SELECTION CHART NO. 1 - HOUSING DIMENSIONS AND AIR FLOW CAPACITIES IN CFM

Notes
* Includes 3.00" for flanges.

NO. OF FILTERS HIGH	HEIGHT CODE	OVERALL HEIGHT* (INCHES)	FACE VELOCITY (FPM)		NO. OF FILTERS WIDE											
					1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6
					WIDTH CODE											
					05W	10W	15W	20W	25W	30W	35W	40W	45W	50W	55W	60W
					OVERALL WIDTH* (INCHES)											
					14.38	26.38	37.75	49.75	61.13	73.13	84.50	96.50	107.88	119.88	131.25	143.25
1/2	05H	14.75	500			1000		2000		3000		4000		5000		6000
1	10H	26.75	500		1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000
1 1/2	15H	39.13	500			3000		6000		9000		12000		15000		18000
2	20H	51.13	500	CFM	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000
2 1/2	25H	63.50	500			5000		10000		15000		20000		25000		30000
3	30H	75.50	500		3000	6000	9000	12000	15000	18000	21000	24000	27000	30000	33000	36000
3 1/2	35H	87.88	500			7000		14000		21000		28000		35000		42000
4	40H	99.88	500		4000	8000	12000	16000	20000	24000	28000	32000	36000	40000	44000	48000

SELECTION CHART NO. 2 - HOUSING LOCATION AND AIR FILTER SELECTION

HOUSING LOCATION

☐ INDOOR? ☐ OUTDOOR?

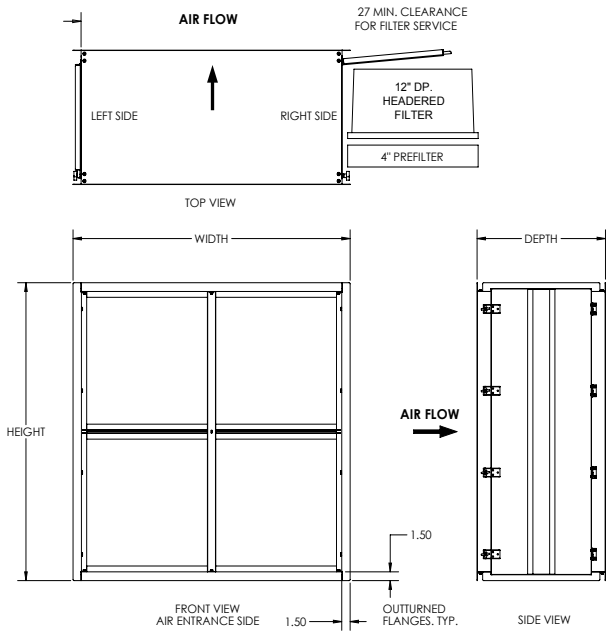
AIR FILTER SPECIFICATIONS

POS	CODE*	H X W X D	HEADER?	INITIAL PD**	FINAL PD**	GAUGE?
1	PRE	Enter Dimensions	NO	Enter Info	Enter Info	NO
2	PRE	Enter Dimensions	NO	Enter Info	Enter Info	NO
3	PRE	Enter Dimensions	NO	Enter Info	Enter Info	NO

NOTES * CODE: PRE (PREFILTER), SEC (SECONDARY FILTER, FIN (FINAL FILTER)

** IN W.C.

PLAN VIEWS



SELECTION CHART NO. 3 - OPTIONS

STANDARD OPTIONS

MATERIAL ALLOY

SEL	CODE	DESCRIPTION
○	GLV	GALVANIZED STEEL G60-G90
○	304	STAINLESS STEEL 304L
○	316	STAINLESS STEEL 316L

FINISH

SEL	CODE	DESCRIPTION
○	0	MILL FINISH
○	1	POWDER COAT WHITE
○	2	POWDER COAT BLACK
○	3	OTHER (PLEASE SPECIFY)

DOORS

SEL	CODE	DESCRIPTION
○	0	BOTH SIDES
○	1	LEFT SIDE ONLY
○	2	RIGHT SIDE ONLY

INSULATION

SEL	CODE	DESCRIPTION
○	0	NO INSULATION
○	1	DOOR INSULATION
○	2	BODY INSULATION
○	3	FULL INSULATION
○	4	WEATHER CAP ONLY

GAUGES

SEL	CODE	DESCRIPTION
○	0	NO GAUGE
○	1	ONE GAUGE LEFT SIDE
○	2	TWO GAUGES LEFT SIDE
○	3	THREE GAUGES LEFT SIDE
○	4	ONE GAUGE RIGHT SIDE
○	5	TWO GAUGES RIGHT SIDE
○	6	THREE GAUGES RIGHT SIDE

