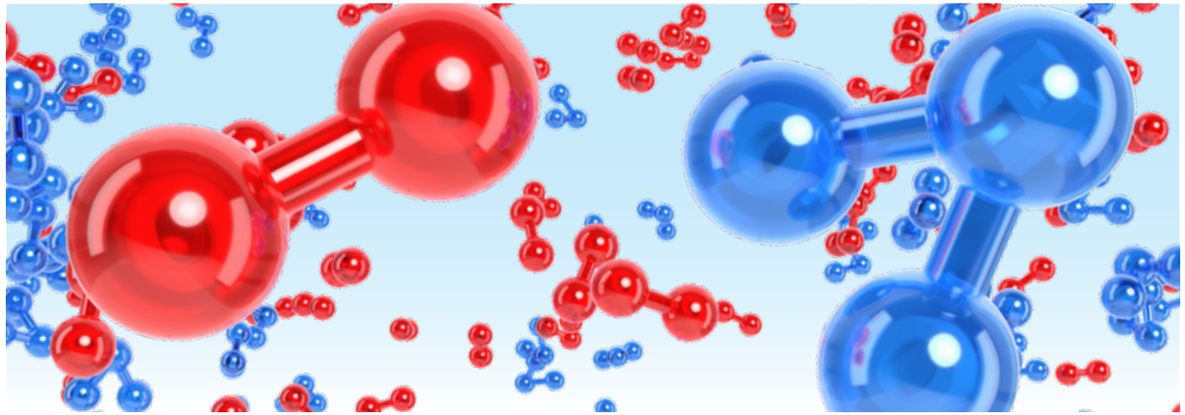
BAUER COMPRESSORS

Quality. Our DNA

BAUER COMPLETE AIR TREATMENT SOLUTION
FOR MEDIUM TO HIGH PRESSURE

INDUSTRY

BENEFITS OF AIR TREATMENT



Compressed air treatment is crucial for maintaining efficient and reliable operations across various industries. Contaminants such as water, oil, and dirt are common in compressed air systems and can cause significant problems if not properly managed. Effective air treatment protects sensitive equipment, ensures high product quality, enhances operational efficiency, and improves safety. Additionally, many industries must adhere to regulatory standards that mandate specific purity levels for compressed air. Understanding and addressing the importance of clean, treated compressed air is essential for the smooth functioning of industrial processes and achieving long-term cost savings.

BENEFITS OF TREATING COMPRESSED AIR CAN INCLUDE:

PRODUCT QUALITY

In industries such as food and beverage, pharmaceuticals, and electronics, contaminants in compressed air can compromise product quality and safety. Air treatment ensures that the air used in production processes is clean, thereby maintaining high standards of product quality.

SAFETY

Contaminants in compressed air can pose safety risks to equipment, processes, and personnel. Proper air treatment minimizes these risks, contributing to a safer working environment.

PROTECTION OF EQUIPMENT

Contaminants like water, oil, and dirt can damage, clog, and corrode machinery. Proper air treatment removes these impurities, preventing premature wear and extending the lifespan of equipment.

REGULATORY COMPLIANCE

Many industries are subject to strict regulations regarding air quality. Implementing air treatment ensures compliance with industry standards and regulations, avoiding potential fines and legal issues.

OPERATIONAL EFFICIENCY

Clean, dry air improves the performance and efficiency of equipment. It reduces the likelihood of breakdowns and malfunctions, which can cause costly downtime and interruptions in production.

COST SAVINGS

By preventing equipment damage and reducing downtime, air treatment can result in significant cost savings over time. It minimizes maintenance and repair costs, as well as the expenses associated with production delays.

For over seven decades, BAUER has been the leading manufacturer of innovative and reliable compressor systems. Our commitment to excellence is reflected in our vertically integrated manufacturing process, which ensures the highest standards at every stage, including the accessories we provide. BAUER air treatment systems exemplify this quality, delivering the performance you need, ready availability of consumable parts, and access to expert service.

BAUER air treatment systems feature filters, water-oil separators, high-pressure dryers, regenerative absorption dryers, and storage solutions to ensure the highest air quality and system efficiency.

PX SERIES FILTERS

Our filters effectively remove solid particles, oil aerosols, hydrocarbons, and other contaminants from compressed air. By eliminating hydrocarbons and oil aerosols, you can protect sensitive machinery and processes, achieve greater air purity, and extend the lifespan of your equipment.

WATER-OIL SEPARATORS

Water in compressed air systems can cause rust and corrosion, while oil can degrade seals and gaskets. Water-oil separators help achieve higher air purity, extend equipment lifespan, and optimize operation, leading to increased energy efficiency.

HIGH-PRESSURE DRYERS

High-pressure dryers not only enhance air purity and protect your investments, but they also optimize performance and increase reliability. These dryers remove moisture from the air, preventing complications such as freezing, which can cause blockages and damage in cold environments. This ensures smooth operation and safeguards equipment and personnel.

