

Table 2 – Correction Factors for Compressed Air Inlet Temperature and Pressure

Inlet Pressure	80° F (27° C)	90° F (32° C)	Inlet Temperature 100° F (38° C)	110° F (43° C)	120° F (49° C)
300 psig to MWP 20 bar to MWP	1.49	1.19	1.00	0.83	.072

Table 4 – Correction Factors For Output Pressure Dew Point

Dew Point	ISO 8573.1 Class	Factor
38° F (3° C)	4	1.0
45° F (7° C)	5	1.2
50° F (10° C)	6	1.3

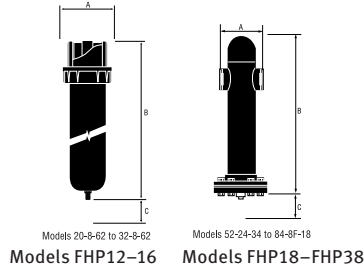


Table 3 – Correction Factors for Ambient Air Temperature

Ambient Temperature	Capacity Adjustment Factor
80° F (27° C)	1.12
90° F (32° C)	1.06
100° F (38° C)	1.00
110° F (43° C)	0.94
Water-cooled (85° F, 27° C Cooling Water)	1.15

Table 5 – Correction Factors For Electrical Frequency

60 Hz	1.00
50 Hz	0.83

Table 6 – FHP Filter Series High Pressure specification

Model Number	Max Operating Pressure PSIG (Bar)	Max Flow @ MOP SCFM (M ³ /H)	Flow @100 PSIG SCFM (M ³ /H)	In/Out Conn.	Dimensions in (mm)			Weight lb (kg)	FHP Series Replacement Elements		
					A*	B	C		Grade B	Grades C, D, E, F, G	Qty.
FHP12(grade B,C,E,F,G)	900 (62)	480 (840)	60 (105)	1" NPT/BSP	4.00 (102)	16.00 (406)	7 (171)	6 (2.7)	FHP12BE	FHP12(C,D,E,F,G)	1
FHP14(grade B,C,E,F,G)	900 (62)	800 (1355)	100 (170)	1" NPT/BSP	4.00 (102)	16.00 (406)	7 (171)	6 (2.7)	FHP14BE	FHP14(C,D,E,F,G)	1
FHP16(grade B,C,E,F,G)	900 (62)	2000 (3390)	250 (425)	1" NPT/BSP	5.13 (130)	32.44 (824)	7 (171)	21 (9.5)	FHP16BE	FHP16(C,D,E,F,G)	1
FHP18(grade B,C,E,F,G)	500 (35)	2805 (4985)	625 (1110)	3" NPT/BSP	10.25 (260)	40.63 (1032)	24 (610)	37 (16.6)	FHP18BE	FHP18(C,D,E,F,G)	1
FHP20(grade B,C,E,F,G)	700 (48)	4000 (6915)	625 (1110)	3" NPT/BSP	10.25 (260)	39.69 (1032)	24 (610)	128 (58.0)	FHP20BE	FHP20(C,D,E,F,G)	1
FHP22(grade B,C,E,F,G)	450 (31)	4050 (6885)	1000 (1700)	3" NPT/BSP	16.00 (406)	46.88 (1191)	24 (610)	270 (122.0)	FHP22BE	FHP22(C,D,E,F,G)	2
FHP24(grade B,C,E,F,G)	450 (31)	5060 (8605)	1250 (2125)	3" NPT/BSP	16.00 (406)	46.88 (1191)	24 (610)	270 (122.0)	FHP24BE	FHP24(C,D,E,F,G)	2
FHP26(grade B,C,E,F,G)	450 (31)	7595 (12790)	1875 (3158)	3" NPT/BSP	16.25 (413)	54.13 (1375)	24 (610)	294 (133.0)	FHP26BE	FHP26(C,D,E,F,G)	3
FHP28(grade B,C,E,F,G)	440 (30)	9900 (16870)	2500 (4250)	4" ANSI Flg	20.00 (508)	55.50 (1410)	24 (610)	403 (183.0)	FHP28BE	FHP28(C,D,E,F,G)	4
FHP30(grade B,C,E,F,G)	440 (30)	12375 (21075)	3125 (5310)	4" ANSI Flg	20.00 (508)	55.50 (1410)	24 (610)	405 (184.0)	FHP30BE	FHP30(C,D,E,F,G)	5
FHP32(grade B,C,E,F,G)	360 (25)	16350 (27770)	5000 (8490)	6" ANSI Flg	24.00 (610)	55.88 (1419)	24 (610)	524 (238.0)	FHP32BE	FHP32(C,D,E,F,G)	8
FHP34(grade B,C,E,F,G)	330 (23)	20695 (35110)	6875 (11670)	6" ANSI Flg	28.00 (711)	63.88 (1622)	24 (610)	693 (314.0)	FHP34BE	FHP34(C,D,E,F,G)	11
FHP36(grade B,C,E,F,G)	330 (23)	26340 (44680)	8750 (14850)	6" ANSI Flg	28.00 (711)	63.88 (1622)	24 (610)	700 (318.0)	FHP36BE	FHP36(C,D,E,F,G)	14
FHP38(grade B,C,E,F,G)	260 (18)	28380 (48370)	11875 (20175)	8" ANSI Flg	33.00 (838)	66.25 (1683)	24 (610)	980 (445.0)	FHP38BE	FHP38(C,D,E,F,G)	19

NOTE: Dimensions and weights are for reference only. Request certified drawings for construction purposes.

Table 7 – Inlet Pressure Correction Factors

To find the maximum flow at pressures other than the MOP, multiply 100 psi flow (@ 100 psig from table 1) by correction factor corresponding to minimum pressure at the inlet of the filter. Do not select filters by pipe size; use flow rate and operating pressure.

Minimum Inlet PSIG Pressure Bar	100	150	200	250	300	350	400	450	500	550	600	700	800	900
	6.9	10.3	13.8	17.2	20.7	24.1	27.6	31	34.5	37.9	41.1	48.3	55.2	62.1
Correction Factor	1.00	1.44	1.87	2.31	2.74	3.18	3.62	4.05	4.49	4.92	5.36	6.23	7.10	7.97

* Models FHP28 and larger delivered with flange

Example: To size a filter for 1000 scfm at a pressure of 500 psi: 1. Choose approximate filter size, FHP16 (grade B,C,E,F,G). 2. Multiply the rated flow at 100 psi by the correction factor (250 scfm x 4.49 = 1,122 scfm) 3. Compare maximum calculated flow (1,122 scfm) to the required flow (1,000 scfm) 4. If the calculated flow is greater than the required flow, the filter can be used. If the calculated flow is less than the required flow, repeat the sizing process with a larger filter.