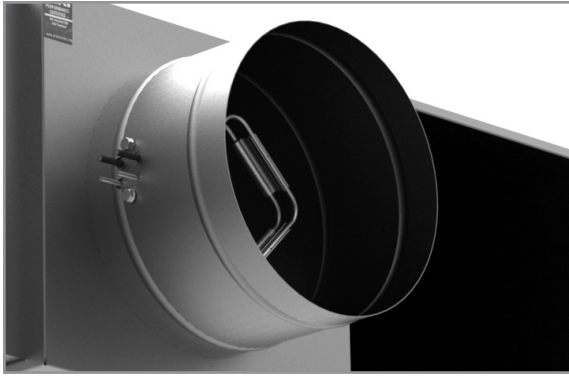


## ATU PRODUCT CATALOG



# AIR TERMINAL UNITS

FCI-600  
CONSTANT VOLUME  
FAN TERMINAL UNIT



## FAN POWERED TERMINAL UNITS

### BENEFITS:

Fan powered terminals are typically used for heating and cooling of perimeter zones. Operating cost savings can be achieved through the use of waste heat recovery from the ceiling plenum and from reduced central fan HP. This coupled with a relatively low impact on installation costs are reasons for the widespread application of fan powered terminal units.

Both parallel and series fan powered terminals have a damper to modulate primary cooling air and a fan/motor assembly that draws return air from the ceiling plenum. The difference in the configuration and operation of these terminals is illustrated on these pages.

### SERIES FAN POWERED TERMINAL UNITS

In the series fan powered terminal, the primary air valve and fan are in the primary airstream, and are sized for the cooling load. The fan runs continuously during both heating and cooling modes. The volume of supply air remains constant at all times resulting in better diffuser performance and constant noise levels.

### PARALLEL FAN POWERED TERMINAL UNITS

In the parallel fan powered terminal, the primary air valve is sized for the cooling airflow just as in single duct terminals. The fan section is outside of the primary airstream and typically runs only in the heating mode. It is typically sized for 50% of the maximum primary airflow which can result in lower noise levels, lower unit first costs, and reduced energy usage when compared to a series fan powered terminal due to the fan not being on at all times with fan being energized only during heating mode.

<b>Function</b>	Series Terminal Constant volume	Parallel Terminal Variable volume
<b>Fan Operation</b>	Continuous. Runs under heating and cooling in occupied and unoccupied modes.	Intermittent. Typically runs only under heating mode.
<b>Operation of Terminal</b>	Constant volume, variable temperature at all times. Supplemental heat raises supply temperature in stages.	Variable volume, constant temperature during cooling. Constant volume variable temperature during heating. Fan and supplemental heat raise supply temperature in stages.
<b>Terminal Fan Sizing</b>	For design airflow — heating or cooling, whichever is greater — at required downstream static pressure.	For design heating load at reduced downstream static pressure (typically 50% of cooling CFM).
<b>Central Fan Sizing</b>	Static pressure needed to overcome volume damper only.	Static pressure needed to overcome volume damper, heating coil, downstream duct, and diffusers.

### MODEL NUMBER LEGEND

<b>FXX</b>	<b>XX</b>	<b>XXXX</b>	<b>Fan Motor Voltage</b>
C Series Unit V Parallel Unit	Case Size (C1, C2, C3, etc.)	Inlet Size (04, 05, 06, etc.)	A 120 C 277 F 208-240
	I Improved Q Ultra Quiet L Low Profile	Generation 5, 6, 7	

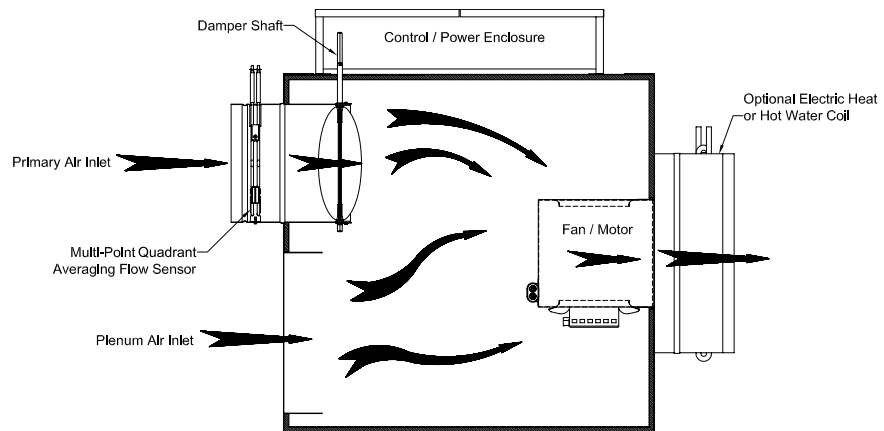
### EXAMPLE: FCI C5 614C-900B

<b>-XXXX</b>	<b>Terminal Type:</b>	<b>Control Sequence:</b>	A 120 / 24 Transformer Voltage C 277 / 24 Transformer Voltage F 208 / 24 Transformer Voltage N No Transformer E Electric Heat
	8 FVI, FVL 9 FCI, FCL, FCQ	00B No Controls 1 Pneumatic 5 Electric 05 DDC by others 6 Analog 8 Factory DDC	

