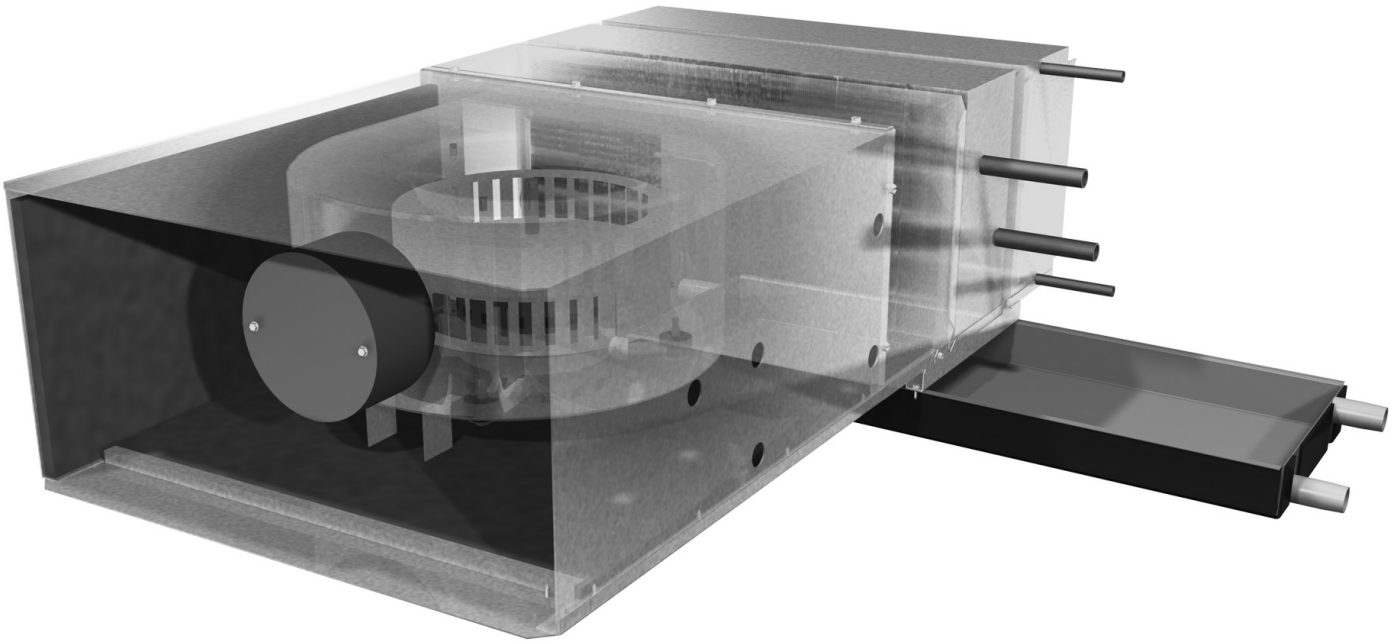

MANUAL – INSTALLATION

NVLAP LAB CODE 200874-0

Fan Coils - Horizontal Genesis & Genesis Quiet

FCHG / FCHGQ Series

v100 – Issue Date: 07/16/15

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

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FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

PRODUCT OVERVIEW

Safety Precautions

A. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.

B. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

C. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer:

In the United States
2975 Shawnee Ridge Court
Suwanee, Georgia USA 30024
Ph: 770.623.8050
Fax: 770.623.6404

In Canada or International Export Sales Office
638 Raleigh Street
Winnipeg, Manitoba
Canada R2K 3Z9
Ph: 204.669.4220
Fax: 204.663.2715

D. Before servicing or cleaning unit, switch power off at service panel and lock service panel to prevent power from being switched on accidentally.

E. Protect flammable materials nearby when brazing, Use flame and heat protection barriers where needed. Always have a fire extinguisher ready.

F. The manufacturer assumes no responsibility for personal injury or property damage resulting from improper handling, installation, service or operation of the product.

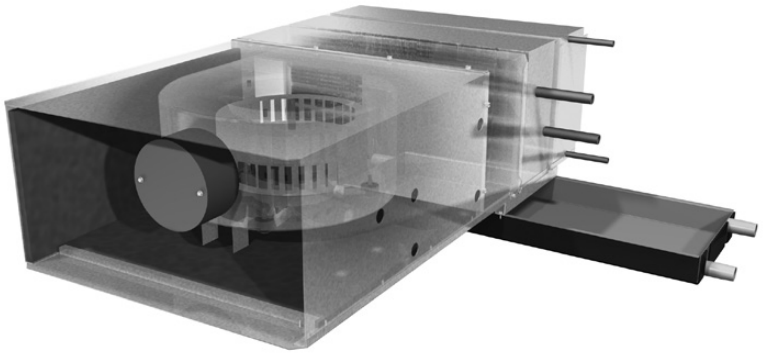
Caution to Contractors

Fan Coil units are not intended for use as temporary heat or ventilation sources during building construction. The coil units are not designed nor equipped to operate in a dusty construction environment. Recirculating fan wheels can become coated in construction dust, resulting in an unbalanced wheel. This in turn can contribute to reduced motor life. Inlet air filters, if supplied, would provide little protection as they would quickly become plugged with construction dust.

Receiving Inspection

All Price Fan Coil units are inspected before shipment. After unpacking the assembly, check it for damage. If any damage to the products is found, report it immediately to the delivery carrier. Caution is required when unpacking the fan units with electric coils as not to damage the elements. Ensure that all packing material is removed from the inside of the unit, especially around the blower wheel and coil section.

