

Outstanding efficiency meets top CO₂ balance!

BOGE



Efficient Drying

The new DS-2 series features a high-efficiency aluminium heat exchanger, which minimises performance losses in the refrigeration circuit while requiring less refrigerant than comparable products. In conjunction with economical power consumption this means that no other product can compete with the low running costs.

Towards a sustainable future

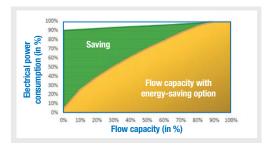
All models use the environmentally friendly and future-proof R-513A refrigerant as standard. With a GWP (Global Warming Potential) of 573, it fulfils the requirements of f-gas regulation EU 517/2014 and ensures optimum service reliability. DS-2 models are the best choice for protecting your investment, the climate and the environment.





Energy-saving option

Although all DS-2 models are extremely undemanding in terms of energy consumption under partial load, the models with capacities of 2.6 m³/min and above go one better: If required, they can reduce power consumption even further by cooling the compressed air entering the system by the mass of the heat exchanger in partial load mode.





BOGE DS-2 Refrigerant Dryers Outstanding efficiency meets top CO₂ balance!

The operating principle

In the fully integrated high-performance aluminium heat exchanger the various parts spring into action one after the other: an air/air section, an air/refrigerant section, a high-efficiency demister condensate drain and a moisture collection container. If required, the condensate produced is discharged from the system in a final step via an electronically level-regulated condensate outlet.

To facilitate inspection and maintenance, the side panels can be removed, and the dryer does not have to be opened to access the condensate drain.

All models in the new series come with digital control, including functions that were previously subject to an extra charge in some cases. However, in everyday operation they soon pay for themselves – such as the status display, the potential-free alarm contact or the maintenance reminder.



An overview of the new BOGE DS-2 refrigerant dryers

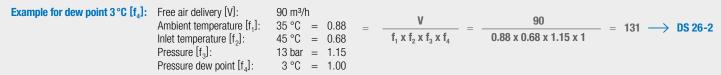
BOGE type	Flow o	apacity	Max. Pressure		stric power sumption*	Refrigerant required	R-513A refrigerant as	Dimensions	Weight	Compressed air connection	
	m³/min			kW		R 513 A	CO ₂ -equivalent				
	50 Hz	60 Hz	bar	50 Hz	60 Hz	kg	t	W x H x D (mm)	kg	BSPP-F acc.	
DS 4-2	0.40	0.47	16	0.13	0.16	0.16	0.09	300 x 400 x 600	25	1/2"	
DS 7-2	0.70	0.78	16	0.14	0.17	0.16	0.09	300 x 400 x 600	25	1/2"	
DS 9-2	0.90	1.00	16	0.15	0.18	0.16	0.09	300 x 400 x 600	26	1/2"	
DS 14-2	1.40	1.60	16	0.15	0.19	0.24	0.14	330 x 550 x 665	36	3/4"	
DS 18-2	1.80	2.07	16	0.16	0.20	0.24	0.14	330 x 550 x 665	37	3/4"	
DS 26-2	2.60	2.93	16	0.29	0.36	0.34	0.19	400 x 630 x 795	47	1"	
DS 32-2	3.20	3.63	16	0.30	0.37	0.34	0.19	400 x 630 x 795	47	1"	
DS 40-2	4.00	4.53	16	0.31	0.38	0.34	0.19	400 x 630 x 795	48	1"	
DS 52-2	5.20	6.02	16	0.46	0.56	0.40	0.23	400 x 630 x 795	55	1 1/2"	
DS 62-2	6.20	7.15	16	0.57	0.69	0.40	0.23	400 x 630 x 795	57	1 1/2"	
DS 80-2	8.00	9.25	14	0.73	0.90	0.60	0.34	450 x 720 x 970	102	1 1/2"	
DS 100-2	10.00	11.48	14	0.74	0.91	0.60	0.34	450 x 720 x 970	102	1 1/2"	

All DS-2 models have a hermetically sealed refrigerant circuit in accordance with the f-gas regulation.

* all data refering to DIN ISO 7183. an ambient temperature of 20°C. inlet temperature of 35°C and 7 bar operating pressure

Correction factors f for varying operating pressures and temperatures

°C 2	5 30	35	40	45	50	Inlet	temper	ature	iture		30	35	40	45	50	55	60	65
f ₁ 1.0) 0.93	0.88	0.82 0	0.75 0	0.69	Correction factor		f ₂	1.23	1.00	0.83	0.68	0.57	0.47	0.44	0.42		
4 5	6	7	8	9 10) 11	12	13	14	15	16	F	Pressure dew point			°C	3	5	7
0.83 0.90	0.95	1.00 1.	.03 1.0	7 1.09	9 1.12	1.13	1.13 1.15 1.17 1.18		1.18	1.19	(Correction factor			f_4	1.00	1.11	1.24
Eroo air de			00 m3/	'n														
	f ₁ 1.00 4 5 0.83 0.90	f1 1.00 0.93 4 5 6 0.83 0.90 0.95	f ₁ 1.00 0.93 0.88 4 5 6 7	f1 1.00 0.93 0.88 0.82 0 4 5 6 7 8 9 0.83 0.90 0.95 1.00 1.03 1.03	f1 1.00 0.93 0.88 0.82 0.75 0 4 5 6 7 8 9 10 0.83 0.90 0.95 1.00 1.03 1.07 1.09	f1 1.00 0.93 0.88 0.82 0.75 0.69 4 5 6 7 8 9 10 11 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12	f1 1.00 0.93 0.88 0.82 0.75 0.69 Corr 4 5 6 7 8 9 10 11 12 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction f 4 5 6 7 8 9 10 11 12 13 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.15	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction factor 4 5 6 7 8 9 10 11 12 13 14 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.15 1.17	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction factor 4 5 6 7 8 9 10 11 12 13 14 15 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.15 1.17 1.18	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction factor f2 4 5 6 7 8 9 10 11 12 13 14 15 16 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.15 1.17 1.18 1.19	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction factor f2 1.23 4 5 6 7 8 9 10 11 12 13 14 15 16 F 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.17 1.18 1.19 0	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction factor f2 1.23 1.00 4 5 6 7 8 9 10 11 12 13 14 15 16 Pressure 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.15 1.17 1.18 1.19 Correction	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction factor f2 1.23 1.00 0.83 4 5 6 7 8 9 10 11 12 13 14 15 16 Pressure dew p 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.15 1.17 1.18 1.19	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction factor f2 1.23 1.00 0.83 0.68 4 5 6 7 8 9 10 11 12 13 14 15 16 Pressure dew point 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.15 1.17 1.18 1.19	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction factor f2 1.23 1.00 0.83 0.68 0.57 4 5 6 7 8 9 10 11 12 13 14 15 16 Pressure dew point °C 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.15 1.17 1.18 1.19 Correction factor f4	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction factor f2 1.23 1.00 0.83 0.68 0.57 0.47 4 5 6 7 8 9 10 11 12 13 14 15 16 Pressure dew point °C 3 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.15 1.17 1.18 1.19 Correction factor f4 1.00	f1 1.00 0.93 0.88 0.82 0.75 0.69 Correction factor f2 1.23 1.00 0.83 0.68 0.57 0.47 0.44 4 5 6 7 8 9 10 11 12 13 14 15 16 Pressure dew point °C 3 5 0.83 0.90 0.95 1.00 1.03 1.07 1.09 1.12 1.13 1.15 1.17 1.18 1.19 Correction factor f4 1.00 1.11



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