WILLIAMS™

HORIZONTAL FAN COILS
200 to 1,200 CFM

HIGH-PERFORMANCE HORIZONTAL FAN COILS 600 to 2,200 CFM



WILLIAMS HORIZONTAL FAN COIL

Table of Contents

FAN COIL CERTIFICATIONS 4
MORE THAN JUST FAN COILS 5
MODEL IDENTIFICATION SYSTEM 6
LH SERIES STANDARD FEATURES 7
LH SERIES OPTIONS 8
LH SERIES DESCRIPTION 9
LH SERIES HYDRONIC COOLING CAPACITY 11
LH SERIES HYDRONIC HEATING CAPACITY 12
LH SERIES COIL DATA 13
LH SERIES ELECTRIC HEAT 14
LH SERIES AIRFLOW DATA 15
LH SERIES AIRFLOW DATA 16
LH SERIES MOTOR DATA 17
LH SERIES SOUND DATA WITH ECM MOTORS 18
LH SERIES SOUND DATA WITH PSC MOTORS 19
LH SERIES WEIGHTS 20
LH SERIES WEIGHTS 21
LH SERIES - GENERAL DRAWING NOTES 22
- LH BASIC (B) 200 TO 1,200 CFM 23
- LH-R REAR RETURN AIR PLENUM (R) / FRONT SUPPLY - 200 TO 1,200 CFM 24
- LH BOTTOM RETURN AIR PLENUM (R) / FRONT SUPPLY 200 TO 1,200 CFM 25
- LH DELUXE (D) BOTTOM RETURN / FRONT SUPPLY 200 TO 1,200 CFM 26
- LH FLUSH (F) FRONT SUPPLY / BOTTOM REAR 200 to 1,200 CFM 27
- LH FLUSH (F) FRONT SUPPLY / REAR RETURN 200 to 1,200 CFM 28
- LH FLUSH (F) BOTTOM SUPPLY / BOTTOM RETURN 200 to 1,200 CFM 29
- LH LOW PROFILE (X) - 800 CFM 30
- LH LOW PROFILE (X) - 1,000 CFM 31
- LH LOW PROFILE (X) - 1,200 CFM 32
- LH LOW PROFILE FRONT SUPPLY/REAR RETURN AIR PLENUM (Y) - 800 CFM 33
- LH LOW PROFILE W/RETURN AIR PLENUM (Y) - 1,000 CFM 34
- LH LOW PROFILE W/RETURN AIR PLENUM (Y) - 1,200 CFM 35

HH SERIES DESCRIPTION 36
HH SERIES - HYDRONIC COOLING CAPACITY 38
HH SERIES - HYDRONIC HEATING PERFORMANCE 39
HH SERIES - COIL DATA 40
HH SERIES - ELECTRIC HEAT 41
HH SERIES - ELECTRIC HEAT 42
HH SERIES - AIR FLOW DATA 43

WILLIAMS HORIZONTAL FAN COIL

HH SERIES - AIR FLOW DATA 44
HH SERIES - MOTOR DATA 45
HH SERIES - SOUND DATA WITH ECM MOTOR 46
HH SERIES - SOUND DATA WITH PSC MOTOR 47
HH SERIES - WEIGHTS 48
HH SERIES - WEIGHTS 49
HH SERIES - GENERAL DRAWING NOTES 50
HH BASIC (B) FRONT SUPPLY / OPEN RETURN 600 to 1,200 CFM 51
HH BASIC (B) – FRONT SUPPLY / OPEN RETURN 1,500 to 2,200 CFM 52
HH REAR RETURN AIR PLENUM (R) FRONT SUPPLY 600 to 1,200 CFM 53
HH REAR RETURN AIR PLENUM (R) FRONT SUPPLY 1,500 to 2,200 CFM 54
HH BOTTOM RETURN AIR PLENUM (R) FRONT SUPPLY - 600 to 1,200 CFM 55
HH DELUXE (D) FRONT SUPPLY / REAR RETURN 600 to 2,200 CFM 56
HH DELUXE (D) FRONT SUPPLY / BOTTOM RETURN 600 to 2,200 CFM 57
HH FLUSH (F) FRONT SUPPLY / BOTTOM RETURN 600 to 2,200 CFM 58
HH FLUSH (F) BOTTOM SUPPLY AND RETURN 600 to 2,200 CFM 59
HH FLUSH (F) FRONT SUPPLY AND REAR RETURN 600 to 2,200 CFM 60
GENERAL HORIZONTAL FAN COIL INFORMATION 61

WILLIAMS HORIZONTAL FAN COIL

FAN COIL CERTIFICATIONS

ETL LISTED

Williams horizontal fan coils are ETL listed. The C-ETL-US mark indicates that these fan coil units have been evaluated by Intertek and found to comply with applicable U.S. and Canadian safety standards. As part of the ETL listing program, the products are independently evaluated and subject to ongoing periodic factory inspections by Intertek to ensure continued compliance.

AHRI CERTIFIED

Williams horizontal fan coils are certified in accordance with Air-Conditioning, Heating, and Refrigeration Institute (AHRI) industry standard AHRI 440 for room fan coil units. This certification confirms that the units have been rated in compliance with the latest edition of ANSI/AHRI Standard 440, including Addendum 1 for the Performance Rating of Room Fan Coils, and that published performance ratings are subject to verification through AHRI-sponsored, independent third-party testing.

ALS CERTIFICATION MARK FOR DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS

Williams horizontal fan coils have been tested and found to comply with the applicable requirements of NSF/ANSI 61 for drinking water system components and NSF/ANSI 372 for lead content. As part of the certification program, ALS conducts periodic factory inspections to ensure continued compliance of all listed products.

WILLIAMS HORIZONTAL FAN COIL

MORE THAN JUST FAN COILS

For more than a century, Williams has been a trusted leader in HVAC solutions, delivering high-quality equipment for residential, commercial, and industrial applications. Today, Williams continues that legacy by offering one of the most extensive ranges of fan coils and blower coil air handlers in North America, with more configurations and size options than any other manufacturer in the market.

Headquartered in Colton, California, Williams supports customers across the United States and international markets with full application engineering, sales, marketing, and administrative services.

Our commitment is to provide responsive, high-quality support that ensures the successful execution of your construction projects. We emphasize a collaborative, partnership-driven approach that fosters better project outcomes and long-term customer satisfaction.



COLTON, CALIFORNIA FACILITY

FAN COIL ASSEMBLY

WILLIAMS HORIZONTAL FAN COIL

MODEL IDENTIFICATION SYSTEM

1

MODEL	
BH	HORIZONTAL BLOWER COIL
BV	VERTICAL BLOWER COIL
AH	HORIZONTAL AIR HANDLER
AV	VERTICAL AIR HANDLER
ER	VERTICAL STACK
LH	HORIZONTAL
LV	VERTICAL
LS	LOW SILHOUETTE VERTICAL
HIGH PERFORMANCE MODEL	
HH	HORIZONTAL
CV	CASED VERTICAL

2

CFM
200 To 12,000
EXAMPLE: 800 CFM = 800

3

SYSTEM (Cooling / Heating Type)	
DX	DIRECT EXPANSION
DH	DIRECT EXPANSION / HYDRONIC HEAT
DS	DIRECT EXPANSION / STEAM HEAT
S2	STEAM HEAT
WS	HYDRONIC COOL / STEAM HEAT
W2	TWO PIPE HYDRONIC
W4	FOUR PIPE HYDRONIC
Z2	TWO PIPE WITH WILD COIL
Z4	FOUR PIPE WITH WILD COIL

4

CABINET STYLE	
B	BASIC
D	DELUXE
F	FLUSH RETURN / TOP SUPPLY (CV)
F	FLUSH BOTTOM RETURN AND SUPPLY (LH/HH)
G	REAR RETURN / BOTTOM SUPPLY (CV)
H	HEAT ONLY (CV)
J	DELUXE FRONT RETURN / TOP SUPPLY (CV)
K	BASIC FRONT RETURN / TOP SUPPLY (CV)
L	TOP RETURN / BOTTOM SUPPLY (CV)
M	MAIN (ER)
M	MODULAR (LV)
O	HEAT ONLY DELUXE (CV)
Q	BOTTOM RETURN AIR PLENUM (LH / HH)
Q	REAR RETURN / BOTTOM SUPPLY DELUXE (CV)
R	FRONT RETURN / TOP SUPPLY DELUXE (CV)
R	RECESSED (LS / LV)
R	REAR RETURN AIR PLENUM (LH / HH)
S	SECONDARY ER SLOPE TOP (LV)
S	SLOPE TOP (LV)
S	FRONT SUPPLY / FRONT RETURN (CV)
W	WRAP SLOPE (LV)

5

COIL ROWS	
COOLING	HEATING

6

MOTOR VOLTAGE	
1	120-1-60
2	208-1-60
3	208-3-60
4	230-1-60
5	230-3-60
6	277-1-60
7	460-3-60
8	575/600-3-60
9	208/230-1-50[3]
A	190/380-1-50[3]
B	115-1-60 HC

7

HAND CONNECTIONS[1]	
D	REAR
E	OPPOSITE END
L	LEFT
R	TIGHT
T	TOP

8

ELECTRIC HEAT	
KILOWATTS[2]	VOLTAGE
00 = NONE	0 = NONE
0A = 0.5	1 = 120-1-60
01 = 1	2 = 208-1-60
1A = 1.5	3 = 230-1-60
02 = 2	4 = 277-1-60
2A = 2.5	5 = 208-3-60
03 = 3	6 = 230-3-60
3A = 3.5	7 = 460-3-60
04 = 4	8 = 347-1-60
05 = 5	9 = 575-3-60
06 = 6	
07 = 7	
08 = 8	
09 = 9	
10 = 10	
Up to 65	

9

NOTES: Unless otherwise specified.

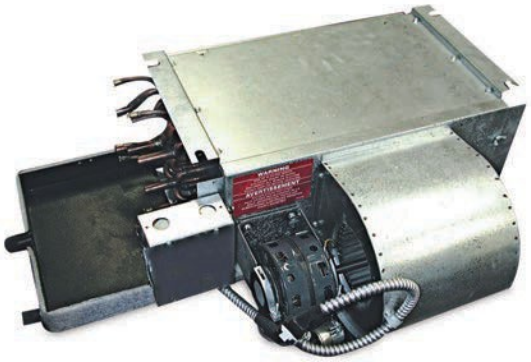
1. Coil connections are determined by facing the supply (or discharge) air opening. See General Information for unit hand determination.
2. The maximum allaowable electric heating element kW size is depend on unit voltage, unit size and minimum airflow.
3. Units may be configured for 50 Hz applications. Contact the factory for configuration details and applicable limitations.

WILLIAMS HORIZONTAL FAN COIL

LH SERIES STANDARD FEATURES

- Heavy-gauge galvanized steel cabinet with ½-inch neoprene-coated fiberglass insulation (1.5 PCF density).The blower scroll and wheel are heavy gauge, galvanized steel.
- Multiple coil configurations are available to match specific heating and cooling requirements. Coils are constructed of ½-inch OD copper tubes with aluminum fins (12 FPI) and include a manual air vent on hydronic coils; DX and steam coils do not include an air vent. All coils are 100% submerged pressure tested at 350 PSI with a 300 PSI maximum working pressure.
- Galvanized condensate drain pan with durable epoxy powder-coat finish, tested to 650 hours salt spray per ASTM B117. Pan includes ⅛-inch closed-cell insulation and primary and secondary drain connections.
- Controls and motors are factory wired and terminated in a junction box for single-point power connection. Standard motors are three-speed, 120V, single-phase, 60 Hz PSC with quick-connect plug.
- One-inch reinforced duct collars are provided on return and supply air openings.
- Deluxe and Flush models feature a swing-down, hinged return air grille/access door.
- Deluxe units include a single-deflection supply air grille.
- One-inch fiberglass throwaway filter is standard on all models except Horizontal Basic.
- Units are individually tagged, packaged, and shipped in accordance with the installation schedule.
- ETL listed and AHRI certified.
- Every unit is factory tested and inspected to ensure proper operation prior to shipment.





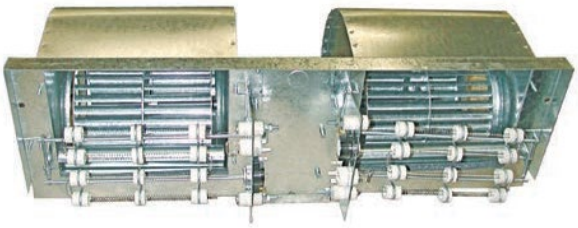


WILLIAMS HORIZONTAL FAN COIL

LH SERIES OPTIONS

- Soft white, powder coated epoxy cabinet that is subjected to a 1500-hour salt spray test in accordance with ASTM-B117.
- Drain Pans - stainless steel.
- Insulation, foil face, elastomeric and double wall separate foam insulation.
- Coils - custom tubes and fin material, Phenolic anti-corrosion coating (PAC), stainless steel end plates. All options are available in one to six rows.
- Three speeds, 208-230V-1Ø-50-60Hz or 277V-1Ø-60Hz PSC motor with quick connect plug.
- Systems - two or four pipes, hydronic cooling/heating, steam, direct expansion (DX), and/or electric heat. Steam heat. DX coating.
- Intelliflow takes advantage of your building's existing piping infrastructure to provide on-demand, 24/7 heating and cooling.
- Cabinet - Deluxe, Flush and for a premium custom color.
- ECM motors; programmed 3-speed, or variable volume, 120/208/230V-1Ø-60Hz or 277V-1Ø-60Hz.
- Controls - wide selection of factory mounted valves and controls.
- Filters - two-inch-thick throwaway, washable and pleated.
- Flow control circulator for water heating custom applications.
- Grilles are available as double deflection and in custom colors.
- Electric strip heaters are available in various capacities.









WILLIAMS HORIZONTAL FAN COIL

LH SERIES DESCRIPTION

HORIZONTAL BASIC LH-B

The Horizontal Basic (LH-B / low static) features a slim, compact design ideal for drop ceilings, closets, hallways, and other concealed applications. These units include a powder-coated epoxy drain pan, offer a wide range of coil, motor, and control options, and are supplied without an exterior cabinet.



HORIZONTAL WITH RETURN AIR PLENUM LH-R

The Horizontal with Return Air Plenum (LH-R / low static) is the basic LH-B model equipped with a galvanized rear return-air plenum. Designed for ceiling, closet, hallway, and bathroom installations, the plenum conceals the blower motor while allowing easy service access from the bottom. Available with bottom return (formerly LH-Q) and includes a throwaway filter.



HORIZONTAL DELUXE LH-D

The Horizontal Deluxe (LH-D / low static) is a fully cased fan coil for exposed ceiling applications. Designed for free-blow installations where ductwork is limited, it is well suited for remodels and similar applications. Cabinets are constructed of cold-rolled steel with a durable 385°F baked, soft-white epoxy powder-coated finish.



HORIZONTAL FLUSH LH-F

The Horizontal Flush (LH-F / low static) is a recessed fan coil designed for flush ceiling installations with ducted supply air. A telescoping frame and hinged access panel allow adaptation to various ceiling types, and the unit features the same durable powder-coated access panel as the Horizontal Deluxe.



WILLIAMS HORIZONTAL FAN COIL

HORIZONTAL DELUXE BOTTOM SUPPLY AND RETURN

The Horizontal Flush Bottom Supply and Return, formerly LH-E (low static), is now offered as an LH-F (Flush) selectable option. This recessed fan coil is designed for flush ceiling applications and features a telescoping frame and hinged access panel for installation flexibility. It is finished in the same durable, powder-coated cabinet as the Horizontal Deluxe.



HORIZONTAL WITH BOTTOM RETURN AIR PLENUM

Formerly LH-Q, the Horizontal with Bottom Return-Air Plenum is now available as an LH-R (Rear Return) selectable option. This low-static fan coil (up to 0.25 ESP) includes a coil, blower/motor assembly with quick-connect plug, and a galvanized, powder-coated epoxy drain pan with ½-inch thick, 1.5 pounds per cubic foot density, one side with nonwoven fiberglass mat insulation. The rear plenum conceals the blower and motor while allowing easy service access. Suitable for ceiling, closet, and hallway installations.



LOW PROFILE HORIZONTAL (LH-X)

The Low-Profile Horizontal fan coils are designed for low-clearance installations such as drop ceilings, closets, hallways, and other concealed spaces. The low-static LH-X model is ideal where LH-B dimensions are not acceptable and includes a powder-coated epoxy drain pan with multiple coil, motor, and control options.



LOW PROFILE HORIZONTAL WITH RETURN AIR PLENUM (LH-Y)

The LH-Y is a Low-Profile LH-X unit with a galvanized rear return-air plenum. Designed for ceiling, closet, hallway, and bathroom installations, the plenum conceals the blower motor while providing convenient service access from the bottom. Units include a throwaway filter.



WILLIAMS HORIZONTAL FAN COIL

LH SERIES HYDRONIC COOLING CAPACITY

Williams Horizontal Fan Coils are certified in compliance with Air Conditioning, Heating, and Refrigeration Institute (AHRI) industry standard AHRI-440 for room fan coil units. Approved standard ratings are tabulated below. For additional information, please consult AHRI's website at www.ahrinet.org.

STANDARD RATINGS							COOLING CAPACITY	
SIZE	**MOTOR TYPE**	**CABINET STYLE [2]**	**COIL ROWS**	**RATED CFM**	**GPM**	**WPD (FT/H20)**	**TOTAL COOLING (BTUH)**	**SENSIBLE COOLING (BTUH)**
002	PSC	B	3	318	1.67	0.97	8,306	6,550
		R	3	285	1.55	0.85	7,728	6,042
		D,E,F	3	269	1.49	0.80	7,428	5,783
	ECM	B, D, F, R	3	200	1.21	0.54	6,017	4,588
003	PSC	B	3	340	1.76	1.06	8,690	6,887
		R	3	308	1.65	0.95	8,195	6,449
		D,E,F	3	296	1.60	0.89	7,928	6,216
	ECM	B, D, F, R	3	300	1.61	0.91	8,000	6,278
004	PSC	B	3	473	2.66	2.61	13,149	9,993
		R	3	440	2.53	2.38	12,574	9,500
		D,E,F	3	418	2.46	2.26	12,176	9,165
	ECM	B, D, F, R	3	400	2.38	2.12	11,840	8,884
006	PSC	B	4	633	3.40	2.10	16,853	13,073
		R	4	588	3.23	1.91	16,021	12,341
		D,E,F	4	563	3.14	1.81	15,596	11,973
	ECM	B, D, F, R	4	600	3.90	1.96	19,354	14,330
008	PSC	B	4	833	5.34	3.72	26,577	19,582
		R	4	773	5.04	3.36	25,135	18,403
		D,E,F	4	737	4.94	3.23	24,595	17,967
	ECM	B, D, F, R	4	800	5.19	3.54	25,863	18,996
		X, Y	3	800	3.97	2.94	19,655	15,341
010	PSC	B	4	1,031	6.93	6.49	34,381	24,858
		R	4	979	6.66	6.04	33,136	23,862
		D,E,F	4	951	6.54	5.83	32,511	23,365
	ECM	B, D, F, R	4	1,000	6.73	6.16	33,467	24,124
		X, Y	3	1,000	6.59	9.37	32,775	23,199
012	PSC	B	4	1,184	8.75	10.87	43,438	30,384
		R	4	1,130	8.40	10.08	41,773	29,108
		D,E,F	4	1,097	8.23	9.69	40,935	28,474
	ECM	B, D, F, R	4	1,200	8.77	10.90	43,511	30,434
		X, Y	3	1,200	8.30	15.45	41,082	28,499

Notes: Unless otherwise specified

1. Ratings are based on the standard coil circuits with 12 FPI, 80°F DB and 67°F WB EAT, 45°F EWT, 10°F water temperature rise, high fan speed, motor voltage 115V-1Ph-60Hz, airflow under dry coil conditions and actual CFM.
2. Style Legend - B = Basic; D = Deluxe; F = Flush, R = Rear return-air plenum X = Low-Profile Ceiling Concealed, and Y = Low-Profile Ceiling Concealed with Plenum.
3. For other application ratings, use William's computer selection software or contact your local Williams representative.

WILLIAMS HORIZONTAL FAN COIL

LH SERIES HYDRONIC HEATING CAPACITY

STANDARD RATINGS							HEATING CAPACITY
SIZE	MOTOR TYPE	CABINET STYLE [2]	COIL ROWS	RATED CFM	GPM	WPD (FT/H^{2}0)	(BTUH)
002	PSC	B	1	327	1.18	0.27	11,654
		R	1	295	1.21	1.07	11,928
		D, E, F	1	279	1.16	0.99	11,471
	ECM	B, D, F, R	1	200	0.91	0.63	9,010
003	PSC	B	1	346	1.36	1.31	13,304
		R	1	317	1.27	1.17	12,536
		D, E, F	1	302	1.36	1.33	13,461
	ECM	B, D, F, R	1	300	1.23	1.09	12,068
004	PSC	B	1	484	1.92	2.81	18,825
		R	1	447	1.81	2.54	17,844
		D, E, F	1	429	1.77	2.42	17,349
	ECM	B, D, F, R	1	400	1.68	2.20	16,529
006	PSC	B	1	654	2.64	5.79	25,863
		R	1	603	2.49	5.22	24,486
		D, E, F	1	578	2.43	4.95	23,787
	ECM	B, D, F, R	1	600	2.48	5.19	24,403
008	PSC	B	1	850	2.46	5.10	24,308
		R	1	791	2.36	4.68	23,235
		D, E, F	1	761	2.30	4.46	22,669
	ECM	B, D, F, R	1	800	2.37	4.74	23,403
		X, Y	1	800	2.37	4.74	23,403
010	PSC	B	1	1059	3.06	8.27	30,107
		R	1	1002	2.95	7.75	29,095
		D, E, F	1	974	2.90	7.50	28,584
	ECM	B, D, F, R	1	1000	2.95	7.73	29,059
		X, Y	1	1000	3.38	11.64	33,390
012	PSC	B	1	1217	3.66	12.78	36,091
		R	1	1150	3.53	11.95	34,828
		D, E, F	1	1117	3.46	11.54	34,188
	ECM	B, D, F, R	1	1200	3.63	12.58	35,775
		X, Y	1	1200	4.12	19.11	40,729

Notes: Unless otherwise specified

1. Ratings are based on standard coil circuits with 12 FPI, 70° F DB EAT, 180° F EWT, 20° F water temperature rise, high fan speed, motor voltage 115V-1Ph-60Hz, and airflow under dry coil conditions and actual CFM.
2. Style Legend - B = Basic; D = Deluxe; F = Flush, R = Rear return-air plenum X = Low-Profile Ceiling Concealed, and Y = Low-Profile Ceiling Concealed with Plenum.
3. For other application ratings, use William's computer selection software or contact your local Williams representative.

WILLIAMS HORIZONTAL FAN COIL

LH SERIES COIL DATA

Coils are made from ½" O.D. copper tubing with 0.016" wall thickness, and tubes are staggered for maximum heat transfer. A manual air vent is standard on all hydronic coils. DX and steam coils do not include manual air vent.

All coils are 100% underwater pressure tested to 350 PSIG with a 300 PSIG max working pressure. Steam coils are rated for up to 15 PSIG or 250ºF.

Coils are available in two or four pipes, and from one to six row configurations with any combination of chilled or hot water, steam, or direct expansion. Custom circuiting is available on request.

Coil Rows	002	003	004	006	008	010	012
Single-Row Coil	STANDARD COIL						
Two-Row Coil							
Three-Row Coil							
Four-Row Coil			OPTIONAL COIL				
Five-Row Coil *							
Six-Row Coil							
*	When a DX coil is combined with a hot water coil, the maximum is five functional coil rows. One row is left blank between the DX cooling and hot water heating sections to provide freeze protection for the heating coil.						

COIL OPTIONS:

- Reheat coil position is standard; preheat coil position is optional.
- Standard coil construction is 12 fins per inch (FPI); 10–16 FPI is available upon request.
- Standard chilled water and hot water coil stub-out connections are 1/2" or ¾" OD based on flow.
- DX coils include a distributor and nozzle; the TXV is field-supplied and installed.
- Steam coils are rated at 1 to 15 PSIG.
- Phenolic anti-corrosion coating (PAC) is available upon request.
- Stainless steel tubes, fins, and end plates are available upon request.
- Custom tube configurations are available upon request.



WILLIAMS HORIZONTAL FAN COIL

LH SERIES ELECTRIC HEAT

Electric heat may be furnished with either hydronic, direct expansion or steam coils and is factory mounted, wired, and tested. Option equipped with low watt density (for long life) nichrome wire elements. The heater has a built-in, high limit, and fusible link to provide maximum safety. Electric heat for the LH Series is available only in the preheat position.

NOTE: Dark gray cells indicate electric heat kW sizes that are not available.

