PUREBERG®

Compressed air Filter, Water Separator, Condensate Drain

Quality product
Excellent service

BERG®

High Efficiency Water Separators

PUREBERG® FWW

CONDENSATE SEPARATORS

Max. operating pressure	16 bar
Volume flow rate	72 to 2760 Nm3/h
Connections	3/8” to 3”
Operating temp. range	1.5 to 65°C

according to ISO 8573-1, Quality class-water 8,
water removal Efficiency ≥ 98%

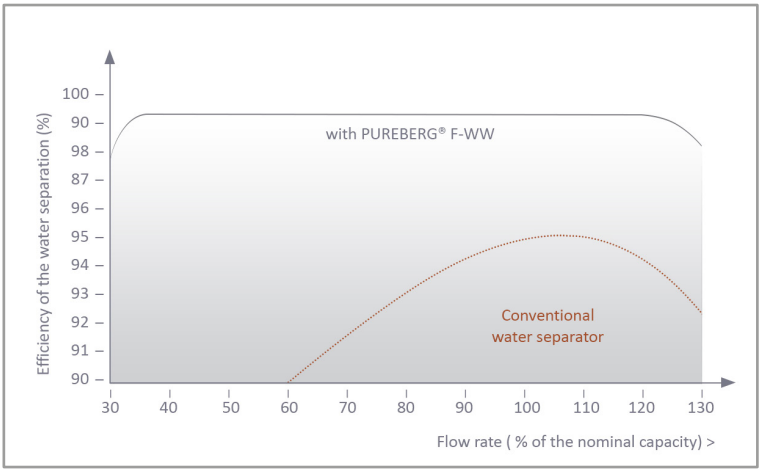
BM20

The perfect choice

- Process reliable in condensate separation
- 98% separation rate and performance
- Effective corrosion protection
- Flow-optimized construction
- Very low-pressure drop
- Optimum zero loss drainage

Outstanding water separating rates

PUREBERG® condensate separators have been developed for high-efficiency removal of bulk liquids from compressed air and vacuum systems up to 20 bar. Inside the housing, there is an insert with vanes that creates a controlled rotation of the air. As a result of centrifugal action liquids (water, oil) and large particles are forced to the housing wall, slowed down and accumulated at the bottom of separator housing as condensate. The turbulent free zone in the lower part of the filter housing prevents condensate from being picked up and “carried over” into the airstream. To discharge condensate from the F-WW water separators it is essential to install automatic or electronic condensate drain.

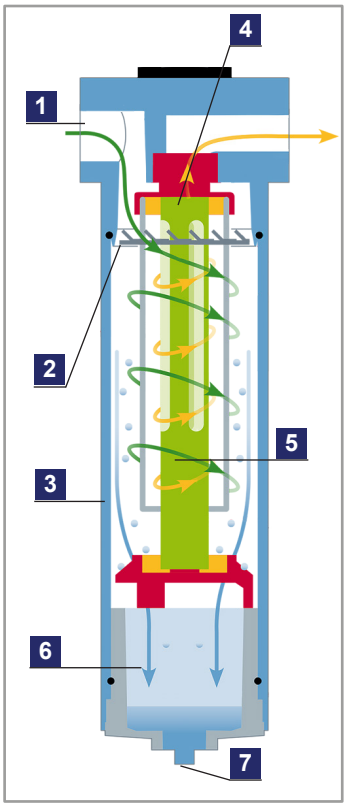


Efficiency PUREBERG® FWW

Through the flow optimized design, an efficiency of up to 99% is achieved over a broad range of performance. This results in the highest separation rates at the lowest costs.

High Efficiency Water Separators

DESCRIPTION F-WW



1 Connections: The connections are perfectly matched to the outlet of the compressor. The flow optimized inlet leads to reduced flow resistance.

2 Internal swirl insert: When the compressed air has entered the PUREBERG® F-WW separator housing, it reaches a special internal swirl insert that makes the entering compressed air flow experience a special rotary motion with high velocity. The consequence: the outwardly directed rotational forces lead the condensate droplets to the separator wall, from where they flow into the collecting zone.

3 Effective corrosion protection: Condensate accumulating during compressed air filtration is almost always aggressive, so that unprotected housings corrode. PUREBERG® F-WW filter housings are made of saltwater proof aluminum and, in addition, are fully anodized and their outside is powder coated.

4 Rising pipe: A specially designed rising pipe avoids particle transfer to the upwardly directed rotational flow of the already purified compressed air.

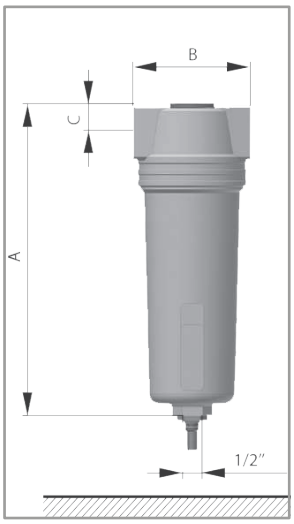
5 Rectifier: The innovative rectifier leads the compressed air to the outlet and reduces flow losses to a minimum.

6 Shielded collecting zone: The shielding of the collecting zone settles the air flow in this area in order to effectively avoid the dispersion and re-entrainment of already separated liquids.

7 BEKOMAT®: More than 60% of the total amount of condensate already accumulates in the water separator. The electronically level controlled BEKOMAT® ensures reliable drainage.