## TYPES OF FAN POWERED TERMINAL UNITS

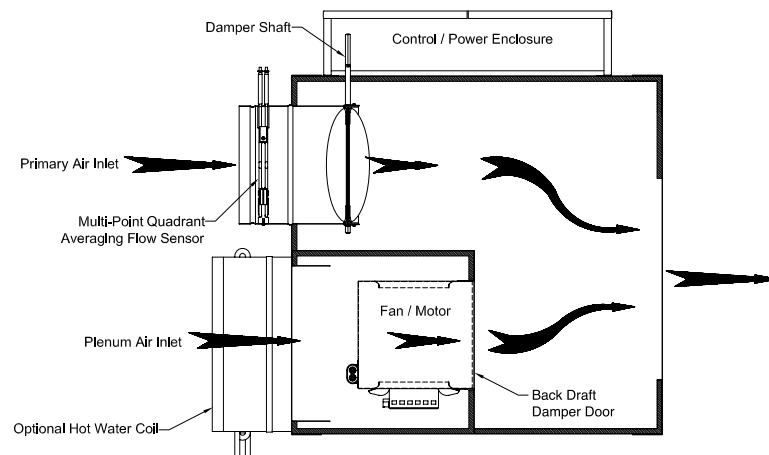
### FCI-600 SERIES FAN POWERED UNIT

In a constant volume (or series) fan powered terminal, the fan runs continuously. Both primary and induced air are discharged through the fan.



### FVI-500 PARALLEL FAN POWERED UNIT

In a variable volume (or parallel) terminal unit, the fan runs only when heating is required. In cooling, the unit functions the same as a single duct VAV terminal.



### CERTIFICATION AND STANDARDS

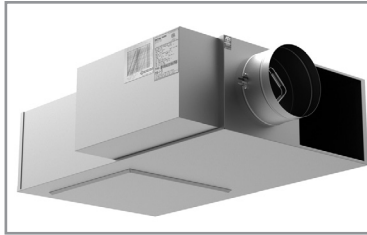
- Units tested per ANSI / ASHRAE Standard 130.
- All model sizes certified in accordance with AHRI 880 certification program.
- ETL listed to meet requirements of UL 1995 and CSA 236.
- Dual-density fiberglass insulation meets UL 181 and NFPA 90A requirements.
- Insulation meets ASHRAE 62.1 requirements for resistance to mold growth and erosion.

### OPTIONS

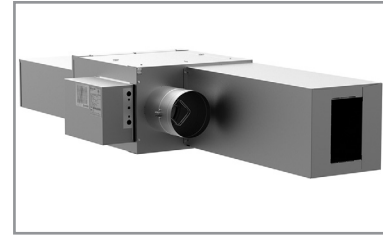
- Energy-efficient electronically commutated motor (ECM).
- SSR controlled electric heater.
- Mercury contactors for quiet operation of the electric heater.
- Inlet attenuator for quiet applications.



FCI-600  
CONSTANT VOLUME UNIT



FCL-600  
LOW-PROFILE CONSTANT VOLUME UNIT



FCQ-700  
ULTRA QUIET CONSTANT VOLUME UNIT

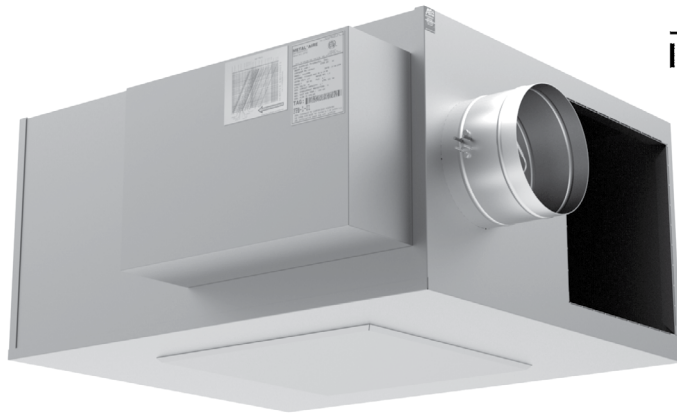
## SERIES FAN POWERED TERMINAL UNITS

METALAIRE's series fan-powered terminal units are designed to provide superior comfort by supplying constant volume, variable temperature air into the occupied zone. Series fan-powered terminal units reduce central fan energy, allow for recovery of waste heat from the return plenum, lower operating costs, improve air circulation through better diffuser performance, and provide a constant sound level for maximum occupant comfort.

The primary function of the METALAIRE series fan-powered terminal unit is to deliver a constant volume of conditioned air into the occupied zone. The terminal unit mixes conditioned air from the primary duct and warm air from the return plenum in varying amounts in response to a control signal. Supplemental heating is available in both electric heat and hot water coils if plenum heat is insufficient. METALAIRE series fan-powered terminal units are available with a wide range of control options to suit any application. These include pneumatic, analog electronic, electric, and direct digital control (DDC). With the demands of today's building designs to reduce energy in smaller mechanical spaces, the METALAIRE series fan-powered terminal unit is the perfect choice.

