# INSTALLATION INSTRUCTIONS

### FILTER RACK KITS FOR LARGE PACKAGE MICRO CHANNEL COILS

#### **IMPORTANT SAFETY INFORMATION**

Please read all instructions before installing these components. Pay attention to all safety warnings and any other special notes highlighted in the manual. Safety markings are used frequently throughout this manual to designate a degree or level of seriousness and should not be ignored.

**WARNING** indicates a potentially hazardous situation that if not avoided, could result in personal injury or death.

## **WARNING:**

RISK OF ELECTRICAL SHOCK Shut off all electrical power to the unit before performing any maintenance or service on the system. Failure to follow this warning can cause serious injury, fire, electrical shock, or death.

- The installer performing this work assumes all responsibility when installing this kit. These instructions are primarily intended to assist qualified individuals experienced in the proper installation of these components. Some local codes may require licensed installation/service personnel for this type of equipment. Safety should always be the deciding factor when installing this product and using common sense plays an important role as well. Improper installation of the components or failure to follow safety warnings could result in serious injury, death, or property damage.
- Unless noted otherwise in these instructions, only factory authorized parts or accessory kits may be used with this product. Improper installation, service, adjustment, or maintenance may cause fire, electrical shock or other hazardous conditions which may result in personal injury or property damage.
- Please read all instructions carefully before starting the installation. If a problem occurs, check the instructions and follow recommendations given.
- The information shown in these instructions must be followed during the installation of this kit. Unqualified individuals should not attempt to interpret these instructions or install this equipment. If you do not possess mechanical skills or tools, call your local dealer for assistance.
- Use caution when handling the appliance or removing components. Personal injury can occur from sharp metal edges present in all sheet metal constructed equipment.