SIZE	kW	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
	VOLTAGE	AMPS									
002 (low static only)	115	4.3	8.7	13.0	17.4						
	208	2.4	4.8	7.2	9.6						
	230	2.2	4.3	6.5	8.7						
	277	1.8	3.6	5.4	7.2						
003	115	4.3	8.7	13.0	17.4	21.7	26.1				
	208	2.4	4.8	7.2	9.6	12.0	14.4	16.8			
	230	2.2	4.3	6.5	8.7	10.9	13.0	15.2			
	277	1.8	3.6	5.4	7.2	9.0	10.8	12.6			
004	115	4.3	8.7	13.0	17.4	21.7	26.1	30.4			
	208	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	21.6	
	230	2.2	4.3	6.5	8.7	10.9	13.0	15.2	17.4	19.6	
	277	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	
006	115	4.3	8.7	13.0	17.4	21.7	26.1	30.4	34.8	39.1	43.5
	208	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	21.6	24.0
	230	2.2	4.3	6.5	8.7	10.9	13.0	15.2	17.4	19.6	21.7
	277	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.1
008	115	4.3	8.7	13.0	17.4	21.7	26.1	30.4	34.8	39.1	43.5
	208	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	21.6	24.0
	230	2.2	4.3	6.5	8.7	10.9	13.0	15.2	17.4	19.6	21.7
	277	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.1
010	115	4.3	8.7	13.0	17.4	21.7	26.1	30.4	34.8	39.1	43.5
	208	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	21.6	24.0
	230	2.2	4.3	6.5	8.7	10.9	13.0	15.2	17.4	19.6	21.7
	277	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.1
012	115	4.3	8.7	13.0	17.4	21.7	26.1	30.4	34.8	39.1	43.5
	208	2.4	4.8	7.2	9.6	12.0	14.4	16.8	19.2	21.6	24.0
	230	2.2	4.3	6.5	8.7	10.9	13.0	15.2	17.4	19.6	21.7
	277	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	16.2	18.1

Notes: Unless otherwise specified

1. Ratings are based on 70°F DB EAT, high fan speed, and airflow under dry coil conditions and actual CFM.
2. Minimum allowable airflow must achieve 40 CFM per kilowatt.
3. For greater heating capacity (kW), consult William's engineering team.

WILLIAMS HORIZONTAL FAN COIL

LH SERIES AIRFLOW DATA

The table below shows the nominal airflow (CFM) at various external static pressure (ESP) levels under dry-coil conditions.

AIR FLOW DATA			EXTERNAL STATIC PRESSURE (ESP)								
LH SIZE	MOTOR TYPE	CABINET STYLE	0.00			0.05			0.10		
			HI	MED	LOW	HI	MED	LOW	HI	MED	LOW
002	PSC	B	318	226	140	285	196	110	253	166	80
		R	285	196	110	253	166	80	220	136	50
		D, E, F	269	181	95	236	151	65	203	123	40
	ECM	B, D, F, R	200	150	100	200	150	100	200	150	100
003	PSC	B	340	294	225	308	260	195	279	226	165
		R	308	260	195	279	226	165	250	192	135
		D, E, F	296	243	180	265	209	150	232	177	121
	ECM	B, D, F, R	300	225	150	300	225	150	300	225	150
004	PSC	B	473	378	264	436	352	232	399	326	200
		R	440	352	232	399	326	200	362	300	168
		D, E, F	418	339	216	381	313	184	347	283	153
	ECM	B, D, F, R	400	300	200	400	300	200	400	300	200
006	PSC	B	633	513	341	583	466	312	532	419	283
		R	593	476	318	543	429	289	492	382	260
		D, E, F	568	452	303	517	405	274	463	360	243
	ECM	B, D, F, R	600	450	300	600	450	300	600	450	300
008	PSC	B	838	697	432	779	646	405	719	596	377
		R	779	646	405	719	596	377	660	545	350
		D, E, F	749	621	391	690	570	364	633	519	336
	ECM	B, D, F, R	800	600	400	800	600	400	800	600	400
		X, Y	800	600	400	800	600	400	800	600	400
010	PSC	B	1,031	870	599	985	829	577	928	789	555
		R	985	829	577	928	789	555	871	748	533
		D, E, F	957	809	566	900	768	544	846	728	522
	ECM	B, D, F, R	1,000	750	500	1,000	750	500	1,000	750	500
		X, Y	1,000	750	500	1,000	750	500	1,000	750	500
012	PSC	B	1,204	954	615	1,137	910	599	1,071	875	584
		R	1,137	910	599	1,071	875	584	1,004	840	568
		D, E, F	1,104	893	591	1,037	858	576	968	814	555
	ECM	B, D, F, R	1,200	900	600	1,200	900	600	1,200	900	600
		X, Y	1,200	900	600	1,200	900	600	1,200	900	600

WILLIAMS HORIZONTAL FAN COIL

LH SERIES AIRFLOW DATA

AIR FLOW DATA			EXTERNAL STATIC PRESSURE (ESP)								
LH SIZE	MOTOR TYPE	CABINET STYLE	0.15			0.20			0.25		
			HI	MED	LOW	HI	MED	LOW	HI	MED	LOW
002	PSC	B	220	136	50	186	111	30	151	85	NA
		R	186	111	30	151	85	NA	NA	NA	NA
		D, E, F	168	98	NA	NA	NA	NA	NA	NA	NA
	ECM	B, D, F, R	200	150	100	200	150	100	200	150	100
003	PSC	B	250	192	135	213	163	108	176	133	80
		R	213	163	108	176	133	80	NA	NA	NA
		D, E, F	195	148	94	NA	NA	NA	NA	NA	NA
	ECM	B, D, F, R	300	225	150	300	225	150	300	225	150
004	PSC	B	362	300	168	331	265	138	300	230	108
		R	331	265	138	300	230	108	NA	NA	NA
		D, E, F	319	251	126	NA	NA	NA	NA	NA	NA
	ECM	B, D, F, R	400	300	200	400	300	200	400	300	200
006	PSC	B	481	373	254	422	330	220	362	286	186
		R	433	338	226	374	295	192	NA	NA	NA
		D, E, F	404	317	209	NA	NA	NA	NA	NA	NA
	ECM	B, D, F, R	600	450	300	600	450	300	600	450	300
008	PSC	B	660	545	350	607	492	323	555	439	297
		R	607	492	323	555	439	297	488	386	253
		D, E, F	581	466	310	522	413	276	NA	NA	NA
	ECM	B, D, F, R	800	600	400	800	600	400	800	600	400
		X, Y	800	600	400	800	600	400	800	600	400
010	PSC	B	871	748	533	821	708	511	771	667	488
		R	821	708	511	771	667	488	714	624	455
		D, E, F	796	687	499	742	645	471	NA	NA	NA
	ECM	B, D, F, R	1,000	750	500	1,000	750	500	1,000	750	500
		X, Y	1,000	750	500	1,000	750	500	1,000	750	500
012	PSC	B	1,004	840	568	931	789	542	858	737	516
		R	931	789	542	858	737	516	784	677	477
		D, E, F	895	763	529	821	707	496	NA	NA	NA
	ECM	B, D, F, R	1,200	900	600	1,200	900	600	1,200	900	600
		X, Y	1,200	900	600	1,200	900	600	1,200	900	600

WILLIAMS HORIZONTAL FAN COIL

LH SERIES MOTOR DATA

MOTOR FEATURES

- Motors are wired to a junction box ready for single-point field connection.
- Quick disconnect plug and receptacle
- Permanent split capacitor
- Custom motor mounts designed to reduce noise and eliminate vibration
- Thermal overload protection
- 1050 RPM for lower operating costs
- Stators are epoxy dipped for more efficient motor cooling
- Oversized bearings, permanently lubricated and sealed
- 122ºF maximum operating temperature

OPTIONAL MOTORS

- Electronic Commutated Motors (ECM)
- 208V-1Ø-60Hz motors
- 230-220V-1Ø-60Hz motors
- 277V-1Ø-60Hz motors
- 50Hz motors in specified voltages

SINGLE-PHASE 60 HERTZ MOTORS (1100 RPM)				VOLTAGE / FLA / WATTS							
				120V		208V		230V		277V	
SIZE	MTR TYPE	HP (QTY)	BLOWER (QTY)	FLA	WATTS	FLA	WATTS	FLA	WATTS	FLA	WATTS
002	PSC	1/18 (1)	1	1.10	99	0.60	94	0.60	104	0.50	104
	ECM	1/3 (1)	1	4.70	423	3.00	468	2.80	483	2.40	499
003	PSC	1/18 (1)	1	1.10	99	0.60	94	0.60	104	0.50	104
	ECM	1/3 (1)	1	4.70	423	3.00	468	2.80	483	2.40	499
004	PSC	1/10 (1)	2	1.80	162	0.70	109	0.80	138	0.70	145
	ECM	1/3 (1)	2	4.70	423	3.00	468	2.80	483	2.40	499
006	PSC	1/10 (1)	2	1.80	162	0.70	109	0.80	138	0.70	145
	ECM	1/3 (1)	2	4.70	423	3.00	468	2.80	483	2.40	499
008	PSC	1/8 (1)	2	1.90	171	1.20	187	1.00	173	0.90	187
	ECM (B, D, F, R)	1/2 (1)	2	6.60	594	4.20	655	3.90	673	3.40	706
	ECM (X, Y)	1/3 (1)	2	4.70	423	3.00	468	2.80	483	2.40	499
010	PSC	1/4 (1)	2	3.20	288	2.30	359	2.10	362	1.90	395
	ECM (B, D, F, R)	1/2 (1)	2	6.60	594	4.20	655	3.90	673	3.40	706
	ECM (X, Y)	1/3 (1)	2	4.70	423	3.00	468	2.80	483	2.40	499
012	PSC	1/4 (1)	2	3.20	288	2.30	359	2.10	362	1.90	395
	ECM (B, D, F, R)	1/2 (1)	2	6.60	594	4.20	655	3.90	673	3.40	706
	ECM (X, Y)	1/3 (1)	2	4.70	423	3.00	468	2.80	483	2.40	499

Notes: Unless otherwise specified

1. Motor full load amps listed refer to NEC amps. Actual motor nameplate amps may vary.

WILLIAMS HORIZONTAL FAN COIL

LH SERIES SOUND DATA WITH ECM MOTORS

LH SERIES SOUND DATA WITH ECM MOTORS									
SIZE	FAN SPEED	OCTAVE BAND CENTER FREQUENZY(CPS)							A-wgt (dbA)
		125	250	500	1000	2000	4000	8000	
002	High	44.6	43.9	46.3	40.2	35.6	24.6	21.3	46.1
	Medium	42.2	40.6	35.9	31.8	23.5	17.5	20.8	37.7
	Low	41.5	37.4	37.9	23.0	17.0	16.7	20.7	32.8
003	High	48.1	48.6	47.7	44.0	41.6	32.7	26.4	49.2
	Medium	47.7	38.9	36.5	30.8	22.6	18.7	20.8	37.9
	Low	40.1	41.2	21.1	21.6	16.5	16.5	20.7	34.2
004	High	53.0	52.8	58.2	52.0	46.2	38.1	29.5	57.4
	Medium	47.2	45.6	47.8	41.8	32.5	22.8	20.7	47.2
	Low	50.7	40.6	38.3	31.2	20.7	17.3	20.4	39.5
006	High	58.0	57.2	60.4	55.8	52.5	46.9	39.7	61.1
	Medium	48.0	48.7	51.4	45.5	41.5	31.1	23.5	51.0
	Low	50.9	43.4	49.6	35.0	26.3	17.7	20.4	46.3
008	High	63.8	62.5	62.7	62.5	57.2	53.5	45.6	65.9
	Medium	57.6	56.7	57.6	55.1	51.1	44.7	35.9	59.4
	Low	50.1	49.7	51.6	45.1	40.5	29.9	21.6	51.2
010	High	63.5	61.7	62.7	61.2	57.3	52.6	43.1	65.2
	Medium	55.3	54.4	56.6	51.2	47.6	39.0	30.4	56.6
	Low	52.9	49.3	49.3	44.2	38.9	28.2	25.0	49.7
012	High	69.5	68.2	68.0	68.0	63.8	62.0	54.6	71.9
	Medium	58.1	56.7	59.6	54.8	52.2	46.1	35.1	60.4
	Low	50.2	52.5	55.1	47.0	44.0	33.0	22.8	53.9

Notes: Unless otherwise specified

1. Sound data verified in accordance with 350 Sound Performance Rating of Non-ducted Indoor Air-conditioning and Heat Pump Equipment (latest addition), as applicable. Power levels are in dB re 10^{-12} watts.
2. Published sound ratings are based on airflow performance under dry-coil operating conditions.
3. Standard coils for 002-004 are 3 rows and 006-012 are 4 rows.

WILLIAMS HORIZONTAL FAN COIL

LH SERIES SOUND DATA WITH PSC MOTORS

LH SERIES SOUND DATA WITH PSC MOTORS									
SIZE	FAN SPEED	OCTAVE BAND CENTER FREQUENZY(CPS)							A-wgt (dbA)
		125	250	500	1000	2000	4000	8000	
002	High	58.7	58.9	56.9	54.8	52.2	48.4	41.4	59.9
	Medium	49.5	51.0	48.6	45.1	41.4	32.1	24.6	50.2
	Low	39.8	42.2	39.4	33.2	24.6	17.2	20.8	39.7
003	High	63.3	58.8	58.6	57.0	54.5	52.1	45.4	62.1
	Medium	60.2	52.9	53.9	50.6	48.4	42.1	35.3	56.0
	Low	55.5	45.7	44.9	42.4	38.3	28.4	22.1	49.4
004	High	61.4	58.5	606.0	58.2	54.7	49.4	42.4	62.7
	Medium	59.8	53.5	56.3	52.8	48.2	40.6	32.7	57.4
	Low	54.0	46.5	46.4	43.0	35.3	25.0	21.1	47.6
006	High	64.6	60.9	62.7	60.1	56.3	52.6	45.4	64.8
	Medium	63.6	56.2	58.9	54.9	51.2	44.4	36.9	60.0
	Low	60.3	48.8	50.3	46.6	40.2	29.1	21.7	51.7
008	High	67.7	70.2	65.2	63.4	58.8	55.3	48.6	68.3
	Medium	67.7	70.2	65.2	63.4	58.8	55.3	48.6	68.3
	Low	61.1	61.3	53.9	53.9	43.1	33.7	23.6	57.7
010	High	75.6	66.9	67.1	66.0	63.0	61.1	53.6	70.9
	Medium	70.9	661.9	63.2	62.0	58.4	55.3	46.1	66.5
	Low	64.9	55.1	59.8	55.1	48.8	40.4	28.8	60.3
012	High	71.5	69.8	69.1	67.9	64.7	63.2	56.4	72.7
	Medium	63.9	62.1	61.7	59.9	55.9	51.7	41.9	64.4
	Low	58.1	55.4	57.3	53.0	45.8	34.6	24.0	57.9

Notes: Unless otherwise specified

1. Sound data verified in accordance with 350 Sound Performance Rating of Non-ducted Indoor Air-conditioning and Heat Pump Equipment (latest addition), as applicable. Power levels are in dB re 10^{-12} watts.
2. Published sound ratings are based on airflow performance under dry-coil operating conditions.
3. Standard coils for 002-004 are 3 rows and 006-012 are 4 rows.

LH SERIES WEIGHTS

LH Series weights are based on the listed number of cooling rows and one heating row. Add approximately 20% for packaging and crate materials.

LH CABINET STYLE	SIZE	COIL ROWS	WEIGHT (LBS.)		WEIGHT (KG)	
			DRY	WET	DRY	WET
BASIC (B)	002	3	77	80	35	36
	002	4	78	82	36	37
	003	3	77	80	35	36
	003	4	78	82	36	37
	004	3	92	96	42	44
	004	4	95	100	43	45
	006	3	120	125	55	57
	006	4	124	130	56	59
	008	3	135	140	61	64
	008	4	138	145	63	66
	010	3	155	161	70	73
	010	4	160	168	72	76
	012	3	167	174	76	79
	012	4	171	181	78	82
RETURN AIR PLENUM (R)	002	3	97	100	44	45
	002	4	98	102	45	46
	003	3	97	100	44	45
	003	4	98	102	45	46
	004	3	122	126	56	57
	004	4	125	130	57	59
	006	3	140	145	64	66
	006	4	144	150	65	68
	008	3	155	160	70	73
	008	4	158	165	72	75
	010	3	175	181	79	82
	010	4	180	188	82	85
	012	3	187	194	85	88
	012	4	191	201	87	91

WILLIAMS HORIZONTAL FAN COIL

LH SERIES WEIGHTS

LH CABINET STYLE	SIZE	COIL ROWS	WEIGHT (LBS.)		WEIGHT (KG)	
			DRY	WET	DRY	WET
DELUXE (D)	002	3	167	170	76	77
	002	4	168	172	76	78
	003	3	167	170	76	77
	003	4	168	172	76	78
	004	3	177	181	80	82
	004	4	180	185	82	84
	006	3	183	188	83	85
	006	4	187	193	85	88
	008	3	195	200	88	91
	008	4	198	205	90	93
	010	3	215	221	98	100
	010	4	220	228	100	103
	012	3	227	234	103	106
	012	4	231	241	105	109
FLUSH (F)	002	3	108	111	49	50
	002	4	109	113	50	51
	003	3	108	111	49	50
	003	4	109	113	50	51
	004	3	151	155	69	70
	004	4	154	159	70	72
	006	3	158	163	72	74
	006	4	162	168	73	76
	008	3	170	175	77	79
	008	4	173	180	78	82
	010	3	190	196	86	89
	010	4	195	203	88	92
	012	3	202	209	92	95
	012	4	206	216	94	98
LOW PROFILE (X)	008	3	75	80	34	36
	010	3	117	125	53	57
	012	3	133	142	60	64
LOW PROFILE RETURN PLENUM (Y)	008	3	85	90	38	41
	010	3	127	135	58	61
	012	3	143	152	65	69

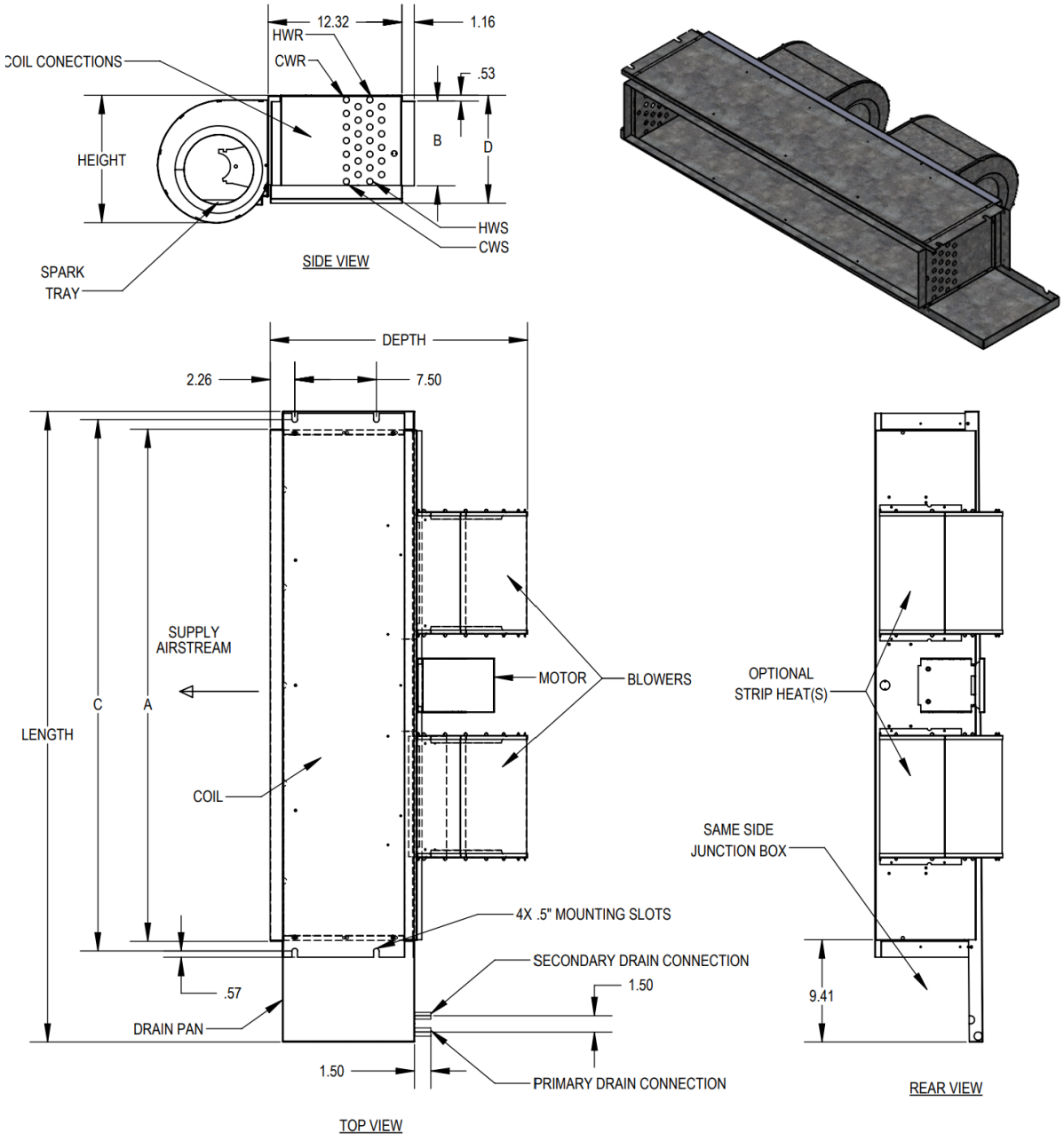
LH SERIES - GENERAL DRAWING NOTES

Unless otherwise specified:

- The following are Certified Dimensional unit drawings.
- All dimensions are inches.
- Right-hand unit shown, left hand unit opposite.
- Coil connections are determined by facing the supply air opening.
- The electrical junction box default location is on the opposite side of the coil connections.
- The unit must be installed level and condensate drain lines must be slopped and trapped.
- The condensate drain pan has 3/4" NPT or larger (if necessary) primary and secondary drain connections.
- Standard chilled water and hot water coil stub-out connections are 1/2" or ¾" OD copper. The size is based on flow rate.