Technical Data of High Efficiency Water Separators PUREBERG® FWW

Model	max. oper, pressure	Nominal airflow		Dimension [mm]	Weight [kG]	Air connection
	bar	[Nm³/h]	[cfm]	(A×B×C)		
F 01 WW	20	72	42	187×88×20	0.7	G ⅜"
F 02 WW	20	96	56	256×88×20	0.8	G ½"
F 03 WW	20	150	88	278×106×25	1.3	G ½"
F 04 WW	20	216	127	278×106×25	1.3	G ¾"
F 05 WW	20	287	166	252×125×32	2.1	G 1"
F 09 WW	20	510	300	450×125×32	3.2	G 1 ½"
F 15 WW	20	888	522	605×160×43	5.1	G 2"
F 24 WW	20	1440	847	685×160×43	6.3	G 2 ½"
F 46 WW	20	2760	1624	800×240×60	12.9	G 3"



Operating pressure (bar)	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Correction factors	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13	2.25	2.38	2.50	2.63

High Efficiency Compressed Air Filteration

PUREBERG® F

Aluminium Compressed Air Filters

Max. operating pressure	20 bar
Volume flow rate	96 to 2760 m³/h
Connections	1/2” to 3”
Operating temp. range	+2 to 65°C

The perfect choice

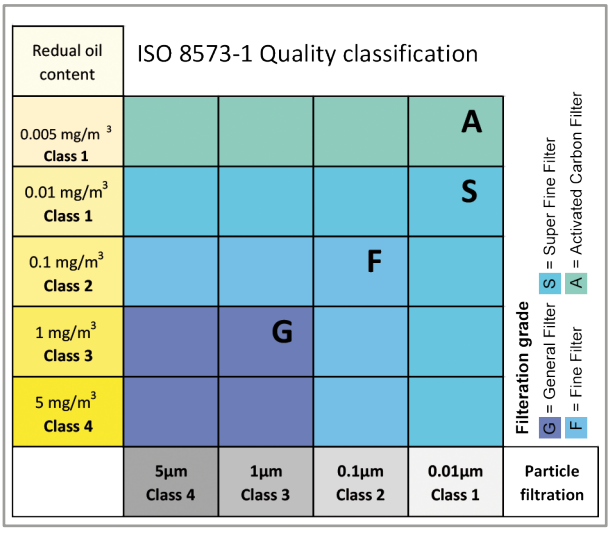
- Virtually abrasion-free
- Integrated particle removal
- Easily adapted checking system
- Simple cartridge replacement
- Flow optimized housing
- Comprehensive line

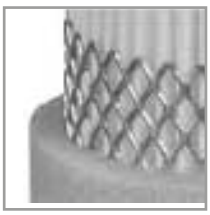
Innovative features mean outstanding performance without compromise

PUREBERG® filter housings have been developed for high-efficiency removal of solid particles, water, oil aerosols, hydrocarbons, odour vapours from compressed air systems. To meet the required compressed air quality appropriate filter element (G, F, S, A) must be installed into the filter housing.

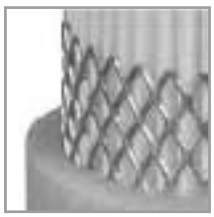
Housing prevents condensate from being picked up and “carried over” into the airstream.

The BERG® filter technology guarantees low operating costs, long service life, outstanding process reliability, and safe filtration.

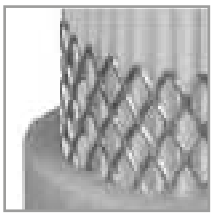




General Purpose Filter
1 µm
Acrylic fibers, cellulose



Fine Filter
0.1 µm
Borosilicate micro fibers



Super Fine Filter
0.01 µm
Borosilicate micro fibers

Activated carbon
0.005 mg/m3
Borosilicate micro fibers

High Efficiency Compressed Air Filteration

DESCRIPTION F-W

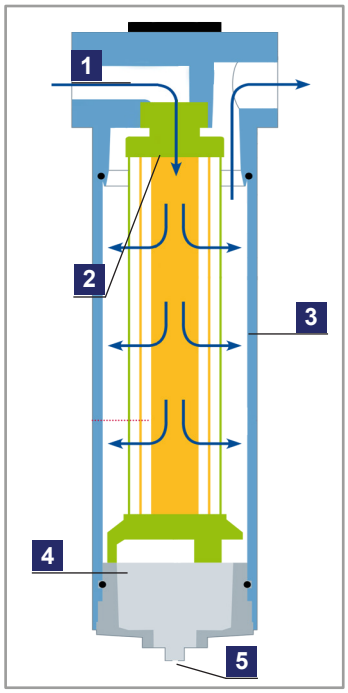
1 Connections: The connections are perfectly matched to the outlet of the compressor. The flow optimized inlet leads to reduced flow resistance.

2 Filter elements: PUREBERG® filter elements are employed without cross-section-reducing and disturbing tension anchor.

3 Effective corrosion protection: Condensate accumulating during compressed-air filtration is almost always aggressive, so that unprotected housings corrode. PUREBERG® filter housings are made of saltwater-proof aluminum.

4 Condensate quiet zone: A generously-dimensioned condensate quiet zone prevents the entrainment of already separated condensate.

5 BEKOMAT®: More than 60% of the total amount of condensate already accumulates in the water separator. The electronically level controlled BEKOMAT® ensures reliable drainage.