	SKU	DESCRIPTION	QTY
	606200	CLIP, PUSH-ON	3
	285131	ADAPTER,1" FILTER	3
	296644	RETURN PNL ASSY,30",INS	
ASSEMBLY #	296647	ACCESS DOOR ASSY,14",INS	1
10079911R	600325	SCREW SMSHWH 8ABX1/2"LONG	5
(30" CABINET	2C7181	BASE,LOWER,RACK	1
WITH 20" FAN ORIFICE)	2C7791	BRACKET, FILTER, BOTTOM	1
·····,	2C7801	BRACKET, FILTER, TOP	1
	2C8131	BASE,UPPER RACK,20" OD FAN	1
	2C8081	BRACKET,HINGE	1
	669605	HINGE,SYMETRIC,CMF	1
	SKU	DESCRIPTION	QTY
	606200	CLIP,PUSH-ON	2
	285131	ADAPTER,1" FILTER	2
ASSEMBLY #	296642	RETURN PNL ASSY,34",INS	1
10079912R	296645	ACCESS DOOR ASSY,18",INS	1
(34" CABINET	600325	SCREW SMSHWH 8ABX1/2"LONG	1
WITH 20" FAN	2C7181	BASE,LOWER,RACK	1
ORIFICE)	2C7791	BRACKET,FILTER,BOTTOM	1
	2C7801	BRACKET,FILTER,TOP BASE,UPPER RACK.20" OD FAN	1
	2C8131	BRACKET.HINGE	1
	2C8081 669605	HINGE,SYMETRIC,CMF	1
	SKU	DESCRIPTION	QTY
	606200	CLIP.PUSH-ON	2
	285131	ADAPTER, 1" FILTER	2
	296641	RETURN PNL ASSY.38".INS	1
ASSEMBLY #	296645	ACCESS DOOR ASSY,18",INS	1
10079915R	600325	SCREW SMSHWH 8ABX1/2"LONG	1
(38" CABINET	2C7181	BASE,LOWER,RACK	1
WITH 20" FAN ORIFICE)	2C7791	BRACKET, FILTER, BOTTOM	1
UNIFICE)	2C7801	BRACKET, FILTER, TOP	1
	2C8131	BASE,UPPER RACK,20" OD FAN	1
	2C8081	BRACKET,HINGE	1
	669605	HINGE,SYMETRIC,CMF	1
	SKU	DESCRIPTION	QTY
	2C7191	BASE,UPPER,RACK	1
		BASE,LOWER,RACK	1
	2C7181		
	296641	RETURN PNL ASSY,38",INS	1
ASSEMBLY #	296641 296645	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS	1 1
ASSEMBLY # 10079913R	296641 296645 606200	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON	1 1 2
10079913R	296641 296645 606200 285131	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER	1 1 2 2
10079913R (38" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM	1 1 2 2 1
10079913R (38" CABINET	296641 296645 606200 285131 2C7791 2C7801	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP	1 1 2 2 1 1
10079913R (38" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT	1 1 2 2 1 1 1 1
10079913R (38" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK	1 1 2 2 1 1 1 1 1
10079913R (38" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG	1 1 2 1 1 1 1 7
10079913R (38" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF	1 1 2 2 1 1 1 1 1
10079913R (38" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605 2C8081	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE	1 2 2 1 1 1 1 7 1
10079913R (38" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION	1 1 2 2 1 1 1 7 1 1 1
10079913R (38" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605 2C8081 <b>SKU</b>	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE	1 2 2 1 1 1 1 7 1 1 7 1 1 2 7 7 1 1 2 7 7
10079913R (38" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811 600325 669605 2C8081 <b>SKU</b> 2C7191	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION BASE,UPPER,RACK	1 2 2 1 1 1 1 7 7 1 1 <b>QTY</b> 1
10079913R (38" CABINET WITH 24" FAN ORIFICE)	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605 2C8081 <b>SKU</b> 2C7191 2C7181	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION BASE,UPPER,RACK BASE,LOWER,RACK	1 2 2 1 1 1 1 7 1 1 <b>QTY</b> 1 1
10079913R (38" CABINET WITH 24" FAN ORIFICE)	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605 2C8081 <b>SKU</b> 2C7191 2C7191 2C7181	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION BASE,UPPER,RACK BASE,LOWER,RACK ACCESS DOOR ASSY,18",INS	1 1 2 1 1 1 1 7 1 1 <b>QTY</b> 1 1 1 1 1 1 1 1 1 1 1 1 1
10079913R (38" CABINET WITH 24" FAN ORIFICE) ASSEMBLY # 10079914R	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605 2C8081 <b>SKU</b> 2C7191 2C7191 2C7181 296645 606200	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION BASE,UPPER,RACK BASE,LOWER,RACK ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON	1 1 2 1 1 1 1 7 1 1 <b>QTY</b> 1 1 1 1 1 1 1 1 1 1 1 1 1
10079913R (38" CABINET WITH 24" FAN ORIFICE) ASSEMBLY # 10079914R (42" CABINET	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605 2C8081 <b>SKU</b> 2C7191 2C7181 2C7181 296645 606200 M0068606	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION BASE,UPPER,RACK BASE,LOWER,RACK ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON PANEL,RETURN,76"COIL,LG.PKG,42"	1 1 2 1 1 1 1 7 7 1 1 <b>QTY</b> 1 1 2 <b>QTY</b>
10079913R (38" CABINET WITH 24" FAN ORIFICE) ASSEMBLY # 10079914R	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605 2C8081 <b>SKU</b> 2C7191 2C7191 2C7181 296645 606200 M0068606 2C7791	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION BASE,UPPER,RACK BASE,LOWER,RACK BASE,LOWER,RACK ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON PANEL,RETURN,76"COIL,LG.PKG,42" BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,SUPPORT	1 1 2 1 1 1 1 7 7 1 1 1 0 TY 1 1 1 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1
10079913R (38" CABINET WITH 24" FAN ORIFICE) ASSEMBLY # 10079914R (42" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605 2C8081 <b>SKU</b> 2C7191 2C7181 2C7181 2C7181 2G645 606200 M0068606 2C7791 2C7801 2C781	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION BASE,UPPER,RACK BASE,LOWER,RACK ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON PANEL,RETURN,76"COIL,LG.PKG,42" BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,SUPPORT BASE,MIDDLE RACK	1 1 2 1 1 1 1 1 1 1 1 0 TY 1 1 1 2 0 TY 1 1 1 1 1 1 1 1 1 1 1 1 1
10079913R (38" CABINET WITH 24" FAN ORIFICE) ASSEMBLY # 10079914R (42" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 600325 669605 2C8081 2C7191 2C7181 2C7181 2C7181 2C7181 2C7791 2C7801 2C7801	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION BASE,UPPER,RACK ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON PANEL,RETURN,76"COIL,LG.PKG,42" BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1
10079913R (38" CABINET WITH 24" FAN ORIFICE) ASSEMBLY # 10079914R (42" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7811 2C7821 609325 669605 2C8081 <b>SKU</b> 2C7191 2C7181 226445 606200 M0068606 2C7791 2C7801 2C7811 2C7821 600325 669605	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION BASE,UPPER,RACK ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON PANEL,RETURN,76"COIL,LG.PKG,42" BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP	1 1 2 2 1 1 1 1 7 1 1 <b>QTY</b> 1 1 1 2 <b>QTY</b> 1 1 1 1 1 1 1 1 1 1 1 1 1
10079913R (38" CABINET WITH 24" FAN ORIFICE) ASSEMBLY # 10079914R (42" CABINET WITH 24" FAN	296641 296645 606200 285131 2C7791 2C7801 2C7821 609325 669605 2C8081 <b>SKU</b> 2C7191 2C7181 296645 606200 M0068606 2C7791 2C7781 2C7811 2C7821 600325	RETURN PNL ASSY,38",INS ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON ADAPTER,1" FILTER BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER SUPPORT BASE,MIDDLE RACK SCREW SMSHWH 8ABX1/2"LONG HINGE,SYMETRIC,CMF BRACKET,HINGE DESCRIPTION BASE,UPPER,RACK ACCESS DOOR ASSY,18",INS CLIP,PUSH-ON PANEL,RETURN,76"COIL,LG.PKG,42" BRACKET,FILTER,BOTTOM BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP BRACKET,FILTER,TOP	1 1 2 2 1 1 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1