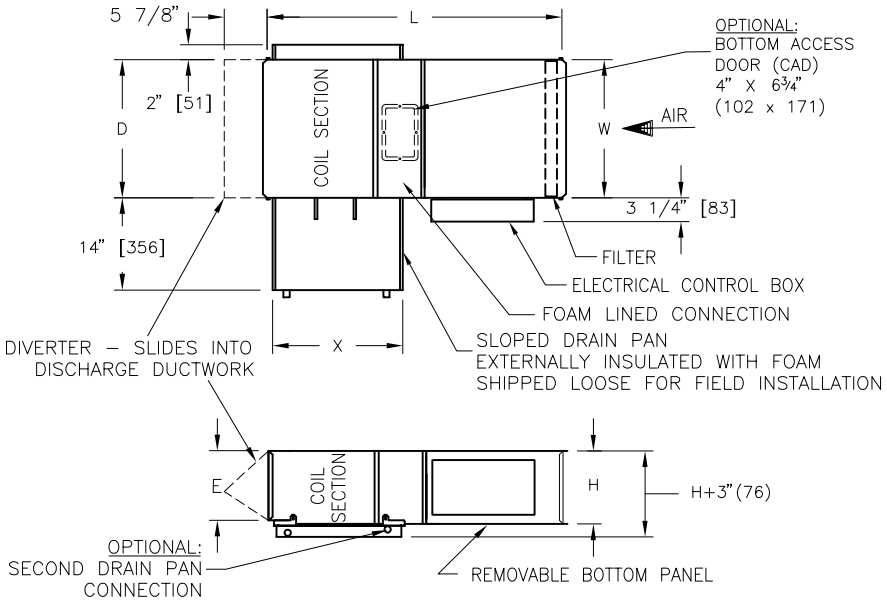
FCHG / FCHGQ ▼

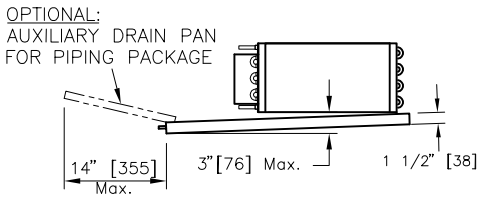


FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

PRODUCT OVERVIEW

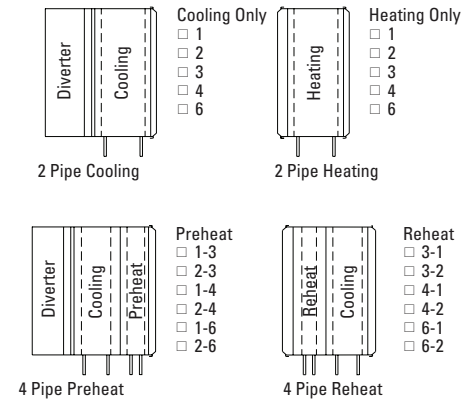
FCHG - DIMENSIONAL DATA ▼





LH configuration shown.
Handing determined by looking at inlet

Coil Configurations (LH Connections Shown)



Dimensional Data - IP (in.) / SI [mm]					
Unit Size	Max. Fan Flow, CFM	Outlet Duct Size		W	H
		D	E		
20	500 [237]	21 [533]	9 [229]	21 [533]	10½ [267]
30	800 [377]	21 [533]	9 [229]	21 [533]	10½ [267]
40	950 [448]	26 [660]	11½ [292]	26 [660]	12½ [318]
50	1550 [731]	42 [1067]	9 [229]	42 [1067]	10½ [267]
60	2050 [968]	48 [1219]	11½ [292]	48 [1219]	12½ [318]
70	2800 [1324]	60 [1524]	11½ [292]	60 [1524]	12½ [318]

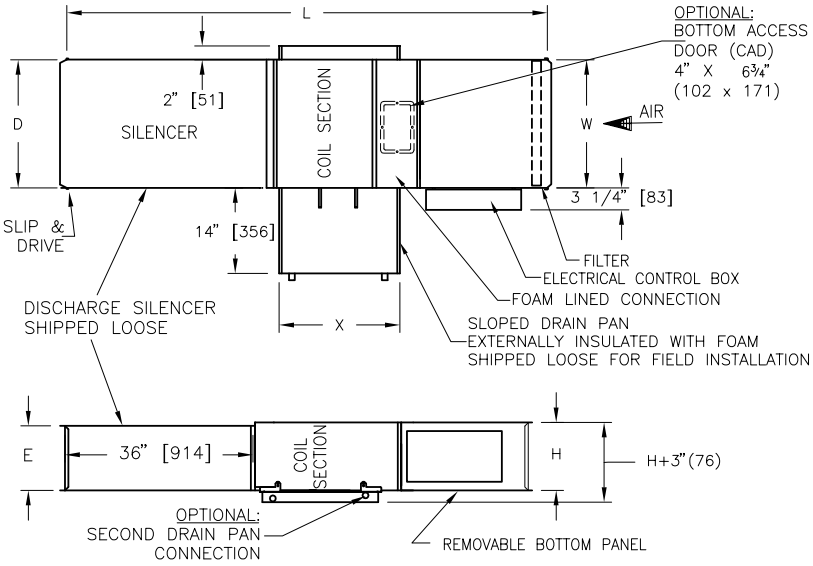
Dimensional Data - IP (in.) / SI [mm]		Number of Rows		
		1 - 2	3 - 4	6
Connection Size	20 - 60	⅞ [22]	⅞ [22]	1⅛ [29]
	70	⅞ [22]	1⅛ [29]	1⅛ [29]

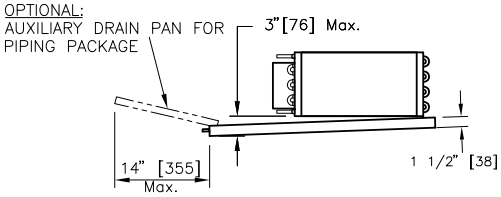
Dimensional Data - IP (in.) / SI [mm]		Number of Rows								
		Cooling			Heating			Preheat		Reheat	
		1 & 2	3 & 4	6	1 & 2	3 & 4	6	1-3, 2-3, 1-4, 2-4	1-6, 2-6	3-1, 3-2, 4-1, 4-2	3 & 5
L	20 - 40	35⅝ [905]	37⅜ [950]	39⅜ [1000]	35⅝ [905]	37⅜ [950]	39⅜ [1000]	42⅜ [1077]	44⅜ [1127]	42⅜ [1077]	44⅜ [1127]
	50 - 60	38⅛ [969]	39⅞ [1013]	41⅞ [1064]	38⅛ [969]	39⅞ [1013]	41⅞ [1064]	44⅞ [1140]	46⅞ [1191]	44⅞ [1140]	46⅞ [1191]
	70	41⅛ [1045]	42⅞ [1089]	44⅞ [1140]	41⅛ [1045]	42⅞ [1089]	44⅞ [1140]	47⅞ [1216]	49⅞ [1267]	47⅞ [1216]	49⅞ [1267]
X		14⅛ [359]			n/a (no drain pan)			17⅞ [452]		17⅞ [452]	

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

PRODUCT OVERVIEW

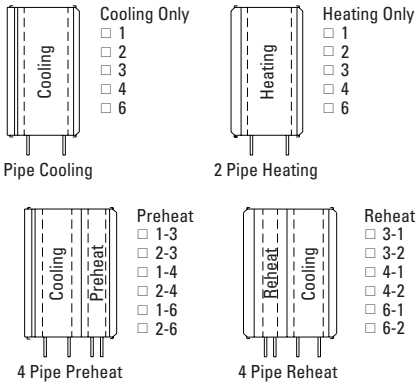
FCHGQ - DIMENSIONAL DATA ▼





LH configuration shown.
Handing determined by looking at inlet

Coil Configurations (LH Connections Shown)



Dimensional Data - IP (in.) / SI [mm]					
Unit Size	Max. Fan Flow, cfm	Outlet Duct Size		W	H
		D	E		
20	500 [237]	21 [533]	9 [229]	21 [533]	10 1/2 [267]
30	800 [377]	21 [533]	9 [229]	21 [533]	10 1/2 [267]
40	950 [448]	26 [660]	11 1/2 [292]	26 [660]	12 1/2 [318]
50	1550 [731]	42 [1067]	9 [229]	42 [1067]	10 1/2 [267]
60	2050 [968]	48 [1219]	11 1/2 [292]	48 [1219]	12 1/2 [318]
70	2800 [1324]	60 [1524]	11 1/2 [292]	60 [1524]	12 1/2 [318]

Dimensional Data - IP (in.) / SI [mm]		Number of Rows		
		1 - 2	3 - 4	6
Connection Size	20 - 60	7/8 [22]	7/8 [22]	1 1/8 [29]
	70	7/8 [22]	1 1/8 [29]	1 1/8 [29]