### FEATURES

- FCI-600 is available in 6 casing sizes to handle 200–4400 CFM.
- FCL-600 is available in 2 casing sizes to handle 350–1825 CFM.
- FCQ-700 is available in 6 casing sizes to handle 200–4000 CFM.
- 22 ga. galvanized steel casing, mechanically sealed, low leakage construction.
- Mechanically fastened damper assembly is double layer, 18 gauge equivalent, galvanized steel with integral blade seal. (<1% at 3.0" wg static pressure).
- Factory calibrated controls per each job requirement.
- METALAIRE multi-quadrant averaging flow sensor provides highly accurate +/- 5% flow readings after certified balancer has balanced terminal.
- Easy access external balancing taps.
- Energy efficient PSC motors with adjustable SCR solid state fan speed controllers are standard.
- Optional highly efficient Electronically Commutated Motors (ECM).
- External control cabinet with offset mounting plate as standard.
- Single point electrical connections.
- For added rigidity, the primary inlet incorporates 3 strengthening beads which also provide a stop for field attached flex duct, forms the seal where primary duct enters the casing and serves as the sealing surface for the damper assembly in closed position.
- Round inlets available in sizes 6" through 16".
- 1" thick, dual density (1.5lb / ft<sup>3</sup> min.) fiberglass insulation with edges coated. Meets NFPA 90A and UL 181. (1/2" thick insulation standard on FCL-600).
- Flanged discharge with optional slip and drive cleat duct connection.
- Removable bottom access panel provides complete access to motor / blower.
- Independently tested and certified laboratory performance data.
- Full range of options and accessories available (heating coils, disconnects, attenuators, etc.).
- Full range of liners / insulation available.



Intertek



## FCI-600 CONSTANT VOLUME FAN TERMINAL UNIT

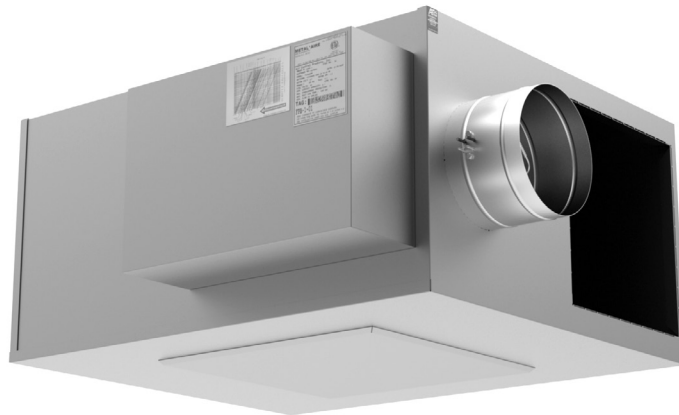
### SPECIFIABLE FEATURES

- Galvanized steel casing, mechanically sealed for low leakage construction
- NEMA TYPE 1 rated hinged control enclosure with standoff to prevent penetration of casing
- Single speed high efficiency PSC motor with SCR motor speed control
- Butt welded round primary inlet duct to minimize leakage
- Damper constructed of double layer 18 gauge equivalent with integral blade seal
- Metal construction inlet flow sensor with extra balancing taps

### INDEX OF SECTIONS

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## FCI-600 CONSTANT VOLUME FAN TERMINAL UNIT

The METALAIRE FCI series fan-powered terminal unit has been engineered to provide a balance between quiet operation, minimal footprint, and a broad flow range.

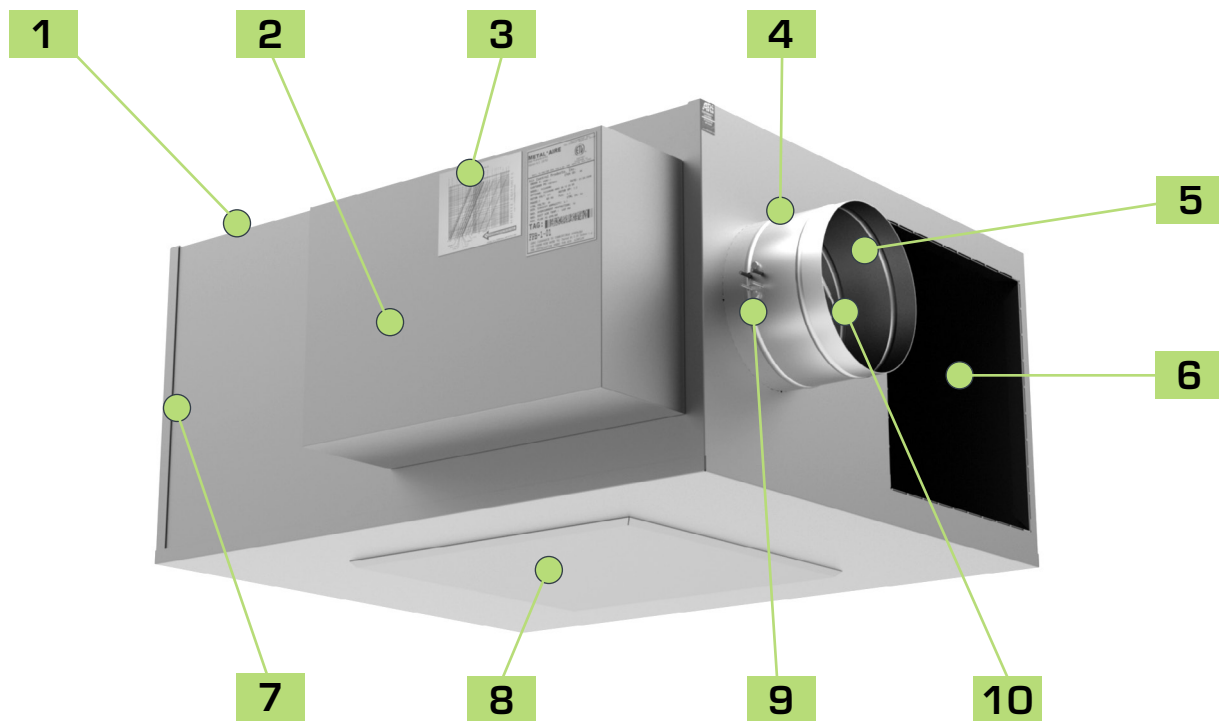
The FCI is constructed from 22 gauge metal designed to mitigate vibration and increase rigidity. The unique 4-piece case allows for fewer seams to minimize leakage. Every FCI includes bottom motor/blower access panel: These simple-to-remove panels provide access to allow trouble-free maintenance of the fan motor and blower assembly. The control enclosure for the FCI allows critical component access.