Technical Data of Aluminium Compressed Air Filters PUREBERG® F

Model	Max. oper, pressure [bar]	Nominal airflow [Nm³/h]	[scfm]	Dimension [mm] (A×B×C)	Weight [kG]	Air connection	G	F	S	A
F 02 (type) W	20	96	56	256×89×20	0.8	G ½"	02 G	02 F	02 S	02 A
F 03 (type) W	20	150	88	278×106×25	1.3	G ½"	03 G	03 F	03 S	03 A
F 04 (type) W	20	216	127	278×106×25	1.3	G ¾"	04 G	04 F	04 S	04 A
F 05 (type) W	20	282	166	252×125×32	2.1	G 1"	05 G	05 F	05 S	05 A
F 06 (type) W	20	360	212	325×125×32	2.4	G 1"	06 G	06 F	06 S	06 A
F 09 (type) W	20	510	300	450×125×32	3.2	G 1 ½"	09 G	09 F	09 S	09 A
F 13 (type) W	20	750	441	450×125×32	3.2	G 1 ½	13 G	13 F	13 S	13 A
F 15 (type) W	20	888	522	605×160×43	5.1	G 2"	15 G	15 F	15 S	15 A
F 20 (type) W	20	1176	692	605×160×43	5.1	G 2"	20 G	20 F	20 S	20 A
F 24 (type) W	20	1440	847	685×160×43	6.3	G 2 ½"	24 G	24 F	24 S	24 A
F 33 (type) W	20	1968	1158	800×240×60	12.9	G 3"	33 G	33 F	33 S	33 A
F 46 (type) W	20	2760	1624	800×240×60	12.9	G 3"	46 G	46 F	46 S	46 A

Working presure [bar]	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Correction factor	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13	2.25	2.38	2.50	2.63

	General Filter	Fine Filter	Super fine Filter	Activated carbon
Quality class - particle (ISO8573-1)	3	2	1	1
Residual oil content (mg/m³)	<1	<0.1	<1.01	<0.005
Quality class - oil (ISO8573-1)	3	2	1	0
Pressure drop - new element (mbar)	20	50	60	60
Change filter vartridge at pressure drop (mbar)	350	350	350	350
Filter media	Acrylic fibers	Borosilicate micro fibers		Activated carbon

High-Efficiency Flange water Separators

PUREBERG® FFWW

FLANGE CONDENSATE SEPARATORS

Max. operating pressure 16 bar
Volume flow rate 1760 to 8520 Nm3/h
Connections DN80 to DN250
Material FF-WW series Galvanized carbon steel
according to ISO 8573-1, Quality class-water 8 ,
water removal Efficiency ≥ 95%

BM20

The perfect choice

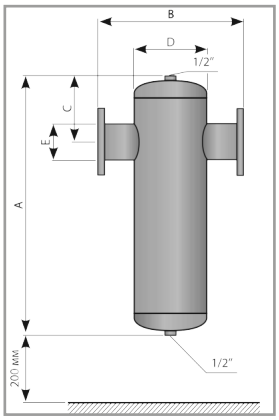
- Use for large compressed air lines and high volume flows
- Easy Installation
- Can be installed on the wall or on the floor
- Different degrees of filtration
- Different pressure stages
- Easy to maintain

Outstanding flange water separating rates

PUREBERG® flange water separators have been developed for high-efficiency removal of bulk liquids and large impurities from compressed air systems. Inside the housing, there is an insert that creates a controlled rotation of the air. As a result of centrifugal action liquids (water, oil) and large particles are forced to the housing wall, slowed down and accumulated at the bottom of separator housing as condensate. The turbulent free zone in the lower part of the cyclone housing prevents condensate from being picked up and “carried over” into the airstream. To discharge condensate it is essential to install automatic or electronic condensate drain.

Technical Data of High Efficiency Flange Water Separators PUREBERG® FWW

Model	max. oper, pressure	Nominal airflow		Dimension [mm]	Temperature oper. Range		Weight [kG]	Air connection
	bar	[Nm³/h]	[cfm]	(A×B×C×D)				
FF 29 WW	16	1760	1024	720×400×165×219	1.5-65	35-149	33	DN 80
FF 37 WW	16	2200	1307	890×460×236×244	1.5-65	35-149	45	DN 100
FF 66 WW	16	3940	2331	980×550×250×273	1.5-65	35-149	58	DN 125
FF 88 WW	16	5300	3108	1040×570×250×300	1.5-65	35-149	81	DN 150
FF 97 WW	16	5829	3426	1110×690×256×350	1.5-65	35-149	107	DN 200
FF 142 WW	16	8520	5015	1330×800×360×480	1.5-65	35-149	207	DN 250



Operating pressure (bar)	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Correction factors	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13	2.25	2.38	2.50	2.63

The high-performance and more energy efficiency flange filter

PUREBERG® FF

WELDED CARBON STEEL COMPRESSED AIR FILTERS

Max. operating pressure	16 bar
Volume flow rate	1680 to 9400 Nm³/h
Connections	DN80 to DN150
Operating temp. range	1.5 to 65°C

Filter Flanged Performance

- The filter housing connections enabling easy installation in existing pipework's
- Differential manometer
- The flanged-filter housings receive full-bath galvanizing according to the high-temperature method
- Easy to maintain
- The large surface of the filter elements
- Easy Installation

BM 20

DESCRIPTION

PUREBERG® flange filter housings have been developed for high-efficiency removal of solid particles, water, oil aerosols, hydrocarbons and other vapours from large compressed air systems.

This series of filters is connected to the compressed air line with a flange.

There are different filtration degrees. To meet the required compressed air quality appropriate filter element (G, F, S, A) must be installed into the filter housing.