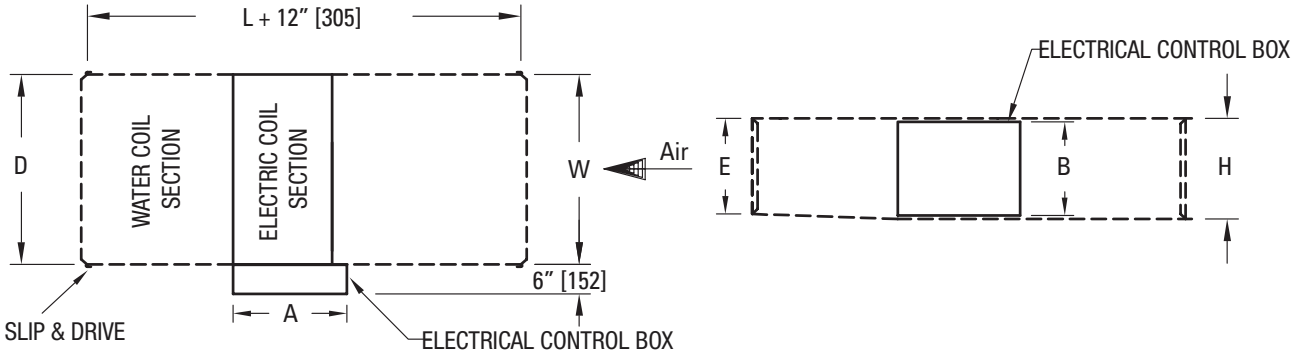
Dimensional Data IP (in.) / SI [mm]		Number of Rows									
		Cooling			Heating			Preheat		Reheat	
		1 & 2	3 & 4	6	1 & 2	3 & 4	6	1-3, 2-3, 1-4, 2-4	1-6, 2-6	3-1, 3-2, 4-1, 4-2	3 & 5
L	20 - 40	71 5/8 [1819]	73 3/8 [1864]	75 3/8 [1914]	71 5/8 [1819]	73 3/8 [1864]	75 3/8 [1914]	78 3/8 [1991]	80 3/8 [2041]	78 3/8 [1991]	80 3/8 [2041]
	50 - 60	74 1/8 [1883]	75 7/8 [1927]	77 7/8 [1978]	74 1/8 [1883]	75 7/8 [1927]	77 7/8 [1978]	80 7/8 [2054]	82 7/8 [2105]	80 7/8 [2054]	82 7/8 [2105]
	70	77 1/8 [1959]	78 7/8 [2003]	80 7/8 [2054]	77 1/8 [1959]	78 7/8 [2003]	80 7/8 [2054]	83 7/8 [2130]	85 7/8 [2181]	83 7/8 [2130]	85 7/8 [2181]
X		14 1/8 [359]			n/a (no drain pan)			17 7/8 [452]		17 7/8 [452]	

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

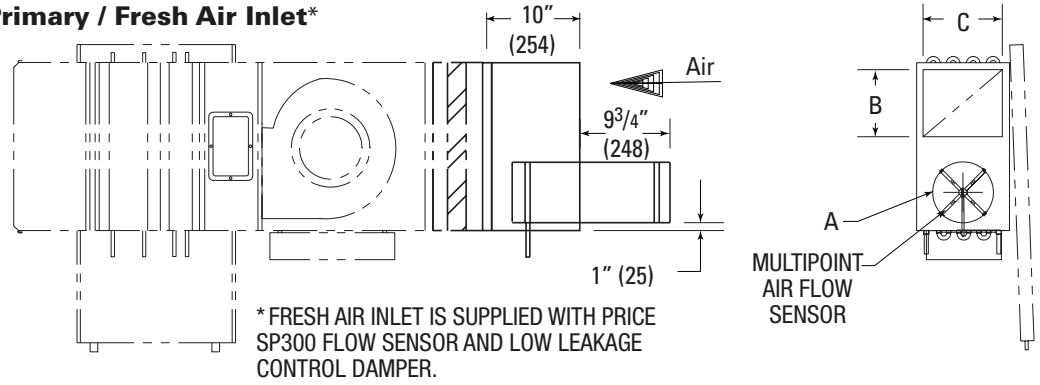
PRODUCT OVERVIEW

FCHG / FCHGQ Accessories

Electric Heat

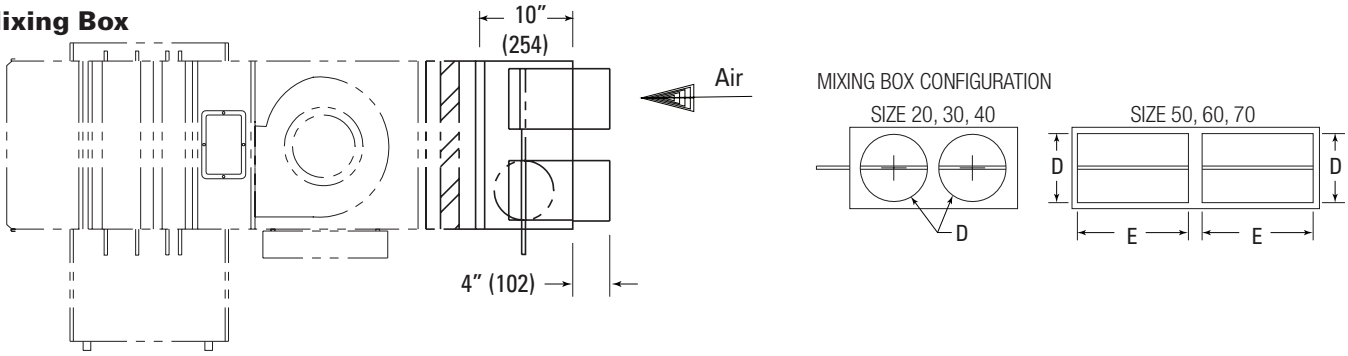


Primary / Fresh Air Inlet*

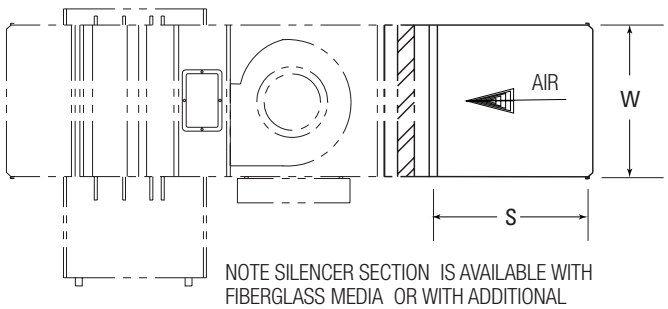


* FRESH AIR INLET IS SUPPLIED WITH PRICE SP300 FLOW SENSOR AND LOW LEAKAGE CONTROL DAMPER.