FCI units include 1" thick, matte-faced fiberglass insulation that complies with UL 181 horizontal burn test, NFPA 90A and UL 723/ASTM E 84 flame spread and smoke developed ratings of 25/50. Optional insulations include metal-foil-faced and fiber- and erosion-free ThermoPure (closed-cell foam), a polyolefin product with superior acoustical properties compared to solid metal duct liner.

Optional electronically commutated motors (ECM) are available to minimize energy usage. Up to 75% energy savings is typical with the ECM option.

### STANDARD FEATURES

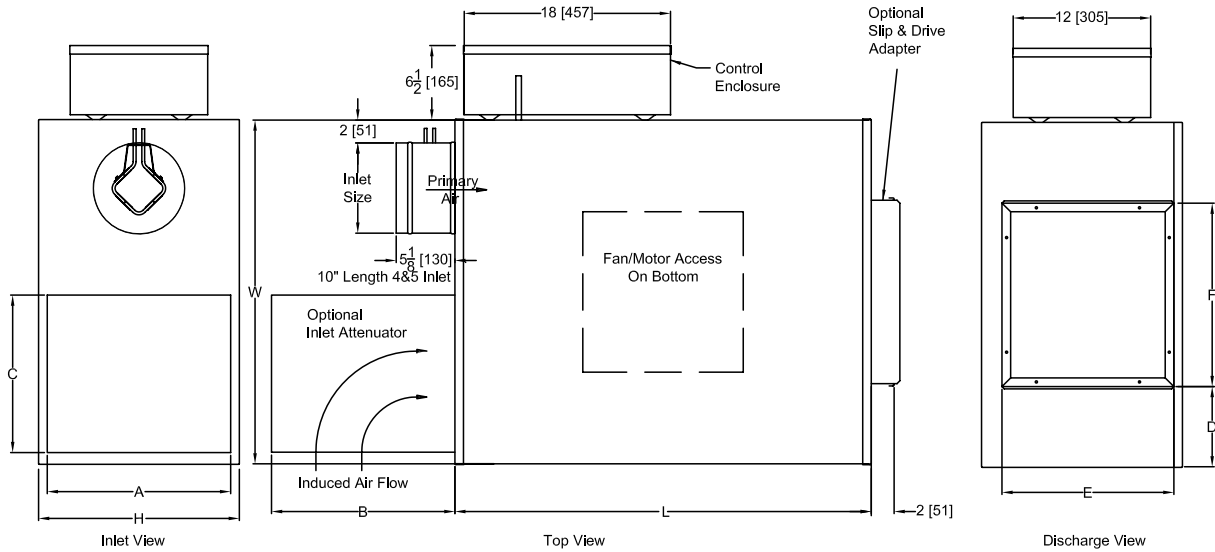
- Available in 6 casing sizes to handle 200–4400 CFM.
- 22 ga. galvanized steel casing.
- Low leakage construction.
- Low leakage inlet damper (< 1% at 3" static pressure).
- Optional factory calibrated controls per each job requirement.
- Metalaire inlet flow sensor provides +/- 5% accuracy even with 90 degree elbow at inlet.
- Easy access, steel balancing taps.
- Energy efficient PSC motors with adjustable SCR solid state fan speed controller.
- External control cabinet with offset mounting plate.
- Single point electrical connections.
- Beaded primary inlet connection tube for added rigidity and secure flex duct connections.
- Round inlets available in sizes 6" through 16".
- 1" thick, dual density (1.5lb / ft<sup>3</sup> min.) fiberglass insulation with edges coated.
- Rectangular discharge with optional slip and drive cleat duct connection.
- Large removable bottom access panel provides access to fan motor / blower assembly.
- Independently tested and certified laboratory performance data.
- Full range of options and accessories available (heating coils, disconnects, attenuators, etc.).
- Full range of liners / insulation available.
- Auto and manual thermal resets on every electric heater.
- High efficiency six-pole, single speed permanent split capacitor (PSC) motors.
- Available fan motor voltages of 120, 277, and 208-240 (50 / 60 Hz).



## FCI-600 CONSTANT VOLUME FAN TERMINAL UNIT

- 1** Galvanized steel casing, mechanically sealed for low leakage construction.
- 2** NEMA TYPE 1 rated hinged control enclosure with standoff to prevent penetration of casing.
- 3** Single speed high efficiency PSC motor with SCR motor speed control.
- 4** Continuous welded primary inlet duct to minimize leakage with 3 stiffening beads for added rigidity.
- 5** Damper construction of double layer 18 gauge equivalent with integral blade seal.
- 6** Field adjustable baffles, top and bottom, for balancing.
- 7** Discharge panel is manufactured with 18 gauge galvanized steel to mitigate vibration.
- 8** Bottom access panel provided for easy motor / blower servicing.
- 9** Metal constructed inlet flow sensor with extra balancing taps.
- 10** Damper assembly rotates in long life, low friction, self lubricating thermoplastic bearing.

