

SELECTION CHART NO. 1 - HOUSING DIMENSIONS AND AIR FLOW CAPACITIES IN CFM													SELECTION CHART NO. 2 - HOUSING LOCATION AND AIR FILTER SELECTION									
Notes * Includes 3.00" for flanges.				NO. OF FILTERS WIDE												HOUSING LOCATION						
				1/2 1 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6												X INDOOR?		OUTDOOR?				
				WIDTH CODE												AIR FILTER SPECIFICATIONS						
NO. OF FILTERS HIGH	HEIGHT CODE	OVERALL HEIGHT* (INCHES)	FACE VELOCITY (FPM)	OVERALL WIDTH* (INCHES)												POS	CODE*	H X W X D	HEADER?	INITIAL PD**	FINAL PD**	GAUGE?
				05W	10W	15W	20W	25W	30W	35W	40W	45W	50W	55W	60W							
				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	7000	8000	9000	10000	11000	12000							
1	10H	26.75	500	3000	6000	9000	12000	15000	18000	21000	24000	27000	30000	33000	36000							
1 1/2	15H	39.13	500	4000	8000	12000	16000	20000	24000	28000	32000	36000	40000	44000	48000							
2	20H	51.13	500	6000	12000	18000	24000	30000	36000	42000	48000	54000	60000	66000	72000							
2 1/2	25H	63.50	500	8000	16000	24000	32000	40000	48000	56000	64000	72000	80000	88000	96000							
3	30H	75.50	500	10000	20000	30000	40000	50000	60000	70000	80000	90000	100000	110000	120000							
3 1/2	35H	87.88	500	12000	24000	36000	48000	60000	72000	84000	96000	108000	120000	132000	144000							
4	40H	99.88	500	14000	28000	42000	56000	70000	84000	98000	112000	126000	140000	154000	168000							

PLAN VIEWS

AIR FLOW

27 MIN. CLEARANCE FOR FILTER SERVICE

12" DP. HEADERED FILTER

4" PREFILTER

LEFT SIDE

RIGHT SIDE

TOP VIEW

WIDTH

DEPTH

AIR FLOW

1.50

OUTTURNED FLANGES, TYP.

1.50

FRONT VIEW
AIR ENTRANCE SIDE

SIDE VIEW

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

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

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

NOTES

GENERAL NOTES

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

SELECTION CHART NO. 4 HOW TO DETERMINE HOUSING DEPTH

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

SELECTION CHART NO. 5 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

PART NUMBER & ACCESSORIES

TRACK SAMPLE NO. 1 - 18" DP.

(1) HEADERED FILTER X 12" DEEP

(1) MAGNAHELIC GAUGE REQUIRES (2) PORTS

AIR FLOW

1" TRACK FOR A 12" DEEP HEADERED FILTER

3" 12" 3"

18" DEPTH

TRACK SAMPLE NO. 2 - 21" DP.

(1) 2" PREFILTER

(1) HEADERED FILTER X 12" DEEP

(0) MAGNAHELIC GAUGES

AIR FLOW

1" TRACK FOR A 12" DEEP HEADERED FILTER

3" 24" 12" 3"

21" DEPTH

TRACK SAMPLE NO. 3 - 24" DP.

(1) 2" PREFILTER

(1) 4" SECONDARY FILTER

(1) 6" FINAL FILTER

(3) MAGNAHELIC GAUGES REQUIRES (4) PORTS

AIR FLOW

3" 2" 3" 4" 3" 6" 3"

24" DEPTH

APPROVAL BLOCK

YOUR SIGNATURE AUTHORIZES AMERICAN METAL FILTER COMPANY TO MANUFACTURE THE HOUSING PER THE INFORMATION CONTAINED WITHIN 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

DATE:

SUBMITTAL DRAWING



RAPTOR SEAL AIR FILTER HOUSING

AMERICAN METAL FILTER COMPANY

DRAWING NO.

DATE

REV.

20250325

3/25/25

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