

# COMPRESSED AIR TREATMENT CONVINCING QUALITY

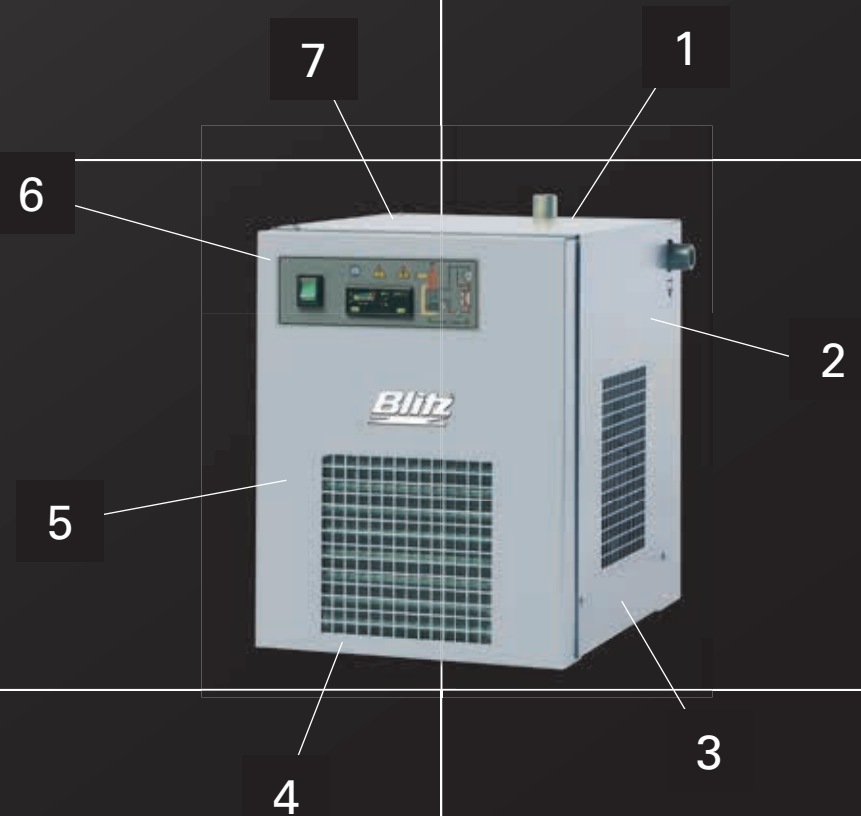
REFRIGERATED COMPRESSED AIR DRYERS  
COMPRESSED AIR FILTERS  
OIL WATER SEPARATORS  
CONDENSATE DRAINS

**Blitz**<sup>®</sup>



# STANDARD

REFRIGERATED COMPRESSED AIR DRYERS IN THE BT RANGE OFFER A RELIABLE, AFFORDABLE AND ABOVE ALL SIMPLE SOLUTION. THE OUTSTANDING BENEFITS OF THIS SOLUTION HAVE COMBINED TO FORM A SINGLE CONCEPT. DEVELOPMENT OF THE SYSTEM HAS FOCUSED ON OPTIMUM SAFETY, VERY LOW OPERATING COSTS, COMPACT DESIGN AND ENVIRONMENTAL COMPATIBILITY.



- 1. AIR/AIR AND REFRIGERANT/AIR HEAT EXCHANGER incl. demister integrated into an enclosure to save space
- 2. MAXIMUM HEAT TRANSFER
- 3. STAINLESS STEEL DEMISTER TO ENSURE SEPARATION.
- 4. The generous sized diameter of the flow channels in the heat exchanger leads to low flow rates and low energy needs.
- 5. A high volume plenum chamber prevents the condensate from being carried along with the flow.
- 6. Counter-flow heat exchange.
- 7. Comes as standard with electronically level-controlled condensate separator.

	FLOW CAPACITY*	21 M <sup>3</sup> /H	36 M <sup>3</sup> /H	57 M <sup>3</sup> /H	72 M <sup>3</sup> /H	108 M <sup>3</sup> /H	150 M <sup>3</sup> /H	192 M <sup>3</sup> /H
	OPERATING PRESSURE MAX.	16 BAR	16 BAR	16 BAR	16 BAR	16 BAR	14 BAR	14 BAR
	POWER CONSUMPTION	0,15 kW	0,16 kW	0,19 kW	0,21 kW	0,29 kW	0,39 kW	0,48 kW
	VOLTAGE/PHASES	230/1/50-60 V/Hz	230/1/50-60 V/Hz	230/1/50-60 V/Hz	230/1/50-60 V/Hz	230/1/50-60 V/Hz	230/1/50-60 V/Hz	230/1/50 V/Hz
	CONNECTION	G 3/8"	G 1/2"	G 1/2"	G 1/2"	G 1/2"	G 1"	G 1 1/4"
<b>A</b>	LENGTH	345 MM	515 MM	515 MM	515 MM	515 MM	420 MM	445 MM
<b>B</b>	WIDTH	310 MM	370 MM	370 MM	370 MM	370 MM	345 MM	345 MM
<b>C</b>	HEIGHT	435 MM	475 MM	475 MM	475 MM	475 MM	740 MM	740 MM
	WEIGHT	21 KG	25 KG	26 KG	28 KG	32 KG	34 KG	39 KG

