



COMPRESSED AIR TREATMENT
REDEFINED



FBP HL
FOOD BEV PHARMA

Parker Zander FBP - Food Beverage and Pharma.
Innovative engineering and technology.

Combining sophisticated OIL-X filtration technology with an optimised drying system, the FDA approved FBP is designed to deliver consistent high performance over an extended period. It also offers class 0 for total oil and is FDA Title 21 CFR approved. Air quality is third-party validated to ISO 7183 and ISO 8573-1. So you can be completely confident of your compressed air quality.

ISO 8573-1
CLASS 0
AIR

The FBP is third party validated by Lloyds register to provide ISO 8573-1 Class 0, with respect to total oil from both oil lubricated and oil free compressors, ensuring the highest quality air at the point of use for critical applications.

- › **Energy Saving Technology**
Standard on all units, it automatically adapts dryer operation to the ambient inlet conditions and compressed air demand, ensuring optimum energy consumption and full utilisation of the desiccant material.
- › **HMI display screen**
Large screen display offering a wealth of clear, useable, real-time information.
- › **High strength desiccant**
Cartridges are snowstorm filled with high strength desiccant that has a 5-year lifetime, providing consistent drying, re-generation and dewpoint.
- › **Pre-mounted filters**
New series OIL-X filters engineered to provide validated ISO 8573-1 performance.
- › **Threaded top end-cap**
Threaded end-cap enables the straightforward replacement of the desiccant cartridge.
- › **Purge setting**
The purge air can be set at minimum operating pressure easily, without the need for specialist tools.
- › **Corrosion protected column**
With a 10-year guarantee, to ensure a long operational life.
- › **Full bore internal flow paths**
Featuring optimised flow management for reduced pressure drop.
- › **Full bore cylinder valve system**
Low pressure loss valves provide full air flow and minimal back pressure, whilst robust cylinders extend service intervals.
- › **Base plate**
Designed for pallet trucks, allowing for easy, time-saving installation.
- › **3rd party certified for user peace of mind**
FDA Title 21 CFR
EC 1935/2004 Exemption

Product Selection

FBP	HL (Heatless)	050 055 060 065 070 075 080 085	G (BSPP) N (NPT)	16	E (EST)		
Series	Regeneration Type	Model	Dewpoint	Connections	Max Pressure	Power Supply	Controller
FBP	HL	065	-40	G	16	A	E
			-40°C (ISO8573-1:2010 Classification (Standard), Class 2.2.0)			A (AC)*	
			-70°C (ISO8573-1:2010 Classification (Option 1), Class 2.1.0)			D (DC)*	
			-20°C (ISO8573-1:2010 Classification (Option 2), Class 2.3.0)				

* AC-85 - 265v 1ph 50/60Hz. DC-24v direct connection.

Flow Rates

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure.

Model	Port Connection BSPP or NPT	Inlet Flow Rate			
		L/s	m ³ /min	m ³ /hr	cfm
FBP HL 50	½"	15	0.92	55	32
FBP HL 55	½"	19	1.17	70	41
FBP HL 60	½"	25	1.50	90	53
FBP HL 65	½"	31	1.84	110	65
FBP HL 70	¾"	42	2.51	150	88
FBP HL 75	1"	51	3.09	185	109
FBP HL 80	1"	61	3.67	220	129
FBP HL 85	1 ½"	83	5.01	300	177

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures, apply the correction factors shown below.

Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the minimum pressure, maximum temperature and maximum flow rate of the installation. To select a dryer, first calculate the MDC (Minimum Drying Capacity) using the formula below then select a dryer from the flow rate table above with a flow rate equal to or above the MDC. **Minimum Drying Capacity = System Flow x CFIT x CFAT x CFP x CFD**

CFIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	25	30	35	40	45	50
	°F	77	86	95	104	113	122
Correction Factor		1.00	1.00	1.00	1.04	1.14	1.37

CFAT - Correction Factor Maximum Ambient Temperature

Maximum Ambient Temperature	°C	25	30	35	40	45	50
	°F	77	86	95	104	113	122
Correction Factor		1.00	1.00	1.00	1.00	1.00	1.00

CFP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		1.60	1.33	1.14	1.00	0.89	0.80	0.73	0.67	0.62	0.57	0.53	0.50	0.47

CFD - Correction Factor Dewpoint

Pressure Dewpoint	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		0.91	1	2.00

Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (standard)	Electrical Supply (optional)	Filter Thread Connections	Noise Level dB(A)
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				
FBP HL 50-85	4	58	16	232	5	41	50	122	55	131	85 - 265V 1ph 50/60Hz	24V DC	BSPP or NPT	<75

OIL-X Pre-Mounted Filters

Filtration Position	Inlet	Inlet	Outlet	Outlet
Filtration Grade	Grade A0	Grade AA	Grade A0	Grade AA
Filtration Type	Coalescing	Coalescing	Dry Particulate	Dry Particulate
Particle Removal (inc water & oil aerosols)	Down to 1 micron	Down to 0.01 micron	Down to 1 micron	Down to 0.01 micron
Maximum Remaining Oil Content at 21°C	0.5 mg/m ³ (0.5 ppm(w))	0.01 mg/m ³ (0.01 ppm(w))	N/A	N/A
Filtration Efficiency	99.925%	99.9999%	99.925%	99.9999%

Weight & Dimensions

Model	Port Connection Inlet / Outlet	Dimensions						Weight		Inlet		Outlet	
		Height (H)		Width (W)		Depth (D)		kg	lbs	General Purpose Coalescing Filter	High Efficiency Coalescing Filter	General Purpose Dry Particulate Filter	High Efficiency Dry Particulate Filter
		mm	ins	mm	ins	mm	ins						
FBP HL 50	½"	1133	45	559	22	512	20.2	90	198	AOP015C	AAP015C	AOP015C	AAP015C
FBP HL 55	½"	1313	52	559	22	512	20.2	97	214	AOP015C	AAP015C	AOP015C	AAP015C
FBP HL 60	½"	1510	59	559	22	496	19.5	106	234	AOP020C	AAP020C	AOP020C	AAP020C
FBP HL 65	½"	1660	65	559	22	496	19.5	112	247	AOP020C	AAP020C	AOP020C	AAP020C
FBP HL 70	¾"	2020	80	559	22	496	19.5	132	291	AOP025D	AAP025D	AOP025D	AAP025D
FBP HL 75	1"	1595	63	559	22	682	27	184	406	AOP025E	AAP025E	AOP025E	AAP025E
FBP HL 80	1"	1745	69	559	22	682	27	196	432	AOP025E	AAP025E	AOP025E	AAP025E
FBP HL 85	1½"	2105	83	559	22	682	27	232	511	AOP030G	AAP030G	AOP030G	AAP030G

Pressure Vessel Approvals

Developed and Manufactured to DIN EN ISO 9001, DIN EN ISO 14001.

Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU and AS1210.

Approval to ASME VIII Div. 1 not required. For use with Compressed Air and Gaseous Nitrogen.

For more information please contact your local sales office or visit www.parker.com/gsf

Parker has a continuous policy of product development and although the company reserves the right to changes specifications, it attempts to keep customers informed of any alterations.

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