

# Model 1M1 & 1M2 Series

## Industrial Filter Housings

3M Purification Inc.'s (3M PI) Model 1M1 and 1M2 housings are constructed from high grade plastic materials. The housing's two piece design allows for easy installation and cartridge change-out. The housing is available for one-high (9 3/4") cartridges (1M1) and two-high (19 1/2") cartridges (1M2) with transparent or opaque sumps. Both models have maximum pressure /temperature ratings up to 125 psig at 100°F with flow rates to 16 gpm.

### Features & Benefits

#### Plastic housing with talc-filled, polypropylene plastic head

- Durable and economic in a lightweight material

#### Sump attaches with ACME-style thread

- Simple, no-tools assembly for easy maintenance and clean-up

#### Choice of Sump material: Opaque Polypropylene or Transparent Isoplast®

- Compatible with a wide range of fluids

#### One-and two-high models available

- Flexible design

#### Double open ended cartridge connection

- Accommodates a wide range of filter cartridges
- Quick and simple filter cartridge change-out



Figure 1. 1M1 Housing

### Applications

Process Waters      Potable Water  
 Chemicals<sup>1</sup>

### HOUSING SPECIFICATIONS

Table 1 lists the product specifications, including physical dimensions and rated operating parameters, for the 1M1 and 1M2 filter housings

Table 1. - SPECIFICATIONS

SPECIFICATION DESCRIPTION	MODEL 1M1/1M2
Rated Max. Operating Pressure @ Max. Operating Temperature	125 psig @ 100°F
Approx. Shipping Weight (lbs.)	2.5/3.5
Inlet/Outlet	3/4" NPTF
Height (in.)	13.25" / 23"
Width (in.)	4.6
Bottom to Inlet/Outlet Center	12.375" / 22.125"
Cartridge Type	Double Open End
Cartridge Length	9.75"/ 19.5"

<sup>1</sup> Check with factory on compatibility for specific chemicals

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## MATERIALS OF CONSTRUCTION

1M1 and 1M2 filter housings are constructed from high grade materials. Table 2 lists the materials used in the manufacture of each model.

### HOUSING FLOW RATES

For reference only, the 1M1 and 1M2 housings have a maximum recommended water flow rate of 16 gpm. The filter cartridge used will dictate the housing size required.

### REPLACEMENT PARTS

Replacement parts for the 1M1 and 1M2 filter housings are available from your local 3M Purification Inc. distributor. Replacement parts for the 1M1 and 1M2 are listed in Table 3. Consult your local distributor to ensure proper replacement identification.

**Table 3. - REPLACEMENT PARTS FOR 1M1 AND 1M2 FILTER**

COMPONENT	MATERIAL	QTY.	PART #
Head	Polypropylene	1	69974-37
O-Ring	Buna N	1	63597-174
<b>1M1 Sump</b>			
Transparent	Isoplast	1	69811-42
Opaque	Polypropylene	1	69811-31
<b>1M2 Sump*</b>			
Transparent	Isoplast	1	64932-02
Opaque	Polypropylene	1	64932-01

\*1M2 Sump includes Centerpost

**Table 2. - MATERIALS OF CONSTRUCTION**

PRODUCT DESCRIPTION	MODEL	
	1M1	1M2
Head	Talc-Filled Polypropylene	
Sump		
Transparent	Isoplast® Engineered Thermoplastic Polyurethane Resin	
Opaque	Talc-Filled Polypropylene	
Centerpost	None Used	Polypropylene
Sump Gasket	Buna N	

**Table 4. - 1M1 & 1M2 MODEL ORDERING GUIDE \***

HOUSING MODEL*	BASIC CATALOG NUMBER	MOUNTING BRACKET
<b>1M2</b>		
Polypropylene Sump	47063-03	55836-01 Order Separately
Isoplast Sump	47063-01	
<b>1M2</b>		
Isoplast Sump	47063-04	
Isoplast Sump	47063-02	

\*Order filter cartridges separately

**CAUTION:** To reduce the risk associated with property damage due to leakage: Read and follow use instructions before installation and use of the system.

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