WILLIAMS HORIZONTAL FAN COIL

LH BASIC (B) 200 TO 1,200 CFM

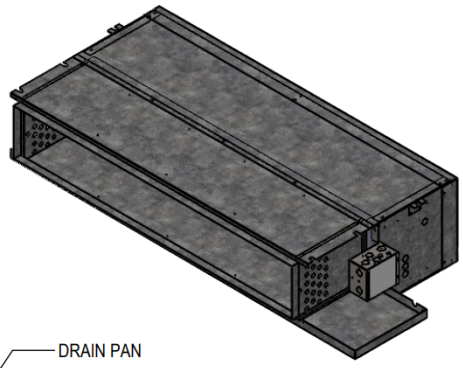


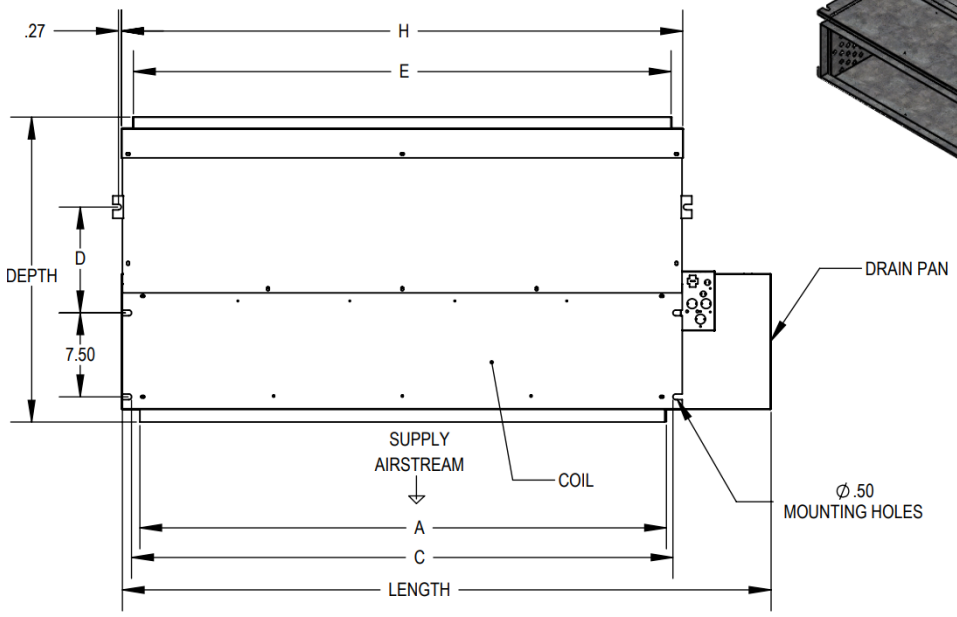
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

OVERALL				SUPPLY DUCT				
UNIT SIZE	LENGTH	HEIGHT	DEPTH	A	B	C	D	BLOWERS
002-003	30.0	9.54	22.50	19.13	6.00	20.88	8.00	1
004	37.5	9.54	22.50	25.13	6.00	26.88	8.00	2
006	44.0	9.54	22.50	33.13	6.00	34.88	8.00	2
008	44.0	11.75	23.63	33.13	7.75	34.88	9.50	2
010	50.0	11.75	23.63	39.13	7.75	40.88	9.50	2
012	58.0	11.75	23.63	47.13	7.75	48.88	9.50	2

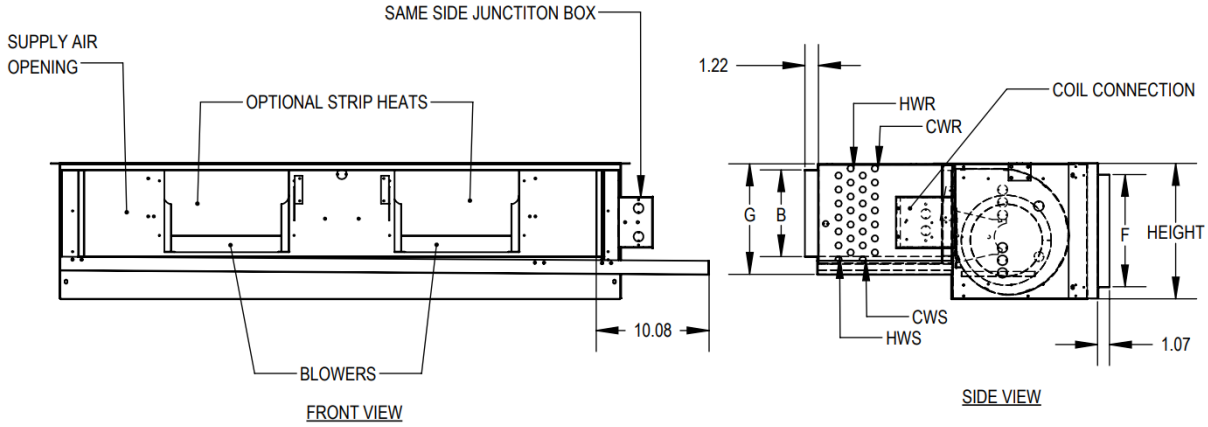
WILLIAMS HORIZONTAL FAN COIL

LH-R REAR RETURN AIR PLENUM (R) / FRONT SYPPLY - 200 TO 1,200 CFM





TOP VIEW



FRONT VIEW

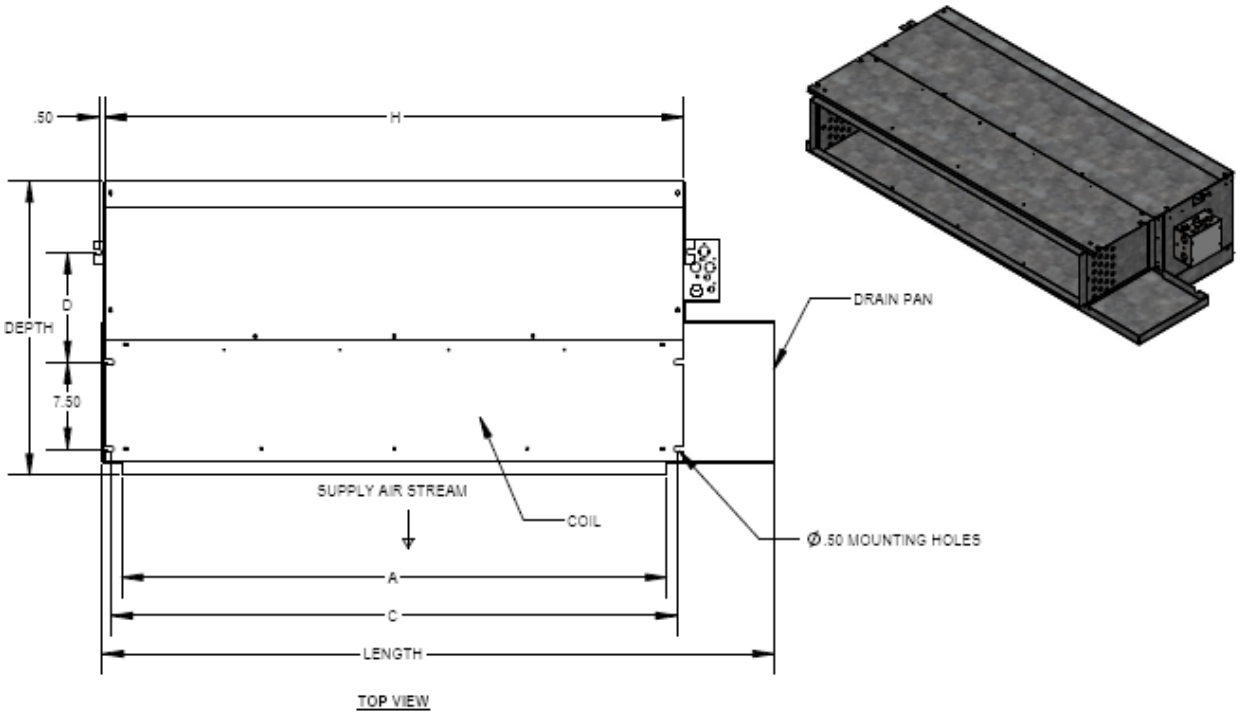
SIDE VIEW

RIGHT HAND SHOWN, LEFT HAND OPPOSITE

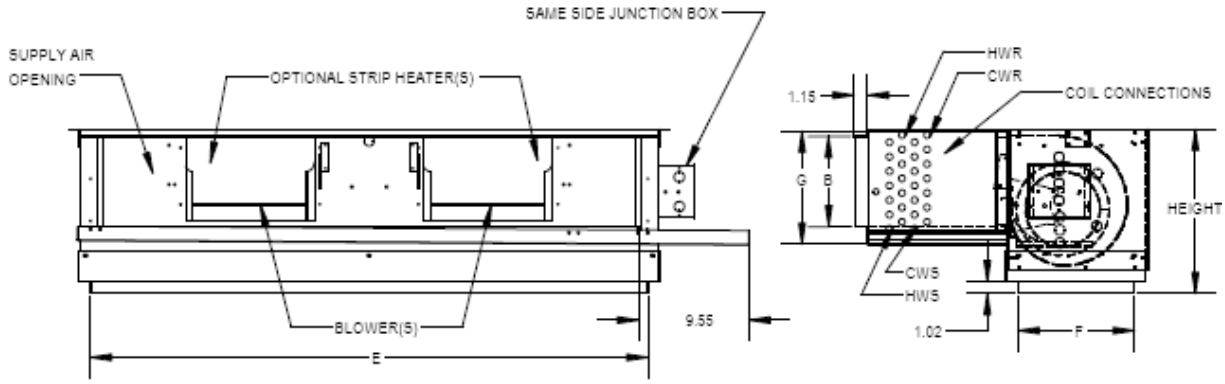
OVERALL				SUPPLY DUCT		MOUNTING		RETURN DUCT					
UNIT SIZE	LENGTH	HEIGHT	DEPTH	A	B	C	D	E	F	G	H	BLOWERS	FILTER SIZE
002-003	30.00	10.19	25.25	19.09	6.50	20.88	8.50	20.13	8.08	8.25	22.00	1	10 x 22 x 1
004	37.50	10.19	25.25	25.09	6.05	26.88	8.50	29.13	8.08	8.00	31.19	2	10 x 31 x 1
006	44.00	10.19	25.25	33.09	6.05	34.38	8.50	34.13	8.08	8.00	36.19	2	10 x 36xX 1
008	44.00	12.19	27.41	33.14	7.79	34.38	9.50	34.13	10.08	9.75	36.19	2	12 x 36 x 1
010	50.00	12.19	27.41	39.14	7.79	40.88	9.50	40.13	10.08	9.75	42.19	2	12 x 42 x 1
012	58.00	12.19	27.41	46.90	7.79	48.88	9.50	48.13	10.08	9.75	50.19	2	12 x 50 x 1

WILLIAMS HORIZONTAL FAN COIL

LH BOTTOM RETURN AIR PLENUM (R) / FRONT SUPPLY
200 TO 1,200 CFM



TOP VIEW



FRONT VIEW

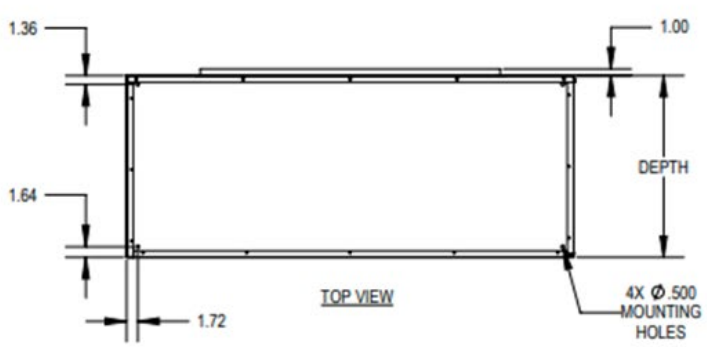
SIDE VIEW

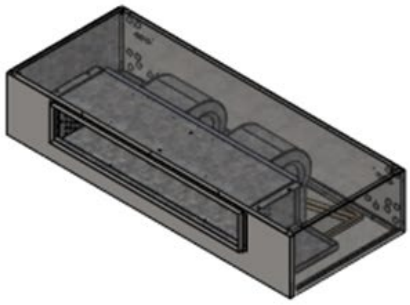
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

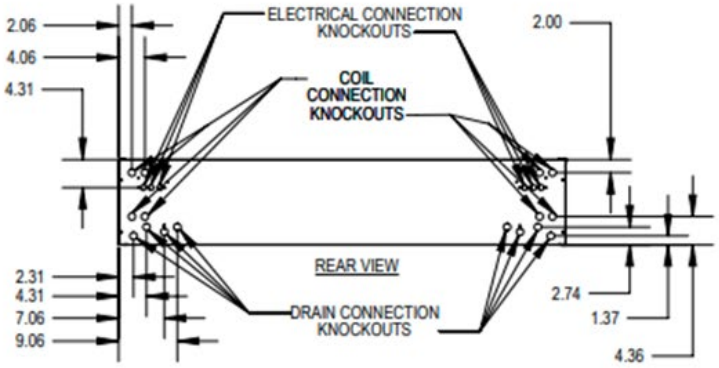
OVERALL				SUPPLY DUCT		MOUNTING		RETURN DUCT					
UNIT SIZE	LENGTH	HEIGHT	DEPTH	A	B	C	D	E	F	G	H	BLOWERS	FILTER SIZE
002-003	30.00	12.19	23.38	19.13	6.00	20.88	8.50	20.13	8.08	8.00	22.00	1	10 x 22 x 1
004	37.50	12.19	23.38	25.13	6.00	26.88	8.50	29.13	8.08	8.00	31.00	2	10 x 31 x 1
006	44.00	12.19	23.38	33.13	6.00	34.88	8.50	34.13	8.08	8.00	36.00	2	10 x 36 x 1
008	44.00	14.19	25.38	33.13	7.75	34.88	9.50	34.13	10.08	9.75	36.00	2	12 x 36 x 1
010	50.00	14.19	25.38	39.13	7.75	40.88	9.50	40.13	10.08	9.75	42.00	2	12 x 42 x 1
012	58.00	14.19	25.38	47.13	7.75	48.88	9.50	48.13	10.08	9.75	50.00	2	12 x 50 x 1

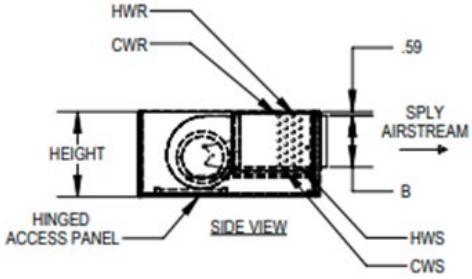
WILLIAMS HORIZONTAL FAN COIL

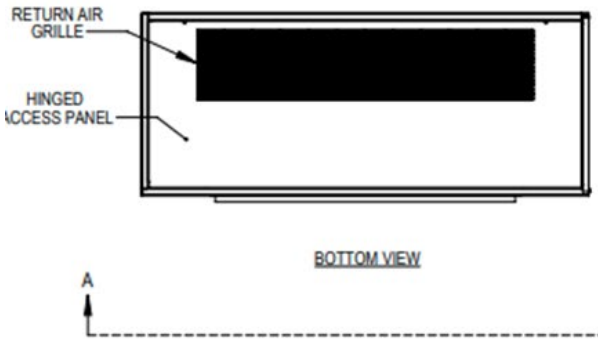
LH DELUXE (D) BOTTOM RETURN / FRONT SUPPLY 200 TO 1,200 CFM

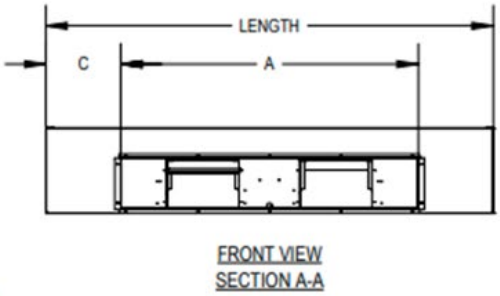










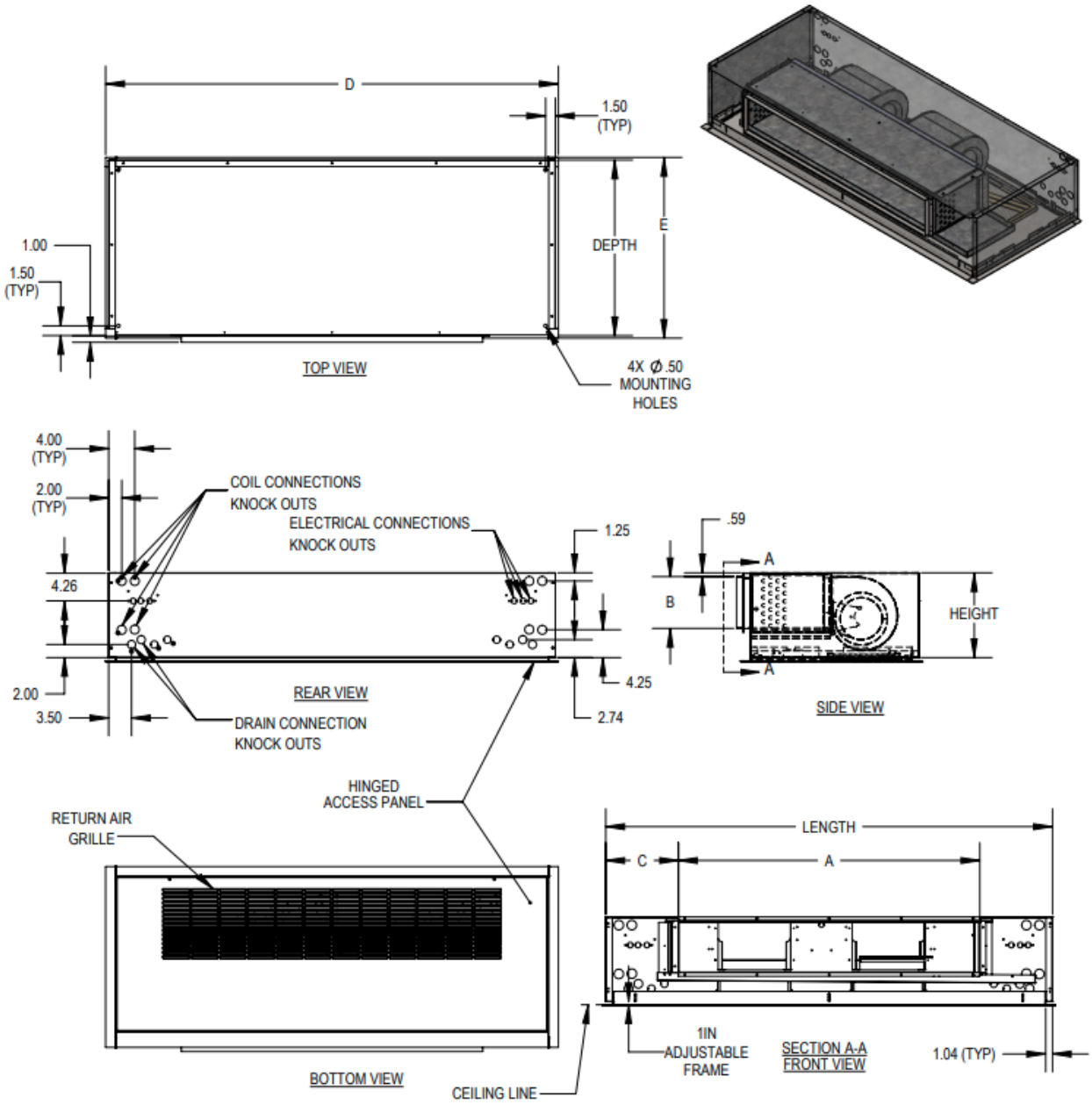


RIGHT HAND SHOWN, LEFT HAND OPPOSITE

UNIT SIZE	LENGTH	HEIGHT	DEPTH	A	B	C	RA GRILLE	BLOWERS	FILTER ZSIZE
002-003	47.00	11.38	24.00	18.25	6.00	14.38	30.2 x 10.78	1	(2) 20 x 11 x 1
004	47.00	11.38	24.00	23.88	5.88	11.38	30.2 x 10.78	2	(2) 20 x 11 x 1
006	55.00	11.38	28.00	31.75	5.81	11.63	43.25 x 10.78	2	(2) 24 x 11 x 1
008	55.00	13.13	28.00	31.75	7.81	11.63	43.25 x 10.78	2	(2) 24 x 11 x 1
010	69.00	13.13	28.00	37.88	7.81	15.56	52.00 x 10.78	2	(2) 27 x 11 x 1
012	69.00	13.13	28.00	45.88	7.81	11.56	52.00 x 10.78	2	(2) 27 x 11 x 1

WILLIAMS HORIZONTAL FAN COIL

LH FLUSH (F) FRONT SUPPLY / BOTTOM REAR 200 to 1,200 CFM

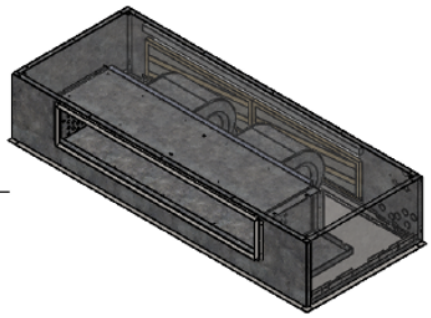


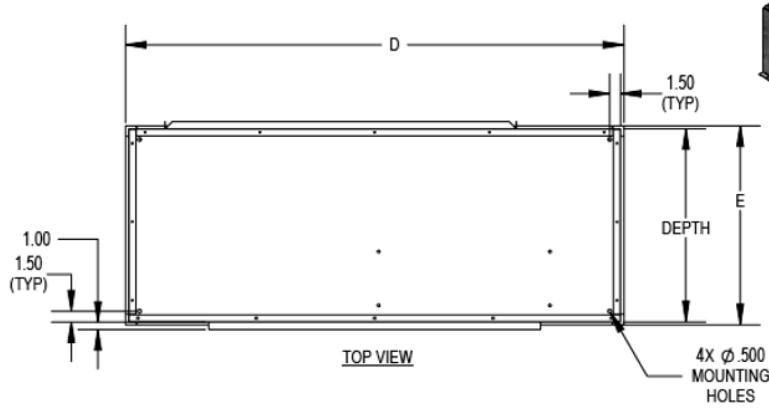
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

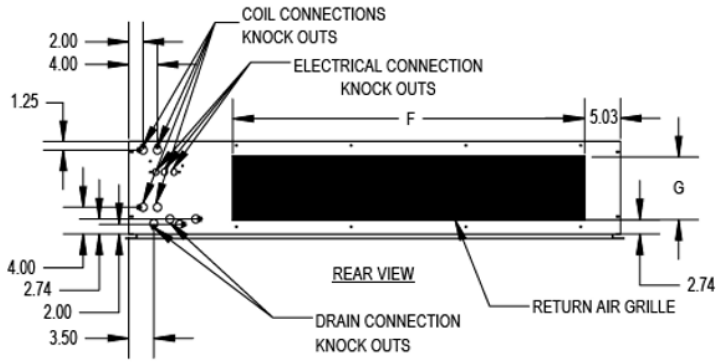
OVERALL				SUPPLY DUCT			FRAME		RETURN DUCT		RA GRILLE	BLOWERS	FILTER SIZE
UNIT SIZE	LENGTH	HEIGHT	DEPTH	A	B	C	D	E	F	G			
002-003	46.54	11.00	27.00	18.25	6.25	14.13	47.50	27.75	29.00	7.00	38.88 x 10.78	1	20 x 11 x 1
004	46.54	11.00	27.00	24.25	6.25	11.13	47.50	27.75	29.00	7.00	38.88 x 10.78	2	20 x 11 x 1
006	54.54	11.00	27.00	32.25	6.25	11.13	55.50	27.75	39.00	7.00	47.57 x 10.78	2	24 x 11 x 1
008	54.54	13.00	27.00	32.25	8.25	11.13	55.50	27.75	39.00	9.00	47.57 x 10.78	2	24 x 11 x 1
010	68.55	13.00	27.00	38.25	8.25	15.13	69.48	27.75	49.00	9.00	51.92 x 10.78	2	27 x 11 x 1
012	68.55	13.00	27.00	46.25	7.88	11.13	69.48	27.75	49.00	9.00	51.92 x 10.78	2	27 x 11 x 1

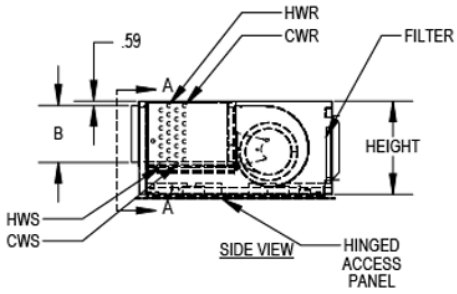
WILLIAMS HORIZONTAL FAN COIL

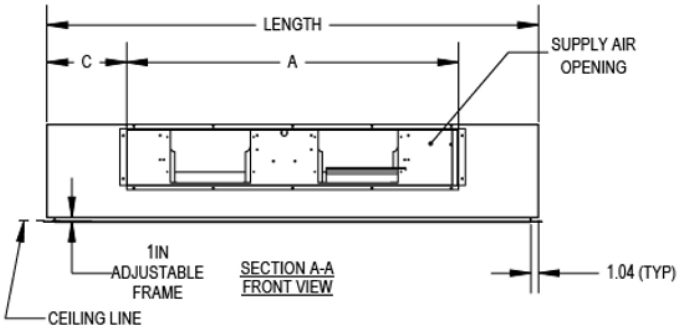
LH FLUSH (F) FRONT SUPPLY / REAR RETURN 200 to 1,200 CFM









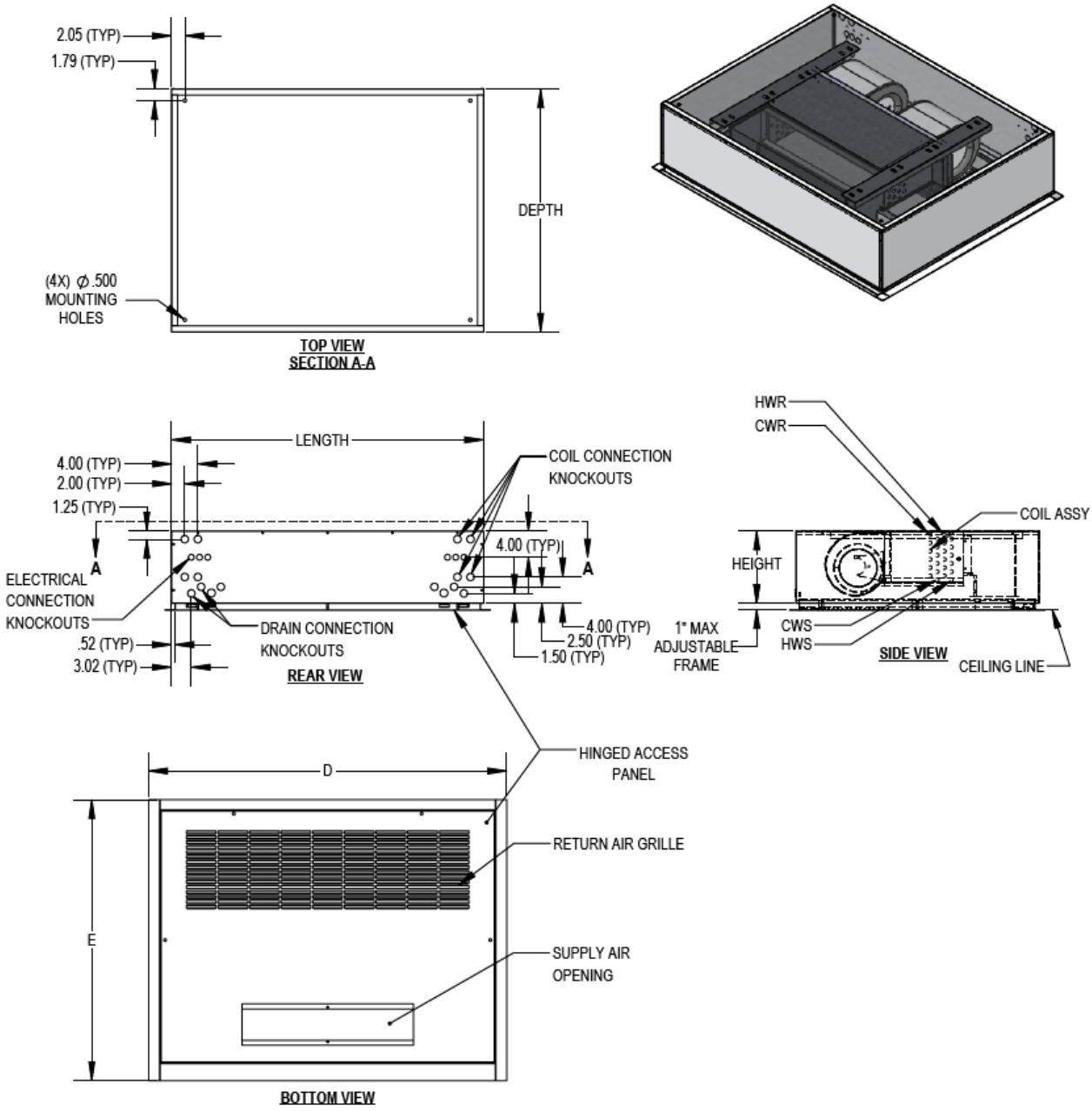


RIGHT HAND SHOWN, LEFT HAND OPPOSITE

UNIT SIZE	OVERALL			SUPPLY DUCT			FRAME		RETURN DUCT		BLOWERS	FILTER SIZE
	LENGTH	HEIGHT	DEPTH	A	B	C	D	E	F	G		
002-003	46.54	11.00	27.00	18.25	6.30	14.15	47.50	27.75	29.00	7.00	1	30 x 8 x 1
004	46.54	11.00	27.00	24.25	6.30	11.15	47.50	27.75	29.00	7.00	2	30 x 8 x 1
006	54.54	11.00	27.00	32.25	6.30	11.15	55.50	27.75	29.00	7.00	2	(2) 20 x 8 x 1
008	54.54	13.00	27.00	32.25	7.88	11.13	55.50	27.75	39.00	9.00	2	(2) 20 x 10 x 1
010	68.54	13.00	27.00	38.25	7.88	15.15	69.50	27.75	49.00	9.00	2	(1) 20 x 10 x 1 (1) 31 x 10 x 1
012	68.54	13.00	27.00	46.25	7.88	11.15	69.50	27.75	49.00	9.00	2	(1) 20 x 10 x 1 (1) 31 x 10 x 1