## FCI-600 SERIES FAN POWERED AIR TERMINAL UNIT COOLING ONLY



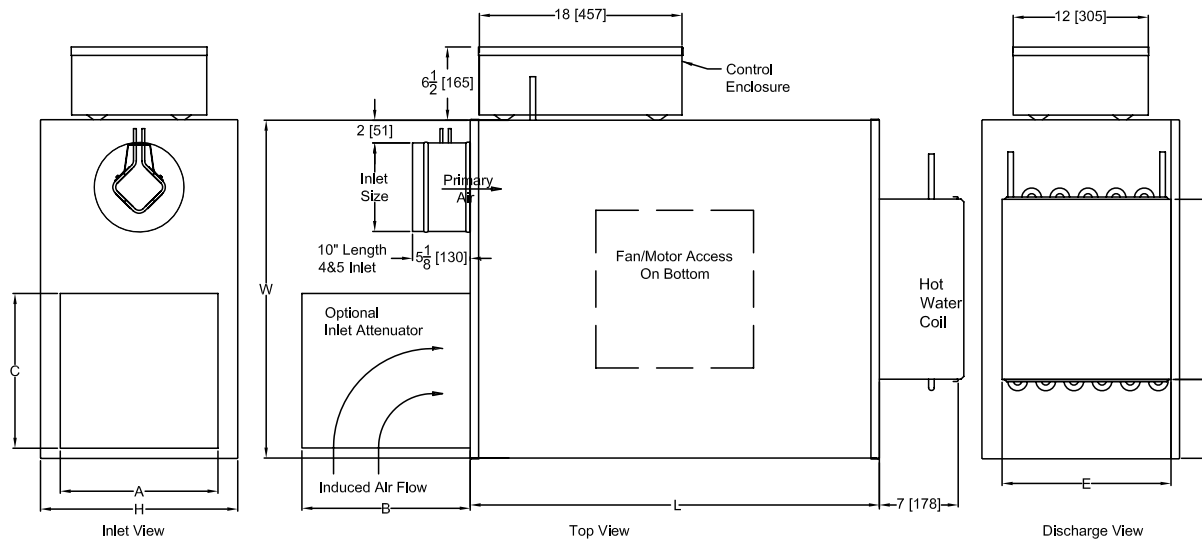
The standard location for control enclosure is Left Hand on Model FCI.  
Looking in the direction of airflow, the control enclosure is on the left.

Case size	Inlet Size		Horse-power	Unit Dimensions			Induction Attenuator			Discharge		
	Standard	Optional		Height H	Width W	Length L	Height A	Width B	Length C	Loc. D	Height E	Width F
2	8 (203)	4,5,6,10,12	1/8	17 1/2 (445)	30 (718)	36 (914)	16 (406)	16 (406)	15 (381)	7 (178)	15 (381)	16 (406)
3	10 (254)	4,5,6,8,12,14	1/8	17 1/2 (445)	36 (914)	40 (1016)	16 (406)	20 (508)	19 (483)	8 (203)	17 1/2 (445)	20 (508)
4	12 (305)	8,10,14	1/4	17 1/2 (445)	36 (914)	40 (1016)	16 (406)	20 (508)	19 (483)	8 (203)	17 1/2 (445)	20 (508)
5	14 (356)	10,12,16	1/3	20 (508)	40 (1016)	40 (1016)	20 (508)	20 (508)	19 (483)	10 (254)	17 1/2 (445)	20 (508)
6	16 (406)	10,12,14	1	20 (508)	42 (1067)	42 (1067)	20 (508)	24 (610)	23 (584)	10 (254)	18 (457)	22 (559)
7	18x16 (457x406)	12,14,16	3/4 (2)	20 (508)	46 (1168)	46 (1168)	20 (508)	24 (610)	23 (584)	4 (102)	20 (508)	38 (965)

All filter sizes are equal to induction attenuator dimensions A & B.  
Field connected induction duct dimensions should equal A-2" & B-2" with a 1" flange.  
All dimensions are in inches; parentheses ( ) indicate millimeters.