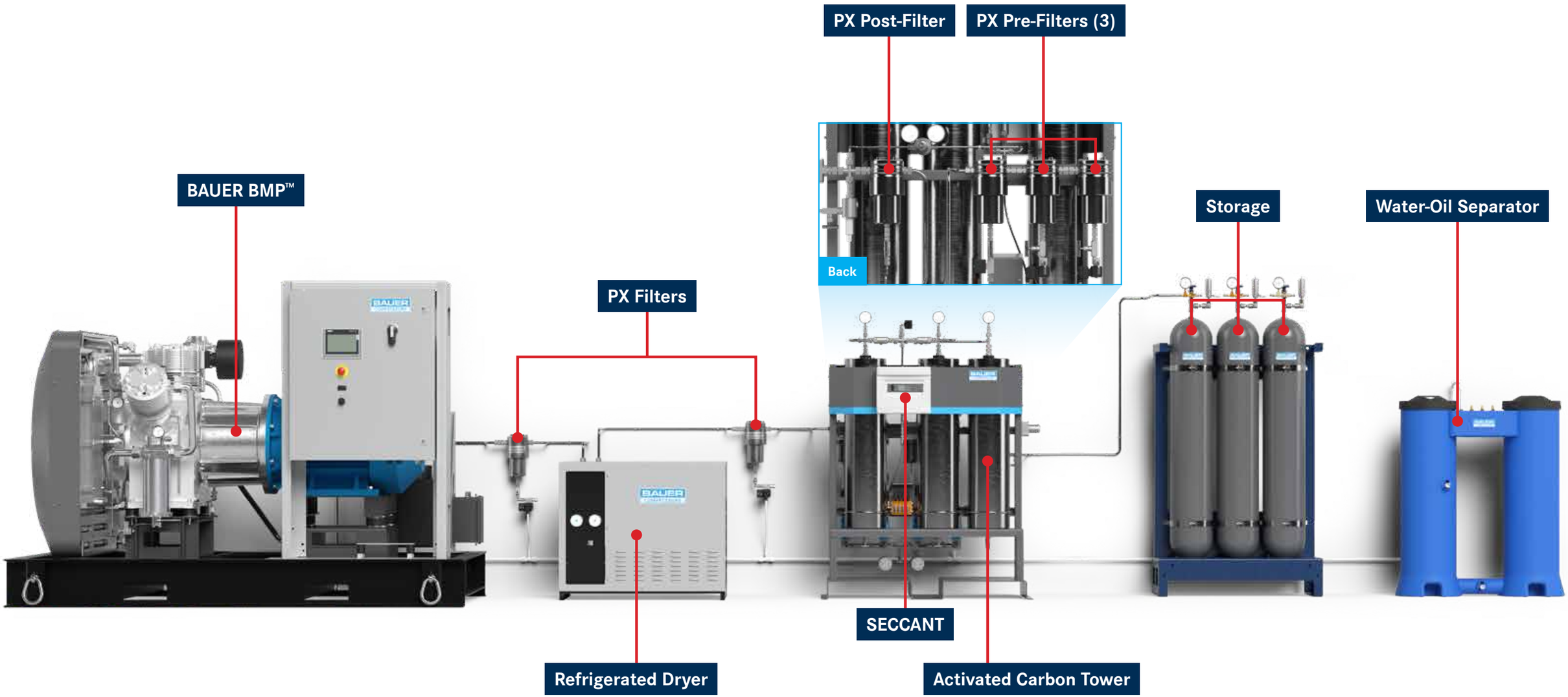
STORAGE

BAUER offers a wide selection of storage options tailored to meet your specific needs. Whether you require bulk, bank, or cascading storage, our solutions help you manage compressed air demands efficiently. Proper storage protects your equipment by preventing sharp pressure changes within the system.

SECCANT

SECCANT adsorption dryers have been designed for continuous separation of water vapor from compressed air, thus reducing the dew point. Operation of the dryer requires two columns to operate alternatively. Adsorption takes place under pressure in the first column while the second column regenerates with a portion of the already-dried compressed air at ambient pressure.

BAUER'S TOTAL AIR TREATMENT SOLUTION



PX SERIES FILTERS

The PX Series Filters are highly efficient in removal of solid particles, water, oil aerosols, hydrocarbons, and other vapors from below specified admissible gases (fluids). To meet the required compressed gas (fluid) quality appropriate filter element must be installed into filter housing.

- **OPERATING TEMPERATURE[1]:**
  14 °F - 248 °F
  (-10 °C – 120 °C)

- **OPERATING PRESSURE:**
  0 – 1450, 3625, 6000 PSI
  0 – 100, 250, 414 BAR

› PX05

› PX10

FILTER ELEMENT TYPES

Filter Designation	Filter Type	Filter Material	ISO 8573:2010 class			Residual Oil Content*	Particle Retention	Operating Temperature Range
			Particle	Water	Total oil		Nominal	
P	Prefilter	Borosilicate micro fibres	3	–	–	–	99,9999% (1 µm)	+1.5...+80°C
M	Microfilter	Borosilicate micro fibres	2	–	–	< 0,1 mg/m³ *	99,9999% (1 µm)	+1.5...+80°C
F	Finefilter	Borosilicate micro fibres	1	–	–	< 0,01 mg/m³ *	99,9999% (1 µm)	+1.5...+80°C
A	Activated Carbon	Borosilicate micro fibres, activated carbon	1	–	1**	< 0,005 mg/m³	–	+1.5...+45°C

*Elements M and F do not remove oil vapor; values, therefore, are only valid for droplets and aerosols.
**Filter element A with activated carbon: For removing small residual amounts of oil vapor, e.g. downstream SECCANT-A or P filter (with activated carbon cartridge). Max. input concentration 0.1 mg/m3 oil vapor and max. 0.01 mg/m3 oil droplets and oil aerosols. It should not be used if the gas is saturated with oil vapor. Regular replacement of the element is necessary after 6 months at the latest. Use a separate activated carbon filter for oil vapor removal from normally saturated gases.

(1) Actual operating temperature depends on sealing material and type of filter element.

