

Models 1B1 and 1B2 Cartridge Filter Housings



The 1B1 and 1B2 Model Cartridge Filter Housings, three-piece housings featuring center post construction, offer a choice of either cast iron or steel or 304 stainless steel as the materials of construction. The 1B1 and 1B2 Model Cartridge Filter Housings have flow rates of up to 16 GPM, and accept working pressures and temperatures up to 175 psig at 250°F. The 1B1 and 1B2 Model Cartridge Filter Housings are available as one- or two-high cartridge models.

APPLICABLE FILTER CARTRIDGES	
Micro-Klean® III (Series U78 and G78)	Micro-Wynd® II
Activated Carbon Cartridge	Betapure®
Betafine®	MPF®

DESIGN

- All models are available with or without a cartridge bypass valve (30 psid). The 1B2 Model, equipped with the cartridge bypass valve, is available only in cast iron and steel.

Options

- Mounting Bracket; order separately part number 35581-01.

STANDARD MODEL SPECIFICATIONS

Table 1 lists standard specifications for 1B1 and 1B2 Model Cartridge Filter Housings. On Table 1, note that Maximum Operating Pressure is the rating from the housing only. Actual filter operating temperature depends on temperature capability of the filter cartridge.

TABLE 1 - SPECIFICATIONS		
Operating Data	1B1	1B2
Maximum Operating Pressure & Temperature	175 psig @ 250°F	
Flow Rate	See Table 2.	
Basic Materials of Construction		
Head & Cover	Cast Iron & Steel	
Shell	Steel & Stainless Steel	
Centering Clip		
Center post		
Shell Gasket	Buna N	
Cap Nut Gasket	Fiber	
Connection Sizes		
Inlet/Outlet	¾" NPT	¾" NPT
Cartridge Capability	The models are available in one- or two-high configurations. See "Applicable Filter Cartridges" for a list of the cartridges used by the units.	
Options	Mounting bracket kit; order separately, 35581-01. Head gaskets are available in Neoprene, Viton, Teflon, EPR, or Rubber and Aramid Fiber; order separately.	

FEATURES	BENEFITS
<ul style="list-style-type: none"> Rugged cast iron and steel or long-wearing 304 stainless steel 	<ul style="list-style-type: none"> Provides broad process compatibility
<ul style="list-style-type: none"> Mounting Pads Drilled and Tapped on housing head 	<ul style="list-style-type: none"> Easily installed using optional bracket
<ul style="list-style-type: none"> Design- Three-piece housing. 	<ul style="list-style-type: none"> Quick, Clean, and Convenient Cartridge Change-out
<ul style="list-style-type: none"> Center post construction 	<ul style="list-style-type: none"> Quick and easy cartridge change-out

CARTRIDGE REQUIREMENTS

The 1B1 Model uses one filter cartridge; the 1B2 Model uses two filter cartridges. See “Applicable Filter Cartridges” for a list of the cartridges used by the units.

STANDARD MODEL DIMENSIONS

Table 2 gives dimensions in inches and shipping weight in pounds for the 1B1 and 1B2 Model Cartridge Filter Housings. To find a dimension, locate the model in the left column and the selected dimensions symbol (A-G) in the top row. The square where the row and column meet is the selected dimension.

TABLE 2. - DIMENSIONS				
Housing Model	A	B	C	Shipping Weight
1B1	12 7/8"	11 1/4"	4 1/4"	9 1/2
1B1 with return valve	12 7/8"	11 1/4"	4 1/4"	11 1/2
1B2	22 5/8"	21"	4 1/4"	10
1B2 with return valve	22 5/8"	21"	4 1/4"	12

HOUSING FLOW

Table 3 lists the maximum recommended flow rates in gallons per minute (GPM) for the 1B1 and 1B2 Model Filter Cartridge Housings. Use the data on Table 3 only as a guide to establish housing flow capability; do not use it for filter sizing. Once you know the flow rate for a selected cartridge, then use the table to check that the flow rate falls within the recommended guidelines.

Remember to take into account the amount of contaminant to be removed when selecting a filter.

