FCHG

HIGH-PERFORMANCE HORIZONTAL FAN COILS

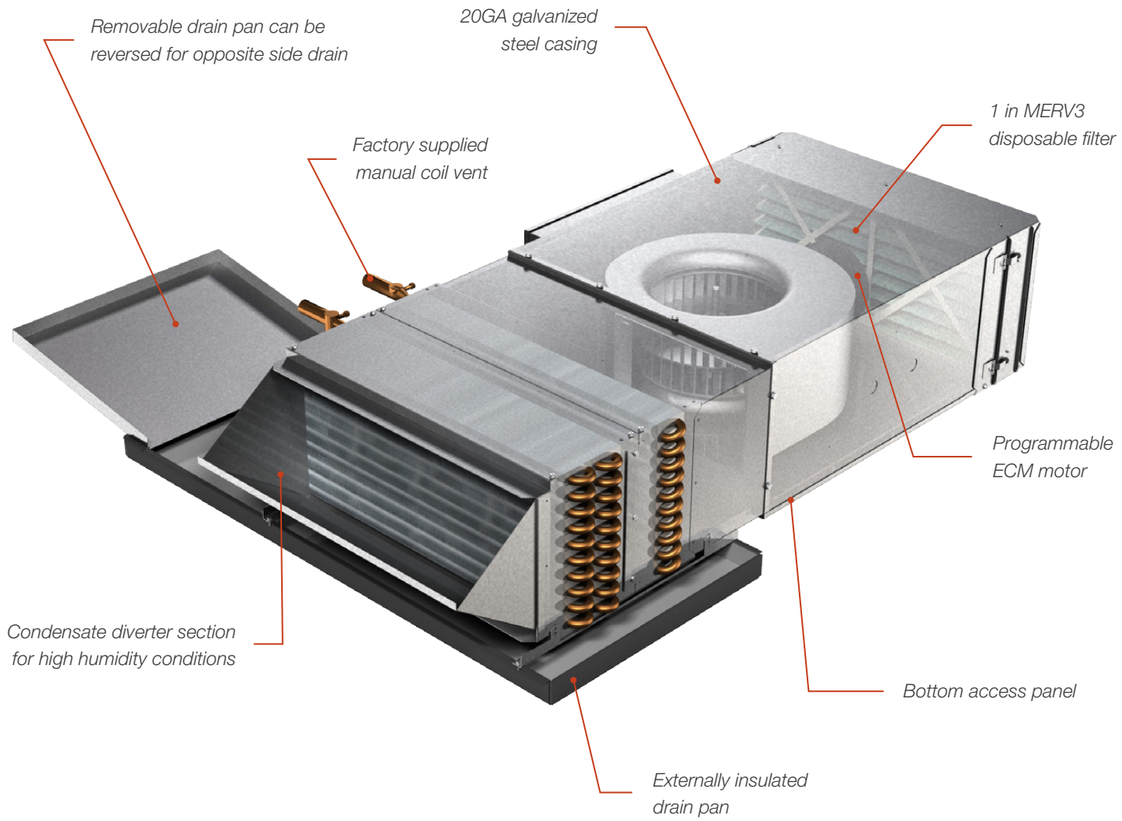


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FCHG

HIGH-PERFORMANCE HORIZONTAL FAN COILS

The FCHG is a high performance fan coil that features low noise, high capacity, and pressure capability up to 0.5 in. w.g. making it an excellent choice for a variety of applications. This high performance unit features a low profile design with casing heights as low as 10 ¼ in.

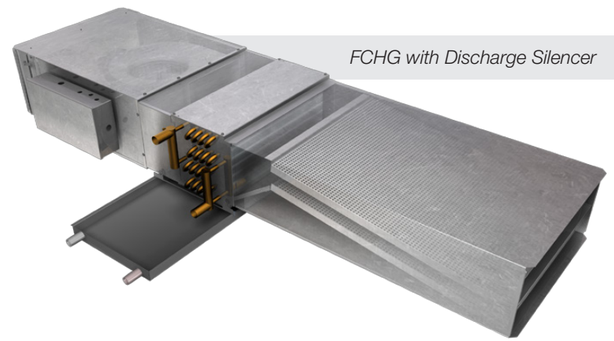


ENERGY EFFICIENT

+ Energy efficient hydronic cooling effectively meets zone cooling requirements without the need to deliver large quantities of conditioned air from a central HVAC system.
+ During unoccupied hours, the FCHG can be used to maintain the space temperature, allowing the primary air system to be shut off to save energy.
+ The programmable ECM motor can reduce the overall energy consumption of the unit.
+ The fully insulated casing reduces heat loss to/from the conditioned air.

QUIET OPERATION

+ The FCHG is designed for quiet operation with the large diameter, dynamically balanced blower wheels running at reduced RPM to keep fan noise at a minimum.
+ The blower/motor assembly is completely isolated from the casing with vibration mounts to reduce generated noise and transmitted vibration.
+ An optional discharge silencer, specifically designed for the FCHG, features optimized internal geometry to reduce discharge and radiated noise levels for sound-sensitive situations.