WILLIAMS HORIZONTAL FAN COIL

LH FLUSH (F) BOTTOM SUPPLY / BOTTOM RETURN 200 to 1,200 CFM

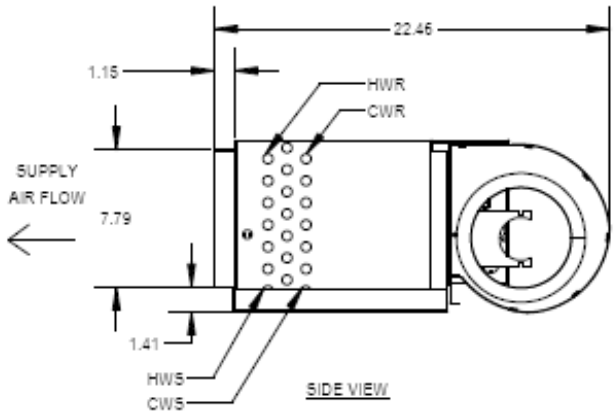


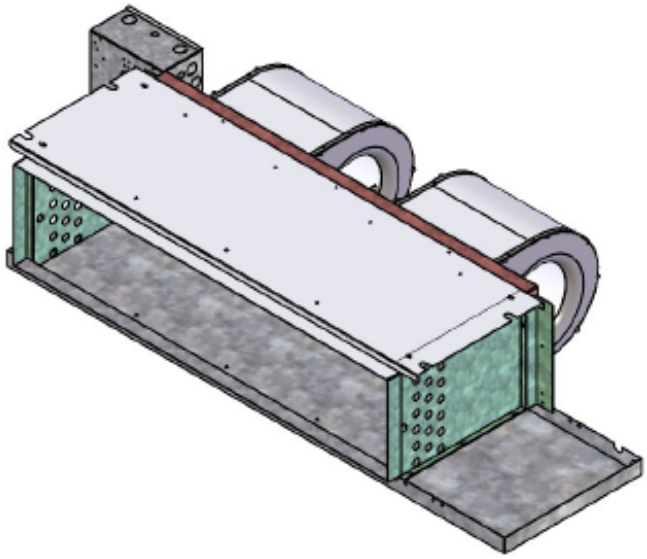
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

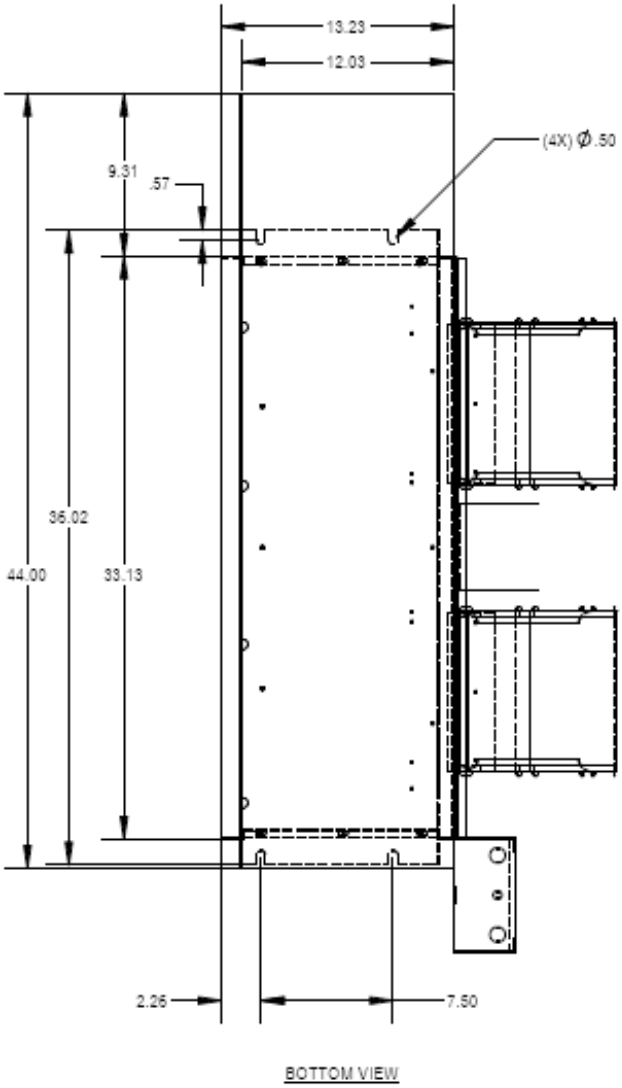
UNIT SIZE	OVERALL			FRAME		BLOWERS	FILTER SIZE	RETURN GRILLE	SUPPLY GRILLE
	LENGTH	HEIGHT	DEPTH	D	E				
002-003	47.50	11.00	38.87	49.53	38.87	1	(2) 11 x 20 x 1	39.13 x10.77	18.00 x 6.00
004	47.50	11.00	38.87	49.53	38.87	2	(2) 11 x 20 x 1	39.13 x10.77	23.75 x 5 .75
006	55.37	11.00	40.15	56.29	40.15	2	(2) 11 x 24 x 1	47.57 x 10.36	31.75 x 5.75
008	55.37	13.00	44.62	56.29	44.67	2	(2) 11 x 24 x 1	43.23 x 10.77	32.25 x 7.80
010	68.50	13.00	44.62	69.43	44.67	2	(2) 11 x 27 x 1	51.92 x 10.78	36.25 x 8.00
012	68.50	13.00	44.62	69.43	44.67	2	(2) 11 x 27 x 1	51.92 x 10.78	42.25 x 8.00

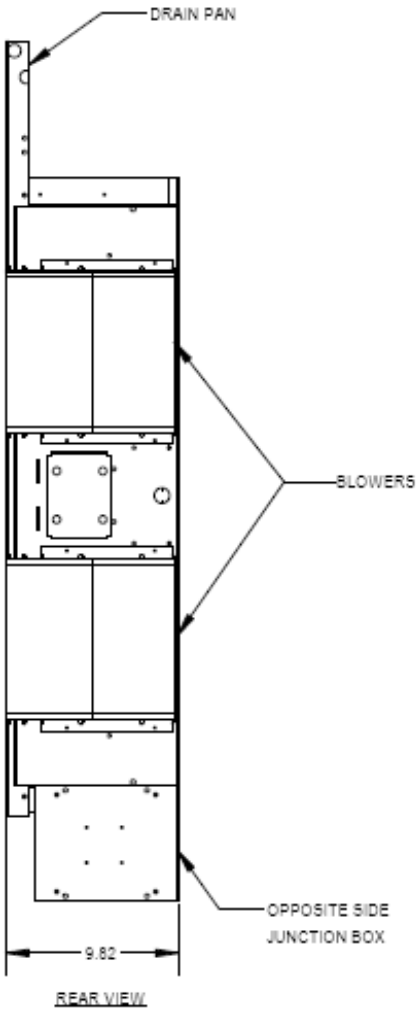
WILLIAMS HORIZONTAL FAN COIL

LH LOW PROFILE (X) - 800 CFM





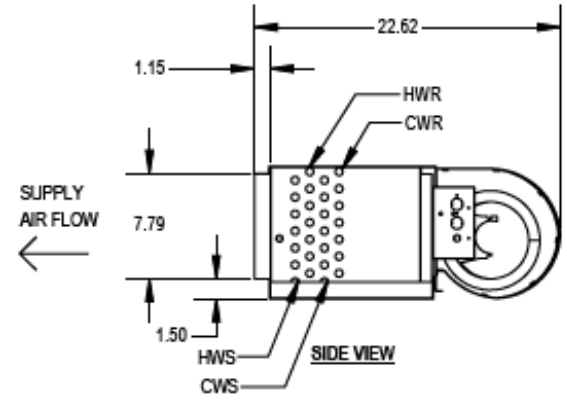


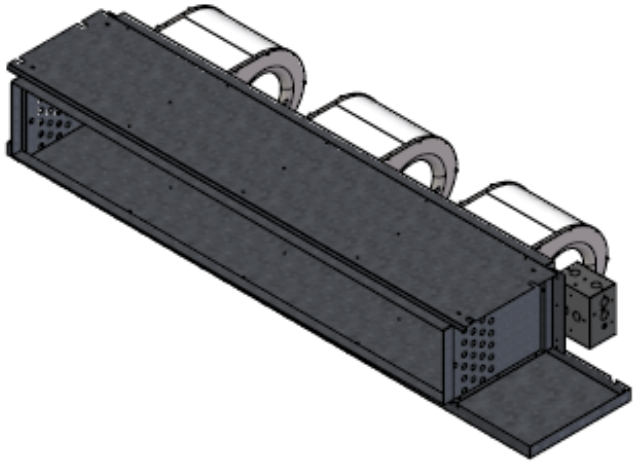


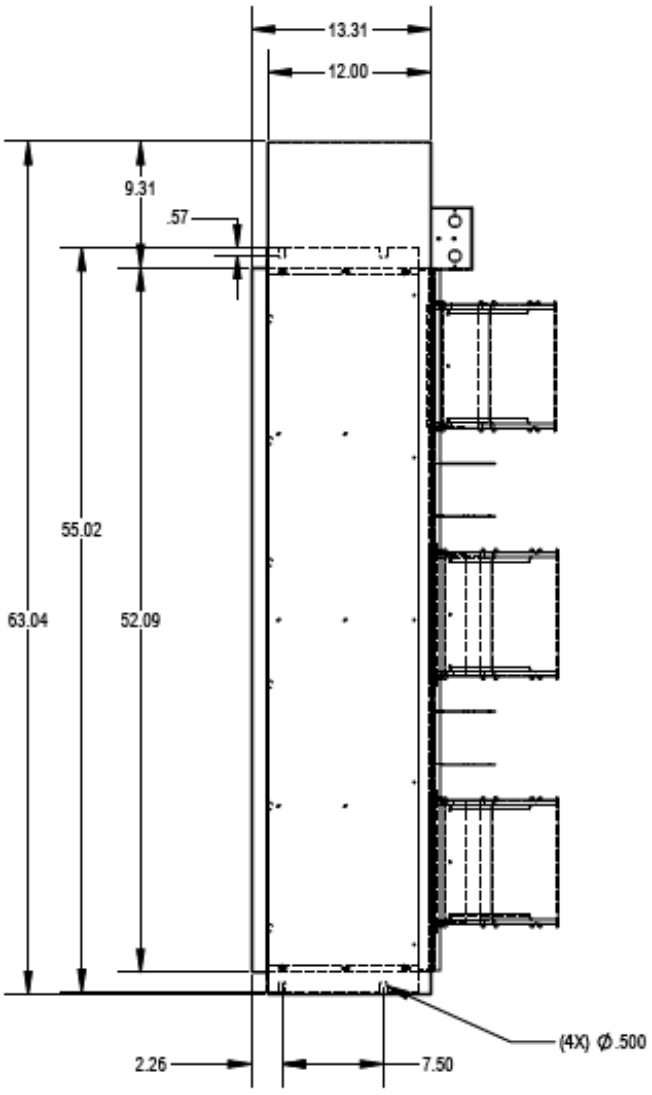
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

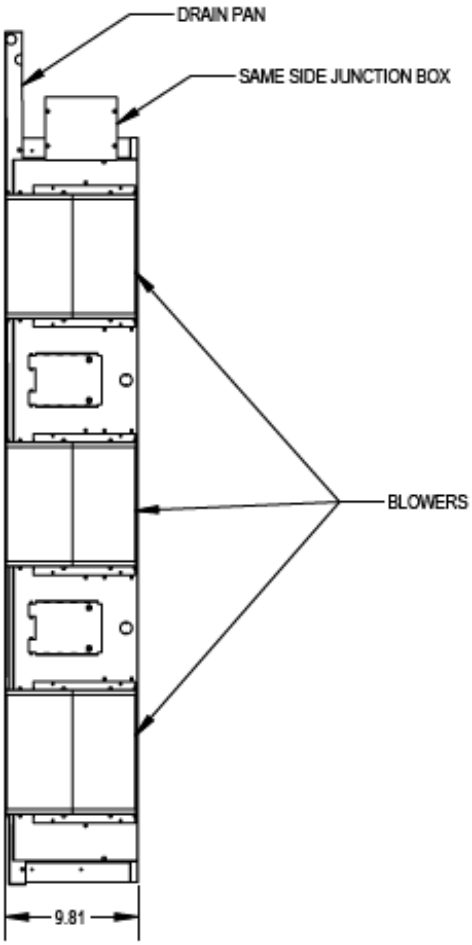
WILLIAMS HORIZONTAL FAN COIL

LH LOW PROFILE (X) - 1,000 CFM





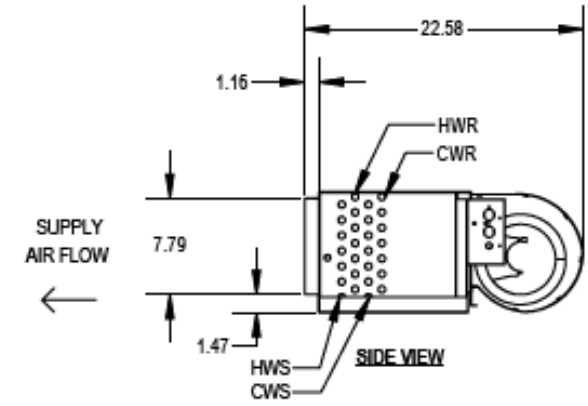


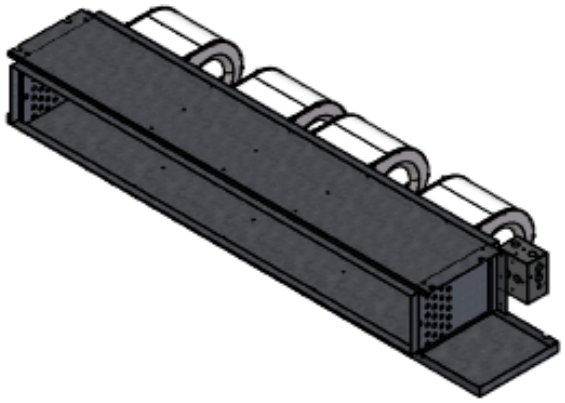


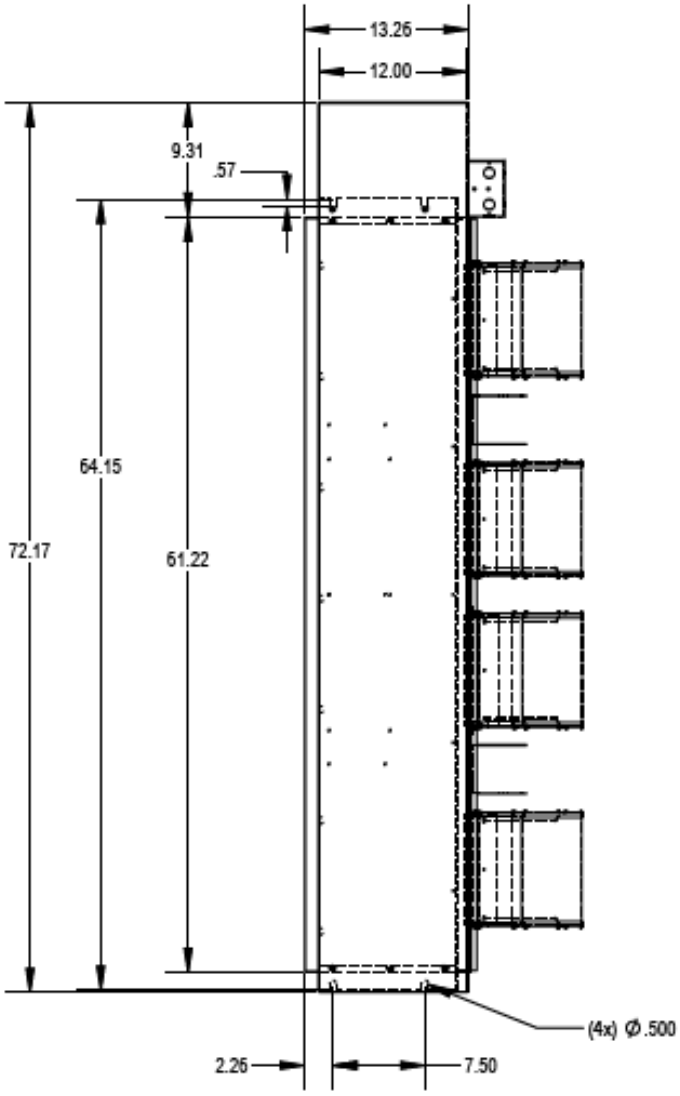
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

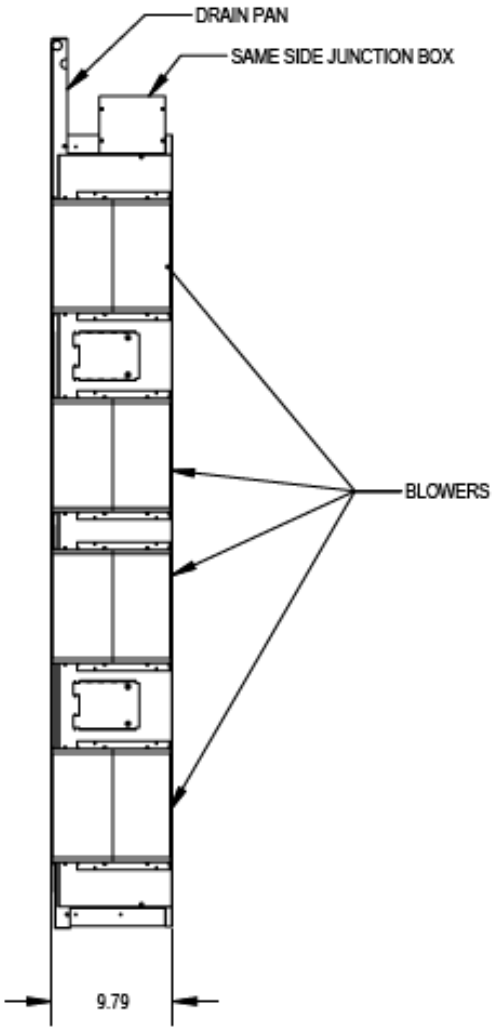
WILLIAMS HORIZONTAL FAN COIL

LH LOW PROFILE (X) - 1,200 CFM





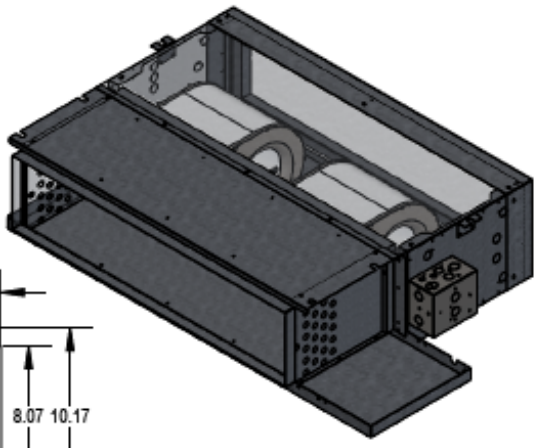


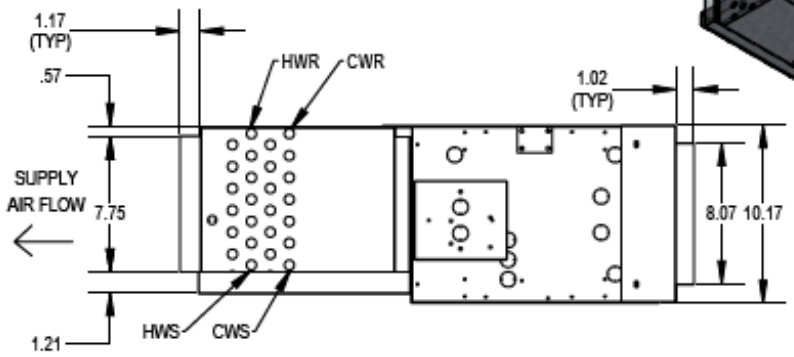


RIGHT HAND SHOWN, LEFT HAND OPPOSITE

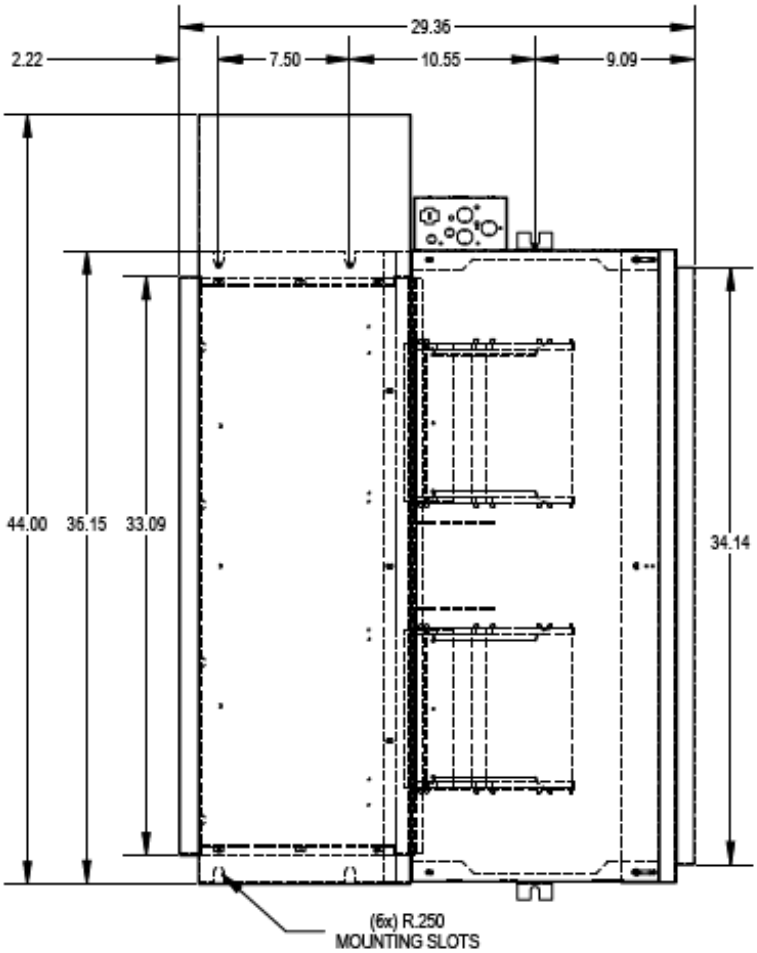
WILLIAMS HORIZONTAL FAN COIL

LH LOW PROFILE FRONT SUPPLY/REAR RETURN AIR PLENUM (Y) - 800 CFM

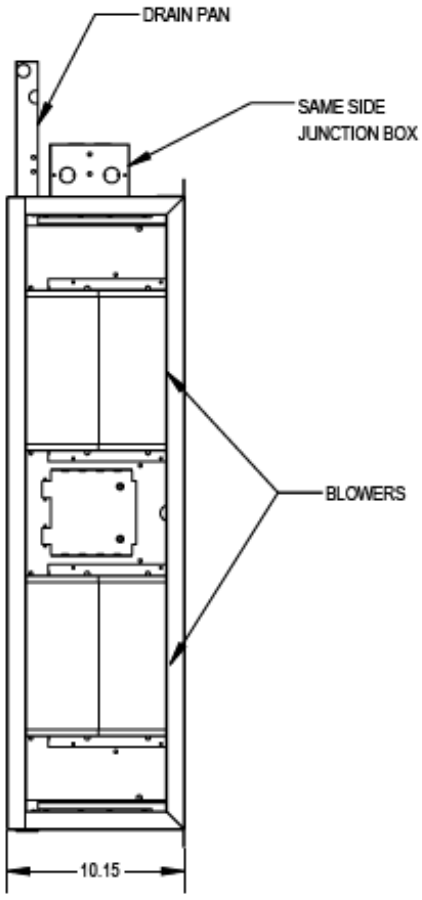




SIDE VIEW



BOTTOM VIEW

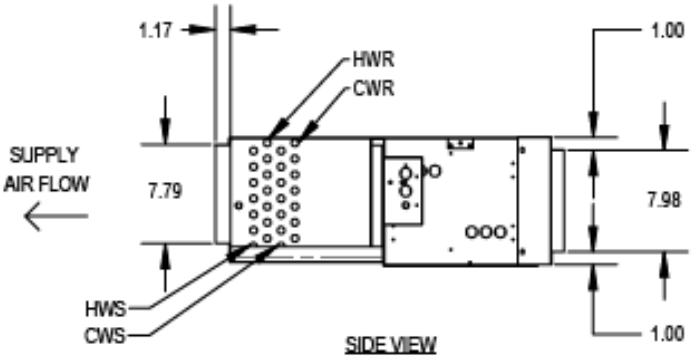


REAR VIEW

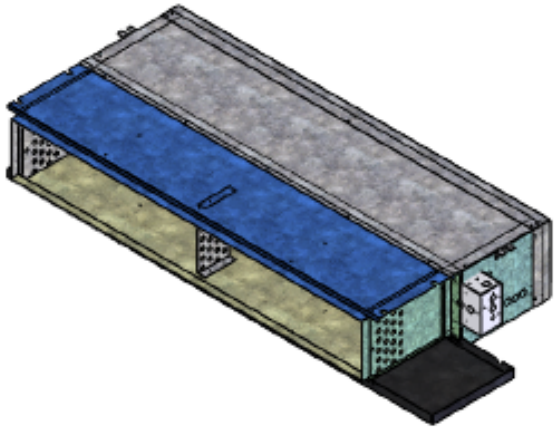
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