Technical Data of Aluminium Compressed Air Filters PUREBERG® FF

Model	Max.oper, pressure	Nominal airflow		Dimension (A×B×C×D)	Weight	Air connection	G	F	S	A
	[bar]	[Nm³/h]	[scfm]	[mm]	[kG]					
FF 40(type) W	16	1680	989	1145×450×1640×219	71	DN 80	1×100 G	1×100 F	1×100 S	1×100 A
FF 53(type) W	16	3150	1853	1330×560×1780×324	110	DN 100	2×100 G	2×100 F	2×100 S	2×100 A
FF 78(type) W	16	4700	2765	1340×560×1780×324	115	DN 125	3×100 G	3×100 F	3×100 S	3×100 A
FF105(type) W	16	6300	3706	1360×620×1780×368	154	DN 150	4×100 G	4×100 F	4×100 S	4×100 A
FF157(type) W	16	9400	5530	1420×680×1810×405	195	DN 150	6×100 G	6×100 F	6×100 S	6×100 A

Working presure [bar]	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor	0.50	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

High Pressure Filters and Condensate Separators

PUREBERG® F / FW HP100/420

Cast Aluminium High Pressure Filters And Condensate Seprators

Max. operating pressure	100 / 420 bar
Volume flow rate	42 to 495 Nm3/h
Connections	1/4” to1 1/2”
Operating temp. range	1.5 to 65°C

The perfect choice

- Low lifetime costs
- Flexible to install
- Easy to maintain
- Maximum reliability
- Improved working environment
- Maximum energy savings

DESCRIPTION F-WW HP100/420

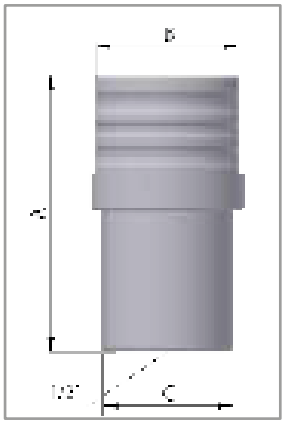
Cndensate separators have been specifically developed for high-efficiency removal of bulk liquids from compressed air systems. This separator already liquefied water from mainstream and prevents the liquids and large particles from being airborne again. To discharge condensate from the F-WW HP100 condensate separator it is essential to install automatic or electronic condensate drain.

DESCRIPTION F-W HP100/420

PUREBERG® HP filter housings have been developed for high efficient removal of solid particles, water, oil aerosols, hydrocarbons and other vapours from compressed air systems.
To meet the required compressed air quality appropriate filter element (F, S, A) must be installed into filter housing.

GREATER SAFETY AND RELIABILITY

- No corrosion, and no reduction in filter performance
- Easy element replacement even under spatially restricted conditions
- Housing o-ring provides radial sealing
- Additional safety against loosening of housing connection
- Continuous documentation for the traceability
- Maximum energy saving and reliability



Technical Data of Aluminium High Pressure Filters PUREBERG® F-W HP100/420

Model	Max. oper, pressure [bar]	Nominal airflow at 40 bar [Nm³/h]	[scfm]	Dimension (A×B×C) [mm]	Weight [kG]	Air connection	F Fine Filter	S Super fine Filter	A Activated Carbon
F 03 (type) WHP	100/420	200	117	182×98×104×30	7.9	G 1/4”	EF03 FHP	EF03 SHP	EF03AHP
F 05 (type) WHP	100/420	350	206	182×98×104×30	7.9	G 3/8”	EF05 FHP	EF05 SHP	EF05 AHP
F 07 (type) WHP	100/420	650	382	230×118×129×36	15.7	G 1/2”	EF07 FHP	EF07 SHP	EF07 AHP
F 10 (type) WHP	100/420	970	575	254×118×129×36	16.6	G 3/4”	EF10 FHP	EF10 SHP	EF10 AHP
F 18 (type) WHP	100/420	1300	810	276×145×158×46	27.3	G 1”	EF18 FHP	EF18 SHP	EF18 AHP
F 30 (type) WHP	100/420	1900	1115	328×145×158×46	29.6	G 1 1/4”	EF30 FHP	EF30 SHP	EF30 AHP
F 47 (type) WHP	100/420	2470	1455	385×195×216×65	67.8	G 1 1/2”	EF47 FHP	EF47 SHP	EF47 AHP

* Materials: standard stanless steel 1,4301,
* Filter elements ”A,”, must be changed periodically to suit application, but at least every 6 months. Activated carbon filters must not operate in oil saturated conditions.

Working presure [bar]	40	80	100	200	420
Correction factor	1	2	2.4	2.4	2.4

	F Fine Filter	S Super fine Filter	A Activated carbon	W Water Separator
Quality class - particle (ISO8573-1)	2	1	1	-
Residual oil content (mg/m³)	<0.1	<0.01	<0.005	-
Quality class - oil (ISO8573-1)	2	1	1	-
Quality class - water (ISO8573-1)	-	-	-	8
Pressure drop - new element (mbar)	50	80	60	40
Change filter cartridge at pressure drop (mbar)	350	350	6 months	No Need

Fine Filter
0.1 µm

Super Fine Filter
0.01 µm
Borosilicate micro fibers

Activated carbon

CKL

Activated Carbon Tower

PUREBERG® Z-V

Activated Carbon Tower for large volume flows

Max. Operating pressure	16 bar
Volume flow rate	90 to 5000 Nm3/h
Connections	3/4” to DN150”
Operating temperature	30 °C max.
Operating temperature	50 °C
Residual oil content at 20°C	0,003 mg/m³
Filtration type:	Carbon bed

according to ISO 8573-1:
Oil contents:> 0.003 mg/m3,Class -.0.- acc.