Mixing Box



Inlet Silencer



NOTE SILENCER SECTION IS AVAILABLE WITH FIBERGLASS MEDIA OR WITH ADDITIONAL POLYMER FILM LINER PROTECTION

LH configuration shown.
Handing determined by looking at inlet

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

PRODUCT OVERVIEW

FCHG / FCHGQ Accessories Data

Filter Sizes			
Size	**W**	**H**	**Qty**
20	20 7/8 [530]	10 1/4 [260]	1
30	20 7/8 [530]	10 1/4 [260]	1
40	25 7/8 [657]	12 1/4 [311]	1
50	20 7/8 [530]	10 1/4 [260]	2
60	23 7/8 [606]	12 1/4 [311]	2
70	29 7/8 [757]	12 1/4 [311]	2

Primary/Fresh Air Inlet	
Size	**A**
20	6, 8 [152, 203]
30	6, 8 [152, 203]
40	6, 8 [152, 203]
50	6, 8 [152, 203]
60	6, 8, 10 [152, 203, 254]
70	6, 8, 10 [152, 203, 254]

Mixing Box		
Size	**D**	**E**
20	9 [229]	--
30	9 [229]	--
40	10 [254]	--
50	8 [203]	16 [406]
60	8 [203]	21 [533]
70	9 [229]	28 [711]

Return Air Inlet		
Size	**B**	**C**
20	10 1/2 [267]	9 1/2 [241]
30	10 1/2 [267]	9 1/2 [241]
40	15 1/2 [394]	11 1/2 [292]
50	31 1/2 [800]	9 1/2 [251]
60	35 1/2 [902]	11 1/2 [292]
70	47 1/2 [1206]	11 1/2 [292]

Inlet Silencer		
Size	**S, in**	**S, mm**
20	18"	457
30	18"	457
40	18"	457
50	18"	457
60	18"	457
70	36"	914

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

INSTALLATION & MOUNTING INSTRUCTIONS

Price Fan Coils are designed to be durable and manufactured for sturdy construction. The units must still be handled with great care and no force or pressure applied to the coil or piping. When handled, the unit should be carried in an upright position holding onto the mounting points. The fan coils are not suitable for outdoor installations. The units should never be stored or installed where it may be subjected to a hostile environment such as rain, snow, or extreme temperatures. Care must be taken during and after installation to prevent foreign material such as paint, drywall mud or dust from entering the drain pan or the motor or blower wheels. Failure to do so may have serious effects on the unit performance and may cause premature failure if foreign material is allowed to be deposited into the motor or blower. Some job conditions may require the unit to be covered temporarily until installation.

CAUTION: Do not tamper with control components.

Mounting the Unit

Use trapeze hangers or optional factory supplied hanger brackets as illustrated. Hanging rods should be securely attached to joists or to mounting anchors which are properly secured to slab construction with lugs or poured in place anchors. Price Fan Coil units are designed to be mounted in the direction indicated by the Control Assembly Label found on the protective shroud. Adequate clearance must be provided for the fan coil for service and the removal of the internal equipment. Correct installation of the trapeze bars will not block access for service. Do not install tight to slab, avoid contact with other obstacles such as rigid conduit and sprinkler piping. This can cause excessive vibration and noise transmission. Care must be taken to ensure that the unit drain pan does not slope away from the outlet connection. The drain pan is sloped toward the outlet connection when the unit is installed level and plumb. Ensure main power to the unit has been disconnected prior to performing any electrical work or inspection of the circuitry.

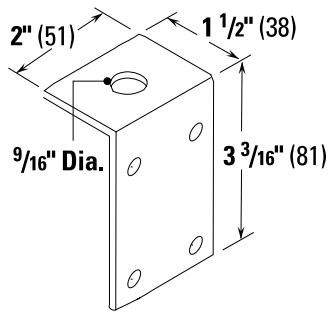
Cooling/Heating Pipe Connections

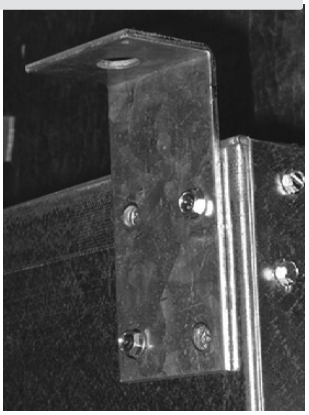
The valve packages are easily damaged when introduced to excessive amounts of heat. Great caution must be made when the connections are made with “sweat” or solder joints. The valve must be in the open position during all soldering and brazing operations. Heat should be dissipated with a wet cloth wrapped around the valve body.

Automatic valves must have the control cartridge removed before soldering.

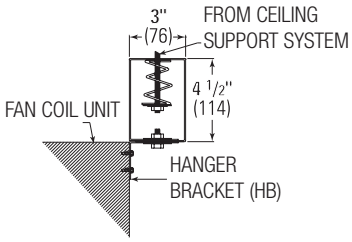
Electrical Connection

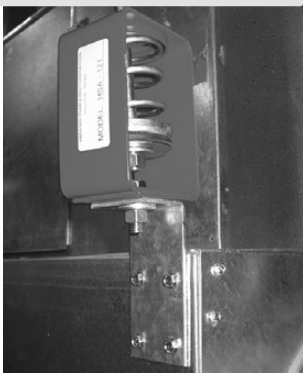
OPTIONAL HANGER BRACKETS ▼





OPTIONAL SPRING HANGER BRACKETS ▼





CAUTION: Disconnect all incoming power before any electrical installation or service is performed on the unit(s). All field wiring is to be in accordance with the National Electrical Code ANSI/ NFPA No. 70 or the Canadian Electrical Code, Part 1, CSA Standard C 22.1. Refer to the product identification label on each unit for information to determine the field wire size. Check voltage requirements prior to power supply connection. Refer to the electrical label located near the electrical control box and also refer to the schematic drawing provided on the underside of the electrical control box cover. If upon energizing the electric motor excessive noise is apparent, shut down the unit. Determine the cause by checking for packing materials, etc. and re-energize after corrective action has been taken.

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

INSTALLATION & MOUNTING INSTRUCTIONS

Drain Pan

CAUTION: Do not insulate over drain slots.

1. Ensure to use the upper mounting holes when mounting nearest to drain pan and the lower holes when mounting at the end of the drain pan. The height difference in the mounting holes (**Figure 1**) is what slopes the drain pan and allows proper drainage of the condensate.
2. Position the drain pan under the unit so that the drain pipes are on the same side as the coil pipes (**Figure 2**)
3. Ensure that the drain pan extends beneath all the coils (heating and cooling) as well as the drain holes in the bottom of the coil (**Figure 3**).
4. Make sure drain slots in coils are not blocked so water can drain. (**Figure 4**).
5. Position the drain connection so that the mounting bracket nearest to the unit discharge is flush with the step in the coil housing (**Figure 5 - correct**). If the bracket is too close to the coil tubes, the sheet metal can cut the soft copper and the drain slots will be too close or beyond the edge of the drain pan (**Figure 5 - incorrect**).
6. Mount optional auxiliary drain pan inside standard drain pan. Align the mounting holes and install the screws from the inside out (**Figure 6**). Once the screws are installed ensure auxiliary drain pan is in proper position leaning down against the attached drain pan.