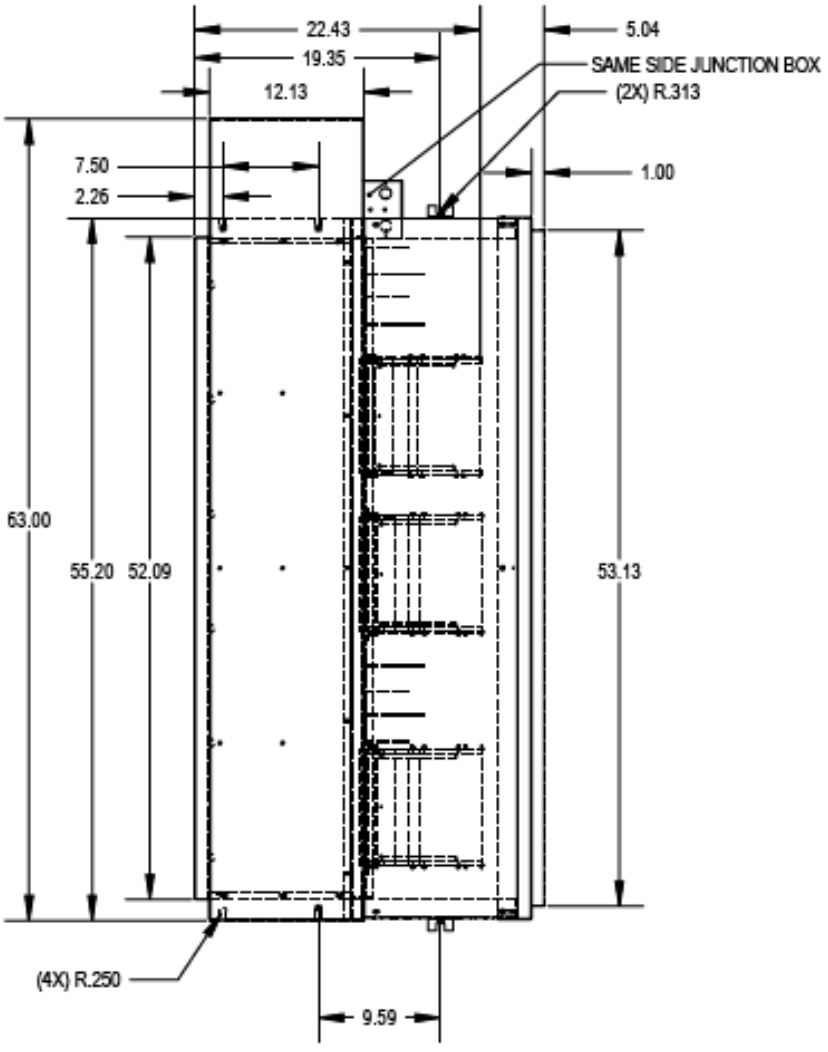
WILLIAMS HORIZONTAL FAN COIL

LH LOW PROFILE W/RETURN AIR PLENUM (Y) - 1,000 CFM

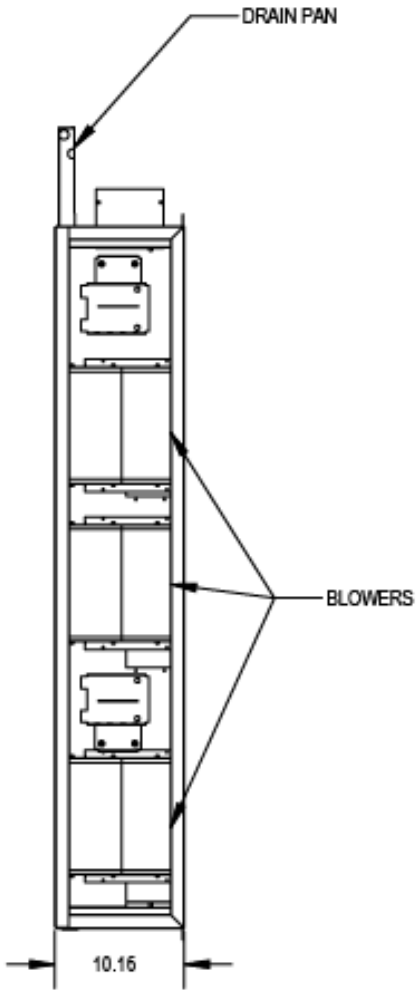


SIDE VIEW





TOP VIEW

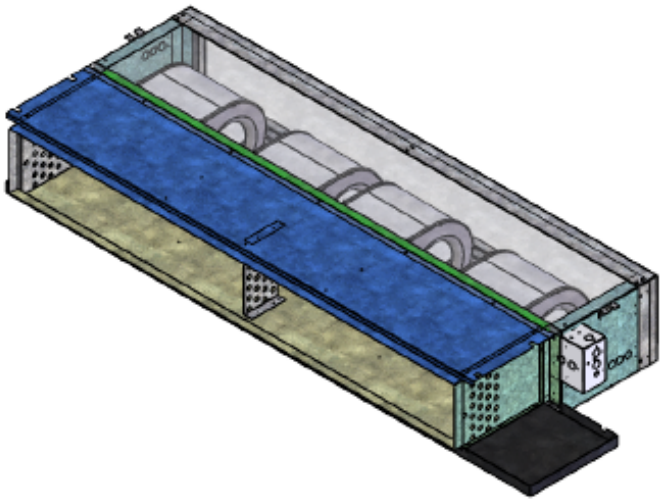


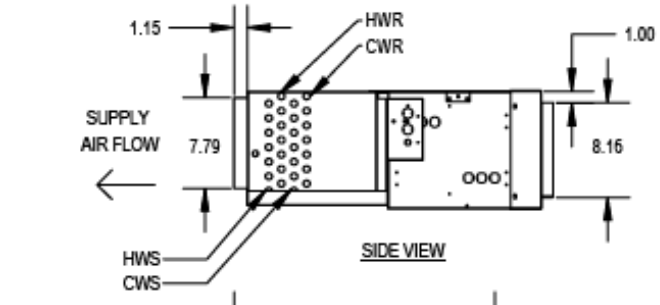
REAR VIEW

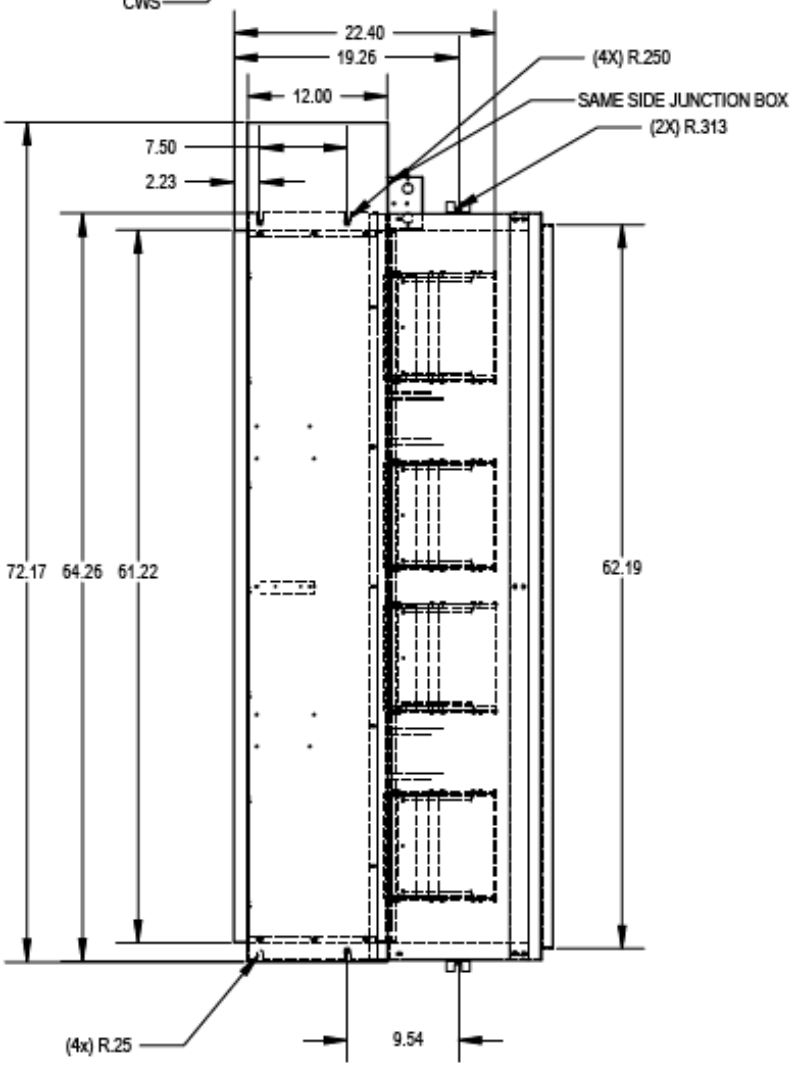
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

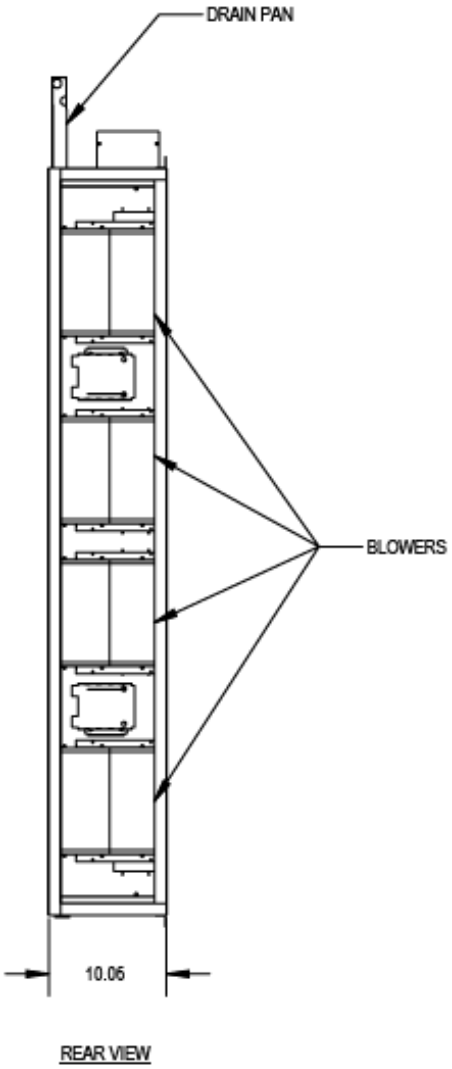
WILLIAMS HORIZONTAL FAN COIL

LH LOW PROFILE W/RETURN AIR PLENUM (Y) - 1,200 CFM









RIGHT HAND SHOWN, LEFT HAND OPPOSITE

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

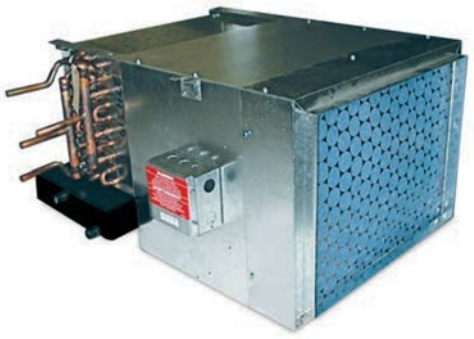
HH SERIES DESCRIPTION

HIGH-PERFORMANCE HORIZONTAL BASIC HH-B



The low profile and flexible design of the Horizontal Basic (HH-B) fan coil is the right choice for multiple applications where high static performance is required. The slim, compact design is well suited for drop ceiling, closet, hallway, and other concealed applications. This unit comes with a powder coated epoxy drain pan and a wide range of coil, motor, and controls options. These models have no exterior cabinet.

HIGH-PERFORMANCE HORIZONTAL WITH RETURN-AIR PLENUM HH-R



The Horizontal Rear Return Air Plenum (HH-R) is our basic fan coil for high static application with a galvanized rear return air plenum and filter. Ideal for mounting above ceilings, in closets, hallways and bathroom areas, the plenum conceals the unit's blower motor, which is easily accessible for service by removing the bottom panel. Horizontal Bottom Return is also available.

HIGH-PERFORMANCE HORIZONTAL DELUXE HH-D

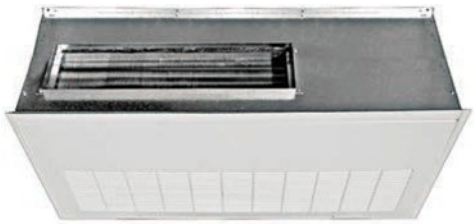


The Horizontal Deluxe (HH-D) fan coil is designed for horizontal exposed ceiling mounted applications where high static performance is required. This unit is our basic unit housed in a fully cased cabinet intended for "free blow" exposed ceiling mounting. Ideal for remodel situations where adding AC ductwork is limited. Deluxe cabinets are constructed of cold rolled steel and finished with a soft white epoxy powder-coated finish and subjected to a 1500-hour salt spray test in accordance with ASTM-B117.

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HIGH-PERFORMANCE HORIZONTAL FLUSH - WITH BOTTOM SUPPLY & RETURN HH-F

The High-Performance Horizontal Flush (HH-F) is a recessed fan coil designed for flush ceiling installations where high static performance is required. A telescoping frame and hinged access panel allow the unit to accommodate a wide range of ceiling types. The access panel features the same attractive, durable powder-coated finish used on the Deluxe models. Units are supplied standard with bottom return and front supply air configuration



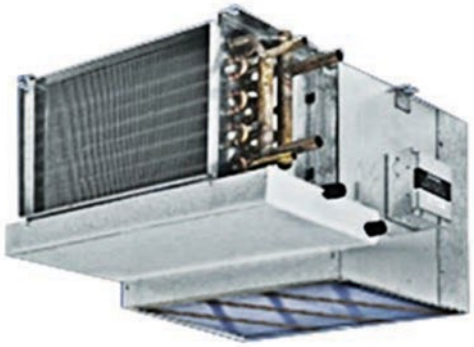
HIGH-PERFORMANCE DELUXE WITH BOTTOM SUPPLY AND RETURN HH-D

Formerly designated as the HH-E, the HH Deluxe Bottom Supply and Return High-Performance Horizontal is now offered as an HH-D (Deluxe) selectable option. This high-static exposed fan coil (up to 0.50 in. ESP) is intended for exposed ceiling applications and includes a coil, blower/motor assembly with quick-connect plug, and a galvanized steel drain pan with a powder-coated epoxy finish and 1/8-inch thick insulation. Deluxe cabinets are constructed of cold-rolled steel and finished with a tough, soft-white epoxy powder coat, baked at 385°F for durability.



HIGH-PERFORMANCE BOTTOM RETURN AIR PLENUM HH-R

Formerly HH-Q, the High Performance Horizontal with Bottom Return-Air Plenum (HH-Q) is now available as an HH-R (Bottom or Rear Return) selectable option. This is a high static (up to .50 ESP) fan coil includes a coil, blower/motor assembly with quick-connect plug, and a galvanized, powder-coated epoxy drain pan covered with ⅛" thick insulation. The galvanized steel plenum is insulated with ½-inch thick, 1.5 pounds per cubic foot density, one side with nonwoven fiberglass mat insulation. The rear plenum conceals the blower and motor while allowing easy service access. Suitable for ceiling, closet, and hallway installations.



WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - HYDRONIC COOLING CAPACITY

Williams High-Performance Horizontal Fan Coils are certified in compliance with Air Conditioning, Heating, and Refrigeration Institute (AHRI) industry standard AHRI-440 for room fan coil units. Approved standard ratings are tabulated below. For additional information, please consult AHRI's website at www.ahrinet.org.

STANDARD RATINGS							COOLING CAPACITY	
HH MODEL SIZE	MOTOR TYPE	CABINET STYLE [2]	COIL ROWS	RATED CFM	GPM	WPD (FT/H20)	TOTAL COOLING (BTUH)	SENSIBLE COOLING (BTUH)
006	PSC	B	4	755	3.59	1.60	17,823	14,598
		R	4	755	3.59	1.60	17,823	14,598
		D,E,F	4	755	3.59	1.60	17,823	14,598
	ECM	B, R, D, F	4	600	3.11	1.23	15,441	12,414
008	PSC	B	4	855	4.74	2.92	23,583	18,191
		R	4	855	4.74	2.92	23,583	18,191
		D,E,F	4	855	4.74	2.92	23,583	18,191
	ECM	B, R, D, F	4	800	4.54	2.69	22,581	17,328
010	PSC	B	4	1,140	6.91	6.50	34,144	25,344
		R	4	1,120	6.82	6.35	33,754	25,017
		D,E,F	4	1,108	6.77	6.27	33,519	24,829
	ECM	B, R, D, F	4	1,000	6.32	5.52	31,364	23,064
012	PSC	B	4	1,345	8.30	7.27	41,083	30,399
		R	4	1,340	8.26	7.20	40,886	30,238
		D,E,F	4	1,330	8.22	7.13	40,689	30,075
	ECM	B, R, D, F	4	1,200	7.68	6.27	38,069	27,935
015	PSC	B	4	1,715	10.83	12.74	53,756	39,140
		R	4	1,705	10.80	12.65	53,551	38,989
		D,E,F	4	1,690	10.73	12.50	53,242	38,737
	ECM	B, R, D, F	4	1,500	8.60	8.22	42,623	30,983
018	PSC	B	4	2,005	13.38	13.24	66,530	47,378
		R	4	2,005	13.38	13.24	66,530	47,378
		D,E,F	4	2,005	13.38	13.24	66,530	47,378
	ECM	B, R, D, F	4	1,800	12.45	11.58	61,969	43,849
022	PSC	B	4	2,285	16.11	19.97	79,785	55,637
		R	4	2,285	16.11	19.97	79,785	55,637
		D,E,F	4	2,285	16.11	19.97	79,785	55,637
	ECM	B, R, D, F	4	2,200	15.68	19.02	77,778	54,149

Notes: Unless otherwise specified

1. Ratings are based on the standard coil circuits with 12FPI, 80°F DB and 67°F WB EAT, 45°F EWT, 10°F water temperature rise, high fan speed, motor voltage 115-1Ph-60Hz, airflow under dry coil conditions and actual CFM.
2. Style Legend - B = Basic; D = Deluxe; F = Flush, and R = Rear return-air plenum.
3. For other application ratings, use William's computer selection software or contact your local Williams representative.

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - HYDRONIC HEATING PERFORMANCE

STANDARD RATINGS							HEATING CAPACITY
MODEL SIZE	**MODEL TYPE**	**CABINET STYLE**	**RATED CFM**	**COIL ROWS**	**GPM**	**WPD (FT/H20)**	**(BTUH)**
006	PSC	B	755	1	2.50	5.06	24,518
		R	755	1	2.50	5.06	24,518
		D,E,F	755	1	2.50	5.06	24,518
	ECM	B, R, D, F	600	1	2.18	3.91	21,380
008	PSC	B	855	1	3.05	8.05	29,853
		R	855	1	3.05	8.05	29,853
		D,E,F	855	1	3.05	8.05	29,853
	ECM	B, R, D, F	800	1	2.92	7.46	28,670
010	PSC	B	1,152	1	4.16	16.33	40,774
		R	1,132	1	4.11	16.01	40,346
		D,E,F	1,122	1	4.09	15.84	40,130
	ECM	B, R, D, F	1,000	1	3.81	13.86	37,375
012	PSC	B	1,356	1	4.84	5.61	47,461
		R	1,346	1	4.81	5.56	47,247
		D,E,F	1,341	1	4.80	5.54	47,140
	ECM	B, R, D, F	1200	1	4.48	4.85	43,994
015	PSC	B	1,715	1	6.08	9.19	59,618
		R	1,715	1	6.08	9.19	59,618
		D,E,F	1,707	1	6.06	9.14	59,451
	ECM	B, R, D, F	1,500	1	5.60	7.81	54,920
018	PSC	B	2,005	1	7.20	11.40	70,608
		R	2,005	1	7.20	11.40	70,608
		D,E,F	2,005	1	7.20	11.40	70,608
	ECM	B, R, D, F	1,800	1	6.74	10.06	66,109
022	PSC	B	2,285	1	8.37	16.11	82,049
		R	2,285	1	8.37	16.11	82,049
		D,E,F	2,285	1	8.37	16.11	82,049
	ECM	B, R, D, F	2,200	1	8.18	15.43	80,190

Notes: Unless otherwise specified

1. Ratings are based on standard coil circuits with 12 FPI, 70° F DB EAT, 180° F EWT, 20° F water temperature rise, high fan speed, motor voltage 115-1Ph-60Hz, and airflow under dry coil conditions and actual CFM.
2. Style Legend - B = Basic; D = Deluxe; F = Flush, and R = Rear return-air plenum.
3. For other application ratings, use William's computer selection software or contact your local Williams representative.

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - COIL DATA

Hydronic coils are fabricated with ½" O.D. level wound copper tubing with 0.016" wall thickness, and tubes are staggered for maximum heat transfer. A manual air vent is standard on all hydronic coils. DX and steam coils do not include manual air vent.

All coils are 100% underwater pressure tested to 350 PSIG with a 300 PSIG max working pressure. Steam coils are rated for up to 15 PSIG or 250ºF.

Coils are available in two or four pipe system configurations, and from one to six row configurations with any combination of chilled or hot water, steam, or direct expansion. Custom circuiting is available on request.

Coil Rows	003	004	006	008	010	012	015	018	022
Single-Row Coil	STANDARD COIL								
Two-Row Coil									
Three-Row Coil									
Four-Row Coil									
Five-Row Coil *	OPTIONAL COIL								
Six-Row Coil									

* When a DX coil is combined with a hot water coil, the maximum is five functional coil rows. One row is left blank between the DX cooling and hot water heating sections to provide freeze protection for the heating coil.

COIL OPTIONS:

- Reheat coil position is standard; preheat coil position is optional.
- Standard coil construction is 12 fins per inch (FPI); 10–16 FPI is available upon request.
- Standard chilled water and hot water coil stub-out connections are 1/2" or ¾" OD based on flow.
- DX coils include a distributor and nozzle; the TXV is field-supplied and installed by others.
- Steam coils are rated for 1–15 PSIG.
- Phenolic anti-corrosion coating (PAC) is available upon request.
- Stainless steel tubes, fins, and end plates are available upon request.
- Custom tube configurations are available upon request.

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - ELECTRIC HEAT

Electric heat is available with hydronic, direct expansion (DX), or steam coils and is factory-installed, wired, and fully tested. The assembly uses low-watt-density nichrome heating elements for extended service life. For added safety, the heater includes an integral high-limit protection device and fusible link. Electric heat for the HH Series is available only in the preheat position.

NOTE: Dark gray cells indicate electric heat kW sizes that are not available.