	FLOW CAPACITY*	258 M <sup>3</sup> /H	312 M <sup>3</sup> /H	366 M <sup>3</sup> /H	450 M <sup>3</sup> /H	630 M <sup>3</sup> /H	780 M <sup>3</sup> /H	1008 M <sup>3</sup> /H
	OPERATING PRESSURE MAX.	14 BAR	14 BAR	14 BAR	14 BAR	14 BAR	14 BAR	14 BAR
	POWER CONSUMPTION	0,75 kW	0,93 kW	0,95 kW	0,74 kW	0,94 kW	1,55 kW	1,59 kW
	VOLTAGE/PHASES	230/1/50 V/Hz	230/1/50 V/Hz	230/1/50 V/Hz	230/1/50 V/Hz	230/1/50 V/Hz	230/1/50 V/Hz	230/1/50 V/Hz
	CONNECTION	G 1 1/4"	G 1 1/4"	G 1 1/2"	G 1 1/2"	G 2"	G 2"	G 2 1/2"
<b>A</b>	LENGTH	445 MM	445 MM	580 MM	580 MM	625 MM	625 MM	725 MM
<b>B</b>	WIDTH	345 MM	345 MM	555 MM	555 MM	555 MM	555 MM	665 MM
<b>C</b>	HEIGHT	740 MM	740 MM	885 MM	885 MM	975 MM	975 MM	1105 MM
	WEIGHT	37 KG	41 KG	54 KG	56 KG	94 KG	96 KG	144 KG

	FLOW CAPACITY*	1110 M <sup>3</sup> /H	1500 M <sup>3</sup> /H	2100 M <sup>3</sup> /H	2460 M <sup>3</sup> /H	2880 M <sup>3</sup> /H	3720 M <sup>3</sup> /H	4860 M <sup>3</sup> /H
	OPERATING PRESSURE MAX.	14 BAR	14 BAR	14 BAR	14 BAR	14 BAR	14 BAR	14 BAR
	POWER CONSUMPTION	3,35 kW	3,50 kW	4,40 kW	5,00 kW	6,50 kW	6,70 kW	8,50 kW
	VOLTAGE/PHASES	400/3/50 V/Hz	400/3/50 V/Hz	400/3/50 V/Hz	400/3/50 V/Hz	400/3/50 V/Hz	400/3/50 V/Hz	400/3/50 V/Hz
	CONNECTION	DN80	DN80	DN80	DN80	DN100	DN100	DN100
<b>A</b>	LENGTH	950 MM	950 MM	950 MM	1040 MM	1535 MM	1535 MM	1535 MM
<b>B</b>	WIDTH	785 MM	785 MM	785 MM	785 MM	1005 MM	1005 MM	1005 MM
<b>C</b>	HEIGHT	1410 MM	1410 MM	1410 MM	1410 MM	1785 MM	1785 MM	1785 MM
	WEIGHT	232 KG	242 KG	277 KG	302 KG	530 KG	580 KG	700 KG

## Correction factors for different operating pressures

<b>Inlet pressure</b>	4	5	6	7	8	10	12	14	15	16
<b>Correction factor</b>	0,77	0,86	0,93	1,00	1,05	1,14	1,21	1,27	1,30	1,33

## Correction factors for different ambient temperatures

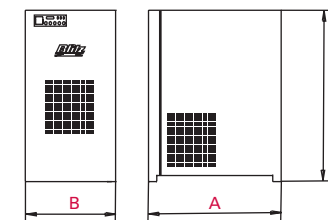
<b>Ambient temperature</b>	25°C	30°C	35°C	40°C	45°C
<b>Correction factor</b>	1,00	0,98	0,95	0,88	0,80

## Correction factors for different inlet temperatures

<b>Inlet temperature</b>	30°C	35°C	40°C	45°C	50°C	55°C
<b>Correction factor</b>	1,15	1,00	0,84	0,71	0,59	0,50

## Correction factors for different pressure dewpoints

<b>Inlet temperature</b>	3°C	5°C	7°C	10°C
<b>Correction factor</b>	0,91	1,00	1,10	1,26

\* Flow capacity m<sup>3</sup>/h based on 20°C at 1 bar, operating pressure 7 bar, air inlet temperature 35°C

# HIGH PRESSURE

HIGH PRESSURE COMPRESSED AIR REFRIGERATED DRYERS IN THE BTHD RANGE OFFER A RELIABLE, AFFORDABLE AND ABOVE ALL SIMPLE SOLUTION. THE OUTSTANDING BENEFITS OF THIS SOLUTION HAVE COMBINED TO FORM A SINGLE CONCEPT. DEVELOPMENT OF THE SYSTEM HAS FOCUSED ON OPTIMUM SAFETY, VERY LOW OPERATING COSTS, COMPACT DESIGN AND ENVIRONMENTAL COMPATIBILITY.

- 1. Simple, ergonomic components guarantee high efficiency and functionality.
- 2. Very low differential pressures and constant pressure dewpoints.
- 3. Stainless steel plate heat exchangers are designed and certified for an operating pressure of 50 bar.
- 4. Designed and certified in compliance with 97/23/CE-PED.