FIGURE 1. - 1B1 and 1B2 MODELS

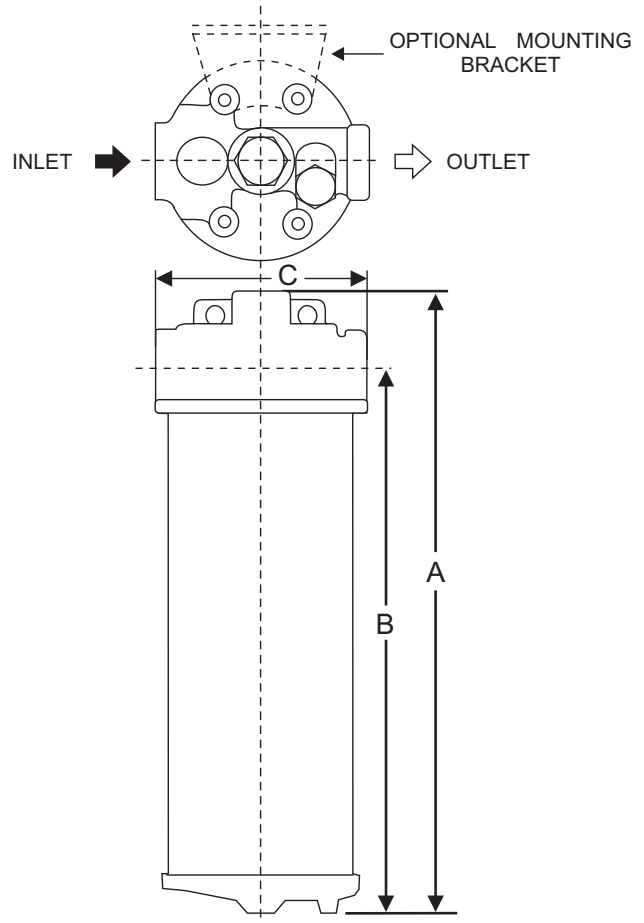


TABLE 3. - FLOW RATES

Housing Model	Inlet/ Outlet	Water	80 SSU	150 SSU	300 SSU	600 SSU	1000 SSU
1B1	3/4"	16	14	13	12	10	8
1B2	3/4"	16	14	13	1	10	8

REPLACEMENT PARTS LIST

Your Cuno dealer stocks replacement parts for your convenience. To order, specify a description of the item, its material, the quantity desired, and the part number. An (S) next to any part description indicates that Cuno suggests ordering a spare when you place your order. Table 4 gives complete ordering information.

TABLE 4. - REPLACEMENT PARTS LIST				
Description	Material	Quantity	Part Number 1B Model	
Head with Bypass	Cast Iron	1	34119-34	
Head without Bypass	304 S.S.		64896-34	
Head for Bypass	Cast Iron		34117-34	
Cover Assembly	Cast Iron		34236-01	
	304 S.S.		34236-03	
Centering Clip	Steel		34241-31	
	316 S.S.		34241-34	
Center post, 1B1	Steel		34238-32	
	303 S.S.		34238-38	
Center post, 1B2	Steel		34238-33	
	303 S.S.		34238-39	
Shell, 1B1	Steel		34237-32	
	304 S.S.		34237-38	
Shell, 1B2	Steel		34237-33	
	304 S.S.		34237-39	
Cap Nut (S)	Steel		34242-31	
	304 S.S.		34242-33	
Cap Nut Gasket (S)	Fiber		34240-46	
Shell Gasket (S), Standard	Buna N		2	34239-48
Shell Gasket (S), Optional	Rubber & Aramid Fiber			34239-50
	Neoprene	34239-51		
	Viton	34239-49		
	Teflon	34239-41		
	EPR	34239-75		
Bypass Gasket (S)	Copper & Aramid Fiber	26926-31		
Screw (S)	Brass	1	23370-31	
Ball (S)	Steel		32061-32	
Spring, 30 psid (S)	Steel		32167-32	
Mounting Bracket	Steel		35581-01	

1B1 & 1B2 MODEL ORDERING GUIDE

Plant Code 01

Product Code 020

HOUSING MODEL	BASIC CATALOG NUMBER	INLET/OUTLET NPT	HOUSING MATERIAL
1B1	40292-11 without bypass	3/4"	Cast Iron & Steel
1B1	40297-11 with bypass*		Cast Iron & Steel
1B1	40294-11 without bypass		304 S.S.
1B2	40292-12 without bypass	3/4"	Cast Iron & Steel
1B2	40297-12 with bypass*		Cast Iron & Steel
1B2	40294-12 without bypass		304 S.S.

*Cartridge bypass valve set for 30 psid setting.
Mounting bracket 35581-01, order separately.

WARRANTY

Seller warrants its equipment against defects in workmanship and material for a period of 12 months from date of shipment from the factory under normal use and service and otherwise when such equipment is used in accordance with instructions furnished by Seller and for purposes disclosed in writing at the time of purchase, if any. Any unauthorized alteration or modification of the equipment by Buyer will void this warranty. Seller's liability under this warranty shall be limited to the replacement or repair, F.O.B., point of manufacture, of any defective equipment or part which, having been returned to the factory, transportation charges prepaid, has been inspected and determined by

Seller to be defective. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR USE, OR ANY OTHER MATTER. Under no circumstances shall Seller be liable to Buyer or any third party for any loss of profits or other direct or indirect costs, expenses, losses or consequential damages arising out of or as a result of any defects in or failure of its products or any part or parts thereof or arising out of or as a result of parts or components incorporated in Seller's equipment but not supplied by the Seller.

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