FCHG with Discharge Silencer

TYPICAL APPLICATIONS

The FCHG fan coil offers superior performance and a range of features that expand its application beyond that of a traditional fan coil. High cooling capacity and high external static capability meet the requirements for higher loads, larger zones and longer lengths of discharge ductwork. Hydronic cooling and an energy efficient ECM motor make the FCHG an ideal choice for LEED or Green projects, while low noise levels meet the needs of acoustically critical spaces such as classrooms and lecture halls.

STANDARD CONSTRUCTION

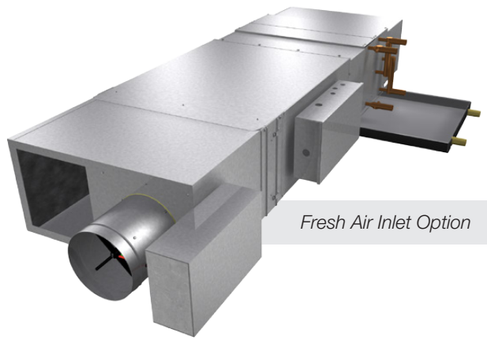
+ 20 GA. construction
+ ECM motor
+ Slip and drive inlet and discharge connections
+ Double width double Inlet (DWDI) direct driven blowers.
+ 1 in. MERV3 throwaway filter

OPTIONAL FEATURES

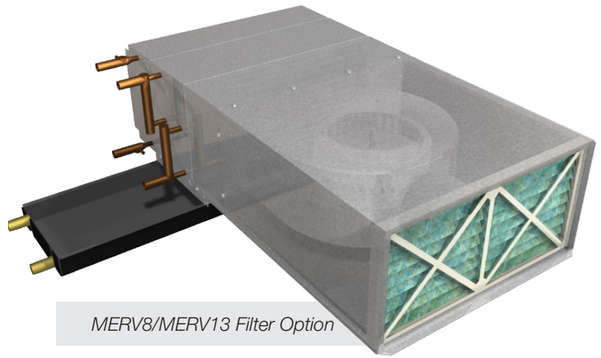
+ Discharge silencer (FCHGQ)
+ Inlet silencer
+ Fresh air inlet section
+ Electric heating coils
+ MERV 8 or 13 filters
+ OSHPD seismic certification
+ Stainless steel drain pan

IDEAL FOR RETROFIT INSTALLATIONS

+ The FCHG features a small footprint that allows this product to be installed in tight spaces.
+ A low profile casing and the reduced supply air volume of a hydronic system minimize ductwork and plenum height requirements.



Fresh Air Inlet Option



MERV8/MERV13 Filter Option

OPTIMAL INDOOR AIR QUALITY

+ A fresh air inlet option allows for accurate control and monitoring of outside air.
+ The high static capability of the FCHG allows for the use of filters, including MERV8 and MERV13, which dramatically reduce airborne contaminants.
+ Liner options including solid metal, perforated metal, fiber free foam, and foil face fiberglass help keep particulate from entering the airflow.

