

COMPRESSED AIR-REFRIGERANT DRYER

FOR OPERATING PRESSURE UP TO 16 BAR

BT-series compressed air-refrigerant dryers present a reliable, cost-effective and, above all, simple solution. This range unites exceptional benefits into a successful concept. The focal

points of development were concentrated on optimum security, the lowest possible operating expenses, compact design and environmental compatibility.

- + Air/Air and Refrigerant/Air heat exchanger
- + Lowest differential pressure
- + Standard with electronic level-controlled steam trap
- + Includes potential-free contact

Maximum heat transfer by means of air-air heat exchanger: This has a direct impact on reduction of energy consumption.

Vertically arranged stainless steel demister for secure separation. Wet compressed air is directed to the automatic steam trap.

The exchange of heat in the countercurrent and generous dimensions permit complete evaporation of the refrigerant.

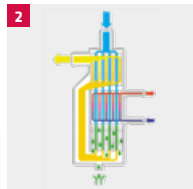


The generously sized cross sections of the flow channels in the heat exchanger result in low flow rates and low energy demands.

A high-volume settling chamber prevents the carrying away of condensation.

Illustration shows: BT compressed air-refrigerant dryer

HIGHLIGHTS IN DETAIL



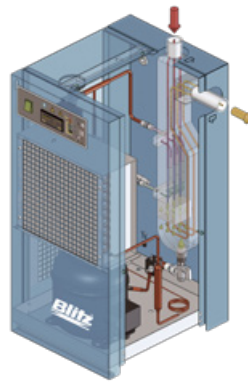
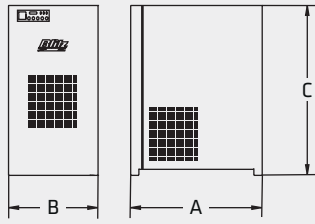
1 Standard with electronic level-controlled steam trap.

2 Air/Air and Refrigerant/Air heat exchanger including demister integrated in single casing to save space.

3 Potential-free contact integrated in the controls as standard.



AIR DRYER BT 21-4860 M³/H



Model	BT										
Max. volume flow (m ³ /h)*	21	36	57	72	108	150	192	258	312	366	450
Operating pressure (bar)	16	16	16	16	16	14	14	14	14	14	14
Power consumption (kW)	0,15	0,16	0,19	0,21	0,29	0,39	0,48	0,75	0,93	0,95	0,74
Power supply (V/Hz)	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60	230/50-60
Connection (inch)	G 3/8	G 1/2	G 1/2	G 1/2	G 1/2	G 1	G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/4	G 1 1/2
A Length (mm)	345	515	515	515	515	420	445	445	445	580	580
B Width (mm)	310	370	370	370	370	345	345	345	345	555	555
C Height (mm)	435	475	475	475	475	740	740	740	740	885	885
Weight (kg)	21	25	26	28	32	34	39	40	41	54	56
Article number	114996	114997	114998	114999	115000	115001	115002	115003	115004	115005	115006

Model	BT									
Max. volume flow (m ³ /h)*	630	780	1008	1110	1500	2100	2460	2880	3720	3720
Operating pressure (bar)	14	14	14	14	14	14	14	14	14	14
Power consumption (kW)	0,94	1,55	1,59	3,35	3,50	4,40	5,00	5,00	6,70	6,70
Power supply (V/Hz)	230/50-60	230/50-60	400/50	400/50	400/50	400/50	400/50	400/50	400/50	400/50
Connection (inch)	G 2	G 2	G 2 1/2	DN 80	DN 80	DN 80	DN 80	DN 100	DN 100	DN 100
A Length (mm)	625	625	725	950	950	950	1040	1535	1535	1535
B Width (mm)	555	555	665	785	785	785	785	1005	1005	1005
C Height (mm)	975	975	1105	1410	1410	1410	1410	1785	1785	1785
Weight (kg)	94	96	144	232	242	277	302	530	580	580
Article number	115007	115008	115009	115010	115011	115012	115013	115014	115015	115016

*according to ISO 7183: volume flow m³/h referred to +20°C at 1bar; operating pressure 7bar; compressed air inlet temperature +35°C; ambient temperature +25°C; pressure dew point +5°C

Correction factor	BT										
Inlet pressure	bar	4	5	6	7	8	10	12	14	15	16
Correction factor		0,77	0,86	0,93	1,00	1,05	1,14	1,21	1,27	1,30	1,33
Ambient temperature	°C	25°C	30°C		35°C		40°C		45°C		45°C
Correction factor		1,00	0,98	0,95	0,95	0,88	0,88	0,80	0,80	0,80	0,80
Inlet temperature	°C	30	35°C		40°C		45°C		50°C		55°C
Correction factor		1,15	1,00	0,84	0,84	0,71	0,71	0,59	0,59	0,50	0,50
Pressure dew point	°C	3,00	5,00		7,00		10		10		10
Correction factor		0,91	1,00	1,10	1,10	1,26	1,26	1,26	1,26	1,26	1,26

ACCESSORIES



- 1 Optionally available prefilter and afterfilter.
- 2 Compressed air bypass.