Activated Carbon Performance

- Efficient oil vapour adsorption with special activated carbon
- Reduced operating costs thanks to low differential pressure and long service life
- Complete solution with oil-free dust filter
- Available with optional oil test indicator compact residual oil content monitoring unit for extra safety in production processes

DESCRIPTION

PUREBERG® Z-V Activated carbon for volume flows from 60 m³/h to 1200 m³/h is the effective and reliable solution for ensuring a high compressed air quality, particularly in terms of the residual oil content. An indispensable technical component in demanding system designs. Advanced overall design for outstanding performance.

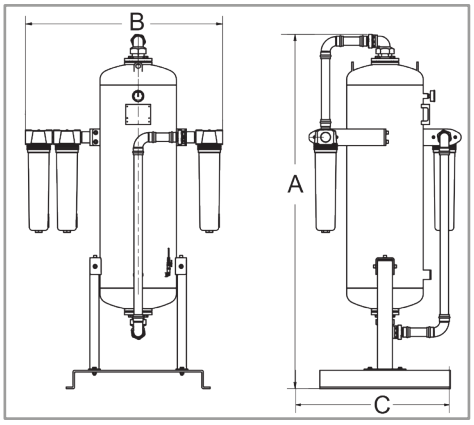
including:

- Activated carbon tower inclusive pressure gauges
- PUREBERG® final dust filter with manual drain
- Oil test indicator

Inlet conditions:

- Residual oil content: 0,01 mg/m³ in case of higher concentration two or three stage prefiltration is required
- Pressure dew point: better than 8 °C
- Inlet temperature: 40 °C

Based on this conditions the life time of the activated carbon tower: 8.000 working hours



Technical Data of Activated Carbon Adsorber PUREBERG® Z-V

Model	max. oper, pressure [bar]	Nominal air flow [Nm³/h]	Dimension (A×B×C×D) [mm]	Pre filters	Dust filter	Weight [kG]	Air connection
Z 90 V	16	90	1071×374×250	F 04FW & F 04SW	F 04DW	30	G ¾"
Z 110 V	16	110	1251×374×250	F 04FW & F 04SW	F 04DW	34	G ¾"
Z 150 V	16	150	1202×696×575	F 05FW & F 05SW	F 05DW	80	G 1"
Z 180 V	16	180	1382×696×575	F 05FW & F 05SW	F 05DW	89	G 1"
Z 210 V	16	210	1506×696×575	F 06FW & F 06SW	F 06DW	95	G 1"
Z 340 V	16	340	1540×696×700	F 09FW & F 09SW	F 09DW	163	G 1½"
Z 480 V	16	480	1639×696×700	F 09FW & F 09SW	F 09DW	173	G 1½"
Z 600 V	16	600	2099×696×700	F 13FW & F 13SW	F 13DW	217	G 1½"
Z 820 V	16	820	1891×860×845	F 15FW & F 15SW	F 15DW	341	G 2"
Z 1000 V	16	1000	2119×860×845	F 20FW & F 20SW	F 20DW	391	G 2"
Z 1200 V	16	1200	2219×860×845	F 24FW & F 24SW	F 24DW	413	G 2"
Z 1400 V	16	1550	2120×700×580	F 24FW & F 24SW	F 24DW	410	DN 80
Z 1700 V	16	1850	2120×750×630	F 33FW & F 33SW	F 33DW	430	DN 80
Z 2000 V	16	2050	2130×800×680	F 46FW & F 46SW	F 46DW	480	DN 80
Z 2500 V	16	2450	2330×870×810	F 53FW & F 53SW	F 53DW	590	DN 100
Z 3000 V	16	3050	2340×930×810	F 78FW & F 78SW	F 78DW	670	DN 100
Z 3500 V	16	3500	2710×1070×1000	F 78FW & F 78SW	F 78DW	1000	DN 100
Z 4000 V	16	4000	2870×1170×1000	F157FW & F157SW	F157DW	1220	DN 150
Z 5000 V	16	5000	2960×1230×1000	F157FW & F157SW	F157DW	1370	DN 150

- Oil test indicator compact included

Working presure [bar]	4	5	6	7	8	9	10	11	12	13	14	15	16
Correction factor K1	0.63	0.75	0.88	1.00	1.10	1.20	1.35	1.44	1.50	1.60	1.75	12.86	2.00

Inlet temperature [°]	35	40	45	50
Correction factor K2	0.80	1.00	1.25	1.50

STAINLESS STEEL STERILE FILTERS

PUREBERG® F-SPFW

Filter Housing

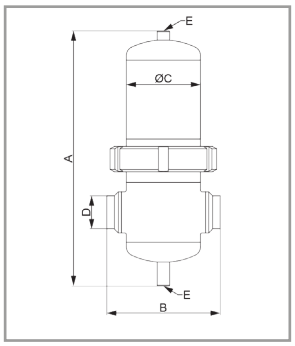
Max. operating pressure	0 to 14 bar
Volume flow rate	150 to 900 Nm3/h
Operating temperature	-20 to 150 °C
Connections	1/2” to 2”
Housing material	Stainless steel

APPLICATIONS

- Packing industry
- Biotechnology
- Breweries
- Chemical industry
- Diaries
- Fermentation processes
- Food & beverage industry
- Pharmaceutical industry
- Hospitals

DESCRIPTION

F-SPFW stainless steel sterile filter housings have been specifically developed for applications in process industry, where the risk for corrosion of compressed air system components is very high. To meet the required compressed air quality appropriate filter element (Sterile filter cartridge) must be installed into filter housing.