FILTER FOOTPRINT

PX05:

DIMENSIONS H1 X W1 X H2 X W2 inches (mm)

› 7.2” x 3.9” x 1.2” x 4” (183.5mm x 98mm x 31mm x 104mm)

PX07:

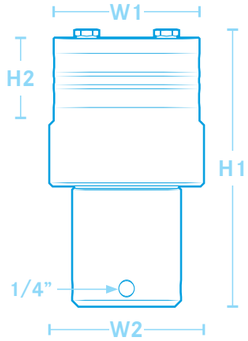
DIMENSIONS H1 X W1 X H2 X W2 inches (mm)

› 9” x 4.6” x 1.7” x 5” (230mm x 118mm x 44mm x 129mm)

PX10:

DIMENSIONS H1 X W1 X H2 X W2 inches (mm)

› 10” x 4.6” x 1.7” x 5” (254mm x 118mm x 44mm x 129mm)



MAINTENANCE

Replace the filter element at least every 12 months or follow the instructions for the specific filter element. For detailed maintenance instructions, please follow the installation and operating manual.

TECHNICAL DATA

Model	Pipe Size	Filter Element	Flow Capacity		Volume
	in		scfm	m³/h	l
PX05	3/8	F05	494.4	840	0.20
PX07	1/2	F07	918	1560	0.40
PX10	3/4	F10	1380	2340	0.48

Flow capacity at 100 – 420 bar(g), 20°C
Standard is BSP pipe connection, other pipe connection on request.

SYSTEM AIR QUALITY SPECIFICATIONS AT SYSTEM DISCHARGE

ISO8573-1:2010 CLASS	Solid Particulate			Water		Oil
	Maximum number of particles per m³			Mass Concentration	Vapor Pressure Dewpoint	Liquid	Total Oil (aerosol liquid and vapor)
	0.1 - 0.5 micron	0.5 - 1 micron	1 - 5 micron	mg/m³		g/m³	mg/m³
As specified by the equipment user or supplier and more stringent than Class 1							
0	≤ 20.000	≤ 400	≤ 10	–	≤ -70	–	0.01
1	≤ 400.00	≤ 6.000	≤ 100	–	≤ -40	–	0.1
2	–	≤ 90.00	≤ 1.000	–	≤ -20	–	1
3	–	–	≤ 10.000	–	≤ +3	–	5
4	–	–	≤ 100.000	–	≤ +7	–	–
5	–	–		–	≤ +10	–	–
6	–	–	–	≤ 5	–	–	–
7	–	–	–	5-10	–	≤ 0.5	–
8	–	–	–	–	–	0.5 - 5	–
9	–	–	–	–	–	5 - 10	–
X	–	–	–	> 10	–	> 10	> 10

WATER-OIL SEPARATORS

The WOS Series water oil separators are versatile and adaptable. They have been specifically developed to separate lubricant oil from condensate and compressed air systems. If you require separation for any other technical gas, please contact us or your local dealer for further assistance.

The WOS separators efficiently remove oil from condensate, ensuring clean and safe drainage. Treated condensate can be drained into public sewers, provided local directives and laws are adhered to. Always check local regulations before draining cleaned condensate. Our separators can handle any type of oil and work seamlessly with any type of condensate drain, meeting your specific requirements.

- **OPERATING TEMPERATURE:**
  35 – 113°F (max. 149°F)[3]
  (1.5 - 45°C (max 65°C))
- **OPERATING MEDIA:**
  Condensate (air, water, oil);
  Non-aggressive;
  Not suitable for emulsion
- **RESIDUAL OIL CONTENT:**
  Less than 10ppm

› WOS 4

› WOS 35

MAINTENANCE

It is recommended, that you do a test once per week to evaluate water quality (residual oil content). Instructions are attached in test set. Replace filter elements when oil content in water becomes too high or at least every twelve months. Before installing new filter elements, interior of the device must be clean.

SERVICE INTERVAL

When first of the following parameters appears:

- 4000 operating hours of compressor[4]
- 12 months regardless compressor operating hours
- Oil concentration in outlet reaches concentration determined with local directives and laws.

(1) For any other technical gas please contact us or your local dealer
(2) Before draining cleaned condensate to public sewers check local directives and laws.
(3) Max. operating temperature is 65°C, but when temperature is over 45°C, performance may decrease.
(4)Max. operating temperature is 65°C, but when temperature is over 45°C, performance may decrease.

HOUSING FOOTPRINT

WOS-4:

DIMENSIONS L X W X H inches (mm)

- 9.6” x 16.4” x 16.2” (243mm x 416mm x 411mm)

WOS-8:

DIMENSIONS L X W X H inches (mm)

- 13.5” x 28.7” x 26.8” (343mm x 730mm x 680mm)

WOS-20:

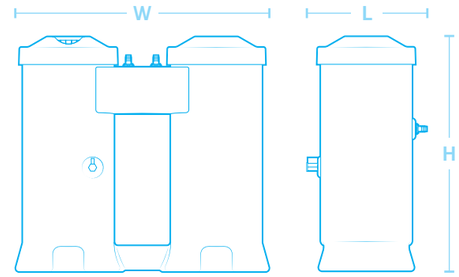
DIMENSIONS L X W X H inches (mm)

- 14.4” x 32.3” x 37” (366mm x 820mm x 940mm)

WOS-35:

DIMENSIONS L X W X H inches (mm)

- 15.2” x 37.8” x 44.8” (386mm x 960mm x 1137mm)



TECHNICAL DATA

Model	Max Oil Adsorption	Max FAD		Max Condensate Flow[1]
	kg	scfm	Nm³/min	l/h
Cold Climate Zone 15°C 60%RH				
WOS-4	2.89	170.22	4.82	2.3
WOS-8	6.01	353.55	10.01	4.7
WOS-20	14.64	861.73	24.4	11.4
WOS-35	25.4	1495.07	42.34	19.8
Mild Climate Zone 25°C 60%RH				
WOS-4	2.43	142.8	4.04	3.4
WOS-8	3.4	296.6	8.4	7.1
WOS-20	12.28	722.92	20.47	17.2
WOS-35	21.31	1254.24	35.52	29.8
Hot Climate Zone 40°C 100%RH				
WOS-4	1.23	72.32	2.05	6.3
WOS-8	2.55	150.21	4.25	13.1
WOS-20	6.22	366.12	10.37	32
WOS-35	10.79	635.21	17.99	55.6

Model	Number of inlet connections	Number of outlet connection	Number of Polypropylene (PP) element(s)	Number of Active Carbon (AC) element(s)
Connection Type: Hosetail for pipe Ø int. 10 mmv				
WOS-4	1	1	1	1
WOS-8	2	1	1	1
WOS-20	2	1	1	1
WOS-35	4	1	2	2

(1) Max condensate volume per condensate drain single discharge is 0.250 ltr.