FIGURE 1

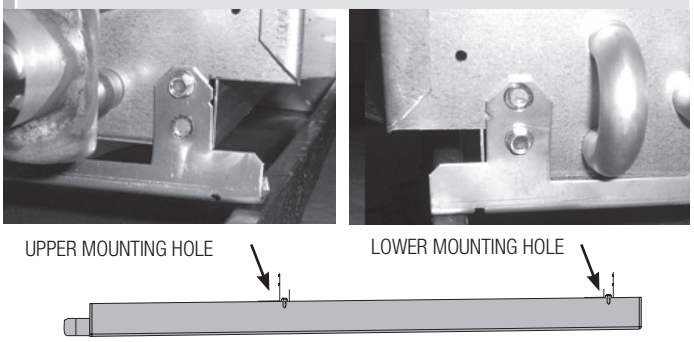


FIGURE 2

FIGURE 3

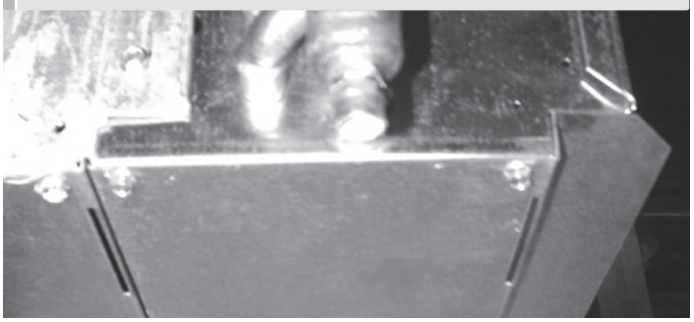


FIGURE 4

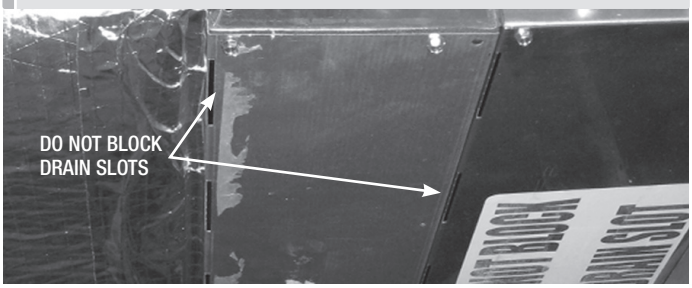


FIGURE 5

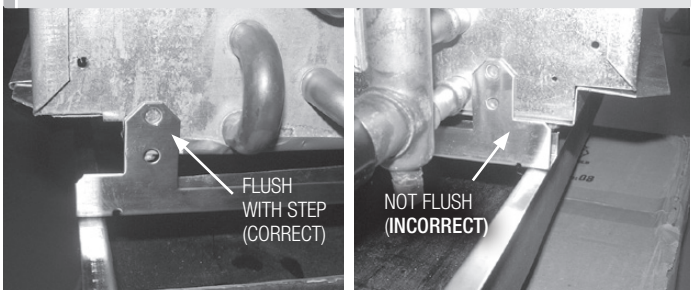
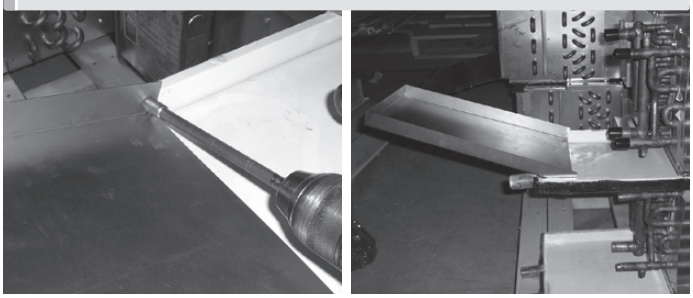


FIGURE 6



INSTALL SCREWS FROM INSIDE OUT

POSITIONING OF DRAIN PAN

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

INSTALLATION & MOUNTING INSTRUCTIONS

FCHGQ Silencer

1. Install slip cleats onto the discharge of the unit.
2. Hook the diverter edge into the discharge of the unit as shown in **Figure 1**.
3. Ensure the bottom flange extending from the silencer engages into the bottom slip cleat **(Figure 2)**.
4. Lift the silencer into the horizontal position and ensure the top silencer flange engages into the top slip cleat **(Figure 3).**
5. Place drive a cleat over each of the slip and drive connections and use a hammer to drive the cleat over the entire length of the slip and drive connections on both the silencer and the unit. **(Figure 4).**

NOTE: It is recommended to wrap the silencer section externally in the field to prevent condensation from moisture.

SILENCER INSTALLATION LOCATION ▼

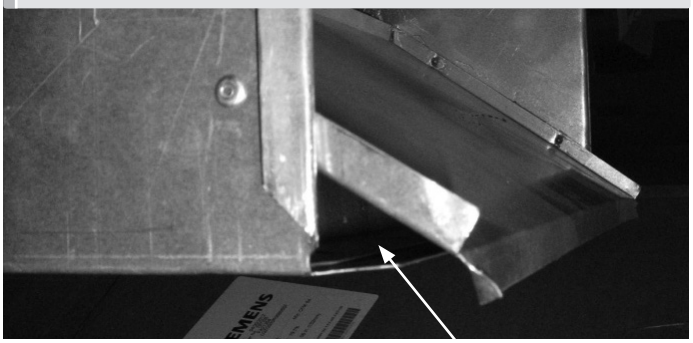


FIGURE 1 ▼

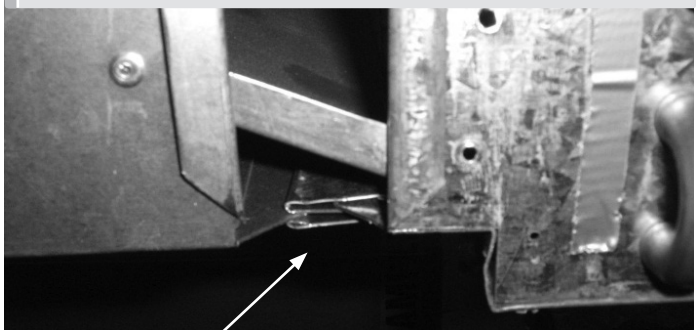


FIGURE 2 ▼

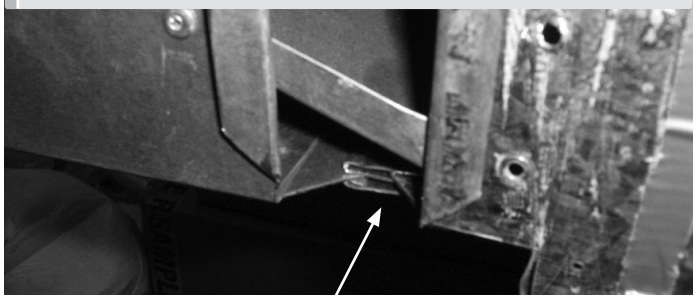


FIGURE 3 ▼

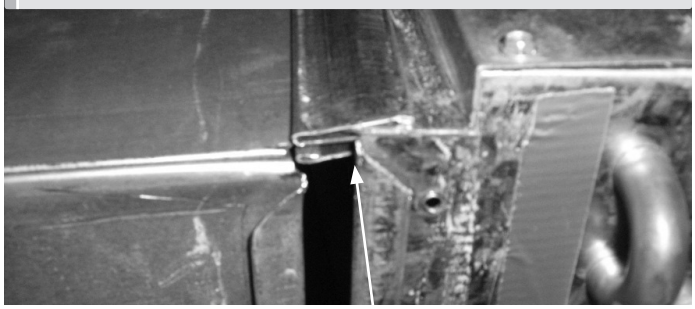
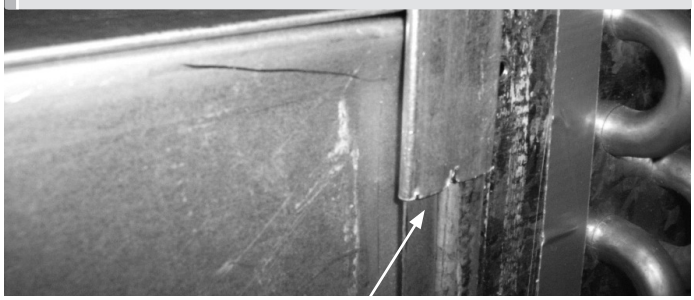