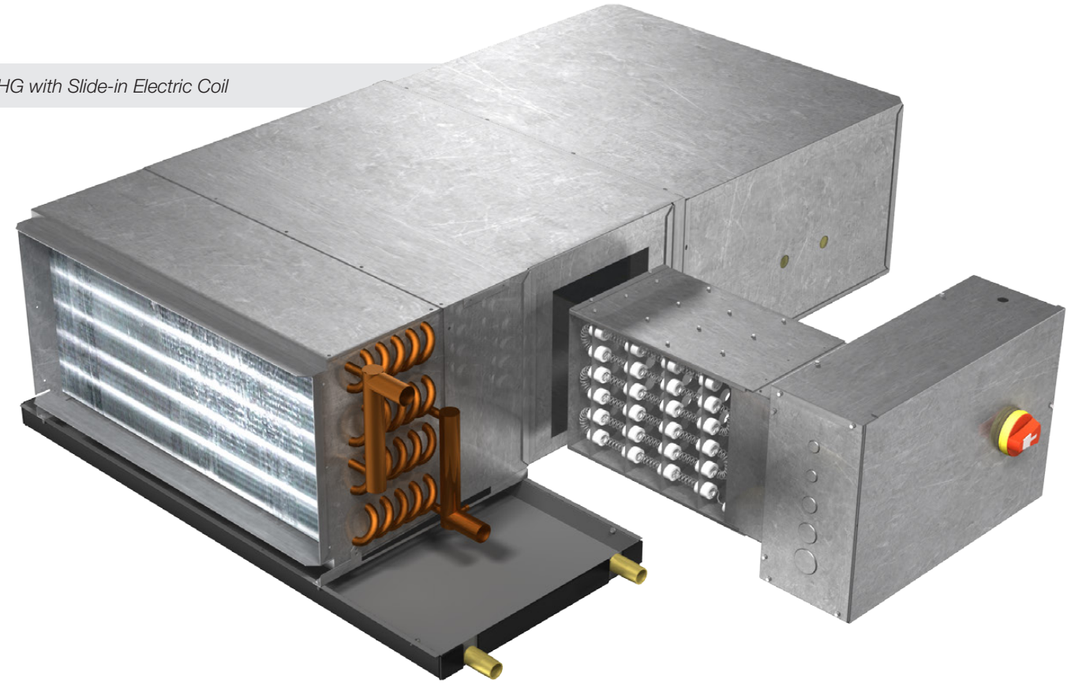
WATER COIL CONFIGURATIONS

+ The FCHG is AHRI 410 certified and features water coils with high quality construction copper tubes, aluminum fins, and a 20 GA galvanized steel casing.
+ For optimal performance and versatility, water coils are available in RH and LH configurations with the following circuiting options:
  - 2 pipe system: 1-6 rows
  - 4 pipe system: 3-6 rows cooling and 1-2 rows heating, maximum 8 rows

ELECTRIC COIL

+ Electric reheat is available as an alternative to hot water reheat with reduced pressure drop across the unit.
+ Price electric coils are ETL listed to meet electrical safety standards, and comply with CSA236/UL1995.
+ Electric coils feature a slide-in design for easy maintenance and are shipped preassembled for reduced on-site installation.

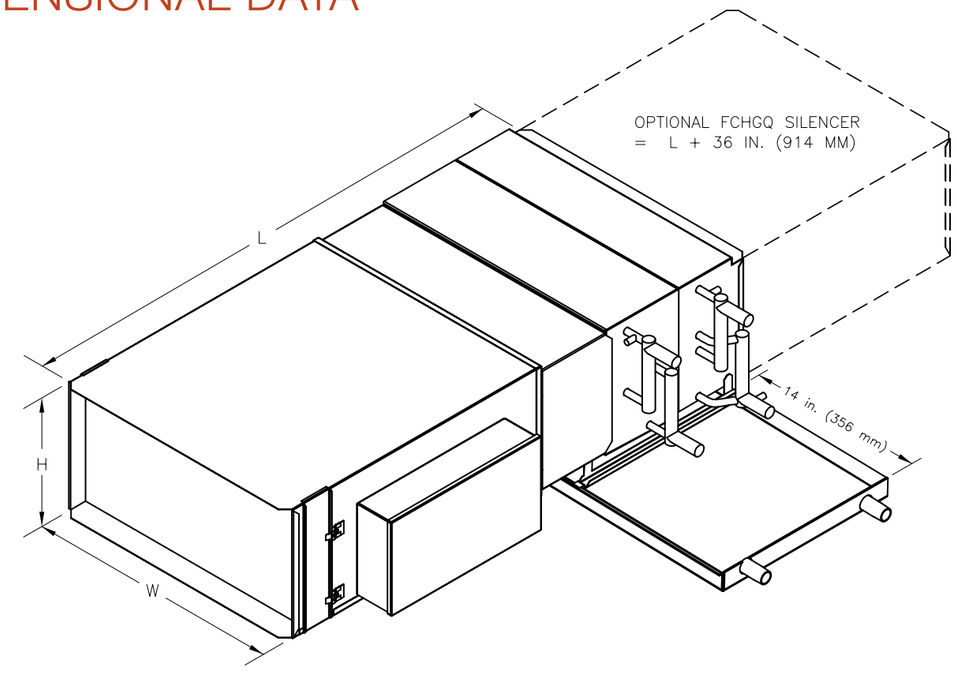
FCHG with Slide-in Electric Coil



EASY INSTALLATION AND MAINTENANCE

+ Reduced ducting requirements, factory mounted and calibrated controls, and single point power connections help keep construction and installation costs to a minimum.
+ A bottom access panel helps facilitates quick and easy maintenance on the motors and blowers.

DIMENSIONAL DATA



Size	Width (W)	Height (H)	Length (L)	
			Cooling Only or Heating Only	Preheat or Reheat
20	21 in. (533 mm)	10 1/2 in. (267 mm)	35 5/8 in. (905 mm)	42 3/8 in. (1077 mm)
30				
40	26 in. (660 mm)	12 1/2 in. (318 mm)		
50	42 in. (1067 mm)	10 1/2 in. (267 mm)	38 1/8 in. (969 mm)	44 7/8 in. (1140 mm)
60	48 in. (1219 mm)	12 1/2 in. (318 mm)		
70	60 in. (1524 mm)		41 1/8 in. (1045 mm)	47 7/8 in. (1216 mm)

Cooling only or Preheat only configurations include a 5 7/8 in. (149 mm) Diverter added to Length (L)
FCHGQ includes a 36 in. (914 mm) silencer added to Length (L)

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