WATER-OIL SEPARATORS

WOSm water oil separators have been specifically developed to separate lubricant oil from condensate generated in compressed air systems. Due to patented technology, regular service can be done in 30 seconds without cleaning. Separation begins in the “cyclonic depressurization chamber” and continues in the “filter cartridge.” When the “filter cartridge” is fully saturated, you simply unscrew the complete cartridge and replace it with a new one. All oil from condensate stays in the cartridge, and all remaining condensate can be drained into sewage while complying with the environmental laws. Worn cartridges can be sealed with a plastic cover and disposed of according to local directives and laws.

› **OPERATING TEMPERATURE:**
35 – 113°F (max. 149°F)[1]
(1.5 - 45°C (max 65°C))

› **OPERATING MEDIA:**
Condensate (air, water, oil);
Non-aggressive;
Not suitable for emulsion

› **RESIDUAL OIL CONTENT:**
Less than 20ppm

› WOS m1

› WOS m2

(1) Max. operating temperature is 65°C, but when temperature is over 45°C, performance may decrease.

MAINTENANCE

It is recommended, that you do a test once per week to evaluate water quality (residual oil content). Instructions are attached in test set. Replace filter elements when oil content in water becomes too high or at least every twelve months. Before installing new filter elements, interior of the device must be clean.

SERVICE INTERVAL

When first of the following parameters appears:
- 4000 operating hours of compressor[2]
- 12 months regardless compressor operating hours
- Oil concentration in outlet reaches concentration determined with local directives and laws.

(2) At compressor oil carryover 2,5mg/m3. Lower/higher oil carry over means proportionally longer/shorter lifetime (e.g. if oil carryover is 5mg/m3 lifetime reduces to 2000 operating hours).

CONNECTION POINTS

Model	Number of inlet connections	Number of outlet connection
Connection Type: Push-in fitting for hose 8mm		
WOSm1	1	1
WOSm2	1	1

HOUSING FOOTPRINT

WOSm1:

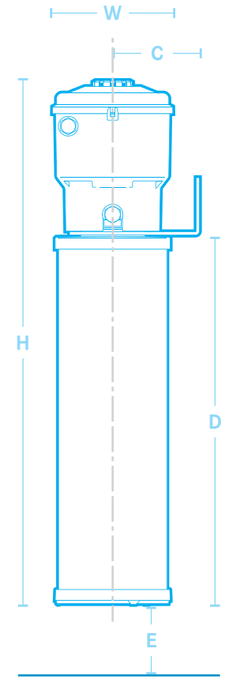
DIMENSIONS H X W X C X D X E inches (mm)

- 19” x 4.17” x 3.15” x 13.2” x 1.97”
(483mm x 106mm x 80mm x 335mm x 50mm)

WOSm2:

DIMENSIONS H X W X C X D X E inches (mm)

- 13.5” x 4.17” x 3.15” x 26.4” x 1.97”
(816mm x 106mm x 80mm x 670mm x 50mm)



TECHNICAL DATA

Model	Max Oil Adsorption	Max FAD		Max Condensate Flow[1]
	g	scfm	Nm³/min	l/h
Cold Climate Zone 15°C 60%RH				
WOSm1	740	43.05	1.23	0.57
WOSm2	1520	88.9	2.54	1.19
Mild Climate Zone 25°C 60%RH				
WOSm1	650	37.8	1.08	0.90
WOSm2	1340	78.05	2.23	1.87
Hot Climate Zone 40°C 100%RH				
WOSm1	370	21.9	0.62	1.91
WOSm2	770	45.2	1.28	3.96

(1) Max condensate volume per condensate drain single discharge is 0.250 ltr.

BAUER IHP SERIES
HIGH PRESSURE DRYERS

The IHP Series utilizes a helical concentric tube-in-tube heat exchanger in conjunction with a centrifugal separator for separation of humidity in compressed air. This three-step process thoroughly removes condensed moisture from chilled, compressed air. This process provides separation efficiency in excess of 98% throughout the dryer's entire flow range.

- **PRESSURE:**
  400 to 6000 PSIG
  (20 BAR to 414 BAR)

- **FLOW RATE:**
  0 to 275 SCFM

› IHP-200-6000

› IHP-60-6000

STANDARD SCOPE OF SUPPLY

- Stainless steel tube-in-tube heat exchanger
- Refrigerant suction pressure gauge standard
- Discharge gauge[1]
- Inlet pressure gauge[2]
- Inlet temperature gauge[3]
- High efficiency separator and condensate drain
- R-134a refrigerant
- NEMA 1 standard
- Heavy-duty industrial powder coated cabinet with access panel

(1) IHP-125 to IHP-1000
(2) IHP-275 to IHP-1000
(3) IHP-275 to IHP-1000

AVAILABLE OPTIONS

- Various voltage options
- Water cooled condenser
- Condenser cleaner assembly
- Low ambient temperature protection[4]
- NEMA 4
- NEMA 4X