Technical Data of Stainless Steel Sterile Filters - Housing SPFW

Model	Filter Element	Operating Pressure	Nominal airflow [Nm³/h]	Nominal airflow [Nm³/min]	Dimension (A×B×C×D×E) [mm]	Volume [l]	Weight [kG]	Air connection
F 02 SPFW	0420	14	150	2.5	258×121×76.1×1/8”	0.84	2.1	1/2”
F 03 SPFW	0520	14	225	3.75	282×121×76.1×1/8”	0.93	2.3	3/4”
F 05 SPFW	0525	14	315	5.25	299×136×88.9×1/8”	1.4	3.1	1”
F 07 SPFW	0725	14	420	7.0	368×155×88.9×1/8”	1.74	3.4	1 1/4”
F 10 SPFW	0730	14	600	10.0	395×180×114.3×1/4”	3.4	4.7	1 1/2”
F 15 SPFW	1030	14	900	15.0	464×180×114.3×1/4”	4.1	5.3	2”

Operating pressure (bar)	2	3	4	5	6	7	8	9	10
Correction factors	0.38	0.50	0.63	0.75	0.88	1	1.13	1.25	1.38

STAINLESS STEEL STERILE FILTERS

PUREBERG® ELEMENT FILTER EF- SPF

Element Filter

Max. operating pressure	0 to 14 bar
Operating temperature	-20 to 150 °C
Differential pressure (dry)	80 mbar
Differential pressure (wet)	190 mbar
Particle retention (nominal)	0,01 µm
Particle retention rate ISO	99,998 %

STERILIZATION (saturated steam)

Cumulative steaming time:

- 121°C/250°F, Sterilization 30min, Heating and cooling 30min (100 cycles)
- 132°C/270°F, Sterilization 20min, Heating and cooling 40min (100 cycles)
- 143°C/290°F, Sterilization 10min, Heating and cooling 50min (100 cycles) Packing industry

Please note that all SPFs (sterile) filter elements are delivered unsterile in unsterile packaging! Please sterilize the filter elements before first use if needed for the application.

MAINTENANCE

Replace filter element when first of following criteria is reached: twelve months in operation, pressure drop reaches 600[mbar], as required by application, prescribed number of sterilization cycles.

Technical Data of Element Filter EF- SPF

Model	Diameter [mm]	Height [mm]	Flow Capacity	
			[Nm³/h]	[scfm]
EF 02 SPF	52	104	150	88
EF 03 SPF	52	128	225	88
EF 05 SPF	62	128	315	185
EF 07 SPF	62	180	420	247
EF 10 SPF	86	180	600	353
EF 15 SPF	86	254	900	530

Operating pressure (bar)	2	3	4	5	6	7	8	9	10
Correction factors	0.38	0.50	0.63	0.75	0.88	1	1.13	1.25	1.38

ZERO LOSS ELECTRONIC CONDENSATE DRAIN

BEKOMAT®

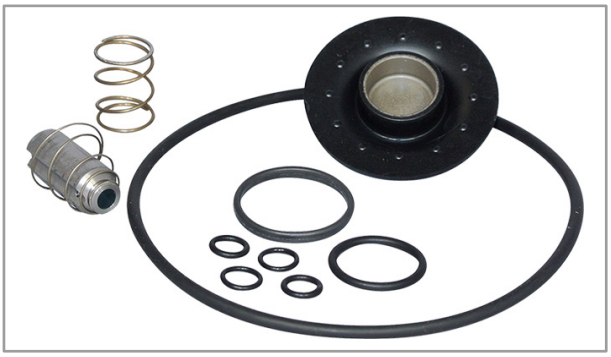
The BEKOMAT® condensate drains in the copressed air system is an electronically level controlled manner. More than 3,000,000 installations worldwide make it the industry standard for reliable and cost-
effective condensate drainage.
The comprehensive product portfolio offers the optimum device for every compressor type and performance, for every system pressure, and for all operatingconditions. Unnecessary costs and damage during the generation of compressed air can only be avoided in an efficient way with amount-adjusted condensate drainage.
Therefore, BEKOMAT® condensate drains operate with a capacitive sensor. The intelligent electronics prevent compressed-air losses and minimize the energy demand. As a result, the BEKOMAT® often pays itself off within half a year already, in contrast to devices with timed drain valves.
The devices of this new generation are made up of only two modules: a service unit comprising the corrosion-resistant aluminum housing together with all maintenance-relevant components, and an electronic control and sensor unit which is installed only once. Both modules are coupled via a practical snap connection.

Features and Advantages

- True zero air loss: maximum energy saving
- Highest reliability
- Lowest maintenance
- Sensor controlled
- Fully automatic
- Integrated alarm

Berg alternative maintenance Kit

BEKOMATs needs to be serviced from time to time. Our alternative maintenance kits make this an easy task.

