FBP Medium Flow Heatless Adsorption Dryers

Dryer Performance

Dryer Models	Dewpoint (Standard)		ISO8573-1:2010 Classification (Standard)	Dewpoint (Option 1)		ISO8573-1:2010 Classification (Option 1)	Dewpoint (Option 2)		ISO8573-1:2010 Classification (Option 2)
	°C	°F		°C	°F		°C	°F	
FBP HL	-40	-40	Class 2.2.0	-70	-100	Class 2.1.0	-20	-4	Class 2.3.0

ISO8573-1 Classifications when used with OIL-X pre / post filtration

Technical Data

Dryer Models	Minimum Operating Pressure		Maximum Operating Pressure		Minimum Operating Temperature		Maximum Operating Temperature		Maximum Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Type	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
FBP HL 050 - 085	4	58	16	232	5	41	50	122	55	131	85 - 265V 1ph 50/60Hz	24V DC	BSPP or NPT	<75

Flow Rates

Model	Pipe Size BSPP or NPT	Inlet Flow Rate			
		L/s	m³/min	m³/hr	cfm
FBP HL 050	½"	15	0.92	55	32
FBP HL 055	½"	19	1.17	70	41
FBP HL 060	½"	25	1.50	90	53
FBP HL 065	½"	31	1.84	110	65
FBP HL 070	¾"	42	2.51	150	88
FBP HL 075	1"	51	3.09	185	109
FBP HL 080	1"	61	3.67	220	129
FBP HL 085	1½"	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 maximum (summer) inlet temperature, maximum (summer) ambient temperature, minimum inlet pressure, required outlet dewpoint 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 CFMIT x CFMAT x CFMIP x CFOD

CFMIT - 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

CFMAT - Correction Factor Maximum Ambient Temperature

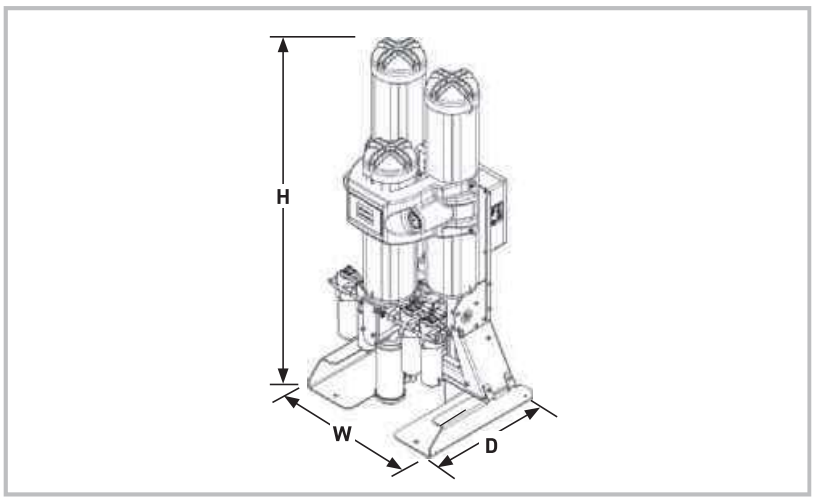
Maximum Ambient Temperature	°C	25	30	35	40	45	50
	°F	77	86	95	104	113	122
Correction Factor		1.00	1.00	1.00	1.00	1.00	1.00

CFMIP - 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

CFOD - Correction Factor Outlet Dewpoint

Outlet Dewpoint	°C	-20	-40	-70
	°F	-4	-40	-100
Correction Factor		0.91	1.00	2.00



Weights & Dimensions

Model	Dimensions						Weight	
	Height (H)		Width (W)		Depth (D)			
	mm	ins	mm	ins	mm	ins	kg	lbs
FBP HL 050	1133	45	559	22	512	20.2	90	198
FBP HL 055	1313	52	559	22	512	20.2	97	214
FBP HL 060	1510	59	559	22	496	19.5	106	234
FBP HL 065	1660	65	559	22	496	19.5	112	247
FBP HL 070	2020	80	630	24.8	496	19.5	132	291
FBP HL 075	1595	63	630	24.8	682	27	184	406
FBP HL 080	1745	69	630	24.8	682	27	196	432
FBP HL 085	2105	83	630	24.8	682	27	232	511

Included Filtration

Model	Pipe Size BSPP or NPT	Dryer Inlet		Dryer Outlet		
		General Purpose Pre-filter	High Efficiency Filter	Oil Vapour Reduction Filter	General Purpose Dry Particulate Filter	High Efficiency Dry Particulate Filter
FBP HL 050	½"	AOP015C	AAP015C	Included	AOP015C	AAP015C
FBP HL 055	½"	AOP015C	AAP015C	Included	AOP015C	AAP015C
FBP HL 060	½"	AOP020C	AAP020C	Included	AOP020C	AAP020C
FBP HL 065	½"	AOP020C	AAP020C	Included	AOP020C	AAP020C
FBP HL 070	¾"	AOP025D	AAP025D	Included	AOP025D	AAP025D
FBP HL 075	1"	AOP025E	AAP025E	Included	AOP025E	AAP025E
FBP HL 080	1"	AOP025E	AAP025E	Included	AOP025E	AAP025E
FBP HL 085	1½"	AOP030G	AAP030G	Included	AOP030G	AAP030G

Parker Catalogue Numbers

Model	Catalogue Number -20°C PDP / -40°C PDP BSPP	Catalogue Number -70°C PDP BSPP
FBP HL 050	FBPHL050-40G16AE	FBPHL050-70G16AE
FBP HL 055	FBPHL055-40G16AE	FBPHL055-70G16AE
FBP HL 060	FBPHL060-40G16AE	FBPHL060-70G16AE
FBP HL 065	FBPHL065-40G16AE	FBPHL065-70G16AE
FBP HL 070	FBPHL070-40G16AE	FBPHL070-70G16AE
FBP HL 075	FBPHL075-40G16AE	FBPHL075-70G16AE
FBP HL 080	FBPHL080-40G16AE	FBPHL080-70G16AE
FBP HL 085	FBPHL085-40G16AE	FBPHL085-70G16AE