SIZE	kw	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
	VOLTAGE	AMPS							
006	115		8.7	13.0	17.4	21.7	26.1		
	208		4.8	7.2	9.6	12.0	14.4	16.8	19.2
	230		4.3	6.5	8.7	10.9	13.0	15.2	17.4
	277		3.6	5.4	7.2	9.0	10.8	12.6	14.4
008	115		8.7	13.0	17.4	21.7	26.1		
	208		4.8	7.2	9.6	12.0	14.4	16.8	19.2
	230		4.3	6.5	8.7	10.9	13.0	15.2	17.4
	277		3.6	5.4	7.2	9.0	10.8	12.6	14.4
010	115		8.7	13.0	17.4	21.7	26.1		
	208		4.8	7.2	9.6	12.0	14.4	16.8	19.2
	230		4.3	6.5	8.7	10.9	13.0	15.2	17.4
	277		3.6	5.4	7.2	9.0	10.8	12.6	14.4
012	115		8.7	13.0	17.4	21.7	26.1		
	208		4.8	7.2	9.6	12.0	14.4	16.8	19.2
	230		4.3	6.5	8.7	10.9	13.0	15.2	17.4
	277		3.6	5.4	7.2	9.0	10.8	12.6	14.4
015	115		8.7	13.0	17.4	21.7	26.1		
	208		4.8	7.2	9.6	12.0	14.4	16.8	19.2
	230		4.3	6.5	8.7	10.9	13.0	15.2	17.4
	277		3.6	5.4	7.2	9.0	10.8	12.6	14.4
018	115		8.7	13.0	17.4	21.7	26.1		
	208		4.8	7.2	9.6	12.0	14.4	16.8	19.2
	230		4.3	6.5	8.7	10.9	13.0	15.2	17.4
	277		3.6	5.4	7.2	9.0	10.8	12.6	14.4
022	115		8.7	13.0	17.4	21.7	26.1		
	208		4.8	7.2	9.6	12.0	14.4	16.8	19.2
	230		4.3	6.5	8.7	10.9	13.0	15.2	17.4
	277		3.6	5.4	7.2	9.0	10.8	12.6	14.4

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - ELECTRIC HEAT

NOTE: Dark gray cells indicate electric heat kW sizes that are not available.

SIZE	kw	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
	VOLTAGE								
006	115								
	208								
	230								
	277								
008	115								
	208	21.6	24.0	26.4	28.8	31.3	33.7	36.1	38.5
	230	19.6	21.7	23.9	26.1	28.3	30.4	32.6	34.8
	277	16.2	18.1	19.9	21.7	23.5	25.3	27.1	28.9
010	115								
	208	21.6	24.0	26.4	28.8	31.3	33.7	36.1	38.5
	230	19.6	21.7	23.9	26.1	28.3	30.4	32.6	34.8
	277	16.2	18.1	19.9	21.7	23.5	25.3	27.1	28.9
012	115								
	208	21.6	24.0	26.4	28.8	31.3	33.7	36.1	38.5
	230	19.6	21.7	23.9	26.1	28.3	30.4	32.6	34.8
	277	16.2	18.1	19.9	21.7	23.5	25.3	27.1	28.9
015	115								
	208	21.6	24.0	26.4	28.8	31.3	33.7	36.1	38.5
	230	19.6	21.7	23.9	26.1	28.3	30.4	32.6	34.8
	277	16.2	18.1	19.9	21.7	23.5	25.3	27.1	28.9
018	115								
	208	21.6	24.0	26.4	28.8	31.3	33.7	36.1	38.5
	230	19.6	21.7	23.9	26.1	28.3	30.4	32.6	34.8
	277	16.2	18.1	19.9	21.7	23.5	25.3	27.1	28.9
022	115								
	208	21.6	24.0	26.4	28.8	31.3	33.7	36.1	38.5
	230	19.6	21.7	23.9	26.1	28.3	30.4	32.6	34.8
	277	16.2	18.1	19.9	21.7	23.5	25.3	27.1	28.9

Notes: Unless otherwise specified

1. Ratings are based on 70°F DB EAT, high fan speed, and airflow under dry coil conditions and actual CFM.
2. Minimum allowable airflow must achieve 40 CFM per kilowatt.
3. If greater kW is required consult William's engineering.

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - AIR FLOW DATA

Airflow shown below is under dry coil conditions and is nominal CFM.

AIR FLOW DATA			EXTERNAL STATIC PRESSURE (ESP)								
HH SIZE	MOTOR TYPE	CABINET STYLE	0.00			0.05			0.10		
			HI	MED	LOW	HI	MED	LOW	HI	MED	LOW
006	PSC	B	755	520	390	755	520	390	755	520	390
		R	755	520	390	755	520	390	755	520	390
		D, E, F	755	520	390	755	520	390	755	520	390
	ECM	B, D, F, R	600	450	300	600	450	300	600	450	300
008	PSC	B	855	750	600	855	750	600	855	750	600
		R	855	750	600	855	750	600	855	750	600
		D, E, F	855	750	600	855	750	600	855	750	600
	ECM	B, D, F, R	800	600	400	800	600	400	800	600	400
010	PSC	B	1,136	927	706	1,115	910	709	1,089	885	703
		R	1,115	910	709	1,089	885	703	1,057	860	692
		D, E, F	1,103	898	707	1,074	873	698	1,037	848	685
	ECM	B, D, F, R	1,000	750	500	1,000	750	500	1,000	750	500
012	PSC	B	1,348	1,112	717	1,336	1,097	701	1,315	1,081	681
		R	1,340	1,097	701	1,315	1,081	681	1,289	1,059	659
		D	1,322	1,087	687	1,298	1,067	667	1,268	1,038	638
	ECM	B, R, D, F	1,200	900	600	1,200	900	600	1,200	900	600
015	PSC	B	1,715	1,325	1,040	1,693	1,298	1,004	1,661	1,264	964
		R	1,693	1,298	1,004	1,661	1,264	964	1,622	1,224	924
		D, E, F	1,678	1,283	984	1,644	1,244	944	1,600	1,204	904
	ECM	B, D, F, R	1,500	1,125	750	1,500	1,125	750	1,500	1,125	750
018	PSC	B	2,005	1,680	1,260	2,005	1,680	1,260	2,005	1,680	1,260
		R	2,005	1,680	1,260	2,005	1,680	1,260	2,005	1,680	1,260
		D, E, F	2,005	1,680	1,260	2,005	1,680	1,260	2,005	1,680	1,260
	ECM	B, D, F, R	1,800	1,350	900	1,800	1,350	900	1,800	1,350	900
022	PSC	B	2,285	2,090	1,390	2,285	2,090	1,390	2,285	2,090	1,390
		R	2,285	2,090	1,390	2,285	2,090	1,390	2,285	2,090	1,390
		D, E, F	2,285	2,090	1,390	2,285	2,090	1,390	2,285	2,090	1,390
	ECM	B, D, F, R	2,200	1,650	1,100	2,200	1,650	1,100	2,200	1,650	1,100

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - AIR FLOW DATA

AIR FLOW DATA			EXTERNAL STATIC PRESSURE (ESP)								
HH SIZE	MOTOR TYPE	CABINET STYLE	0.15			0.20			0.25		
			HI	MED	LOW	HI	MED	LOW	HI	MED	LOW
006	PSC	B	755	520	390	730	514	378	623	483	317
		R	730	514	378	623	483	317	587	448	250
		D, E, F	668	499	348	606	466	285	567	431	213
	ECM	B, D, F, R	600	450	300	600	450	300	600	450	300
008	PSC	B	855	750	600	855	750	600	828	725	580
		R	855	750	600	828	725	580	793	699	555
		D, E, F	845	740	593	811	713	568	776	684	543
	ECM	B, D, F, R	800	600	400	800	600	400	800	600	400
010	PSC	B	1,057	860	692	1,016	833	676	969	797	654
		R	1,016	833	676	969	797	654	913	757	624
		D, E, F	994	816	666	942	777	639	883	737	609
	ECM	B, D, F, R	1,000	750	500	1,000	750	500	1,000	750	500
012	PSC	B	1,289	1,059	659	1,256	1,029	629	1,210	998	599
		R	1,256	1,029	629	1,210	998	599	1,159	962	568
		D	1,225	1,008	608	1,175	974	578	1,121	934	544
	ECM	B, R, D, F	1,200	900	600	1,200	900	600	1,200	900	600
015	PSC	B	1,622	1,224	924	1,575	1,182	882	1,523	1,133	835
		R	1,575	1,182	882	1,523	1,133	835	1,466	1,076	785
		D, E, F	1,550	1,160	860	1,496	1,106	810	1,436	1,046	760
	ECM	B, D, F, R	1,500	1,125	750	1,500	1,125	750	1,500	1,125	750
018	PSC	B	2,005	1,680	1,260	2,005	1,680	1,260	1,934	1,609	1,233
		R	2,005	1,680	1,260	1,934	1,609	1,233	1,836	1,511	1,205
		D, E, F	1,979	1,654	1,249	1,889	1,564	1,218	1,781	1,456	1,193
	ECM	B, D, F, R	1,800	1,350	900	1,800	1,350	900	1,800	1,350	900
022	PSC	B	2,285	2,090	1,390	2,285	2,090	1,390	2,239	2,038	1,362
		R	2,285	2,090	1,390	2,239	2,038	1,362	2,122	1,904	1,292
		D, E, F	2,285	2,090	1,390	2,182	1,973	1,327	2,062	1,834	1,257
	ECM	B, D, F, R	2,200	1,650	1,100	2,200	1,650	1,100	2,200	1,650	1,100

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - MOTOR DATA

Motors are wired to a junction box ready for single point field connection.

OUTSTANDING MOTOR FEATURES:

- Quick disconnect plug and receptacle
- Permanent split capacitor
- Thermal overload protection
- 1050 RPM for lower operating costs
- Oversized bearings and permanently lubricated and sealed
- 122ºF maximum operating temperature
- Custom motor mounts designed to reduce noise and eliminate vibration
- Stators are epoxy dipped for more efficient motor cooling

OPTIONAL MOTORS:

- Electronic Commutated Motors (ECM)
- 208V-1Ø-60 motors
- 277V-1Ø-60 motors
- 230/220V-1Ø-60 motors
- 50-Hz motors in specified voltages

60 HERTZ SINGLE-PHASE MOTORS (1100 RPM)				VOLTAGE / FLA / WATTS							
				115V		208V		230V		277V	
HH SIZE	MOTOR TYPE	HP (QTY)	BLOWERS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS
006	PSC	1/6 (1)	1	2.80	252	1.10	172	1.00	173	0.80	166
	ECM	1/3 (1)	1	4.70	423	3.00	468	2.80	483	2.40	499
008	PSC	1/4 (1)	1	3.20	288	1.50	234	1.50	259	1.20	249
	ECM	1/3 (1)	1	4.70	423	3.00	468	2.80	483	2.40	499
010	PSC	1/4 (1)	1	3.20	288	1.50	234	1.50	259	1.20	249
	ECM	1/2 (1)	1	6.60	594	4.20	655	3.90	673	3.40	706
012	PSC	1/3 (1)	1	4.50	405	3.10	484	3.10	535	1.80	374
	ECM	1/2 (1)	1	6.60	594	4.20	655	3.90	673	3.40	706
015 [2]	PSC	1/6 (2)	2	5.60	504	2.20	343	2.00	345	1.60	332
	ECM	1/3 (2)	2	9.40	846	6.00	936	5.60	966	4.80	997
018 [2]	PSC	1/4 (2)	2	6.40	576	3.00	468	3.00	518	2.40	499
	ECM	1/3 (2)	2	9.40	846	6.00	936	5.60	966	4.80	997
022 [2]	PSC	1/3 (2)	2	9.00	810	6.20	967	6.20	1070	3.60	748
	ECM	1/2 (2)	2	13.20	1188	8.40	1310	7.80	1346	6.80	1413

Notes: Unless otherwise specified

1. Motor full load amps listed refer to NEC amps. Actual motor nameplate amps may vary.
2. Data reflects combined performance of two (2) motors.

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - SOUND DATA WITH ECM MOTOR

HH SERIES SOUND DATA WITH ECM MOTORS									
SIZE	FAN SPEED	OCTAVE BAND CENTER FREQUENZY(CPS)							A-wgt (dbA)
		125	250	500	1000	2000	4000	8000	
006	High	56.4	60.0	62.2	60.0	54.9	49.5	38.7	64.0
	Medium	50.4	55.3	56.1	53.4	47.1	39.3	26.5	57.4
	Low	43.5	51.5	49.0	45.4	36.4	25.5	23.3	50.2
008	High	62.5	65.7	68.2	66.0	62.0	59.4	50.7	70.5
	Medium	56.3	60.2	61.4	59.1	54.6	50.2	39.3	63.4
	Low	48.2	54.6	53.1	49.8	44.5	35.6	24.3	54.6
010	High	65.4	67.5	68.4	66.8	62.7	60.2	50.6	71.3
	Medium	58.2	60.4	60.2	58.5	54.2	48.5	36.4	62.6
	Low	51.5	56.1	53.4	51.5	45.7	36.6	24.5	55.7
012	High	64.1	65.7	67.3	65.3	61.3	59.2	49.2	69.8
	Medium	58.1	60.2	60.9	58.9	55.1	50.4	38.7	63.2
	Low	50.4	54.7	52.4	50.0	44.8	35.9	27.5	54.5
015	High	64.1	65.7	68.1	65.6	61.1	57.7	47.2	70.0
	Medium	56.2	59.9	60.2	57.4	52.4	45.4	32.4	61.7
	Low	49.0	54.8	52.2	48.2	40.9	30.3	23.2	53.3
018	High	67.7	68.3	68.3	66.9	62.9	59.4	48.6	71.2
	Medium	60.7	61.9	62.1	60.2	55.6	49.5	36.9	64.3
	Low	53.7	56.7	55.0	52.4	46.4	37.2	24.1	56.8
022	High	75.0	75.2	73.8	73.8	69.4	67.2	58.5	77.8
	Medium	65.9	66.0	66.2	64.6	60.3	56.1	44.5	68.8
	Low	58.6	59.9	59.4	57.0	52.0	44.5	30.5	61.3

Notes: Unless otherwise specified

1. Sound data verified in accordance with 350 Sound Performance Rating of Non-ducted Indoor Air-conditioning and Heat Pump Equipment (latest addition), as applicable. Power levels are in dB re 10^{-12} watts.
2. Published sound ratings are based on airflow performance under dry-coil operating conditions.
3. Standard coils are for 006-012 are 4 rows.

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - SOUND DATA WITH PSC MOTOR

HH SERIES SOUND DATA WITH PSC MOTORS									
SIZE	FAN SPEED	OCTAVE BAND CENTER FREQUENZY(CPS)							A-wgt (dbA)
		125	250	500	1000	2000	4000	8000	
006	High	64.0	65.0	67.8	66.1	61.0	57.0	48.0	70.0
	Medium	57.1	60.6	61.3	60.2	53.1	46.9	35.5	63.4
	Low	51.7	56.0	54.9	57.1	44.7	36.3	24.4	58.5
008	High	65.8	75.5	70.8	70.0	65.8	63.4	56.9	74.7
	Medium	61.9	70.2	67.9	65.6	60.9	57.8	49.3	70.4
	Low	58.4	70.4	63.3	61.4	56.1	51.5	42.1	66.7
010	High	66.4	69.1	69.7	67.8	63.7	61.5	52.9	72.4
	Medium	59.7	62.6	62.1	60.3	56.2	51.5	41.0	64.6
	Low	53.1	60.8	55.3	52.7	47.6	40.1	28.4	57.9
012	High	71.5	81.1	73.7	74.9	69.3	68.9	60.4	79.5
	Medium	69.1	70.1	70.5	67.6	63.6	61.4	52.4	72.7
	Low	60.1	72.2	57.1	53.8	48.6	40.6	28.0	64.6
015	High	68.1	67.9	70.7	68.7	63.7	60.6	51.1	72.8
	Medium	61.3	61.7	62.7	62.1	55.1	49.1	37.4	65.1
	Low	55.5	57.7	56.5	60.2	46.8	37.7	25.3	61.1
018	High	65.2	73.6	69.1	68.1	68.0	66.7	54.8	74.5
	Medium	59.6	68.2	63.2	64.6	63.6	57.6	44.8	69.3
	Low	54.7	73.3	59.9	63.9	60.0	50.3	41.2	68.7
022	High	75.3	81.2	75.0	75.7	70.6	68.6	60.3	79.7
	Medium	65.1	73.0	68.5	66.6	62.7	61.0	51.3	71.8
	Low	628.0	67.9	63.1	62.8	56.0	50.0	38.5	66.6

Notes: Unless otherwise specified

1. Sound data verified in accordance with 350 Sound Performance Rating of Non-ducted Indoor Air-conditioning and Heat Pump Equipment (latest addition), as applicable. Power levels are in dB re 10^{-12} watts.
2. Published sound ratings are based on airflow performance under dry-coil operating conditions.
3. Standard coils are for 006-012 are 4 rows.

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - WEIGHTS

The following HH Series weights are based on fan coil units only with the number of cooling rows shown and 1 row of heating. Add approximately 20% for packaging and crate materials.

CABINET STYLE	SIZE	COIL ROWS	WEIGHT (LBS.)		WEIGHT (KG)	
			DRY	WET	DRY	WET
HH SERIES BASIC (B)	006	3	113	116	51	53
	006	4	117	120	53	54
	008	3	125	128	57	58
	008	4	129	132	59	60
	010	4	134	137	61	62
	010	5	140	143	64	65
	012	4	152	155	69	70
	012	5	159	162	72	73
	015	4	211	214	96	97
	015	5	219	222	99	101
	018	4	250	253	113	115
	018	5	260	263	118	119
	022	4	274	277	124	126
	022	5	285	288	129	131
HH SERIES RETURN AIR PLENUM (R)	006	3	128	131	58	59
	006	4	132	135	60	61
	008	3	140	143	64	65
	008	4	144	147	65	67
	010	4	158	161	72	73
	010	5	164	167	74	76
	012	4	167	170	76	77
	012	5	174	177	79	80
	015	4	231	234	105	106
	015	5	239	242	108	110
	018	4	275	278	125	126
	018	5	285	288	129	131
	022	4	299	302	136	137
	022	5	310	313	141	142
	022	4	319	322	145	146
	022	5	330	333	150	151

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH SERIES - WEIGHTS

CABINET STYLE	SIZE	COIL ROWS	WEIGHT (LBS.)		WEIGHT (KG)	
			DRY	WET	DRY	WET
	022	5	310	313	141	142
HH SERIES DELUXE (D)	006	3	143	146	65	66
	006	4	147	150	67	68
	008	3	160	163	73	74
	008	4	164	167	74	76
	010	4	178	181	81	82
	010	5	184	187	84	85
	012	4	192	195	87	88
	012	5	199	202	90	92
	015	4	251	254	114	115
	015	5	259	262	118	119
	018	4	295	298	134	135
	018	5	305	308	138	140
	022	4	319	322	145	146
	022	5	330	333	150	151
HH SERIES FLUSH (F)	006	3	133	136	60	62
	006	4	137	140	62	64
	008	3	150	153	68	69
	008	4	154	157	70	71
	010	4	163	166	74	75
	010	5	169	172	77	78
	012	4	177	180	80	82
	012	5	184	187	84	85
	015	4	236	239	107	108
	015	5	244	247	111	112
	018	4	280	283	127	128
	018	5	290	293	132	133
	022	4	304	307	138	139
	022	5	315	318	143	144

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

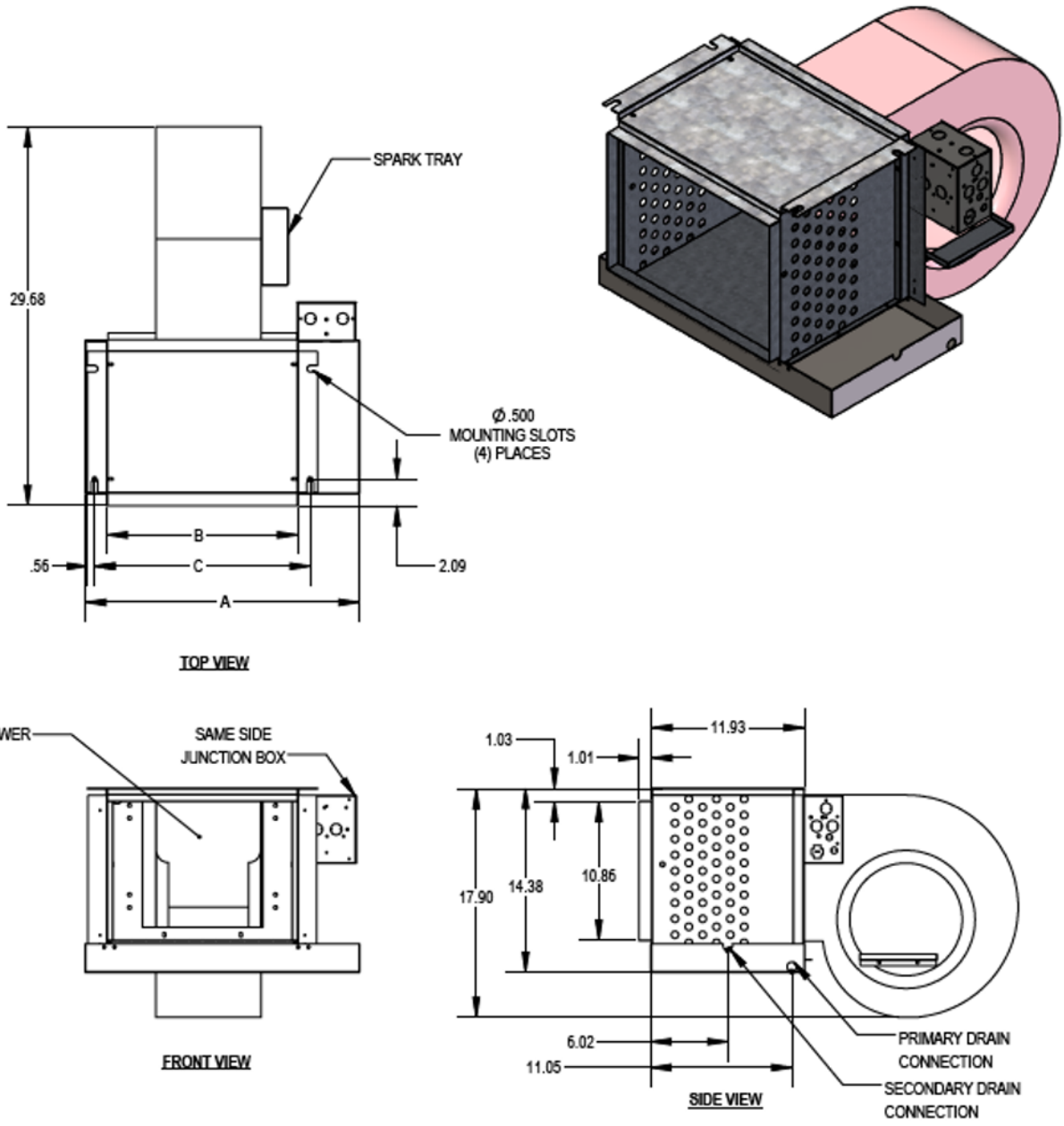
HH SERIES - GENERAL DRAWING NOTES

Unless otherwise specified:

- These notes apply to the following drawing unless otherwise specified.
- The following are Certified Dimensional unit drawings.
- All dimensions are inches.
- Right-hand unit shown, left hand unit opposite.
- Coil connections are determined by facing the supply air opening.
- The electrical junction box default location is on the opposite side of the coil connections.
- The unit must be installed level and condensate drain lines must be slopped and trapped.
- The condensate drain pan has 3/4" NPT or larger (if necessary) primary and secondary drain connections.
- Standard chilled water and hot water coil stub-out connections are 1/2" or ¾" OD copper. The size is based on flow rate.