FIGURE 4 ▼



FCHG/FCHGQ Filter Replacement

1. To remove the filter, open the snap latches on the side of the filter rack, and remove the filter access panel **(Figure 1)**.
2. Slide out the filter **(Figure 2)**.
3. Slide in the new filter and replace the filter access panel. Close the snap latches over the filter access panel.

FIGURE 1 ▼

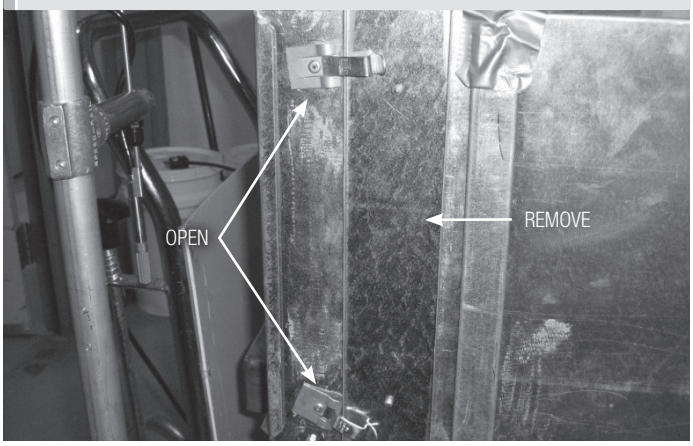
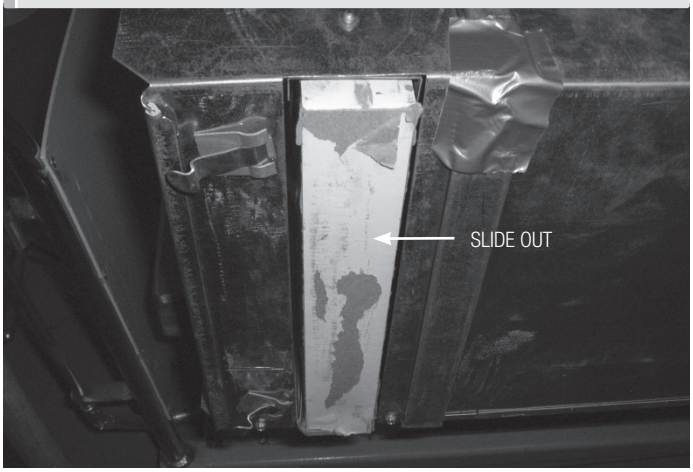


FIGURE 2 ▼



Start Up & Operation

General

Before beginning start up operation, familiarize yourself with the unit, options, accessories, controls so you understand proper system operation. All personnel should have a good working knowledge of general start-up procedures and have the appropriate start-up and balancing guides available for consultation.

For standard (PSC) motors a minimum of 0.1" W.G. downstream static pressure is required to prevent overheating of the fan motor. Overheating of the fan motor can cause the unit to trip the thermal overload and reduce motor life.

Cooling/Heating

Prior to the water system start-up and balancing, the chilled/hot water systems should be flushed to clean out dirt and debris, which may have collected in the piping during construction. During this procedure, all unit service valves must be in the closed position. This prevents foreign matter from entering the unit and clogging the valves and metering devices. Filters should be installed in the piping mains to prevent this material from entering the units during normal operation. During system filling, air venting from the unit is accomplished by the use of the standard manual air vent fitting installed on the coil. Manual air vent fitting, the screw should be turned counterclockwise no more than 1-½ turns to operate the air vent.

CAUTION: The air vent provided on the unit is not intended to replace the main system air vents and may not release air trapped in other parts of the system. Inspect the entire system for potential air traps and vent those areas as required, independently. In addition, some systems may require repeated venting over a period of time to properly eliminate air from the system.

Air System Balancing

All duct-work must be complete and connected, and all grilles, filters, access doors and panels must be properly installed to establish actual system operating conditions BEFORE beginning air balancing operations. Each individual unit and attached duct-work is a unique system with its own operating characteristics. For this reason, air balancing is normally done by balance specialists who are familiar with all procedures required to properly establish air distribution and fan system operating conditions. These procedures should not be attempted by unqualified personnel. After the proper system operation is established, the actual unit air delivery and the actual fan motor amperage draw for each unit should be recorded in a convenient place for future reference such as the inspection, installation, & start-up check sheet, a copy of which is provided on the back of this manual. Contact the Sales Representative or the factory for additional copies of this sheet.

The manufacturer assumes no responsibility for undesirable system operation due to improper design, equipment or component selection, and/or installation of ductwork, grilles, and other field supplied components.

Water System Balancing

A complete knowledge of the hydronic system, its components, and controls is essential to proper water system balancing and this procedure should not be attempted by unqualified personnel. The system must be complete and all components must be in operating condition BEFORE beginning water system balancing operations. Each hydronic system has different operating characteristics depending on the devices and controls in the system. The actual balancing technique may vary from one system to another. After the proper system operation is established, the appropriate system operating conditions such as various water temperatures and flow rates should be recorded in a convenient place for future reference. Before and during water system balancing, conditions may exist which can result in noticeable water noise or undesired valve operation due to incorrect system pressures. After the entire system is balanced, these conditions will not exist on properly designed systems.

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

INSTALLATION & MOUNTING INSTRUCTIONS

Filters

The filters should be replaced on a regular basis. The time interval between each replacement should be established based on regular inspection of the filter and should be recorded in the log for each unit. Refer to the replacement parts chart below for recommended filter size for each product type and size. If the replacement filters are not purchased from the factory, the filters used should be the same type and size as that furnished from or recommended by the factory. Consult the factory for applications using filter types other than the factory standard or optional product.

Drain Pan Install and Removal

Ensure that the drain pan is directly under all coils and condensate slots. Mounting locations of drain pan should be a minimum of 1/4" away from copper pipe. Use factory supplied screws or sheet metal screws no longer than 3/8". Failure to follow drain pan mounting instructions may cause condensate to bypass drain pan or could damage or puncture the coil.