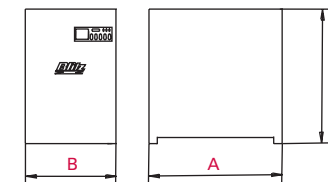


**BTHD**

	FLOW CAPACITY*	25 M <sup>3</sup> /H	45 M <sup>3</sup> /H	72 M <sup>3</sup> /H	90 M <sup>3</sup> /H	135 M <sup>3</sup> /H	180 M <sup>3</sup> /H	240 M <sup>3</sup> /H
	OPERATING PRESSURE MAX.	50 BAR	50 BAR	50 BAR	50 BAR	50 BAR	50 BAR	50 BAR
	POWER CONSUMPTION	0,15 kW	0,20 kW	0,22 kW	0,30 kW	0,46 kW	0,64 kW	0,69 kW
	VOLTAGE/PHASES	230/1/50-60 V/Hz	230/1/50-60 V/Hz	230/1/50-60 V/Hz	230/1/50-60 V/Hz	230/1/50 V/Hz	230/1/50 V/Hz	230/1/50 V/Hz
	CONNECTION	G 3/8"	G 3/8"	G 3/8"	G 1/2"	G 1/2"	G 3/4"	G 3/4"
<b>A</b>	LENGTH	465 MM	465 MM	465 MM	487 MM	487 MM	625 MM	625 MM
<b>B</b>	WIDTH	370 MM	370 MM	370 MM	350 MM	350 MM	510 MM	510 MM
<b>C</b>	HEIGHT	473 MM	473 MM	473 MM	611 MM	611 MM	830 MM	830 MM
	WEIGHT	28 KG	29 KG	32 KG	36 KG	37 KG	54 KG	59 KG

	FLOW CAPACITY*	315 M <sup>3</sup> /H	450 M <sup>3</sup> /H	615 M <sup>3</sup> /H	810 M <sup>3</sup> /H	1008 M <sup>3</sup> /H	1200 M <sup>3</sup> /H	1620 M <sup>3</sup> /H
	OPERATING PRESSURE MAX.	50 BAR	50 BAR	50 BAR	50 BAR	50 BAR	50 BAR	50 BAR
	POWER CONSUMPTION	0,87 kW	0,92 kW	1,05 kW	1,15 kW	2,05 kW	2,90 kW	3,90 kW
	VOLTAGE/PHASES	230/1/50 V/Hz	230/1/50 V/Hz	230/1/50 V/Hz	230/1/50 V/Hz	400/3/50 V/Hz	400/3/50 V/Hz	400/3/50 V/Hz
	CONNECTION	G 1"	G 1"	G 1"	G 1 1/2"	G 1 1/2"	G 2"	G 2"
<b>A</b>	LENGTH	725 MM	725 MM	725 MM	656 MM	656 MM	1156 MM	1156 MM
<b>B</b>	WIDTH	558 MM	558 MM	558 MM	558 MM	558 MM	607 MM	607 MM
<b>C</b>	HEIGHT	870 MM	870 MM	870 MM	1240 MM	1240 MM	1610 MM	1610 MM
	WEIGHT	84 KG	87 KG	109 KG	133 KG	140 KG	232 KG	238 KG

	FLOW CAPACITY*	2010 M <sup>3</sup> /H	2430 M <sup>3</sup> /H	3030 M <sup>3</sup> /H
	OPERATING PRESSURE MAX.	50 BAR	50 BAR	50 BAR
	POWER CONSUMPTION	4,10 kW	6,00 kW	6,50 kW
	VOLTAGE/PHASES	400/3/50 V/Hz	400/3/50 V/Hz	400/3/50 V/Hz
	CONNECTION	G 2"	FLANSI 2 1/2"	FLANSI 2 1/2"
<b>A</b>	LENGTH	1156 MM	1156 MM	1156 MM
<b>B</b>	WIDTH	607 MM	1005 MM	1005 MM
<b>C</b>	HEIGHT	1610 MM	1790 MM	1790 MM
	WEIGHT	260 KG	550 KG	580 KG



**Correction factors for different operating pressures**

<b>Inlet pressure</b>	15	20	25	30	35	<b>40</b>	45	50
<b>Correction factor</b>	0,75	0,82	0,87	0,92	0,96	<b>1,00</b>	1,03	1,06

**Correction factors for different ambient temperatures**

<b>Ambient temperature</b>	<b>25°C</b>	30°C	35°C	40°C	45°C	50°C
<b>Correction factor</b>	<b>1,00</b>	0,98	0,95	0,88	0,80	0,81

**Correction factors for different inlet temperatures**

<b>Inlet temperature</b>	25°C	30°C	<b>35°C</b>	40°C	45°C	50°C	55°C	60°C	65°C
<b>Correction factor</b>	1,27	1,12	<b>1,00</b>	0,88	0,78	0,70	0,62	0,55	0,49

**Correction factors for different pressure dewpoints**

<b>Inlet temperature</b>	3°C	<b>5°C</b>	7°C	10°C
<b>Correction factor</b>	1,00	<b>1,09</b>	1,19	1,37

\* Flow capacity m<sup>3</sup>/h based on +20°C and 1 bar exactly at an air inlet temperature of +35°C, maximum BT operating pressure 7 bar, pressure dewpoint +3°C. Pressure drop: In standard conditions in the dryer <0.2 bar, in the Filter <0.15bar, pressure drop total: <0.35 ba

# HIGH TEMPERATURE

HIGH TEMPERATURE REFRIGERATED DRYERS IN THE BTHHT SERIES ARE DESIGNED FOR VERY HIGH INLET TEMPERATURES. THE REFRIGERATED AIR DRYERS WIN OVER THE USER THROUGH THEIR MODERN DESIGN, AN INTEGRATED AFTER COOLER AND A PREFILTER IN THE COMPACT DRYER HOUSING.