## FCI-600 SERIES FAN POWERED AIR TERMINAL UNIT WITH HOT WATER COIL

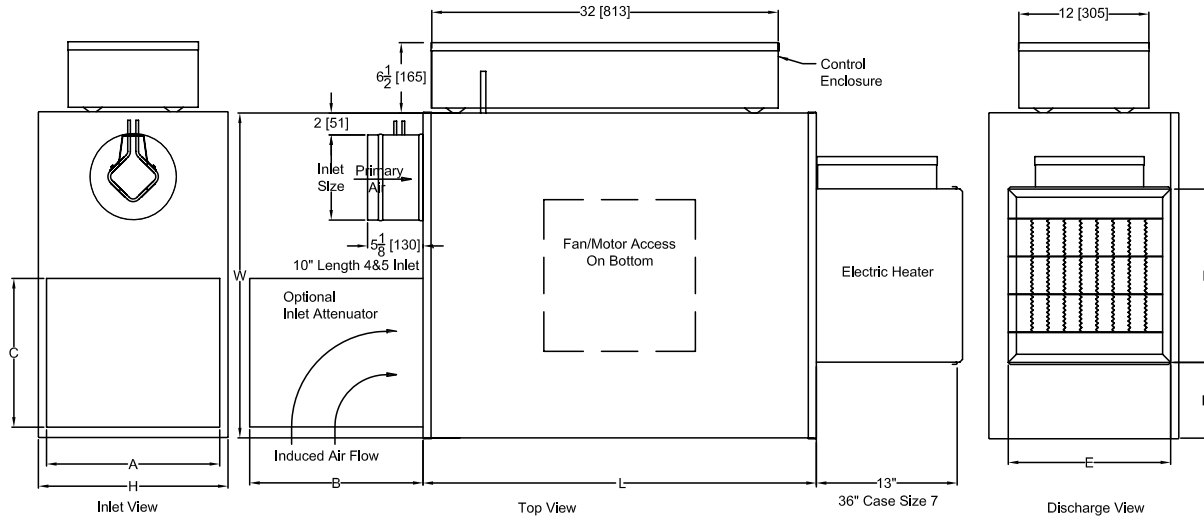


The standard location for control enclosure is Left Hand on Model FCI.  
Looking in the direction of airflow, the control enclosure is on the left.

Case size	Inlet Size		Horsepower	Unit Dimensions			Induction Attenuator			Discharge		
	Standard	Optional		Height H	Width W	Length L	Height A	Width B	Length C	Loc. D	Height E	Width F
2	8 (203)	4,5,6,10,12	1/8	17 1/2 (445)	30 (718)	36 (914)	16 (406)	16 (406)	15 (381)	7 (178)	15 (381)	16 (406)
3	10 (254)	4,5,6,8,12,14	1/8	17 1/2 (445)	36 (914)	40 (1016)	16 (406)	20 (508)	19 (483)	8 (203)	17 1/2 (445)	20 (508)
4	12 (305)	8,10,14	1/4	17 1/2 (445)	36 (914)	40 (1016)	16 (406)	20 (508)	19 (483)	8 (203)	17 1/2 (445)	20 (508)
5	14 (356)	10,12,16	1/3	20 (508)	40 (1016)	40 (1016)	20 (508)	20 (508)	19 (483)	10 (254)	17 1/2 (445)	20 (508)
6	16 (406)	10,12,14	1	20 (508)	42 (1067)	42 (1067)	20 (508)	24 (610)	23 (584)	10 (254)	18 (457)	22 (559)
7	18x16 (457x406)	12,14,16	3/4 (2)	20 (508)	46 (1168)	46 (1168)	20 (508)	24 (610)	23 (584)	4 (102)	20 (508)	38 (965)

All filter sizes are equal to induction attenuator dimensions A & B.  
Field connected induction duct dimensions should equal A-2" & B-2" with a 1" flange.  
All dimensions are in inches; parentheses ( ) indicate millimeters.

## FCI-600 SERIES FAN POWERED AIR TERMINAL UNIT WITH ELECTRIC HEAT



The standard location for control enclosure is Left Hand on Model FCI.  
Looking in the direction of airflow, the control enclosure is on the left.

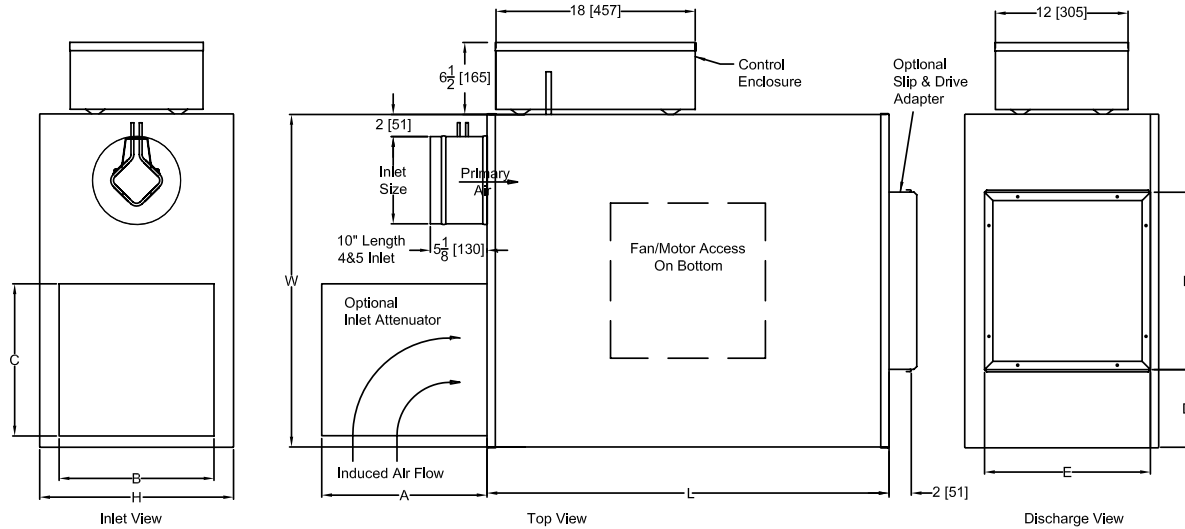
Case size	Inlet Size		Horse-power	Unit Dimensions			Induction Attenuator			Discharge		
	Standard	Optional		Height H	Width W	Length L	Height A	Width B	Length C	Loc. D	Height E	Width F
2	8 (203)	4,5,6,10,12	1/8	17 1/2 (445)	30 (718)	36 (914)	16 (406)	16 (406)	15 (381)	3 1/4 (83)	15 (381)	16 (406)
3	10 (254)	4,5,6,8,12,14	1/8	17 1/2 (445)	36 (914)	40 (1016)	16 (406)	20 (508)	19 (483)	9 1/2 (241)	15 (381)	16 (508)
4	12 (305)	8,10,14	1/4	17 1/2 (445)	36 (914)	40 (1016)	16 (406)	20 (508)	19 (483)	4 3/4 (121)	17 1/2 (445)	20 (508)
5	14 (356)	10,12,16	1/3	20 (508)	40 (1016)	40 (1016)	20 (508)	20 (508)	19 (483)	7 1/2 (190)	17 1/2 (445)	20 (508)
6	16 (406)	10,12,14	1	20 (508)	42 (1067)	42 (1067)	20 (508)	24 (610)	23 (584)	8 (203)	17 1/2 (445)	20 (508)
7	18x16 (457x406)	12,14,16	3/4 (2)	20 (508)	46 (1168)	46 (1168)	20 (508)	24 (610)	23 (584)	4 (102)	20 (508)	38 (965)