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH BASIC (B) FRONT SUPPLY / OPEN RETURN 600 to 1,200 CFM

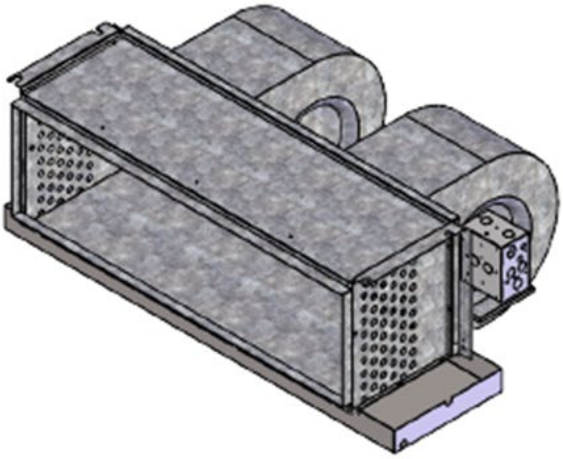


RIGHT HAND SHOWN, LEFT HAND OPPOSITE

UNIT SIZE	LENGTH	WIDTH	HEIGHT	SUPPLY DUCT			
		A		B		C	BLOWER
600	29.68	21.50	17.90	15.00	10.86	16.88	1
800	29.68	25.50	17.90	19.00	10.86	20.88	1
1000	29.68	31.50	17.90	25.00	10.86	26.88	1
1200	29.68	37.50	17.90	31.00	10.86	32.88	1

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH BASIC (B) – FRONT SUPPLY / OPEN RETURN 1,500 to 2,200 CFM

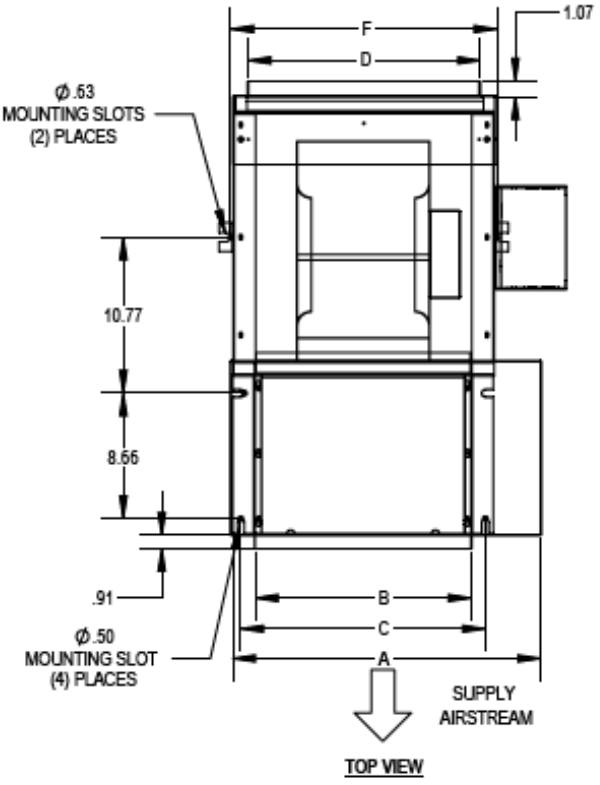


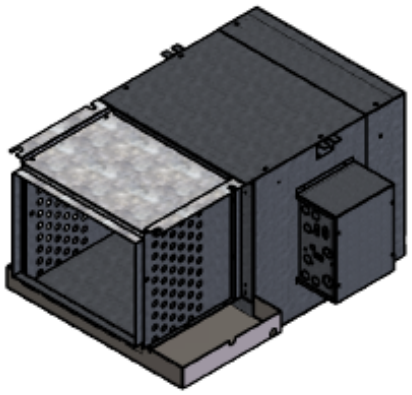
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

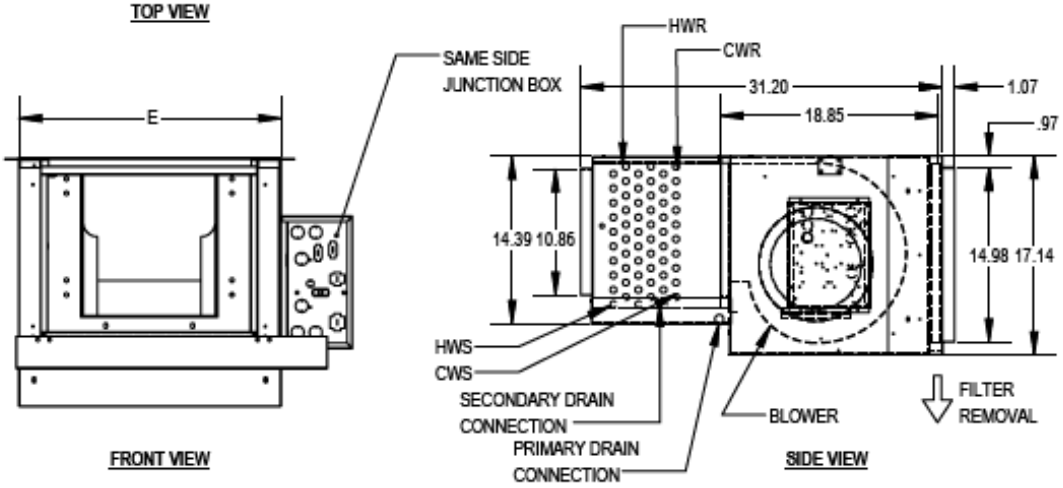
UNIT SIZE	A	B	C	BLOWER
1500	43.50	37.00	38.88	2
1800	49.50	43.00	44.88	2
2200	55.50	49.00	50.88	2

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH REAR RETURN AIR PLENUM (R) FRONT SUPPLY 600 to 1,200 CFM





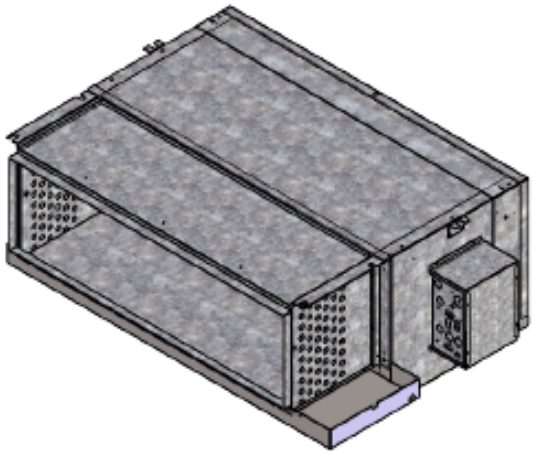


RIGHT HAND SHOWN, LEFT HAND OPPOSITE

UNIT SIZE	A	B	C	D	E	F	BLOWERS	FILTER SIZE
600	21.50	15.00	16.88	16.00	18.00	18.13	1	17 x 18 x 1
800	25.50	19.00	20.00	20.00	22.00	22.13	1	17 x 22 x 1
1000	31.50	25.00	26.00	26.00	28.00	28.13	1	17 x 28 x 1
1200	37.50	31.00	32.00	32.00	34.00	34.13	1	17 x 34 x 1

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH REAR RETURN AIR PLENUM (R) FRONT SUPPLY 1,500 to 2,200 CFM

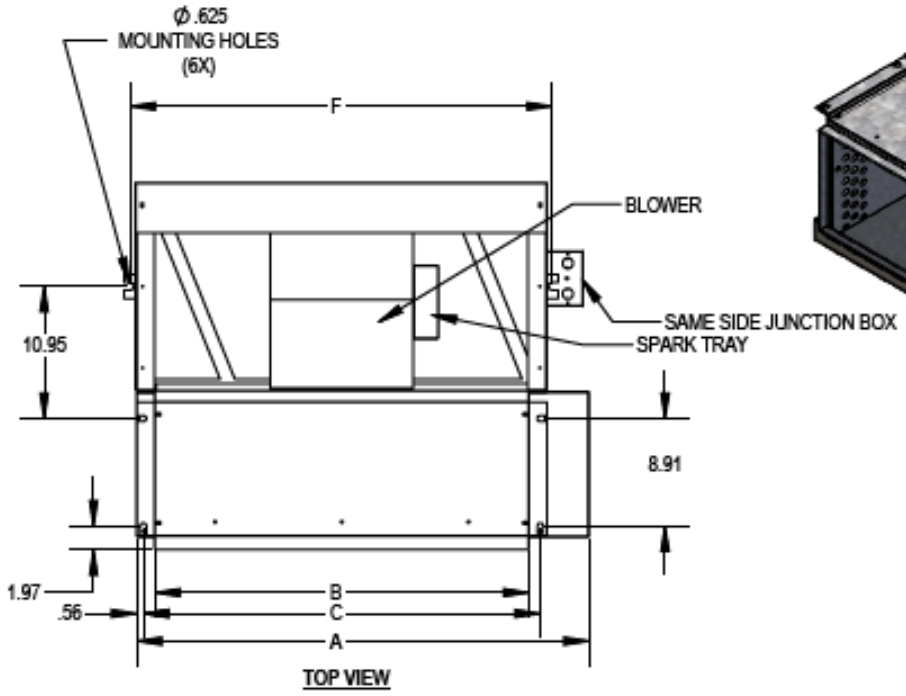


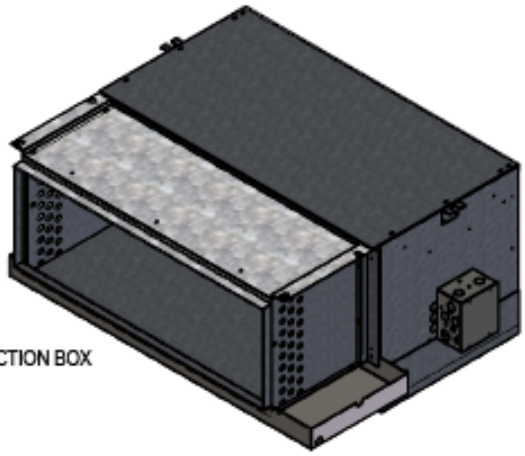
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

UNIT SIZE	A	B	C	D	E	F	BLOWER	FILTER SIZE
1500	43.50	37.00	38.89	38.00	40.13	41.00	2	17 x 40 x 1
1800	49.50	43.00	44.75	44.00	46.13	47.00	2	17 x 46 x 1
2200	55.52	49.00	50.75	50.00	52.13	53.00	2	17 x 52 x 1

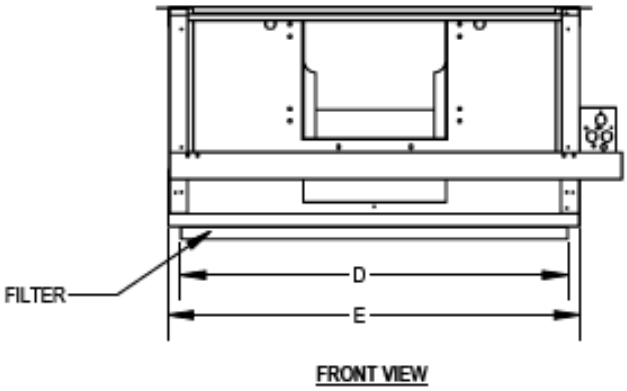
WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

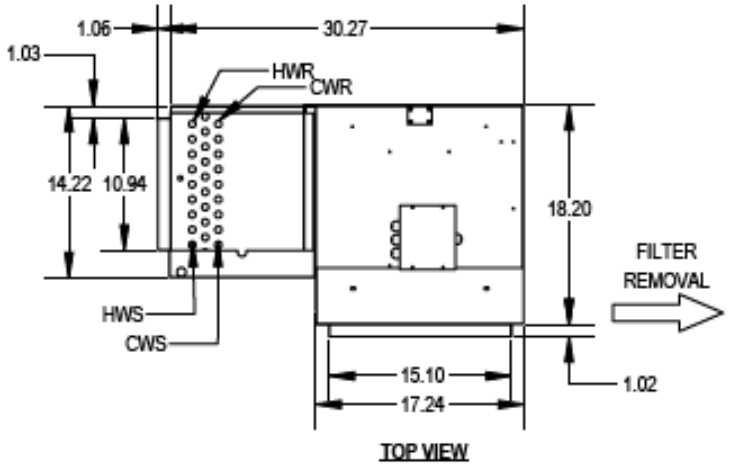
HH BOTTOM RETURN AIR PLENUM (R) FRONT SUPPLY - 600 to 1,200 CFM





SUPPLY
AIRSTREAM



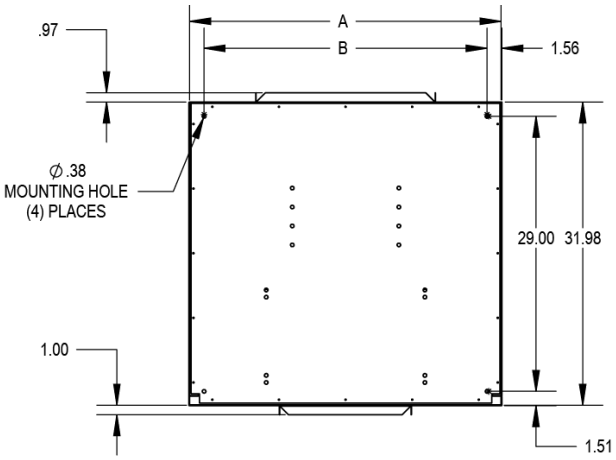


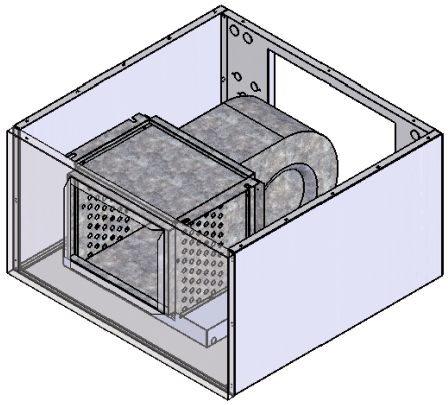
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

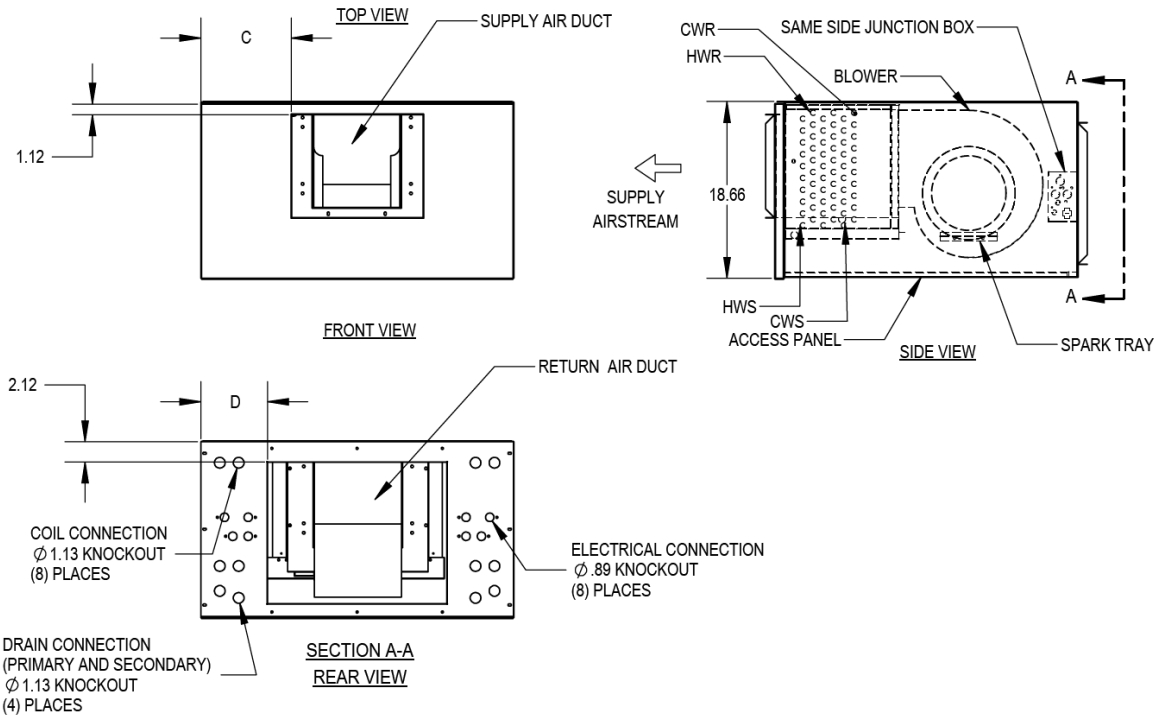
UNIT SIZE	A	B	C	D	E	F	MOTORS	BLOWERS	FILTER SIZE
600	21.50	14.90	16.88	16.08	18.13	18.98	1	1	17 x 18 x 1
800	25.50	18.90	20.88	20.08	22.13	22.98	1	1	17 x 22 x 1
1000	31.50	24.90	26.88	26.08	28.13	28.98	1	1	17 x 28 x 1
1200	37.50	31.00	32.88	32.08	34.13	35.01	1	1	17 x 34 x 1
1500	43.50	36.90	38.88	38.08	40.13	40.98	2	2	17 x 40 x 1
1800	49.50	42.90	44.88	44.08	46.13	46.98	2	2	17 x 46 x 1
2200	55.50	48.90	50.88	50.08	52.13	52.98	2	2	17 x 52 x 1

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH DELUXE (D) FRONT SUPPLY / REAR RETURN 600 to 2,200 CFM





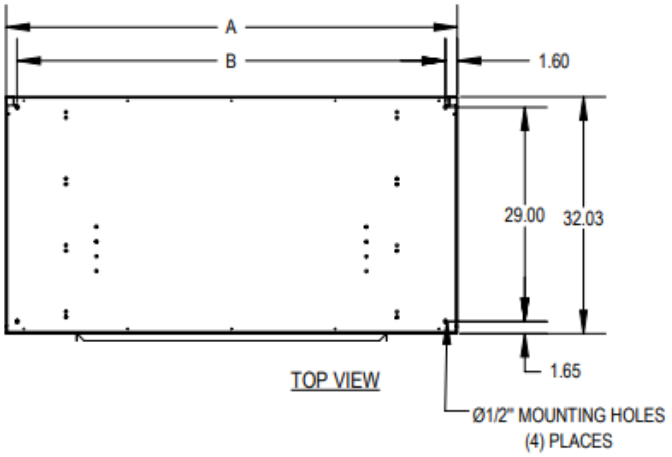


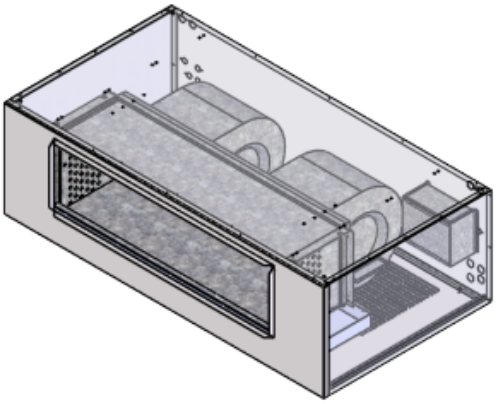
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

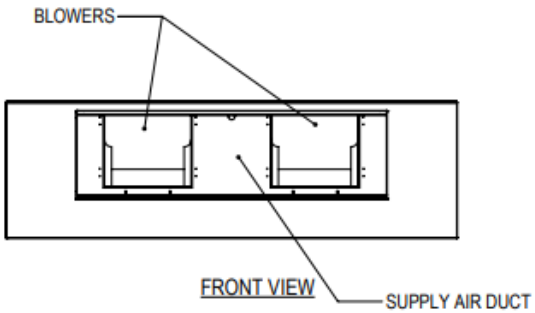
UNIT SIZE	A	B	C	D	SUPPLY DUCT	RETURN DUCT	FILTER SIZE
600	33.00	29.88	9.53	7.04	14 x 11	19 x 15	17 x 28 x 1
800	37.00	33.88	9.53	6.52	17 x 12	24 x 15	17 x 34 x 1
1000	43.00	39.88	9.53	7.25	24 x 12	29 X 15	17 x 40 x 1
1200	49.00	45.88	9.53	7.50	30 x 12	34.7 x 15	17 x 46 x 1
1500	55.00	55.88	9.53	8.50	36 x 12	42 x 15	17 x 46 x 1
1800	61.00	57.88	9.53	8.79	42 x 12	43.5 x 15	17 x 52 x 1
2200	67.00	63.88	9.53	9.17	48 x 12	48.75 x 15	17 x 52 x 1

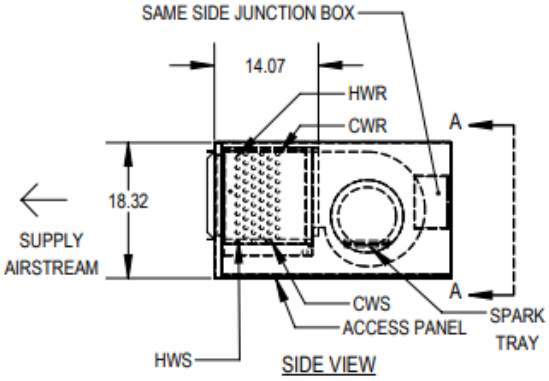
WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

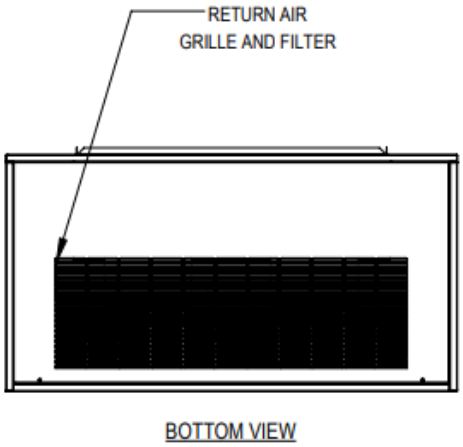
HH DELUXE (D) FRONT SUPPLY / BOTTOM RETURN 600 to 2,200 CFM

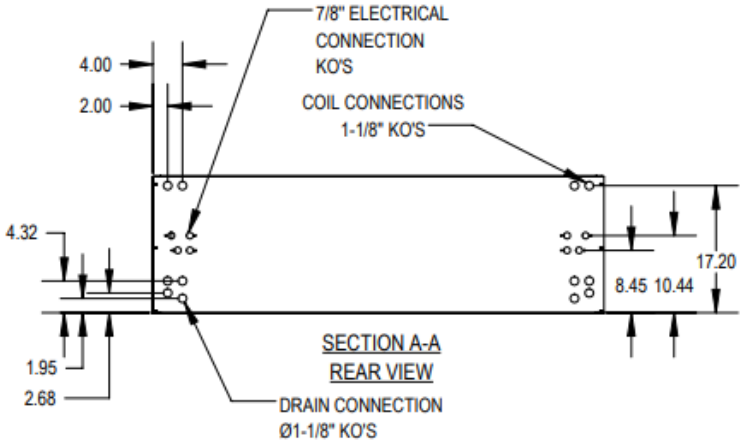










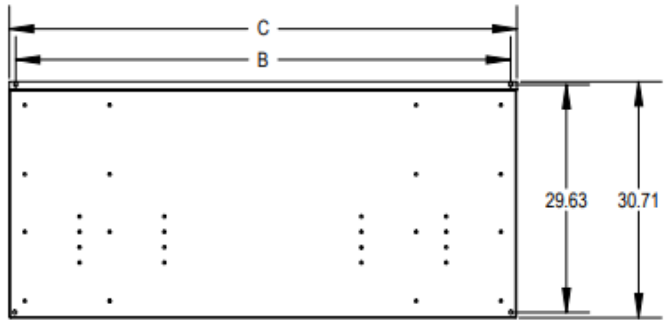


RIGHT HAND SHOWN, LEFT HAND OPPOSITE

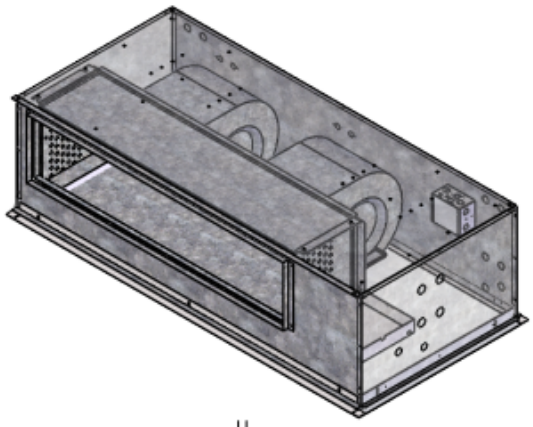
UNIT SIZE	A	B	SUPPLY DUCT	RETURN GRILLE	FILTER SIZE
600	33.00	30.00	11 x 14	14.66 x 25.70	17 x 28 x 1
800	37.00	33.88	12 x 18	14.66 x 25.70	17 x 34 x 1
1000	43.00	39.88	12 x 24	14.66 x 34.34	17 x 40 x 1
1200	49.00	45.88	12 x 30	14.66 x 42.98	17 x 46 x 1
1500	55.00	51.88	12 x 36	14.66 x 42.98	17 x 46 x 1
1800	61.00	57.88	12 x 42	14.66 x 47.57	17 x 52 x 1
2200	67.00	63.88	12 x 48	14.66 x 51.62	17 x 52 x 1

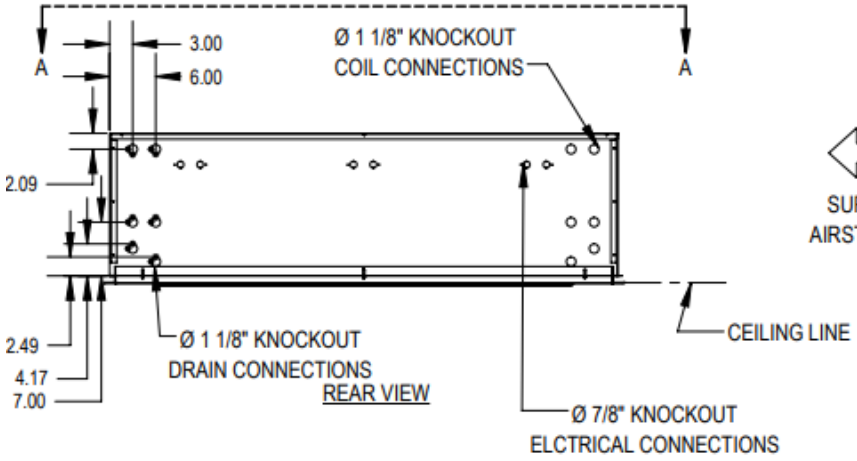
WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH FLUSH (F) FRONT SUPPLY / BOTTOM RETURN 600 to 2,200 CFM