- 1. The air-cooled after cooler consists of copper and aluminium bare tubes.
- 2. On the prefilter, an automatic condensate separator ensures reliable removal of the condensate.
- 3. The patented EKO DRY plate heat exchanger serves as a heat exchanger for high pressure applications.
- 4. Quality standard ISO 8573.1.



## BTHT

	FLOW CAPACITY*	33 M <sup>3</sup> /H	51 M <sup>3</sup> /H	72 M <sup>3</sup> /H	108 M <sup>3</sup> /H	138 M <sup>3</sup> /H	186 M <sup>3</sup> /H
	OPERATING PRESSURE MAX.	16 BAR	16 BAR	16 BAR	14 BAR	14 BAR	14 BAR
	POWER CONSUMPTION	0,25 kW	0,27 kW	0,35 kW	0,54 kW	0,64 kW	0,85 kW
	VOLTAGE/PHASES	230/1/50 V/ph/Hz	230/1/50 V/ph/Hz	230/1/50 V/ph/Hz	230/1/50 V/ph/Hz	230/1/50 V/ph/Hz	230/1/50 V/ph/Hz
	CONNECTION	G 1/2"	G 1/2"	G 1/2"	G 1"	G 1"	G 1 1/4"
<b>A</b>	LENGTH	415 MM	415 MM	415 MM	465 MM	465 MM	515 MM
<b>B</b>	WIDTH	425 MM	425 MM	425 MM	410 MM	410 MM	510 MM
<b>C</b>	HEIGHT	645 MM	645 MM	645 MM	1130 MM	1130 MM	1240 MM
	WEIGHT	30 KG	31 KG	33 KG	50 KG	51 KG	61 KG

	FLOW CAPACITY*	240 M <sup>3</sup> /H	330 M <sup>3</sup> /H	372 M <sup>3</sup> /H	486 M <sup>3</sup> /H	630 M <sup>3</sup> /H
	OPERATING PRESSURE MAX.	14 BAR	14 BAR	14 BAR	14 BAR	14 BAR
	POWER CONSUMPTION	0,86 kW	0,94 kW	1,15 kW	1,60 kW	2,05 kW
	VOLTAGE/PHASES	230/1/50 V/ph/Hz	230/1/50 V/ph/Hz	230/1/50 V/ph/Hz	230/1/50 V/ph/Hz	230/1/50 V/ph/Hz
	CONNECTION	G 1 1/4"	G 1 1/2"	G 1 1/2"	G 2"	G 2"
<b>A</b>	LENGTH	515 MM	595 MM	595 MM	775 MM	775 MM
<b>B</b>	WIDTH	510 MM	560 MM	560 MM	710 MM	710 MM
<b>C</b>	HEIGHT	1240 MM	1400 MM	1400 MM	1500 MM	1500 MM
	WEIGHT	66 KG	75 KG	84 KG	132 KG	138 KG

### Correction factors for different operating pressures

<b>Inlet pressure</b>	4	5	6	7	8	10	12	14
<b>Correction factor</b>	0,75	0,86	0,93	1,00	1,05	1,14	1,21	1,27

### Correction factors for different ambient temperatures

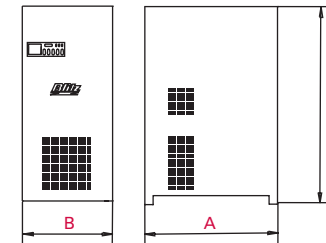
<b>Ambient temperature</b>	25°C	30°C	32°C	35°C	40°C	45°C	50°C
<b>Correction factor</b>	1,10	1,03	1,00	0,95	0,88	0,82	0,76

### Correction factors for different inlet temperatures

<b>Inlet temperature</b>	60°C	70°C	80°C	90°C	100°C
<b>Correction factor</b>	1,23	1,11	1,00	0,88	0,77

### Correction factors for different pressure dewpoints

<b>Inlet temperature</b>	3°C	5°C	7°C	10°C
<b>Correction factor</b>	0,78	0,90	1,00	1,12