All filter sizes are equal to induction attenuator dimensions A & B.

Field connected induction duct dimensions should equal A-2" & B-2" with a 1" flange.

All dimensions are in inches; parentheses ( ) indicate millimeters.

## FCI-600 ECM SERIES FAN POWERED AIR TERMINAL UNIT COOLING ONLY



The standard location for control enclosure is Left Hand on Model FCI.  
Looking in the direction of airflow, the control enclosure is on the left.

Case size	Inlet Size		Horse-power	Unit Dimensions			Induction Attenuator			Discharge		
	Standard	Optional		Height H	Width W	Length L	Height A	Width B	Length C	Loc. D	Height E	Width F
2	8 (203)	4,5,6,10,12	1/2	17 1/2 (445)	30 (718)	36 (914)	16 (406)	16 (406)	15 (381)	7 (178)	15 (381)	16 (406)
4	12 (305)	8,10,14	1/2	17 1/2 (445)	36 (914)	40 (1016)	16 (406)	20 (508)	19 (483)	8 (203)	17 1/2 (445)	20 (508)
6	16 (406)	10,12,14	1	20 (508)	42 (1067)	42 (1067)	20 (508)	24 (610)	23 (584)	10 (254)	18 (457)	22 (559)

All filter sizes are equal to induction attenuator dimensions A & B.

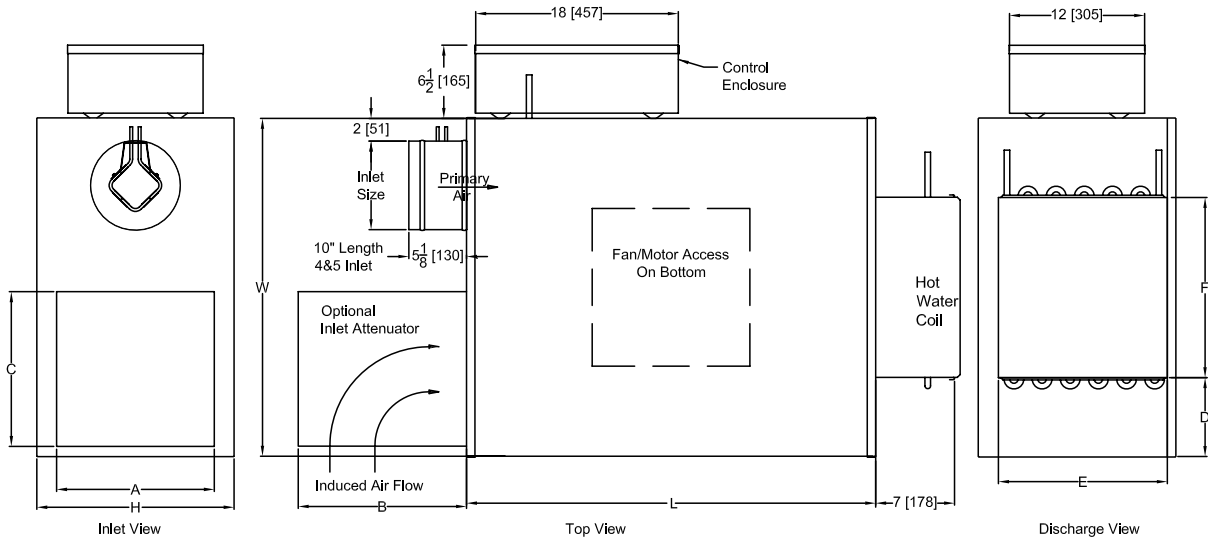
Field connected induction duct dimensions should equal A-2" & B-2" with a 1" flange.

All dimensions are in inches; parentheses ( ) indicate millimeters.

## FCI-600 ECM SERIES FAN POWERED AIR TERMINAL UNIT WITH HOT WATER COIL

SERIES  
FAN POWERED

FCI-600 CONSTANT VOLUME



The standard location for control enclosure is Left Hand on Model FCI.  
Looking in the direction of airflow, the control enclosure is on the left.