(4) Low ambient package brings ambient temperature down to 32 °F

TECHNICAL DATA

Model	Air Flow Rate	Weight		Footprint					
	Max			H		W		D	
	scfm	lbs	kg	in	mm	in	mm	in	mm
1450 PSIG (100 BAR), 5000 PSIG (345 BAR), 6000 PSIG (414 BAR)									
IHP-20	20	71	32	22	559	24	610	18	457
IHP-30	30	78	35	22	559	24	610	18	457
IHP-40	40	102	46	22	559	24	610	18	457
IHP-60	60	124	56	22	559	24	610	18	457
IHP-100	100	162	73	30	762	36	914	25	635
IHP-125	125	240	109	30	762	36	914	25	635
IHP-200	200	345	156	30	762	36	914	25	635
IHP-275	275	567	257	45	1143	34	864	45	1143

REGENERATIVE ABSORPTION DRYER

SECCANT adsorption dryers have been designed for continuous separation of water vapor from compressed air, thus reducing the dew point. Operation of the dryer requires two columns to operate alternatively. Adsorption takes place under pressure in the first column while the second column regenerates with a portion of the already-dried compressed air at ambient pressure. The robust design enables efficient and reliable operation, fast installation, and simple maintenance.

› SECCANT 1100/250

STANDARD SCOPE OF SUPPLY

- 2 drying filters with molecular sieve
- 3 × Pre-filter (with automatic condensate drain) and 1 × after filter (PX-filter)
- Automatic switchover device with pressure compensation
- Solenoid valves, pressure gauge
- Silencer for noise reduction at the regeneration air outlet
- Electronic control Siemens Logo
- Power supply: 230 V, 50/60 Hz
- Pressure vessel with activated carbon for oil removal (option)

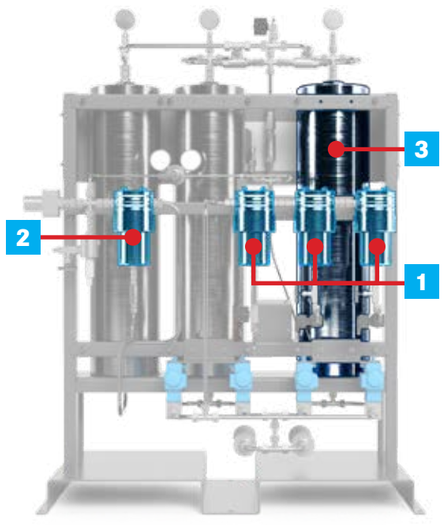
AVAILABLE OPTIONS

- **Oil removal**
  Additional pressure vessel with activated carbon to remove hydrocarbons (oil vapor) from the dried air
- **Dew point sensor**
  Dew point sensor with measurement chamber
- **Interface module plus**
  Modbus TCP/IP, Profinet TCP/IP, Web service access, and 4-20 mA output of the dew point sensor (only in combination with an added dew point sensor)
- **Start up device** (Pressure maintaining valve)[1]
  3/8“ (refer to outlet connection dryer)
  1/2” (refer to outlet connection dryer)
- **Safety valve**
  To be mounted on site upstream of the SECCANT, if not already present (e.g. on the compressor)

1 3 x PX Pre-Filter

2 PX Post-filter

3 Activated Carbon Tower



(1) Recommended option! To provide minimum operating pressure inside the dryer. Otherwise, in case of lower pressure downstream, the dryer can not reach the confirmed air/gas quality