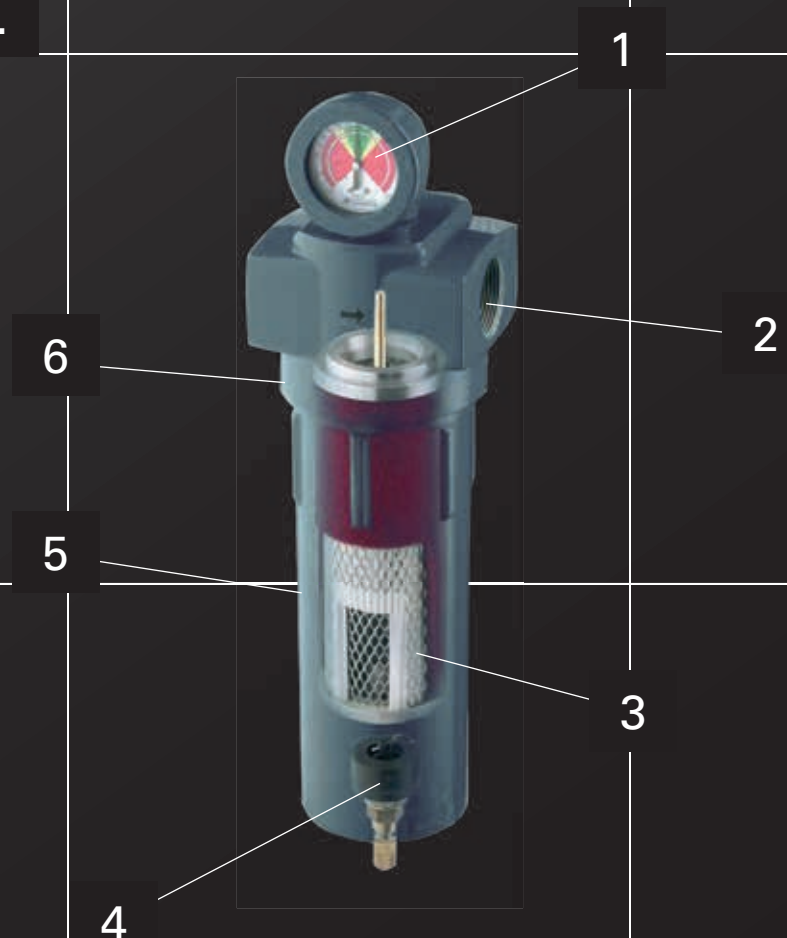


\* Flow capacity m<sup>3</sup>/h based on +20°C and 1 bar exactly at an air inlet temperature of +35°C, maximum BT operating pressure 7 bar, pressure dewpoint +3°C.  
Pressure drop: In standard conditions in the dryer <0.2 bar, in the Filter <0.15bar, pressure drop total: <0.35 ba

# FILTER

FREE THE AIR PRESSURE EFFECT OF SOLID PARTICLES. DIFFERENT FILTER COMBINATIONS ALLOW THE USE OF THE COMPRESSOR IN DIFFERENT APPLICATION ENVIRONMENTS.

■ **1.** Directly mounted differential pressure manometer with calibrated scale for precise calculation of operating costs. ■ **2.** All threaded ports on the housing for the intake/discharge of the compressed air meet exact capacity requirements. ■ **3.** Tie rods easily absorb the force of the differential pressure. The element is essentially not under stress. The filter element can be easily detached even after a long service life. ■ **4.** Automatic condensate separator is provided as standard for removal of the separated fluids. Level C filters are equipped with a manual drain. ■ **5.** Air filter housing with an additional epoxy resin coating on pretreated aluminium-chromium substrate provides long-life protection for the housing (inside and out). Resistant to all standard compressor oils. ■ **6.** Five different separation rates guarantee effective mechanical separation including oil vapour adsorption. Multi-coloured foam socks clearly define the respective filtration levels.





## COMPRESSED AIR FILTERS

<b>P</b>	For operating pressures up to 16 bar, separation filter, < 3 microns, Residual oil content < 5 ppm
<b>U</b>	For operating pressures up to 16 bar, super-fine filter, < 1 micron, Residual oil content < 1 ppm
<b>H</b>	For operating pressures up to 16 bar, Oil separation filter, < 0.01 micron, Residual oil content < 0.01 ppm
<b>C</b>	For operating pressures up to 16 bar, Activated carbon filter, < 0.01 micron, Residual oil content < 0.003 ppm

	-10	-15	-20	-30	-55	-95	-150	-220	-290	-430	-625	-775
<b>FLOW CAPACITY*</b>	39 M <sup>3</sup> /H	57 M <sup>3</sup> /H	79 M <sup>3</sup> /H	118 M <sup>3</sup> /H	198 M <sup>3</sup> /H	342 M <sup>3</sup> /H	540 M <sup>3</sup> /H	799 M <sup>3</sup> /H	1047 M <sup>3</sup> /H	1569 M <sup>3</sup> /H	2250 M <sup>3</sup> /H	2797 M <sup>3</sup> /H
<b>OPERATING PRESSURE MAX.</b>	16 BAR	16 BAR	16 BAR	14 BAR	14 BAR	14 BAR	16 BAR	16 BAR	16 BAR	16 BAR	16 BAR	16 BAR
<b>CONNECTION</b>	1/2"	1/2"	1/2"	3/4"	1"	1 1/2"	1 1/2"	2"	2 1/2"	2 1/2"	3"	3"
<b>A</b> HEIGHT	209 MM	209 MM	209 MM	389 MM	497 MM	579 MM	693 MM	789 MM	935 MM	1038 MM	1091 MM	1202 MM
<b>B</b> WIDTH	87 MM	87 MM	87 MM	87 MM	130 MM	130 MM	130 MM	130 MM	164 MM	164 MM	250 MM	250 MM
<b>WEIGHT</b>	1,4 KG	1,4 KG	1,4 KG	1,7 KG	4,2 KG	4,8 KG	5,6 KG	8,4 KG	11,4 KG	13 KG	20 KG	27,5 KG

\* Flow capacity m<sup>3</sup>/h at maximum operating pressure 7 bar. Max. Recommended operating temperature 60°C incl. automatic condensate separator

### Conversion for other operating conditions

Operating pressure	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>V [m<sup>3</sup>/h] multiplied by</b>	0,25	0,38	0,50	0,65	0,75	0,88	<b>1,00</b>	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13



**BLITZ FILTER P** For bulk liquid removal plus a 3 micron coalescer (5 ppm w/w maximum remaining oil content).

**BLITZ FILTER U** For removal of liquid water and oil; removes solid particles to 1 micron (1.0 ppm w/w maximum remaining oil content).

**BLITZ FILTER H** For coalescing fine water and oil aerosols; removes solid particles to 0.01 micron (0.01 ppm w/w maximum remaining oil content).