Table 1. Filter Rack Bill of Materials

### INSTALLATION OF FILTER RACK

Filter Rack Kits for Large Package Micro Channel Coils

- 1. Determine the correct Filter Rack Kit by measuring the coil height or total unit height.
- 2. Verify all parts are accounted for by referring to the bill of materials for each kit in Table 1 (page 1).
- 3. Assemble the filter rack as shown in Figure 2 or Figure 3 (page 4). **NOTE:** Both filter rack styles are designed with adjusting holes 4" apart. The 30", 34", & 38" filter rack (for units with 20" fan orifice) is adjustable and all use the same internal parts. The 38" & 42" filter rack (for units with 24" fan orifice) is also adjustable and both use the same internal parts. If using 1" filters, insert the Adapter, 1", Filter. If using 2" filters, this part is not needed. For replacement filters, use Table 2.
- 4. Remove the unit return access panel.
- 5. Attach the filter rack to the unit using the the holes as shown in Figure 1.
- 6. Position the new return access panel, ensuring the filter access panel is secure. **NOTE:** Make sure the factory installed gasket material and insulation is on the filter access panel.
- 7. Restore power back to the unit.

### AIR FILTER INSTALLATION

# A WARNING:

Never operate the unit without a filter in place. Dust and lint could accumulate on internal parts, resulting in loss of efficiency, equipment damage and possible fire.

**NOTE TO INSTALLER:** After installing or replacing the filtration system for this unit, add the following statement on or adjacent to the filter service panel: "**Replace filter(s) installed in your system only with the same dimensional size filters that are being replaced."** 

- A suitable air filter must be installed upstream of the evaporator coil of the return air system. See Table 2 (page 3) for recommended external filter sizes.
- All return air must pass through the filters before entering the evaporator coil. It is important that all filters be kept clean and replaced frequently to ensure proper operation of unit. Dirty or clogged filters will reduce the efficiency of the unit and result in unit shutdowns.
- Air filter pressure drop is recommended not to exceed 0.08 inches WC.
- Single phase downflow applications require either a Nordyne internal filter kit be used or an air filter system be installed in the return air ductwork. Three phase models are factory equipped with an internal filter rack ready to accept 1 inch filters (field supplied). See Table 2 for specific unit model and filter sizes. The internal filter rack adjusts for 1" or 2" filters. To convert the unit from 1 inch to 2 inch filters, see 1" to 2" Filter Conversion section.
- Horizontal installations require the air filter system be installed in the return air ductwork.