Motor Data				Full Load Amps (Single Phase and 60Hz)							
				115 Volts		208 Volts		240 Volts		277 Volts	
Unit Size	Motor HP(s)		# of Motors	PSC	ECM	PSC	ECM	PSC	ECM	PSC	ECM
	PSC	ECM		Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
20	1/8	1/3	1	1.73	3.25	.81	2.25	.81	1.90	.64	1.29
30	1/4	1/2	1	3.22	4.86	1.29	3.13	1.25	2.54	1.37	2.06
40	1/2	1/2	1	5.14	5.15	2.37	3.21	2.27	2.54	2.35	2.26
50	1/4 x 2	1/2 x 2	2	5.93	8.72	2.58	5.29	2.47	4.11	2.63	3.47
60	1/2 x 2	1/2 x 2	2	10	9.6	4.42	5.91	4.3	4.64	4.32	4.6
70	1/2 x 2	3/4 x 2	2	13.96	19.04	5.80	13.33	6.10	11.37	5.94	7.40

NOTE: Based on 2 row dry coil and 2 in. MERV 8 filter. Nameplate values for amperage may be higher. Amps are based on total unit current draw.

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

MAINTENANCE

Fan and Motor

1. Disconnect all incoming power before servicing the unit.
2. Price Fan Coil units are supplied with permanently lubricated motors.
3. The blower and motor should be inspected annually for accumulation of dust and dirt. Clean as necessary.
4. Blower and motor can be accessed without disconnecting ductwork.

CAUTION: Motor may be very hot. Ensure the motor has cooled before continuing service.

5. PSC motors are provided with thermal overload protection. If the motor overheats and trips the thermal overload, it will automatically reset after cooling down to a proper operating temperature.
6. ECM motors are impedence protected and provides the same protection as a thermal overload motor. This complies with VL 2111 overheating protection for motors.

Coils

1. Disconnect all incoming power before servicing the unit.
2. To access coils for servicing, remove blower and motor assemblies.
3. The coil should be inspected periodically for accumulation of dust and dirt. Clean as necessary. Cleaning can be done by brushing the coils in the direction of the fins as to not damage them. Compressed air can also be used to blow out the dust particles in the coil. Vacuum up all dust particles so they can not damage the blower and motor.

Filter(s)

1. Filters should be replaced or removed after system start-up.
2. If filters are used beyond system start-up they should be changed regularly to avoid excessive restriction of air flow. Frequency would depend on environment.
3. Size Chart:

Unit Size	W	H	Qty
20	20 7/8 [530]	10 1/4 [260]	1
30	20 7/8 [530]	10 1/4 [260]	1
40	25 7/8 [657]	12 1/4 [311]	1
50	20 7/8 [530]	10 1/4 [260]	2
60	23 7/8 [606]	12 1/4 [311]	2
70	29 7/8 [759]	12 1/4 [311]	2

Troubleshooting Guide

General	1. Confirm fan coil size and rating with blueprint and schedule (check Control Assembly label on terminal unit). 2. Visually check electrical connections with the Control Wiring diagram(s) located inside the electrical enclosure or in the applicable controls brochure. 3. Verify that the supply voltage is the same as specified on the control diagram(s) or Voltage Information label.
Noise	1. Foreign material in fan. 2. Fan or duct size selection too small for application causing high air velocity. 3. Vibrating duct work. 4. Unbalanced fan wheel causing it to hit the housing.
Fan Does Not Operate	1. Check the unit wiring against the provided Control and Wiring diagrams. See inside cover of the electrical enclosure for diagrams. 2. Verify that the disconnect switch or breaker is not opened. 3. Check for proper control signal from thermostat. See thermostat for full heating and monitor output. 4. Fan wheel may be touching the housing.
Air Volume not as Specified	1. Check filter for excessive dust build-up. 2. Check fan for particle blockage. 3. Check coils for particle blockage. 4. Measure downstream static pressure; compare to fan curve. 5. Verify that the supply voltage is the same as specified on the wiring diagram. See wiring diagram pasted on the inside of the electrical enclosure or in the applicable controls brochure. 6. Insulating duct liner loose.

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

MAINTENANCE

FCHG/FCHGQ Electric Coil Removal Instructions

CAUTION: Disconnect all incoming power before any electrical installation or service is performed on the unit(s).

Ensure line power is off to the Fan Coil Control Panel. The control panel contains hazardous voltages when energized; make certain that incoming line voltage has been disconnected. The Fan Coil Electric Coil assembly, can be removed by following the steps listed below:

1. Open the control panel and disconnect any incoming wires that are not integrated in the enclosure; i.e. main supply and motor wires, as seen in **Figure 1**.
2. Use a utility knife to cut the sealant between the perimeter of the control panel and the outlet ductwork.
3. Using a ¼" driver, remove the screws securing the control panel to the outlet ductwork. There will be 3-4 screws located near the inside corners of the control box (**Figure 2**).
4. Once the sealant has been separated and the screws have been removed, the electric coil can slide out of the ductwork. Grab the control box securely and slide the coil out of the unit horizontally (**Figure 3)**. Be cautious when cutting the sealant and removing the screws as they are the only securing medium for the electric coil.

NOTE: See Electric Coils manual for troubleshooting.

FIGURE 1 ▼

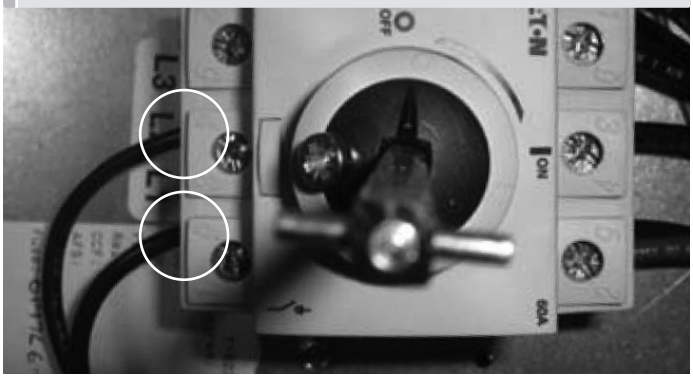
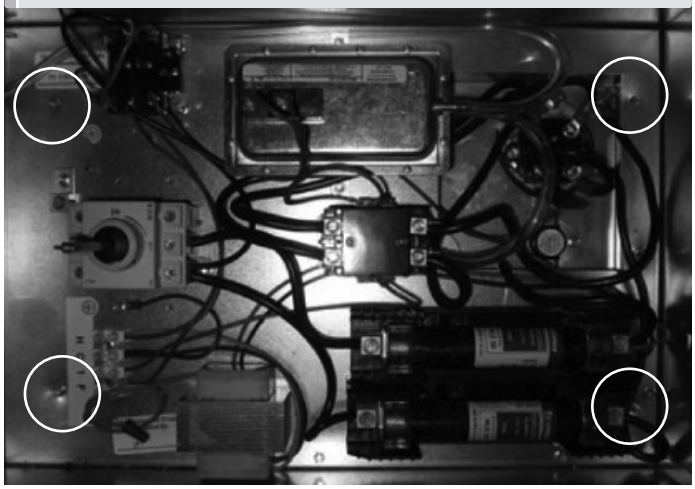