**BLITZ FILTER C** For removal of oil and hydrocarbon vapors normally adsorbable by activated carbon; removes solid particles to 0,01micron (0,003 ppm w/w maximum remaining oil content (as a vapor)).

### THE TWO STAGE FILTRATION

1st stage: Two stainless steel orifice tubes provide 10 micron mechanical separation. 2nd stage: In depth fiber media captures solid and liquid particles to 3 microns.



### THE TWO STAGE FILTRATION

1st stage: Captures larger particles with alternate layers of fiber media and media screen. 2nd stage: Coalesces aerosols and captures solid particles with multiple layers of epoxy bonded, blended fiber media.



### THE TWO STAGE FILTRATION

1st stage: Multiple layers of fiber media and media screen remove larger particles, prefiltering the air for the second stage. 2nd stage: Multiple layers of bonded, blended fiber media for fine coalescence Outer coated, open cell foam sleeve



### THE TWO STAGE FILTRATION

1st stage: A stabilized bed of finely divided carbon particles removes the majority of the oil vapour. 2nd stage: Multiple layers of fiber media with bonded microfine carbon particles remove the remaining oil vapour. Outer coated, open cell foam sleeve prevents fiber migration designed for 1000 hour life at rated conditions.



# OIL WATER SEPARATORS

ÖWAMAT® IS AN OIL-WATER SEPARATION SYSTEM FOR DISPERSED CONDENSATES, PROVEN FOR MANY YEARS AND CONTINUALLY FURTHER DEVELOPED. SINCE IT FULFILS THE APPLICABLE LAWFUL REGULATIONS, SAFE PROCESSING IS GUARANTEED AND DISCHARGE OF THE PROCESSED WATER INTO THE SEWAGE SYSTEM IS POSSIBLE WITHOUT ANY PROBLEMS.

■ 1. Fault alert to a control centre through an optional electrical alarm sensor on a level sensor. ■ 2. The ready to install Öwamat® is available in 6 sizes, saves space and is user friendly. ■ 3. A separate heater ensures reliable treatment during use in areas prone to frost. ■ 4. Two-fold filter inspection: Integrated level indicator and optical reference jar for sample comparison.



Öwamat 10 + 11



Öwamat 12

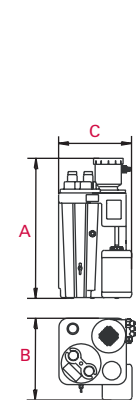


## ÖWAMAT

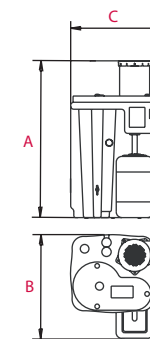
	10	11	12	14	15	16
CONTAINER CONTENTS	10 L	18,6 L	30,6 L	61,3 L	115,5 L	228,4 L
CONDENSATE INLET	2 x G 1/2"	2 x G 1/2"	3 x G 1/2"	3 x G 1/2"	3 x G 1/2"	3 x G 1/2"
WATER OUTLET	G 1/2"	G 1/2"	G 1/2"	G 1"	G 1"	G 1"
OIL OUTLET			DN25	DN25	DN25	DN25
<b>A</b> HEIGHT	528 MM	595 MM	698 MM	867 MM	1088 MM	1158 MM
<b>B</b> WIDTH	222 MM	260 MM	397 MM	461 MM	573 MM	702 MM
<b>C</b> LENGTH	290 MM	387 MM	350 MM	410 MM	520 MM	650 MM
WEIGHT	3,5 KG	5,75 KG	13,5 KG	18,5 KG	36,5 KG	53 KG

## FLOW CAPACITIES ÖWAMAT

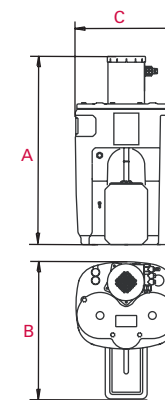
	10	11	12	14	15	16
MAX. FLOW CAPACITY						
SCREW COMPRESSORS						
TURBINE OIL LTD	2,4 M <sup>3</sup> /H	4,9 M <sup>3</sup> /H	7,3 M <sup>3</sup> /H	14,6 M <sup>3</sup> /H	29,3 M <sup>3</sup> /H	58,5 M <sup>3</sup> /H
VDL OIL	2,4 M <sup>3</sup> /H	4,9 M <sup>3</sup> /H	7,3 M <sup>3</sup> /H	14,6 M <sup>3</sup> /H	29,3 M <sup>3</sup> /H	58,5 M <sup>3</sup> /H
VCL OIL	1,9 M <sup>3</sup> /H	3,8 M <sup>3</sup> /H	5,6 M <sup>3</sup> /H	11,3 M <sup>3</sup> /H	22,5 M <sup>3</sup> /H	45,0 M <sup>3</sup> /H
SYNTHETIC OIL	1,9 M <sup>3</sup> /H	3,8 M <sup>3</sup> /H	5,6 M <sup>3</sup> /H	11,3 M <sup>3</sup> /H	22,5 M <sup>3</sup> /H	45,0 M <sup>3</sup> /H
PISTON COMPRESSORS						
VDL Oil	1,7 M <sup>3</sup> /H	3,4 M <sup>3</sup> /H	5,1 M <sup>3</sup> /H	10,1 M <sup>3</sup> /H	20,3 M <sup>3</sup> /H	40,5 M <sup>3</sup> /H
SYNTHETIC OIL	1,4 M <sup>3</sup> /H	2,8 M <sup>3</sup> /H	4,2 M <sup>3</sup> /H	8,4 M <sup>3</sup> /H	16,9 M <sup>3</sup> /H	33,8 M <sup>3</sup> /H