SPECIFICATIONS

STANDARD SPECIFICATIONS

1. ALL 16 GAUGE CONSTRUCTION.
2. STAINLESS STEEL HINGES.
3. NEOPRENE DOOR GASKETS.
4. FOUR PRONG PHENOLIC KNOBS TO SECURE DOOR CLOSURE.
5. DOOR LATCH DESIGN PREVENTS OVER COMPRESSION OF NEOPRENE GASKET.
6. FORMED METAL FILTER TRACKS UTILIZE ARMACELL IG-2 SEALING GASKET.
7. FORMED METAL TRACKS ARE MADE TO HOLD FILTERS PER SELECTION CHART NO. 2 AND INSTALLED PER GAUGE SELECTION CHART NO. 3

NOTES

GENERAL NOTES

1. HOUSINGS ARE MANUFACTURED AND ASSEMBLED IN CHULA VISTA, CA.
2. HOUSINGS SHALL BE PACKAGED AS NEEDED TO PRESERVE STRUCTURE DURING TRANSPORTATION.
3. REFER TO "HOW TO ORDER RAPTORSEAL HOUSINGS" FOR ASSISTANCE WITH PRODUCT SELECTION.
4. FOR ALL PRODUCT REQUIREMENTS OUTSIDE THE SCOPE OF THIS DOCUMENT CONTACT SALES@AMFCO.COM.

SELECTION CHART NO. 4 HOW TO DETERMINE HOUSING DEPTH

1. RAPTORSEAL HOUSINGS MAY BE MANUFACTURED TO ANY DEPTH YOU REQUIRE.
2. THE FOLLOWING NOTES DESCRIBE HOW TO ESTABLISH A HOUSING DEPTH BASED UPON FILTER SELECTION AND PRESSURE DROP MONITORING REQUIREMENTS.
3. REFER TO THE (3) SAMPLES SHOWN BELOW FOR VARIOUS TRACK CONFIGURATIONS AND THEIR EFFECT ON HOUSING DEPTHS.
4. A 1" SPACE BETWEEN AIR FILTERS IS RECOMMENDED WHEN NO MAGNAHELIC GAUGES ARE REQUIRED.
5. A 3" SPACE BETWEEN AIR FILTERS IS REQUIRED TO INSTALL A PITOT TUBE WHEN MAGNAHELIC GAUGES ARE SPECIFIED.
6. 1", 2", 4", AND 6" THICK FILTERS REQUIRE A TRACK DEPTH OF THE SAME DIMENSION.
7. A HEADERED FILTER, WHILE IT REQUIRES A 1" TRACK, MUST BE IDENTIFIED BY ITS OVERALL DEPTH TO DETERMINE THE CORRECT HOUSING DEPTH.
8. ALL CORNER UPRIGHTS ARE 3" DEEP.

ACCESSORIES

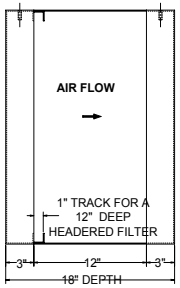
ITEMS ORDERED SEPARATELY

	PART NO.	DESCRIPTION
☐	99001121	SET OF 2 LIFTING LUGS AND FASTENERS
☐	99001122	SET OF 4 LIFTING LUGS AND FASTENERS
☐	99001123	WEATHER PROOF GAUGE HOUSING

SPECIAL INSTRUCTIONS

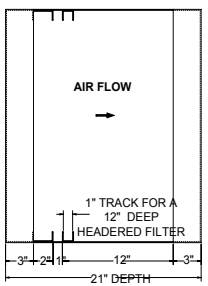
TRACK SAMPLE NO. 1 - 18" DP.

(1) HEADERED FILTER X 12" DEEP
(1) MAGNAHELIC GAUGE REQUIRES (2) PORTS



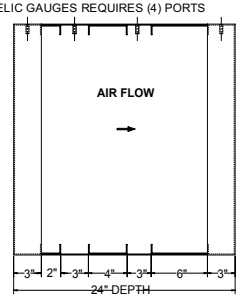
TRACK SAMPLE NO. 2 - 21" DP.

(1) 2" PREFILTER
(1) HEADERED FILTER X 12" DEEP
(0) MAGNAHELIC GAUGES



TRACK SAMPLE NO. 3 - 24" DP.

(1) 2" PREFILTER
(1) 4" SECONDARY FILTER
(1) 6" FINAL FILTER
(3) MAGNAHELIC GAUGES REQUIRES (4) PORTS



APPROVAL BLOCK

YOUR SIGNATURE AUTHORIZES AMERICAN METAL FILTER COMPANY TO MANUFACTURE THE HOUSING WITH THE INFORMATION CONTAINED IN THIS DOCUMENT AND RELATED PURCHASE ORDERS. ANY CHANGES MADE AFTER THE APPROVAL DATE REQUIRES A REVISED SUBMITTAL DRAWING.

○ OK

○ OK WITH REDLINE CORRECTIONS

○ SEND REVISED SUBMITTAL DRAWING

SIGNATURE: DATE:

AMFCO APPROVAL

SIGNATURE: DATE:

TITLE BLOCK

RAPTOR SEAL AIR FILTER HOUSING

PART NO.

DRAWING NO.	DATE	REV.
20250325	3/25/25	01