TECHNICAL DATA

Model	Connection[4]	Inlet Flow[1]		Outlet Flow[2]		Footprint						Weight		Volume	Filter
						H		W		D					
	in	SCFM	Nm³/h	SCFM	Nm³/h	in	mm	in	mm	in	mm	lbs	kg	L	
725 PSIG (50 BAR)															
SECCANT 055/50	G 3/8”	35	55	33	53.3	47.2	1200	31.5	800	22.8	580	287	130	3.2	PX 07
SECCANT 110/50	G 3/8”	69	110	66	106.7	49.2	1250	31.5	800	22.8	580	331	150	6.7	PX 07
SECCANT 165/50	G 3/8”	102	165	100	160	61	1550	31.5	800	22.8	580	375	170	10.4	PX 07
SECCANT 275/50	G 3/8”	171	275	166	266.7	66.9	1700	37	940	27.6	700	573	260	17.4	PX 07
SECCANT 385/50	G 1/2”	240	385	233	373.4	66.9	1700	37	940	27.6	700	705	320	25.3	PX 07
SECCANT 550/50	G 1/2”	342	550	332	533.5	75.6	1920	37	940	27.6	700	904	410	32.4	PX 10
SECCANT 715/50	G 1/2”	445	715	432	693.5	88.6	2250	37	940	27.6	700	1014	460	44.2	PX 10
1450 PSIG (100 BAR)															
SECCANT 055/100	G 3/8”	35	55	33	53.3	49.2	1250	31.5	800	22.8	580	276	125	1.6	PX 05
SECCANT 110/100	G 3/8”	69	110	66	106.7	53.2	1350	31.5	800	22.8	580	375	170	3.6	PX 05
SECCANT 165/100	G 3/8”	102	165	100	160	65	1650	31.5	800	22.8	580	441	200	5.1	PX 05
SECCANT 275/100	G 3/8”	171	275	166	266.7	61	1550	31.5	800	23.6	600	463	210	8.3	PX 05
SECCANT 385/100	G 1/2”	240	385	233	373.4	57.5	1460	37	940	26.8	680	595	270	11.8	PX 07
SECCANT 550/100	G 1/2”	342	550	332	533.5	66.9	1700	37	940	26.8	680	639	290	16.8	PX 07
SECCANT 715/100	G 1/2”	445	715	432	693.5	70.9	1800	37	940	27.6	700	838	380	22	PX 07
SECCANT 880/100	G 1/2”	548	880	531	853.6	72.8	1850	37	940	26.8	680	1058	480	28	PX 07
3625 PSIG (250 BAR)															
SECCANT 055/250	G 3/8”	35	55	33	53.3	39.4	1000	31.5	800	17.7	450	209	95	0.8	PX 05
SECCANT 110/250	G 3/8”	69	110	66	106.7	53.5	1360	31.5	800	17.7	450	298	135	1.6	PX 05
SECCANT 165/250	G 3/8”	102	165	100	160	63	1600	31.5	800	17.7	450	320	145	2.2	PX 05
SECCANT 275/250	G 3/8”	121	275	166	266.7	59.1	1500	31.5	800	17.7	450	397	180	3.6	PX 05
SECCANT 385/250	G 1/2”	240	385	233	373.4	55.1	1400	37	940	25.6	650	551	250	5.2	PX 07
SECCANT 550/250	G 1/2”	342	550	332	533.5	59.1	1500	37	940	25.6	650	661	300	7	PX 07
SECCANT 715/250	G 1/2”	445	715	432	693.5	59.1	1500	37	940	25.6	650	882	400	9.3	PX 07
SECCANT 880/250	G 1/2”	548	880	531	853.6	61	1550	37	940	25.6	650	1014	460	11.7	PX 07
SECCANT 1100/250	G 1/2”	635	1100	665	1067	63	1600	37	940	25.6	650	1279	580	14.5	PX 07
SECCANT 1320/250	G 1/2”	822	1320	998	1280	61	1550	39.4	1000	27.6	700	1367	620	17.6	PX 07
SECCANT 1540/250	G 1/2”	960	1540	931	1494	65	1650	39.4	1000	27.6	700	1367	620	21.5	PX 07
6000 PSIG (414 BAR)															
SECCANT 110/420	G 3/8”	69	110	66	106.7	44.1	1120	31.5	800	17.7	450	265	120	1	PX 05
SECCANT 165/420	G 3/8”	102	165	100	160	53.5	1360	31.5	800	17.7	450	298	135	1.6	PX 05
SECCANT 275/420	G 3/8”	171	275	166	266.7	57.1	1450	31.5	800	22.8	580	419	190	2.5	PX 05
SECCANT 385/420	G 1/2”	240	385	233	373.4	53.2	1350	37	940	22.8	580	595	270	3.3	PX 07
SECCANT 550/420	G 1/2”	342	550	332	533.5	54.3	1380	37	940	25.6	650	683	310	4.5	PX 07
SECCANT 715/420	G 1/2”	445	715	432	693.5	57.1	1450	37	940	25.6	650	970	440	6.1	PX 07
SECCANT 880/420	G 1/2”	548	880	531	853.6	48.4	1230	37	940	25.6	650	937	425	7.4	PX 07
SECCANT 1100/420	G 1/2”	685	1100	665	1067	57.1	1450	37	940	25.6	650	1323	600	10	PX 07
SECCANT 1320/420	G 1/2”	822	1320	798	1280	57.1	1450	39.4	1000	35.4	900	1874	850	11.4	PX 07
SECCANT 1540/420	G 1/2”	960	1540	931	1494	59.1	1500	39.4	1000	35.4	900	1764	800	14.3	PX 07
SECCANT 1760/420	G 1/2”	1097	1760	1063	1707	57.1	1450	39.4	1000	35.4	900	2646	1200	15.3	PX 07

(1) Refers to 1bar(a) and 20°C, at max. operating pressure, inlet temperature 35°C and pressure dew point at outlet -20°C.
(2) Purge air requirements depend on actual operating conditions.
(3) Volume is the net volume of a single column.
(4) Threads of the dryer are female

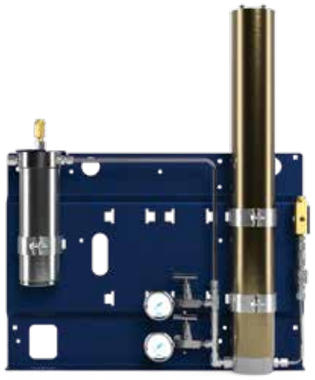
Dimensions and weight are valid for standard configurations without optional oil removal (AC)

P-FILTERS

A P-filter system, if required, can be installed downstream of the final separator and available B KOOL. P-filter systems can be tailored to remove specific or a variety of contaminants and can achieve an atmospheric dew point of -94º F. These systems work by the process of adsorption which is safe, effective, efficient, and economical. P-FILTER systems use replaceable cartridge(s) that makes operation and maintenance clean, safe, and simple.

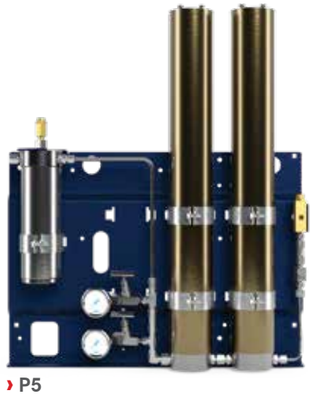
P-filter systems have no moving parts, do not require power or lose any of the compressed medium for purging. The only required maintenance is to replace the cartridge(s) after their service life has expired. P-filter Systems are available for BAUER high pressure compressors and boosters up to 40 scfm with operating pressures from 1300 to 7000 psig.

All BAUER cartridges process the compressed medium to comply with the quality requirements for industrial air and gases according to DIN ISO 8573-1 Class 2 for oil content and Class 3 for moisture content. All separator and filter chambers are made of a high-strength, fatigue and corrosion-resistant material. All machining is done in-house to assure the closest tolerances and highest quality. The final product is stamped with material lot and production numbering for traceability. The entire process and the final product is supervised and approved by TÜV, an internationally recognized independent inspection agency.