Öwamat 10



Öwamat 11



Öwamat 12

Öwamat 14



Öwamat 15 + 16



# CONDENSATE DRAINS

COMPRESSED-AIR CONDENSATE IS UNAVOIDABLE DURING THE PRODUCTION OF COMPRESSED AIR. IT IS OFTEN HIGHLY CONTAMINATED WITH OIL AND USUALLY ALSO CONTAINS DIRT PARTICLES (SUCH AS RUST) AND OTHER HARMFUL SUBSTANCES. "OIL-FREE" CONDENSATE IS PARTICULARLY AGGRESSIVE. YOUR PRIMARY TARGET: REMOVING AND TREATING THE CONDENSATE TO ENSURE HIGH QUALITY COMPRESSED AIR.

■ **1.** The intelligent control avoids unnecessary loss of compressed air, thus permitting considerable energy savings. ■ **2.** The connection to the compressed-air system is quite simple, because the inlet and outlet of the Bekomat unit are in alignment. Discharge can be arranged either through a hose or piping. ■ **3.** The non-wearing capacitive sensor registers every type of condensate – including pure oil. Condensate discharge is no problem even with heavily contaminated condensate. ■ **4.** The electronic system consists of an integrated power unit and a control with accessible 24 VDC direct current. ■ **5.** Constant self-monitoring guarantees maximum reliability. The current operating state is indicated by an LED display. All the operator's elements and the electronic control are splash-proof and comply with IP65 protection rating.

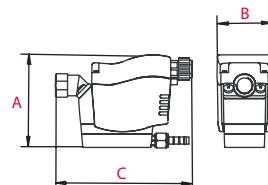


## BEKOMAT

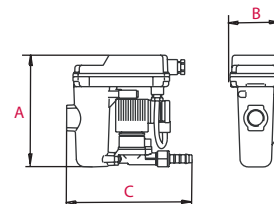
		31	12	13	14	12 CO PN 63
MAX. FLOW CAPACITY		4 M <sup>3</sup> /H	6,5 M <sup>3</sup> /H	30 M <sup>3</sup> /H	130 M <sup>3</sup> /H	6,5 M <sup>3</sup> /H
MAX. DRYER CAPACITY		8 M <sup>3</sup> /H	13 M <sup>3</sup> /H	60 M <sup>3</sup> /H	260 M <sup>3</sup> /H	13 M <sup>3</sup> /H
MAX. FILTER CAPACITY		40 M <sup>3</sup> /H	65 M <sup>3</sup> /H	300 M <sup>3</sup> /H	1300 M <sup>3</sup> /H	65 M <sup>3</sup> /H
OPERATING PRESSURE MAX.		16 BAR	16 BAR	16 BAR	16 BAR	63 BAR
TEMPERATURE* MIN/MAX		+1/+60	+1/+60	+1/+60	+1/+60	+1/+60
CONNECTION	INLET	G 1/2	G 1/2	G 1/2	G 1/2	G 1/2
CONNECTION	OUTLET	G 1/4**	G 3/8**	G 1/2**	G 3/4**	G 3/8**
A	HEIGHT	115 MM	141 MM	162 MM	180 MM	141 MM
B	WIDTH	69 MM	65 MM	93 MM	120 MM	65 MM
C	LENGTH	134 MM	150 MM	190 MM	224 MM	150 MM
	WEIGHT	0,7 KG	0,8 KG	2 KG	2,9 KG	0,9 KG

\* With heating and appropriate insulation application up to -25°C is possible.

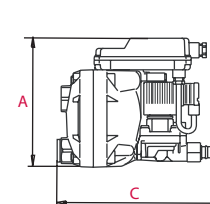
\*\* Hose connection



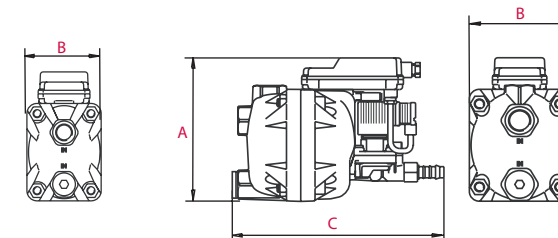
Bekomat 31



Bekomat 12/  
Bekomat 12 CO PN63



Bekomat 13



Bekomat 14

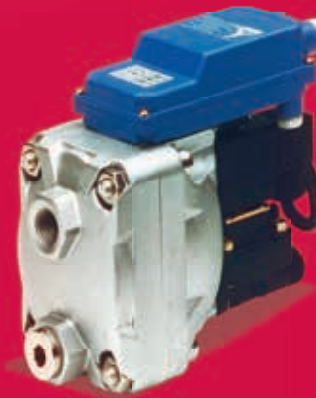
**BEKOMAT 31** For flow capacities up to 4 m<sup>3</sup>/h.