### **Removal of Internal Filter Rack**

- (If Equipped, only required if economizer is installed)
- 1. Remove the return air panel from the unit.
- 2. Remove the height adjustment screw from the inside of the rack.
- 3. Remove 4 screws securing the assembly to the coil located on the left leg of the rack. **NOTE:** The assembly can now be easily collapsed and removed from the unit. The bracket secured to the top rear of the coil can remain in place. See Figure 1 (page 3) for filter rack securing screw locations.

# **Installing Filters in the Internal Filter Rack** (If Equipped)

- 1. Remove access panel screws from return air panel. (Hint: Loosen the unit's top panel screws near the top edge of the access panel. The access panel was designed to fit underneath the top panel.)
- 2. Slide the first filter between both guide channels of filter rack and allow the filter to drop easily into place.
- 3. Verify the bottom of the filter is within the channels of the rack.
- 4. Slide the 2nd filter (and 3rd filter on taller models) between both guide channels of filter rack.
- 5. Verify the top of the filter is within the channels of the rack.
- 6. Replace access cover by sliding the top edge of panel under the lip of the unit's top panel. Secure access panel by replacing the screws.

#### 1" to 2" Filter Conversion

Factory installed internal filter rack (3 phase models only) is set up to accept 1" filters. If conversion to 2" filters is desired, remove the two (or three) 1" filter adaptors secured in the assembly with clips by pulling straight off the frame. The filter bracket must be reoriented to accept 2" filters by removing two screws securing it to the hinge and rotating 180 degrees. See Figure 1 (page 3).

# **Removing Filters from Internal Filter Rack** (*If Equipped*)

- 1. Remove access panel screws from return air panel. (Hint: Loosen the unit's top panel screws near the top edge of the access panel. The access panel was designed to fit underneath the top panel.)
- 2. Remove upper filter by gently pulling filter through the access panel opening.
- 3. Remove lower filter by lifting media to top of filter rack. Remove in the same manner as described in step 2.
- 4. Install new filter in the filter rack as described in the previous section.

EXTERNAL FILTER SIZES					
NOMINAL COOLING (TONNAGE)	FILTER SIZE (IN. X IN.)	APPROXIMATE AIR FLOW RANGE (CFM)	APPROXIMATE FILTER AREA (SQ. IN.)*		
2.0	20 x 25	600-900	450		
2.5	20 x 30	750-1200	550		
3.0	25 x 25	1100-1300	625		
3.5	24 x 30	1200-1600	750		
4.0	18 x 24 (2 required)	1400-1800	850		
5.0	20 x 25 (2 required)	1700-2200	1000		

INTERNAL FILTER SIZES						
CABINET HEIGHT	OUTDOOR FAN DIAMETER	FILTER SIZE (IN. X IN.)	APPROXIMATE AIR FLOW RANGE (CFM)	APPROXIMATE FILTER AREA		
30"	20"	(2) 14"x25"	700 - 1300	700		
	24"	(1) 12"x20" and (1) 16"x25"		640		
34"	20"	(2) 16"x25"	900 - 1400	800		
	24"	(1) 12"x20" and (2) 10"x25"		740		
38"	20"	(2) 18"x25"	1100 - 1600	900		
	24"	(1) 12"x20" and (2) 12"x25"		840		
42"	20"	(2) 20"x25"	- 1300 - 1800	1000		
	24"	(1) 12"x20" and (2) 14"x25"		940		

\* Based on velocity of 300 ft/min for disposable filters.

#### Table 2. External & Internal Filter Sizes



Figure 1. Internal Filter Rack Location







Figure 3. Internal Filter Rack Assembly for 24" Fan Orifice



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