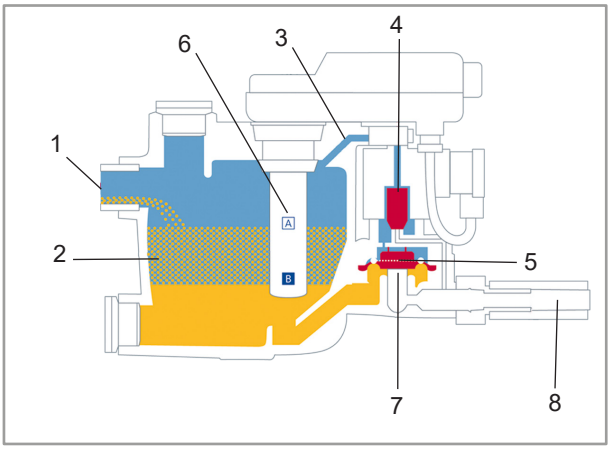


Zero Air Loss Condensate Drain, BEKOMAT®!

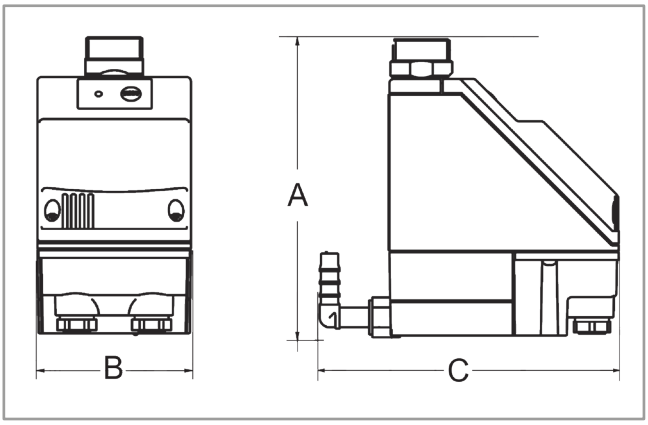
DESCRIPTION

The condensate trickles through the inlet opening (1) and collects in the container (2). Initially, the valve is closed, via the pilot supply line (3) and the solenoid valve (4), pressure differential above the membrane (5) is affected. The larger surface area above the membrane results in a high closing force. The membrane seat remains closed and leak-proof.

When the container is filled with condensate, so that the capacitive level sensor (6) gets a signal at the maximum point, the solenoid valve switches over and the area above the membrane is vented. As a result of the decreasing pressure above the membrane, the membrane lifts off the membrane seat (7) and the overpressure in the housing forces the condensate into the discharge pipe (8).



- Functions unaffected by dirt, resulting in reliable operation
- Is equipped with an alarm signal
- Has large cross-sections to prevent emulsification
- Operates in accordance with the actual condensate quantity
- Avoids the unnecessary loss of compressed air



Technical Data of Condensate Drain BEKOMAT ®

Model	Operation Pressure [bar g]		Max. Performance [m³/min]			Dimension [mm]	Weight [kG]	Air connection
	min	max	Filter	RF Dryer	Compressor			
BEKOMAT® 20	0.8	16	50	10	5	140×140×72	0.7	1 × G ½"
BEKOMAT® 31u	0.8	16	30	6	3	118×164×65	0.8	1 × G ½"
BEKOMAT® 12	0.8	16	80	16	8	141×158×65	0.8	1 × G ½"
BEKOMAT® 13	0.8	16	350	70	35	161×211×61	2	2 × G ½"
BEKOMAT® 14	0.8	16	1500	300	150	180×252×120	2.9	1 × G ¾"
BEKOMAT® 16 CO	0.8	16	-	3400	1700	280×280×260	5.9	1 × G ½"
BEKOMAT® 03 CO LP	0.4	16	-	200	100	232×197×159	2.6	1 × G ½"
BEKOMAT® 06 CO LP	0.4	16	-	2000	1000	295×280×260	5.9	1 × G ½"

Condensate technology QWIK-PURE®

QWIK-PURE®

Classic oil-water separators

Max. Operating pressure	15 bar
condensate flow:	12 to 114 l/h
Maximum oil concentration	20 mg/l
Operating temperature	+5 to +50 °C

The QWIK-PURE® PERFORMANCE

- Clean: Ergonomic operation protects operators
- Safe: Unique process,functional and future-proof
- Integrated monitoring saves resources
- Extremely flexible and future-proof
- Modular: QWIK-PURE® simply grows with you

DESCRIPTION

Classic oil-water separators based on the principle of gravity separation can hardly be improved in terms of process technology.

So, as condensate technology experts with decades of experience, we have paid special attention to the people who work with the product. What is important to them, what drives them and how can we give them the highest degree of decision-making reliability and flexibility while integrating the requirements of modern industry? As a result, we present the QWIK-PURE®, the first active oil-water separator with which we have fundamentally redefined condensate treatment and will change it worldwide.

Active separation means saving!

The active separation of the condensate costs some compressed air and electricity. But at the same time, the cartridges are utilised much more efficiently and reliably, raw materials, energy and costs can be saved. Plannable and quick service calls as well as simple stock-keeping are further saving factors that contribute to an attractive Total Cost of Ownership (TCO). The absence of activated carbon and the well thought-out packaging are good for the environment and also reduce the CO2 balance.

Safety is the focus

Reliable protection of users from critical cultures and substances, but also ergonomic handling and easy operation are particularly important to us, as they are elementary prerequisites for problem-free operation over many years. The simple design and the unique possibility to grow with changing requirements and needs give a completely new decision-making certainty .