**BEKOMAT 12/ BEKOMAT 12 CO PN 63** For flow capacities up to 6,5 m<sup>3</sup>/h.



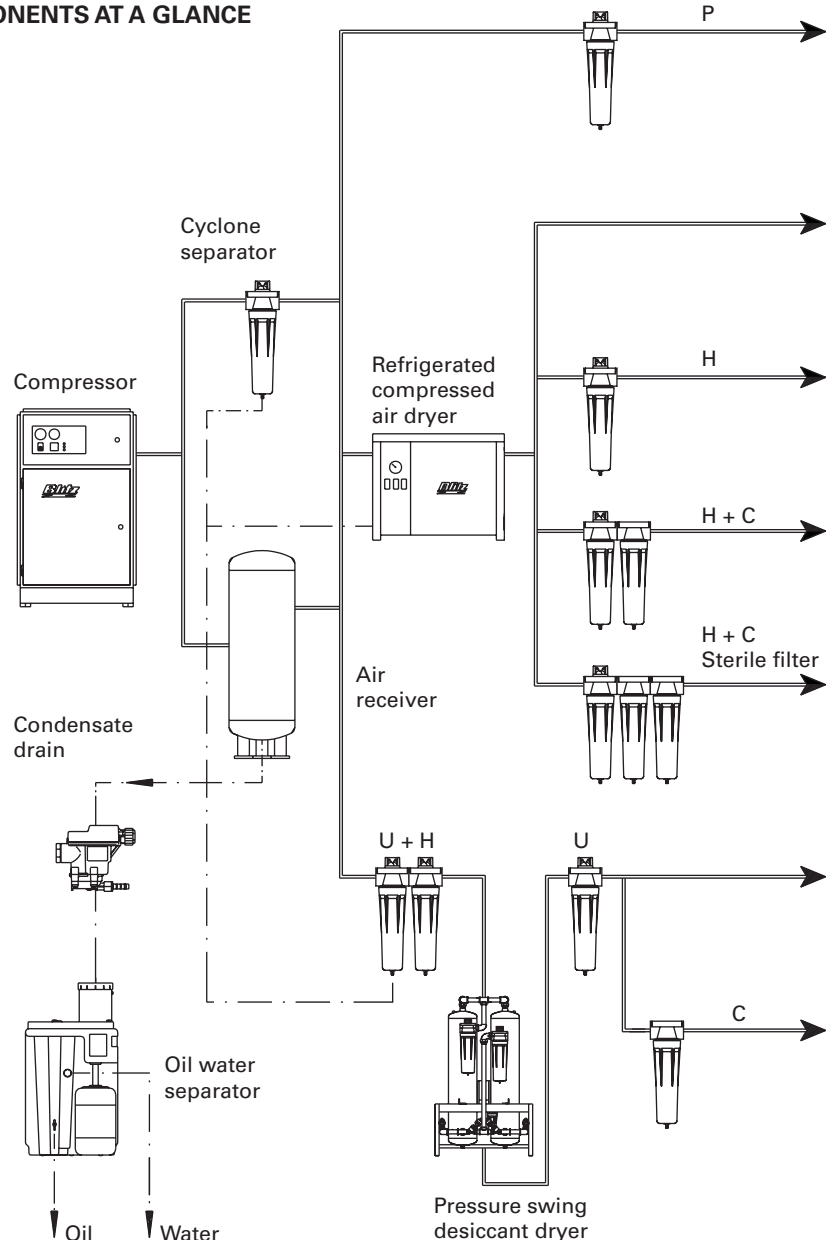
**BEKOMAT 13** For flow capacities up to 30 m<sup>3</sup>/h.



**BEKOMAT 14** For flow capacities up to 130 m<sup>3</sup>/h.



**COMPRESSED AIR TREATMENT  
THE COMPONENTS AT A GLANCE**



- 1
- 2
- 3
- 4
- 5
- 6
- 7

■ **1. VARIANTS**  
**Air quality:** moisture saturated, solid particles 3 micron absolute, remaining oil contents 0,005 ppm, Compressed air class\*: 3.74  
**Recommended use:** blowing air (only for applications insensitive to oil, solid particles and water)

■ **2. VARIANTS**  
**Air quality:** pressure dew point 3°C, filtration of all solid particles, 3 micron absolute, Compressed air class\*: 3.4.4  
**Recommended use:** general workshop air

■ **3. VARIANTS**  
**Air quality:** pressure dew point 3°C, separation degree 99,999%, for solid particles 0,01 micron, remaining oil contents 0,01 ppm, Compressed air class\*: 1.4.2  
**Recommended use:** compressed air tools, pneumatics, control and instrumental technique, surface technique, powder coating, packing technique

■ **4. VARIANTS**  
**Air quality:** pressure dew point 3°C, free from aerosoles, oil smell and oil taste, solid particles 0,01 micron absolute, remaining oil contents 0,003 ppm, Compressed air class\*: 1.4.1  
**Recommended use:** foods and semi-luxury foods, chemical and pharmaceutical industry, breathing air, production air, photographic laboratories

■ **5. VARIANTS**  
**Air quality:** + 100% sterile filter Compressed air class\*: 1.4.1  
**Recommended use:** vide above + sterile air requirement

■ **6. VARIANTS**  
**Air quality:** pressure dew point -40°C, separation degree 99,999%, solid particles 0,01 micron, remaining oil contents 0,01 ppm, Compressed air class\*: 1.1.22  
**Recommended use:** outlying lines, pneumatics, compressed air tools, control and instrumental technique, surface technique, powder coating

■ **7. VARIANTS**  
**Air quality:** pressure dew point -40°C free from aerosoles, oil smell and oil damps as well as solid particles, remaining oil contents 0,003 ppm, Compressed air class\*: 1.1.1  
**Recommended use:** production air for highly hygroscopic substances in dairy, breweries, breathing air, chemical and pharmaceutical industry, outlying lines.n

\* according to DIN ISO 8573-1: 1995



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