› P2

› P42



› P5

› P10

› P0 TRIPLEX

› P31 SUPER TRIPLEX

SECURUS

SECURUS II ensures 100% utilization of the air processing cartridges, because the moisture sensor is embedded directly in the molecular sieve. The SECURUS cartridge, with its moisture sensor, is the last cartridge in the air processing system. SECURUS II is powered by the PLC Control System and provides for automatic warning and shutdown when the SECURUS cartridge becomes saturated. The SECURUS II can be mounted locally to the SECURUS cartridge chamber or to the compressor's control panel. SECURUS II is available for working pressures from 2000–6000 psig and flow rates to 125 scfm.

› **WORLDWIDE LEADER:**
- Compressors
- Purification and filtration

› **ANODIZED ALUMINUM FILTER CARTRIDGE:**
- Filter cartridge end caps are machine crimped
- Eliminating glues/friction welding

› **ANODIZED ALUMINUM FILTER CHAMBERS:**
Each chamber and plug assembly are serialized to assure system traceability

TECHNICAL DATA

Purification	Number and Type of Cartridges			Processing Capacity
	Dryer	Purification	SECURUS	cubic ft $(ft)^3$
P0		Combined	Combined	3200
P1	-	1	-	15,000
P2	-	1	-	40,000
P2 SECURUS	-	-	1	67,000
P4	1	1	-	60,000
P5	1	1	-	90,000
P5 SECURUS	1	-	1	150,000
P10	2	1	-	140,000
P10 SECURUS	2	-	1	230,000
P31	-	Combined	Combined	11,760
P41 SECURUS	-	-	1	47,000
P42 SECURUS	1	-	1	107,000
P43 SECURUS	2	-	1	164,000

STORAGE

When an application requires storage, either in the form of a single cylinder or multiple cylinders, arranged either for bulk or banks of cascading, a properly sized storage system offers many benefits to the compressed air/gas system.

The purpose of storage is to serve as a reservoir to handle constant, sudden or unusually high demands for air/gas that can exceed the capacity of the compressor.

Storage protects the compressor from the direct demand of the system as well as serving to dampen or eliminate pressure pulsations to the system. Contact BAUER for sizing storage with multiple banks for cascading.

BAUER is knowledgeable in the application of storage to medium and high pressure applications. We offer storage systems that meet the code requirements of the ASME Section VIII, Division 1 latest edition for non-corrosive service only and ISO/UN.

› ISO/UN Storage

› ASME Storage

BULK STORAGE

Bulk storage for limiting the number of compressors starts to 4 times per hour can be calculated by the following formula:

VR = 58 x (QC / ΔP)

- VR = Volume of storage, cubic feet water volume
- QC = Capacity of the compressor, standard cubic feet per minute (scfm)
- ΔP = Approximate dead band of the final pressure switch, pounds per square inch (psig)

Multiple cylinders can be used for applications that require a large volume of storage.

Contact BAUER for sizing storage with multiple banks for cascading.

TECHNICAL DATA

Model	Pressure Ratings	Water Volume		Air Capacity At Working Pressure	Dimensions*		Weight
	Working/Test				Outer Diameter	Length	
	psig	in3	f3	f3	in		lbs
ASME							
ASME 5000	5000/10500	2590	1.47	439	9.62	54	400
ASME 6000	6000/10500	2590	1.47	491	9.62	54	400
ISO/UN							
ISO/UN 4500	4500/6750	2750	1.59	444	9.31	55	144
ISO/UN 5000	5000/7500	2750	1.59	472	9.38	55	158
ISO/UN 6000	6000/9000	2640	1.53	509	9.28	55	188

* Dimension includes cylinder valve on ISO/UN cylinders.

LIFECYCLE PERFORMANCE

BAUER is committed to the lifecycle performance of its customers

PARTS

OEM PARTS WARRANTY

RAPID DELIVERY

QUALITY AND RELIABILITY

Our factory-original replacement parts assure you that when maintenance or repair is performed, you are restoring the unit to its original specifications and performance.

PARTS: COMPATIBILITY

We configure our designs with interchangeability and our end user in mind. You can count on parts being available for all BAUER models.

PartsSales@BauerComp.com or **1-(844)-500-5822**

7 PLUS, OVER 10,000 OEM PARTS

1. Purification
2. Gaskets and Seals
3. Lubricants
4. Fill Hose and Assemblies
5. Valves
6. Air Intake Filters
7. All 10,000+ Parts