Technical Data of Condensate Drain e QWIK-PURE®

Model	Maximum condensate flow	Condensate inlet connection	Condensate drain connection	Weight	Dimention	Number of cartridges
	[l/h]	Hose nozzle	Hose nozzle	[kG]	[mm]	
QWIK-PURE® 10	12	3xG1/2", 1xG1"	1x23mm (0.91 in)	21	1482x625x540	1
QWIK-PURE® 15	19	3xG1/2", 1xG1"	1x23mm (0.91 in)	24	1482x744x540	1
QWIK-PURE® 30	38	3xG1/2", 1xG1"	1x23mm (0.91 in)	31	1482x625x790	2
QWIK-PURE® 60	76	3xG1/2", 1xG1"	1x23mm (0.91 in)	45	1482x943x790	4
QWIK-PURE® 90	114	3xG1/2", 1xG1"	1x23mm (0.91 in)	60	1482x1278x790	6

Condensate technology ÖWAMAT®

ÖWAMAT®

Safe and efficient oil-water separation

Max. Operating pressure	16 bar
Container volume:	10 to 228.4 l
Capacity	4.3 to 11.7 l
Operating temperature	+5 to +60 °C

The ÖWAMAT® PERFORMANCE

- Low operating costs
- Operational safety
- User-friendly design
- Efficient separation
- Environmentally friendly

DESCRIPTION

The ÖWAMAT® is a tried and tested oil-water separation system for dispersed condensates. These models (with and without free oil separation) are for the removal of synthetic or mineral oils, and for the processing of condensate produced in screw or piston compressors. They have been type-approved and therefore do not require a separate operating license under water protection legislation.

Efficient condensate processing

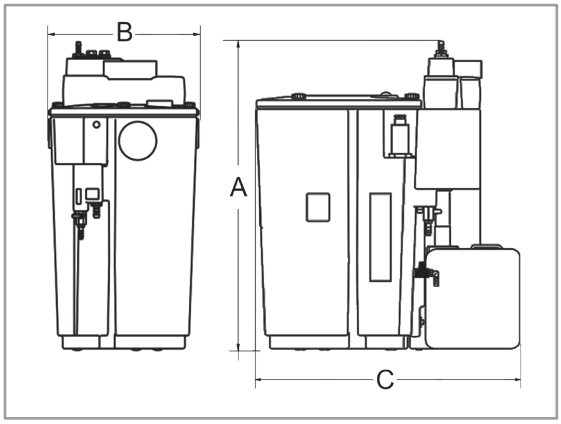
Legislators demand that discharged condensate is processed properly and safely. We make it easy for operators to meet the legal requirements. With our extensive range of condensate processing solutions that reflect our commitment to sustainability, our ÖWAMAT® oil-water separation systems are available with our without preseparator and in six sizes to suit any plant. They combine economy and ecology, catering for the safe processing of dispersed condensate at the point where it occurs – in a cost-effective and efficient manner.

Technical Data of Condensate Drain ÖWAMAT®

Model	Compressor Performance [m³/min]		Container volume	Capacity	Dimension	Weight	Condensate inlet	Water
	min	max	[l]	[l]	[mm]	[kG]	[hose size]	[hose size]
ÖWAMAT® 10	1.4	2.4	10	4.3	528×289×204	3.5	2×G1/2	1 × G1/2”
ÖWAMAT® 11	2.8	4.9	18.6	11.7	604×387×254	5.75	2×G1/2	1 × G1/2”

- The values for capacity, size and weight are without preseparator.

For ÖWAMAT®	10	11
Prefilter [l]	1× 2.5	1× 4.7
Main filter [l]	1× 2.6	1× 4.8
Weight [kG]	0.5	1.98



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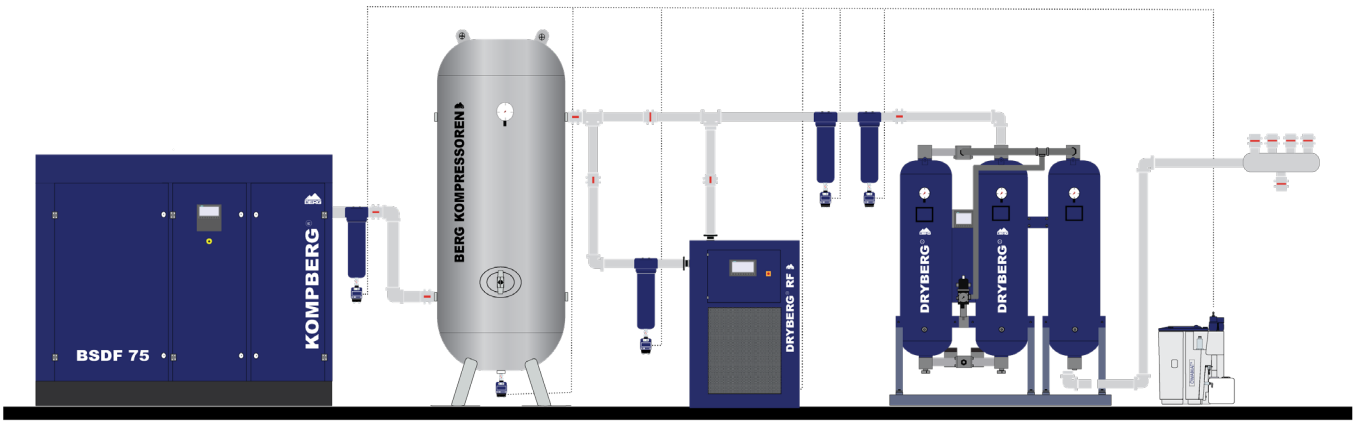
Compressed Air Technology | Air Separation



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Wir investieren in Qualität!

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