



**CHF Series**  
High Pressure Filters  
480–28,380 SCFM

**NEW**



Engineered to Save

# Features

## CHF Series

Industries like PET blow molding, injection molding, aeronautical valve and control testing require dry and filtered compressed air. The need for high pressure equipment like the CHP Series High Pressure dryers and the CHF Series High Pressure filters has never been greater. The flexibility associated with the 5 grades of filtration in the CHF Series allow for complete customization when it comes to selecting the filtration level that best meets your application needs.



### ⇒ High Pressure Filtration

Water droplets are formed by the condensed water vapor present in ambient air. Solid particles come from ambient air contaminants like dust and from rusted, oxidized pipework. They can obstruct orifices used in laboratory testing procedures and cause pneumatic equipment to malfunction. CHF Series High Pressure filters remove water droplets and solid particles to 0.01 micron.



#### CHF Series Filters Offer 5 Grades of Filtration

##### Grade B Separator / Filter

Removes bulk liquid and particles to 3 micron. Maximum inlet liquid load: 25,000 ppm w/w

Ideal as a particulate prefilter for CHF Series High Pressure Refrigerated Dryers.



##### Grade C General Purpose

1 micron particulate filter

Ideal as the first afterfilter after a High Pressure Refrigerated dryer.



##### Grade E High Efficiency Oil Removal Filter

Eliminates oil aerosols to 0.008 ppm (0,001 mg/m<sup>3</sup>)

Maximum inlet liquid load 100 ppm w/w. This is the preferred “second afterfilter” for oil removal in high pressure systems



##### Grade F Maximum Efficiency Oil Removal Filter

eliminates oil aerosols to 0.0008 ppm (0,001 mg/m<sup>3</sup>)

Maximum inlet liquid load 100 ppm w/w. This is the preferred “second afterfilter” for oil removal in high pressure systems.



##### Grade G Oil Vapor Removal Filter

utilizes activated carbon to eliminate oil vapors to 0.003 ppm (0,004 mg/m<sup>3</sup>).

## High Pressure Filters Meet High Pressure Dryers

CHP Series high pressure refrigerated dryers are carefully engineered to provide consistent dew points of 30°F. Integral filtration, standard on all CHP Series models, removes bulk liquid up to 10 micron; solid particulates up to 3 micron; and oil droplets up to 5 ppm w/w (6 mg/m<sup>3</sup>). CHP high pressure dryers are a perfect compliment to CHF Series high pressure filters.



## CHF Series Specifications

Table 1

Model Number*	Max Operating Pressure PSIG (Bar)	Max Flow @ MOP SCFM (M <sup>3</sup> /H)	Flow @100 PSIG SCFM (M <sup>3</sup> /H)	In/Out Conn.	Dimensions in (mm)			Weight lb (kg)
					A**	B	C	
CHF12(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)
CHF14(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)
CHF16(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)
CHF18(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)
CHF20(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)
CHF22(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)
CHF24(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)
CHF26(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)
CHF28(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)
CHF30(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)
CHF32(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)
CHF34(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)
CHF36(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)
CHF38(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)

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

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.

\*Please reference CompAir Aftermarket Price Book for replacement element information.

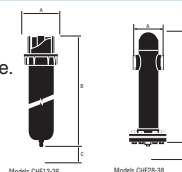


Table 2

Minimum Inlet PSIG Pressure Bar	100 6.9	150 10.3	200 13.8	250 17.2	300 20.7	350 24.1	400 27.6	450 31	500 34.5	550 37.9	600 41.1	700 48.3	800 55.2	900 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

Example: To size a filter for 1000 scfm at a pressure of 500 psi: 1. Choose approximate filter size, CHF16 (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.

# Aftermarket Parts & Lubricants

## *Protect the Investment in CompAir*

Regular maintenance and service of CompAir product is critical to the performance and longevity of the equipment. Only CompAir can provide the assurance that the investment will provide a lifetime of productivity.

## *Reliability*

Only CompAir can provide aftermarket parts and services that are engineered for use in CompAir products. The parts and lubricant have been tested under rigorous conditions at the factory to the highest quality standards.

## *Performance*

Only CompAir can provide aftermarket parts designed specifically for the CompAir product. Use of OEM parts ensures that the investment in CompAir will continue to perform year in and year out with the same reliability and efficiency.

## *Ease of Doing Business*

Only CompAir can provide the peace of mind of turning to one supplier and one source for all aftermarket needs. CompAir has the support network in place to handle all customer service, service and technical support needs.

## *Value*

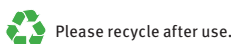
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