DAZ 201 weight without filter

Max. operating pressure DAZ/DACZ 4-2 – DAZ/DACZ 161-2 **16 bar** 

DAZ 201 – DAZ 1021

Electrical connection 230V; 50 Hz; 0.021 kW

(Dimensions and weights for models DAZ/DACZ 201 onwards do not include pre-filters and after filters)

### Conversion factors to determine dryer size for DTP to -40 °C

Dryer inlet temperature	Pressure bar (e)											
	5	6	7	8	9	10	11	12	13	14	15	16
35 °C	0.75	0.89	1.00	1.08	1.26	1.31	1.36	1.49	1.62	1.70	1.79	1.90
40°C	0.64	0.78	0.91	1.00	1.08	1.16	1.24	1.35	1.47	1.57	1.67	1.77
45 °C	0.61	0.73	0.82	0.94	1.03	1.07	1.10	1.22	1.35	1.46	1.57	1.66
50°C	0.59	0.67	0.79	0.86	0.99	1.03	1.07	1.18	1.29	1.37	1.46	1.55

Operating pressure less than 5 bar (e) upon request or alternatively heat regenerated adsorption dryers. Higher inlet temperatures available upon request.

**Example:** Compressed air to be dried

Volume flow  $375\,\text{m}^3/\text{h}$ Min. operating overpr. 8 bar (ü) Max. Inlet temp. +35°C Pressure dew point −40 °C Factor from table 1.08

**a)** To calculate the specific dryer capacity

eff. capacity  $375\,\text{m}^3/\text{h}$  $= 347 \text{ m}^3/\text{h}$ 1.08 Factor from table

Selected type DAZ 61-2.

**b)** To calculate the max. dryer capacity Nominal capacity x factor from table  $(DAZ 61-2) = 350 \,\text{m}^3/\text{h} \times 1.08 = 378 \,\text{m}^3/\text{h}$ 



## **BOGE Compressed Air Systems GmbH & Co. KG**

P.O. Box 10 07 13 · 33507 Bielefeld Otto-Boge-Straße 1-7 · 33739 Bielefeld Tel. +49 5206 601-0 · Fax +49 5206 601-200

info@boge.com · www.boge.com



In more than 120 countries worldwide customers from mechanical engineering, industry and trade trust the BOGE know-how in planning, development and production of high quality compressed air systems. Already in its fourth generation, the family-owned company puts all its experience in the development of innovative solutions and outstanding efficient products for the compressed air industry.

Rightly, therefore, the last name of the founder Otto Boge stands for "Best Of German Engineering" today. Who puts emphasis on German engineering skills, highest safety, reliable services and energy efficiency, accesses quality products from BOGE because they have been supplying "the air to work" for more than 100 years.

## **OUR RANGES OF SERVICES INCLUDE THE FOLLOWING:**

- Energy efficient systems development
- Plant design and engineering
- Industy 4.0 solutions, system control and visualisation
- High Speed Turbo compressors
- Oil-free piston, screw and scroll compressors
- Oil injected screw compressors and oil lubricated piston compressors
- Compressed air treatment
- Compressed air distribution and storage
- Compressed air accessories
- Compressed air service
- Nitrogen and oxygen generators