BAUER HELPDESK

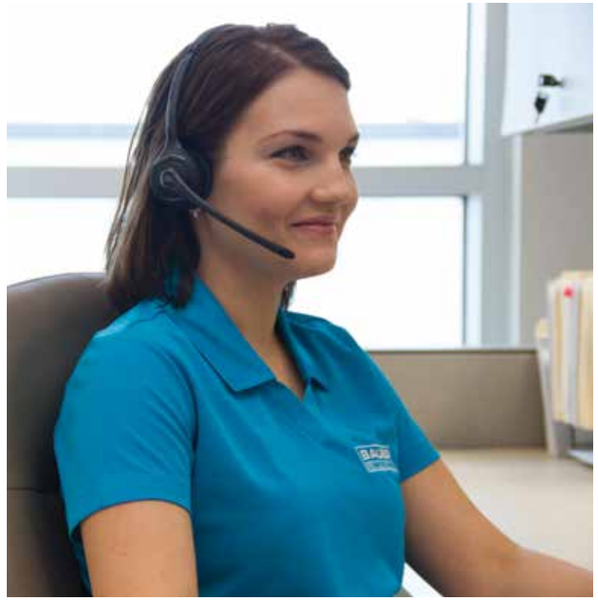
24-7 PHONE TECH SUPPORT

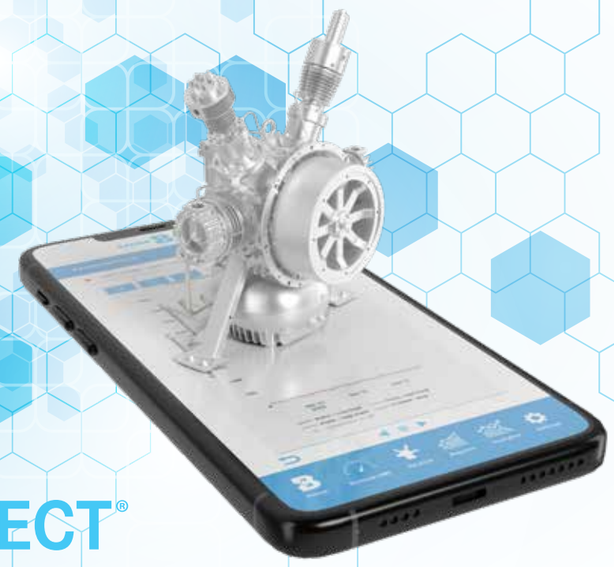
LIFECYCLE PERFORMANCE

TRAINING TOPICS

Total customer satisfaction is our top priority. BAUER provides 24-7 phone tech and **troubleshooting** support at our BAUER Helpdesk. Our support continues throughout our warranty period and beyond.

››› For BAUER Helpdesk please email:
CustomerService@BauerComp.com
or call at:
1-(844)-500-5822





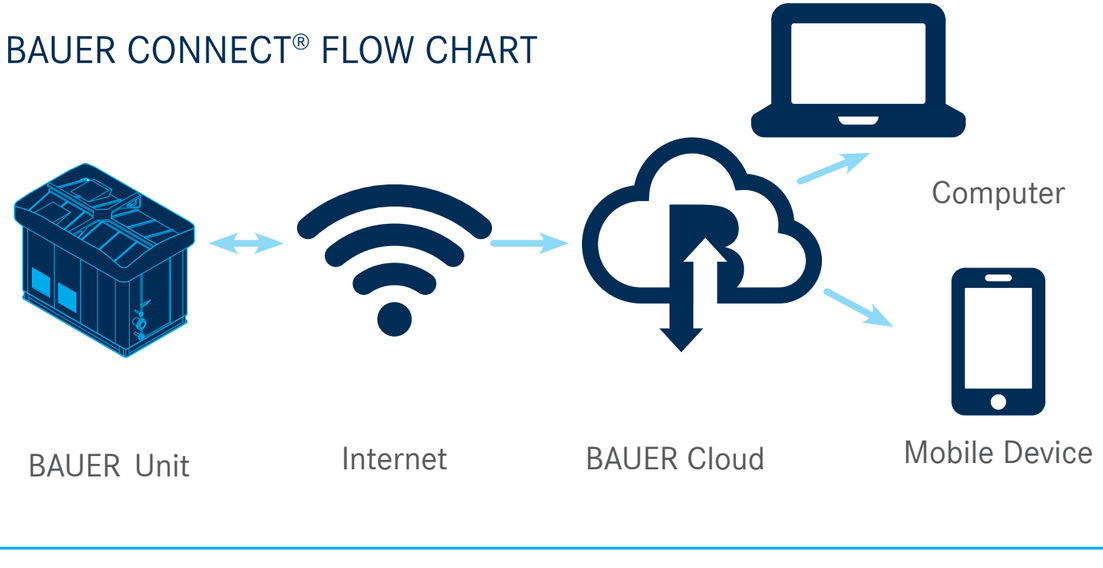
IOT REMOTE TELEMETRY AND CONTROL

BAUER CONNECT® is an app and internet-based IoT solution that allows BAUER customers to remotely monitor - and control - the performance of the entire BAUER system through any wireless mobile device or computer; anytime, anywhere.

Key Features: allow customers to increase efficiency and productivity, save time, do more with fewer resources, enjoy lower operational costs, and have total flexibility with a solution tailored specifically for the end-user.

BAUER CONNECT® - Connection that matters.

BAUER CONNECT® FLOW CHART



BAUER REMOTE HMI

The BAUER Remote HMI function allows factory-trained technical personnel to remotely control the BAUER system via the BAUER CONNECT® App with the same functionality as if one were standing in front of the actual unit.

MOBILE DASHBOARDS

BAUER CONNECT® App will also display a real-time graphical display of the entire system (SCADA view). The Mobile Dashboard feature provides information such as compressor system status, error log, critical pressures and temperatures, and volume of air dispensed in storage information, etc.

NOTIFICATIONS

The BAUER CONNECT® Mobile App will send push notifications if certain critical parameters of the BAUER system fall outside of normal operating range, or if triggered by a system alert. This ensures that essential personnel is notified immediately, thus allowing for pro-active intervention in a situation that could potentially be detrimental to the BAUER system as well as the customer's operation.

BAUER REPORTS

The BAUER Reports feature is a function that generates custom reports tailored to the specific needs of the customer. Customers can have access to historical data via a multitude of standard and customized reports.

BAUER PREDICTIVE ANALYTICS

This feature of BAUER CONNECT® provides a new pro-active dimension to perpetually maintaining customers' compressor systems at peak conditions with minimum downtime. BAUER's predictive analytics algorithm uses artificial intelligence to analyze the collected system information on the BAUER Cloud to predict upcoming maintenance requirements and preventative actions to avoid unplanned shutdowns.

TO LEARN MORE VISIT

bauer-connect.com

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