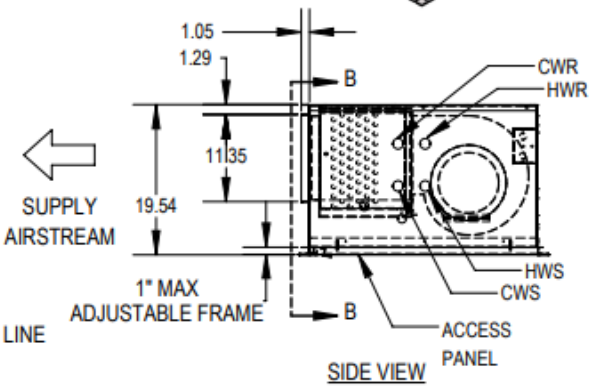


SECTION A-A
TOP VIEW

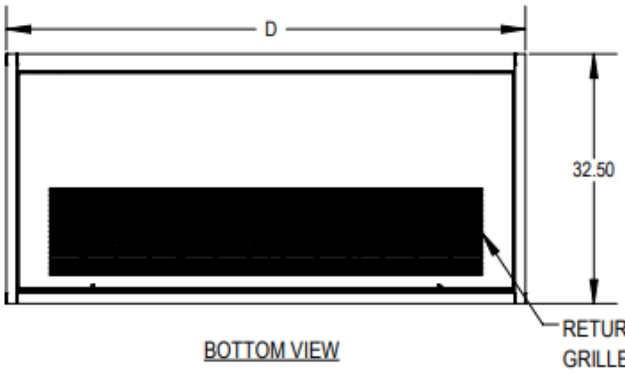




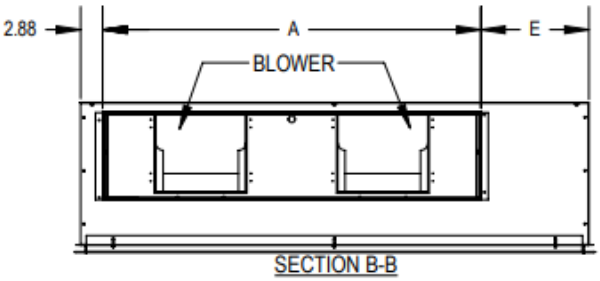
REAR VIEW



SIDE VIEW



BOTTOM VIEW



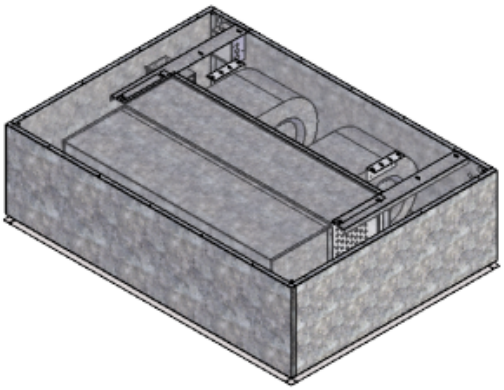
SECTION B-B
FRONT VIEW

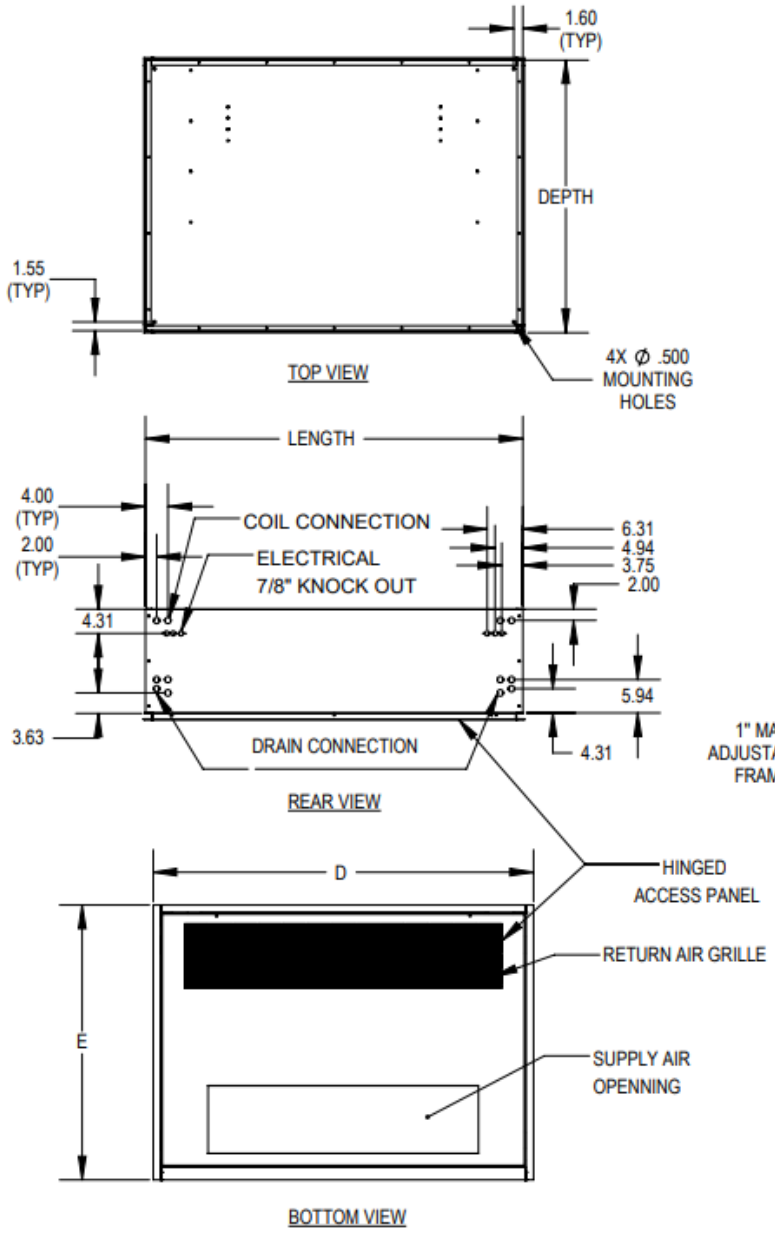
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

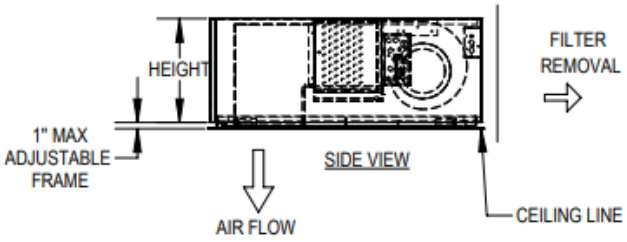
UNIT SIZE	A	B	C	D	E	MOTORS	BLOWERS	RETURN GRILLE	FILTER SIZE
600	15.19	44.37	46.00	47.50	27.93	1	1	14.46 x 38.88	12 x 40 x 1
800	19.19	44.37	46.00	47.50	23.93	1	1	14.46 x 38.88	12 x 40 x 1
1000	25.19	44.37	46.00	47.50	17.93	1	1	14.46 x 38.88	12 x 40 x 1
1200	31.19	52.37	54.00	55.50	19.93	1	1	14.46 x 47.57	(2) 12 x 25 x 1
1500	37.19	54.37	56.00	57.50	15.93	2	2	14.46 x 47.57	(2) 12 x 25 x 1
1800	43.19	58.37	60.00	61.50	13.93	2	2	14.46 x 51.92	(3) 12 x 26 x 1
2200	49.19	64.37	66.00	67.50	13.93	2	2	14.46 x 56.26	(3) 12 x 30 x 1

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH FLUSH (F) BOTTOM SUPPLY AND RETURN 600 to 2,200 CFM





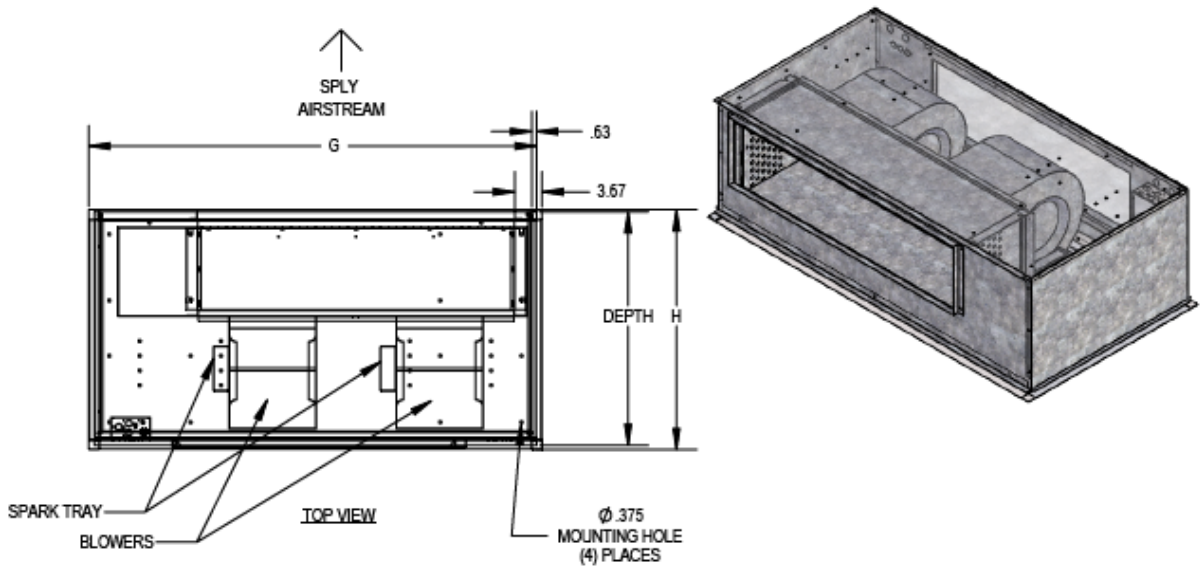


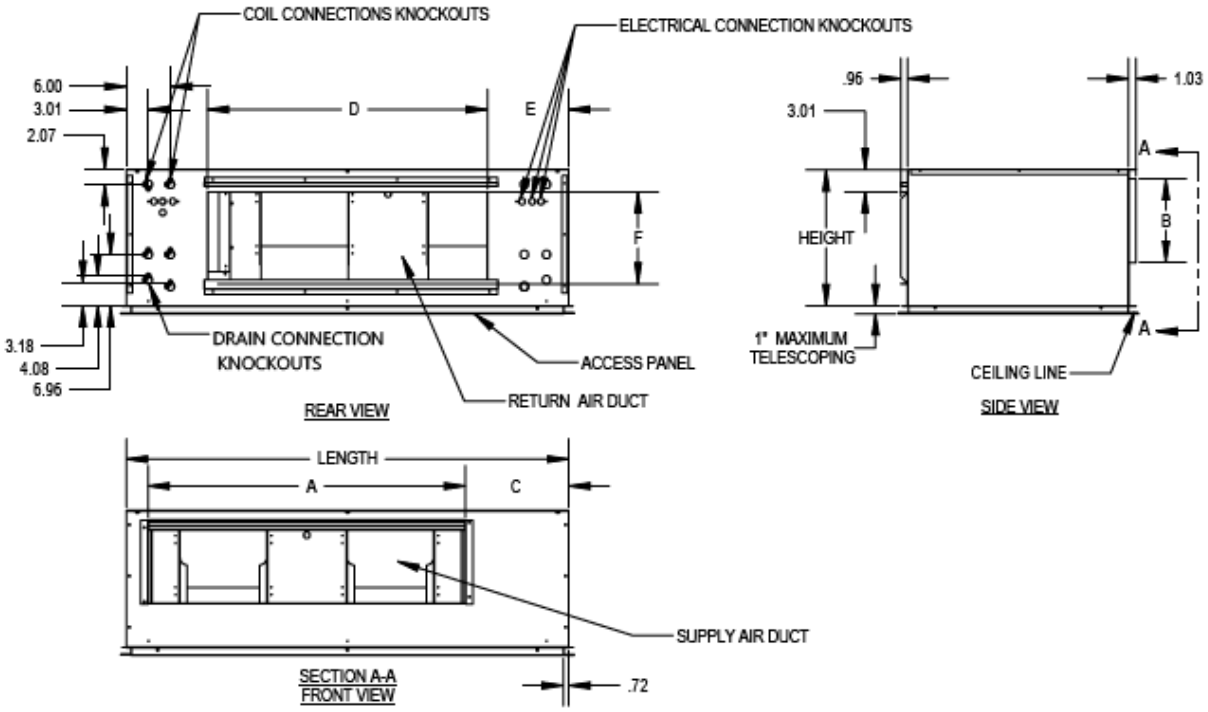
RIGHT HAND SHOWN, LEFT HAND OPPOSITE

UNIT SIZE	LENGHT	HEIGHT	DEPTH	D	E	MOTORS	BLOWERS	SUPPLY GRILLE	RETURN GRILLE	FILTER SIZE
600	47.00	18.50	48.20	47.50	48.81	1	1	14 X 12	14.46 x 38.88	12 x 40 x 1
800	47.00	18.50	48.20	47.50	48.81	1	1	18 X 12	14.46 x 38.88	12 x 40 x 1
1000	47.00	18.50	48.20	47.50	48.81	1	1	24 X 12	14.46 x 38.88	12 x 40 x 1
1200	55.00	18.50	48.20	55.50	48.81	1	1	30 X 12	14.46 x 47.57	(2) 12 x 25 x 1
1500	57.00	18.50	48.20	57.50	48.81	2	2	36 X 12	14.46 x 47.57	(2) 12 x 25 x 1
1800	61.00	18.50	48.20	61.50	48.81	2	2	42 X 12	14.46 x 51.92	(3) 12 x 26 x 1
2200	67.00	18.50	48.20	67.50	48.81	2	2	48 X 12	14.46 x 56.26	(3) 12 x 30 x 1

WILLIAMS HIGH-PERFORMANCE HORIZONTAL FAN COIL

HH FLUSH (F) FRONT SUPPLY AND REAR RETURN 600 to 2,200 CFM





RIGHT HAND SHOWN, LEFT HAND OPPOSITE

OVERALL				SUPPLY DUCT			RETURN DUCT			FRAME		BLOWERS	FILTER SIZE
UNIT SIZE	LENGHT	HEIGHT	DEPTH	A	B	C	D	E	F	G	H		
600	46.00	18.50	31.41	15.13	11.41	27.99	32.00	7.00	10.40	47.50	32.50	1	12 x 34 x 1
800	46.00	18.50	31.41	19.13	11.41	24.00	32.00	7.00	10.40	47.50	32.50	1	12 x 34 x 1
1000	46.00	18.50	31.41	25.13	11.41	18.00	32.00	7.00	10.40	47.50	32.50	1	12 x 34 x 1
1200	54.00	18.50	31.41	31.13	11.41	20.00	34.60	9.70	10.40	55.50	32.50	1	12 x 36 x 1
1500	56.00	18.50	31.41	37.19	11.41	15.00	34.60	10.65	10.40	57.50	32.50	2	(2) 12 x 20 x 1
1800	61.00	18.50	31.41	43.19	11.41	13.93	37.98	11.00	12.48	61.44	32.50	2	(2) 14 x 20 x 1
2200	66.00	18.50	31.41	49.19	11.51	13.93	37.90	11.00	12.48	67.50	32.50	2	(2) 14 x 20 x 1

GENERAL HORIZONTAL FAN COIL INFORMATION

Furnish and install Williams LH and HH Series Horizontal Direct Drive fan coil units as indicated on the plans and in the specifications. All units shall be completely factory assembled, tested and shipped as one working unit. All units shall be capable of meeting or exceeding the scheduled capacities for cooling, heating, and air delivery. Dimensions for each model and size shall be considered maximum. Units shall be ETL listed and in compliance with UL60335-2-40 and certified as complying with the latest edition AHRI standard 440.

CONSTRUCTION

All unit chassis shall be fabricated with heavy gauge galvanized steel panels able to meet 125-hour salt spray test per ASTM B-117. All exterior panels shall be insulated with 1/2" thick, 1.5 pound per cubic foot, dual density fiberglass insulation rated for a maximum air velocity of 3600 FPM. Insulation shall conform to UL 181 for erosion and NFPA 90A and 90B for flame spread (25) and smoke developed (50) rating per ASTM E-84 and UL 723 and CAN./ULC, S102-M88.

All concealed units shall have a minimum 1" duct collar on the discharge. Plenum units shall have a minimum 1" duct collar on the return.

All exposed units shall have exterior panels fabricated with cold rolled steel.

OPTION: Provide foil faced insulation in lieu of standard. Foil insulation shall meet or exceed the requirements stated above, and in addition, meet ASTM Standards C665 and C-1136 for biological growth in insulation. Insulation shall be lined with aluminum foil, fiberglass scrim reinforcement, and 30-pound kraft paper laminated together with a flame-resistant adhesive. All exposed edges shall be sealed to prevent any fibers from reaching the air stream.

OPTION: Provide elastomeric closed cell foam insulation in lieu of standard. Insulation shall conform to UL 181 for erosion and NFPA 90A for fire, smoke, and melting, and comply with a 25/50 flame spread and smoke developed Index per ASTM E-84 or UL 723. Additionally, insulation shall comply with antimicrobial performance rating of zero, no observed growth, per ASTM G21. Polyethylene insulation is not acceptable.

OPTION: For exposed units, the bottom access panels shall be attached with quick open fasteners to allow for easy removal and access for service.

OPTION: For exposed units, provide double deflection discharge grille and either a rear return or bottom return single deflection grille. Supply and return duct connections are available.

Unit mounting shall be by hanger and slotted hanging brackets provided at four locations. For easy installation, exposed units provided with 1/2" mounting knockouts in four places.

PAINTED FINISH

All exposed cabinet exterior panels shall be provided with soft white powder coated epoxy finish and subjected to a 1500-hour salt spray test in accordance with ASTM B117.

SOUND

Units shall have published sound power level data tested in accordance with AHRI Standard 350-2000 (non-ducted equipment) and AHRI Standard 260-2001 (ducted equipment).

FAN ASSEMBLY

Unit fan shall be a dynamically balanced, forwardly curved, DWDI centrifugal type constructed of heavy gauge zinc coated galvanized steel for corrosion resistance. Motors shall be high efficiency, permanently lubricated sleeve bearing, permanent split capacitor type with UL and C-UL listed automatic reset thermal overload protection and three separate horsepower taps. Single speed motors are not acceptable.

The fan assembly shall be easily removable for servicing the motor and blower at or away from the unit. The entire fan assembly shall be able to come out of the unit by removing two wing nuts and unplugging the motor.

Plenum unit fan assemblies shall be easily serviced through an access panel provided.

OPTION: Devices used to energize and de-energize (switch) fan speeds must be silent. Mercury and/or quiet relays and/or contactors are not acceptable.

COILS

All cooling and heating coils shall optimize rows and fins per inch to meet the specified capacity. Coils shall have seamless copper tubes and shall be mechanically expanded to provide an efficient, permanent bond between the tube and fin. Fins shall have high efficiency aluminum surface optimized for heat transfer, air pressure drop and carryover.

All coils shall be hydrostatically tested at 350 PSIG air pressure underwater and rated for a maximum of 300 PSIG working pressure at 200°F maximum water temperature. Direct expansion cooling coils shall include a fixed orifice distributor and nozzle.

Cooling and heating coils shall be in the common coil casing, heating coils shall be furnished in the reheat or preheat position on the unit with chilled water coils, and DX heating coils shall be in preheat position only.

Steam coils shall be standard steam type suitable for temperatures above 35°F and 15 PSIG maximum working pressure.

OPTION: Coil casing shall be fabricated from 304 stainless steel. All coils shall be provided with a manual air vent fitting to allow for coil venting.

OPTION: Provide automatic air vents in lieu of manual air vents.

DRAIN PANS

Primary condensate drain pans shall be single wall, heavy gauge, powder-coated epoxy subjected to a 650-hour salt spray test in accordance with ASTM B117 and shall be extended under the entire cooling coil. Drain pans shall be of one-piece construction and be positively sloped for condensate removal. Drain pans have primary and secondary drain connections.

The drain pan shall be externally insulated with closed cell foam insulation. The insulation shall carry no more than a 25/50 Flame Spread and Smoke Developed Rating per ASTM E-84 and UL 723 and fungi resistant per ASTM G21/C1338, bacteria resistant per ASTM G22 and mold growth per UL 181.

OPTION: Provide a single wall primary drain pan constructed entirely of heavy gauge type 304 stainless steel for superior corrosion resistance. Stainless steel drain pans shall be externally insulated and meet or exceed the requirements stated above.

Provide a secondary drain connection on the primary drain pan for condensate overflow.

OPTION: Provide a condensate overflow switch in the primary drain pan for condensate overflow.

AIR FILTERS

All plenum and exposed units shall be furnished with a minimum 1" nominal glass fiber throwaway air filter. Air filters shall be tightly fitted to prevent unfiltered bypass air. Plenum and exposed unit air filters shall be easily removable from the bottom or rear of the unit without the need for tools.

OPTION: Provide unit with 1” MERV 8 or MERV 13 pleated air filters.

OPTION: Provide units with 2" MERV 8 pleated air filters.

ELECTRICAL

Units shall be furnished with single point power connection. Provide an electrical junction box with terminal strip for motors and other electrical terminations.

OPTION: The factory mounted terminal wiring strip consists of a multiple position screw terminal block to facilitate wiring terminations for the electric control valves and thermostats.

ELECTRIC HEAT

Furnish an electric resistance heating assembly as an integral part of the fan coil unit, with the heating capacity, voltage and kilowatts scheduled. The heater assembly shall be designed and rated for installation on the fan coil unit without the use of duct extensions or transitions and located within the unit as to not expose the fan assembly to excessive leaving air temperatures that could affect motor performance.

The heater and unit assembly shall be listed for zero clearance and meet all NEC requirements, and UL listed with the unit as an assembly in compliance with UL/ANSI Standard 1995.

All heating elements shall be open coil type Nichrome wire mounted in ceramic insulators and located in an insulated heavy gauge galvanized steel housing. All elements shall be terminated in a machine staked stainless steel terminal secured with stainless steel hardware for corrosion resistance. The element support brackets shall be spaced no greater than 3-1/2” on center. All internal wiring shall be rated for 105°C minimum.

All heaters shall include over temperature protection consisting of an automatic reset primary thermal limit and back up secondary thermal limit. All heaters shall be single stage.

An incoming line power distribution block shall be provided and designated to accept single point power wiring capable of carrying 125% of the calculated load current.

OPTION: Devices used to energize and de-energize (switch) electric heat must be silent. Mercury and/or quiet relays and/or contactors are not acceptable.

PIPING PACKAGES (OPTION)

Provide a factory assembled valve piping package to consist of a 2 or 3 way, on/off, motorized electric control valve and two isolation ball valves. Control valves are piped normally closed (NC) to the coil. Maximum entering water temperature on the control valve is 180°F, and maximum close-off pressure is 75 PSIG (1/2") or 50 PSIG (3/4"). Maximum operating pressure shall be 300 PSIG.

OPTION: Provide 3-wire floating point modulating control valve in lieu of standard 2 position control valve with factory assembled valve piping package.

OPTION: Provide either a fixed or adjustable flow control device for each piping package.

OPTION: Provide pressure-temperature ports for each piping package.

Piping packages are shipped installed on all units and can be shipped separately by request only.

UNIT HAND DETERMINATION

To determine if a fan coil unit has right-hand or left-hand piping connections, first identify the unit's air inlet (or Return) and air discharge (or Supply). The unit handing is defined from the discharge (or Supply) side of the unit. Stand facing the discharge opening so the leaving air would flow toward you. See Figure 1.

A right-hand unit has the Supply, Return and condensate drain pan connections on the observer's right. A left-hand unit has the Supply, Return and condensate drain pan connections on the observer's left.

Unless otherwise indicated on the unit drawing, the electrical junction box default location is on the opposite side of the coil connections.

For vertical units, check the unit drawing to identify the designated front and the view used to define handing.

Figure 1

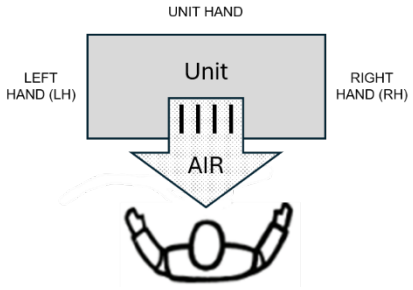
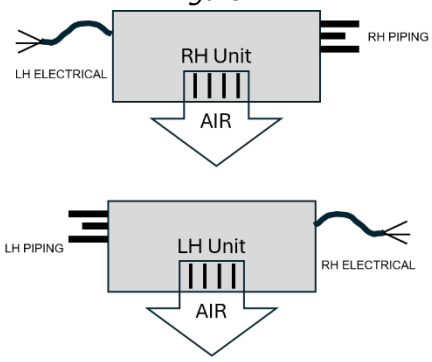
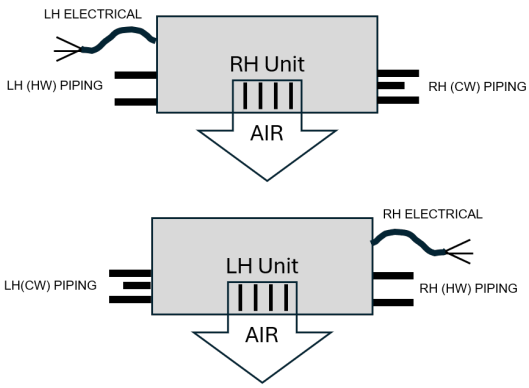


Figure 2



NOTE: Chilled water piping determines the hand of the unit.
Same End Connection

Figure 3



NOTE: Chilled water piping determines the hand of the unit.
Opposite End Connection



https://williamsfancoil.com/products/ | 888-444-1212 | 250 West Laurel Street, Colton CA 92324 USA

Subject to change without notice | © 2026



In a continuous effort to improve Williams Furnace Company products, the designs and specifications of the products described herein may be changed by Williams Furnace Company without notice. Because the designs and specifications may not be as described herein, you should always contact Williams Furnace Company for the most current design and specification information for Williams Furnace Company products. The designs and specifications provided herein are the opinions of Williams Furnace Company and are not to be considered as any express warranty. The designs and specifications are provided "as is" with no warranties whatsoever, including any warranty of merchantability, fitness for any particular purpose, or any warranty otherwise arising out of any proposal, specification, or sample. Without limitation, Williams Furnace Company disclaims all liability for cost of procurement of substitute goods, lost profits, loss of use, or any incidental, consequential, direct, indirect, or special damages, whether under contract, tort, warranty, or otherwise, arising in any way out of the use or reliance upon these designs or specifications or any information provided herein.

L8082 09/26