FIGURE 2 ▼



FAN COIL ELECTRIC COIL ▼

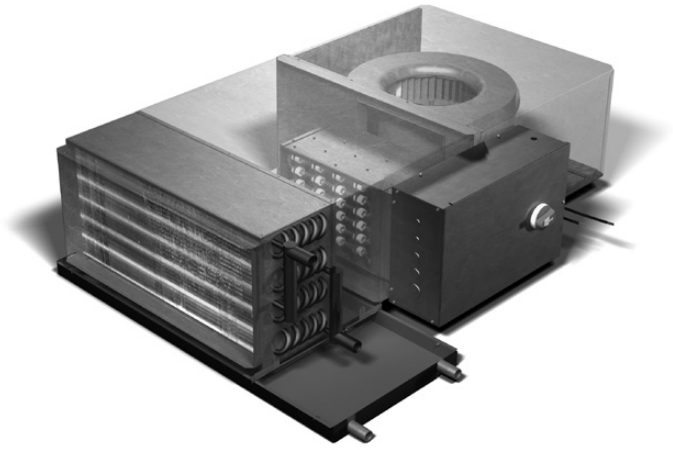
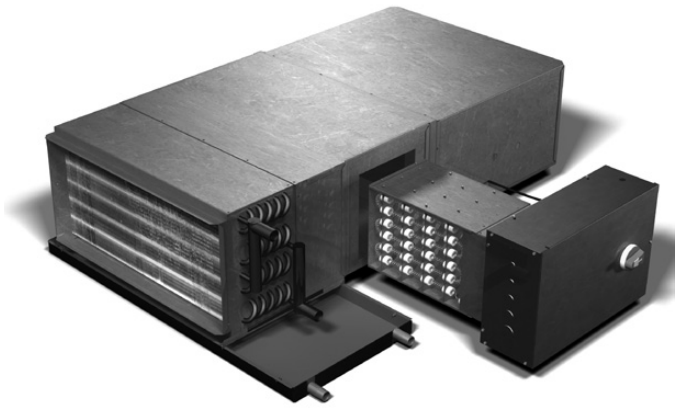


FIGURE 3 ▼



FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

MAINTENANCE

Replacement Parts

Component	Part Number	Description
PSC Fan Motors	019150-001	115V - 1/8 HP (Size 20)
	019151-001	208-240V - 1/8 HP (Size 20)
	019588-001	277V - 1/8 HP (Size 20)
	019152-002	115V - 1/4 HP (Sizes 30 & 50)
	09153-002	277V - 1/4 HP (Sizes 30 & 50)
	019154-003	115V - 1/2 HP (Sizes 40, 60 & 70)
	019589-002	208-240V - 1/4 HP (Sizes 30 & 50)
	019590-001	208-240V - 1/2 HP (Sizes 40, 60 & 70)
ECM Fan Motors	501091-001	115V - 1/2 HP (Size 30)
	501091-002	208 - 240V - 1/2 HP (Size 30)
	501091-003	277V - 1/2 HP (Size 30)
	501091-004	115V - 1/2 HP (Size 40)
	501091-005	208 - 240V - 1/2 HP (Size 40)
	501091-006	277V - 1/2 HP (Size 40)
	501091-007	115V - 1/2 HP (Size 50)
	501091-008	208 - 240V - 1/2 HP (Size 50)
	501091-009	277V - 1/2 HP (Size 50)
	501091-010	115V - 1/2 HP (Size 60)
	501091-011	208 - 240V - 1/2 HP (Size 60)
	501091-012	277V - 1/2 HP (Size 60)
	501091-013	115V - 3/4 HP (Size 70)
	501091-014	208 - 240V - 3/4 HP (Size 70)
	501091-015	277V - 3/4 HP (Size 70)
	501091-021	115V - 1/3 HP (Size 20)
	501091-022	208 - 240V - 1/3 HP (Size 20)
	501091-023	277V - 1/3 HP (Size 20)
PSC Fan Speed Controllers	233563-100	8A - 115V (Sizes 30 & 40)
	233563-200	8A - 208/240/277V (Sizes 30, 40, 50 & 60)
	233563-400	15A - 115V (Sizes 50 & 60)
ECM Fan Speed	232953-100	Sizes 30, 40, 50 & 60
ECM Deluxe	232953-200	Sizes 30, 40, 50 & 60 (Deluxe)

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

MAINTENANCE

Replacement Parts

Component	Part Number	Description
Fuse Block	019459-001	Fuse Block 600V 30A
Disconnect Switch	01903-001 019903-003	115/277V Single Pole 240V Two Pole
Capacitors	019874-001 019874-002 019874-003 019874-006 019874-007	5µF 10µF 15µF 7.5µF 20µF
Blowers	100185-001 100185-002 100185-003 100185-004	Size 20 Size 30 & 50 Size 40 & 60 Size 70
Filters	042297-057 042297-058 042297-059 042297-060 042312-001 042312-002 042312-003 042312-004 042292-001 042292-002 042292-003 042292-004	1" MERV 3 Filter (Sizes 20, 30 & 50) 1" MERV 3 Filter (Size 40) 1" MERV 3 Filter (Size 60) 1" MERV 3 Filter (Size 70) 2" MERV 8 Filter (Sizes 20, 30 & 50) 2" MERV 8 Filter (Size 40) 2" MERV 8 Filter (Size 60) 2" MERV 8 filter (Size 70) 2" MERV 13 Filter (Sizes 20, 30 & 50) 2" MERV 13 Filter (Size 40) 2" MERV 13 Filter (Size 60) 2" MERV 13 Filter (Size 70)
Control Components	019435-001 019436-001 019436-004 019436-005	120, 208, 240/24V - 40VA Transformer 120/24V - 50VA Transformer 120/24V - 20VA Transformer 277/24V - 50VA Transformer

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

MAINTENANCE

Installation Checklist

Receiving & Inspection

- ☐ Unit received undamaged
- ☐ All parts accounted for
- ☐ Unit arrangement/hand correct

Handling and Installation

- ☐ Unit mounted level and plumb
- ☐ Correct electrical service
- ☐ Proper access available for unit and components
- ☐ Correct overcurrent protection provided
- ☐ Rubber grommet isolators used
- ☐ Correct service switch/ disconnect provided
- ☐ Code compliance for all components
- ☐ Shipping screws and hardware removed
- ☐ Unit protected from dirt and foreign matter
- ☐ Correct chilled water line to the unit
- ☐ Correct hot water line to the unit

Cooling/heating Connections

- ☐ Unit mounted level and plumb
- ☐ Proper access available for unit and components
- ☐ Correct chilled water line to the unit
- ☐ Correct hot water line to the unit
- ☐ Code compliance for all components
- ☐ Shipping screws and hardware removed

Ductwork Connections

- ☐ Correct supply and return grille type and size
- ☐ Flexible duct connections to unit
- ☐ Insulate ductwork as required
- ☐ Control outside air to protect from heat/cold
- ☐ Insulate discharge silencer as required

Electrical Connections

- ☐ Refer to unit wiring diagram
- ☐ Wiring in code compliance
- ☐ Connect power service

FAN COILS – HORIZONTAL GENESIS & GENESIS QUIET

NOTES

This document contains the most current product information as of this printing.
For the most up-to-date product information, please go to priceindustries.com.