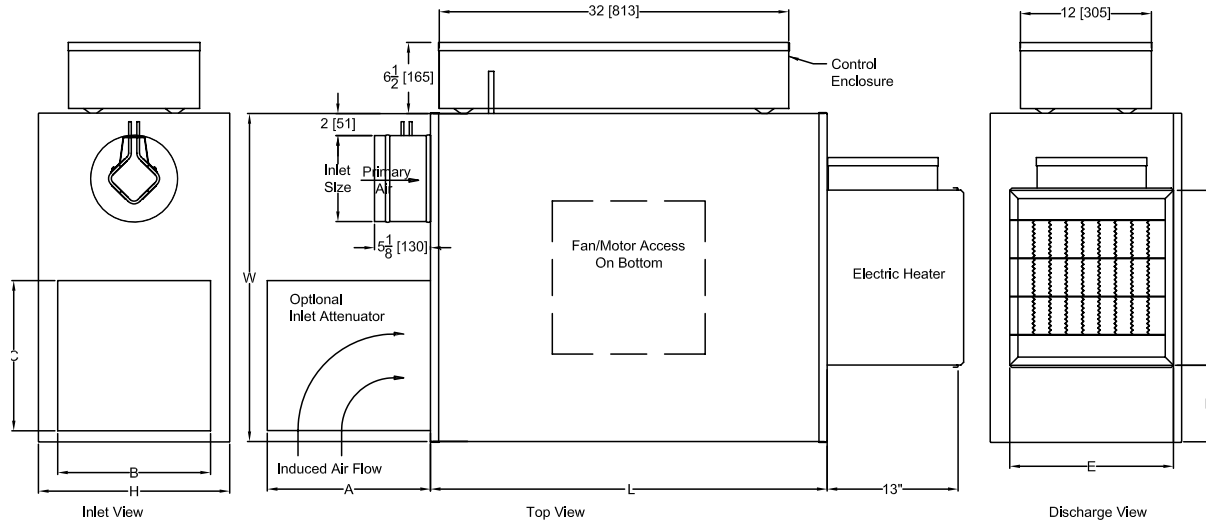
Case size	Inlet Size		Horse-power	Unit Dimensions			Induction Attenuator			Discharge		
	Standard	Optional		Height H	Width W	Length L	Height A	Width B	Length C	Loc. D	Height E	Width F
2	8 (203)	4,5,6,10,12	1/2	17 1/2 (445)	30 (718)	36 (914)	16 (406)	16 (406)	15 (381)	7 (178)	15 (381)	16 (406)
4	12 (305)	8,10,14	1/2	17 1/2 (445)	36 (914)	40 (1016)	16 (406)	20 (508)	19 (483)	8 (203)	17 1/2 (445)	20 (508)
6	16 (406)	10,12,14	1	20 (508)	42 (1067)	42 (1067)	20 (508)	24 (610)	23 (584)	10 (254)	18 (457)	22 (559)

All filter sizes are equal to induction attenuator dimensions A & B.

Field connected induction duct dimensions should equal A-2" & B-2" with a 1" flange.

All dimensions are in inches; parentheses ( ) indicate millimeters.

## FCI-600 ECM SERIES FAN POWERED AIR TERMINAL UNIT WITH ELECTRIC HEAT



The standard location for control enclosure is Left Hand on Model FCI.  
Looking in the direction of airflow, the control enclosure is on the left.

Case size	Inlet Size		Horse-power	Unit Dimensions			Induction Attenuator			Discharge		
	Standard	Optional		Height H	Width W	Length L	Height A	Width B	Length C	Loc. D	Height E	Width F
2	8 (203)	4,5,6,10,12	1/2	17 1/2 (445)	30 (718)	36 (914)	16 (406)	16 (406)	15 (381)	3 1/4 (83)	15 (381)	16 (406)
4	12 (305)	8,10,14	1/2	17 1/2 (445)	36 (914)	40 (1016)	16 (406)	20 (508)	19 (483)	4 3/4 (121)	17 1/2 (445)	20 (508)
6	16 (406)	10,12,14	1	20 (508)	42 (1067)	42 (1067)	20 (508)	24 (610)	23 (584)	8 (203)	17 1/2 (445)	20 (508)

All filter sizes are equal to induction attenuator dimensions A & B.

Field connected induction duct dimensions should equal A-2" & B-2" with a 1" flange.

All dimensions are in inches; parentheses ( ) indicate millimeters.

## FCI-600 AHRI CERTIFIED RATING POINTS

AHRI Certified Radiated Sound Power, Fan Only

Unit Size	Fan CFM	Octave Band						Electrical Power (Watts)
		2	3	4	5	6	7	
208	400	57	51	50	33	33	29	155
310	700	58	55	46	39	37	37	230
412	1200	65	64	50	47	45	42	430
514	1800	67	67	56	51	50	48	770
616	2400	67	67	56	51	50	48	1350
718	2700	74	66	60	54	54	53	1700

AHRI Certified Radiated Sound Power, Inlet Ps = 1.5 in. wg Static Pressure

Unit Size	Fan CFM	Primary CFM	Min Ps	Octave Band					
				2	3	4	5	6	7
208	400	400	0.03	57	56	52	42	44	44
310	700	700	0.03	62	59	52	45	45	46
412	1200	1200	0.01	67	65	52	50	50	46
514	1800	1800	0.02	72	71	61	56	54	51
616	2400	2400	0.01	73	71	65	58	56	54
718	2700	2700	0.09	77	72	66	57	56	55

AHRI Certified Discharge Sound Power, Fan Only

Unit Size	Fan CFM	Octave Band						Electrical Power (Watts)
		2	3	4	5	6	7	
208	400	54	57	58	50	49	45	155
310	700	58	60	61	59	56	54	230
412	1200	62	68	65	64	64	63	430
514	1800	69	68	72	70	67	66	770
616	2400	73	73	75	74	74	74	1350
718	2700	79	71	70	69	68	67	1700

### CERTIFICATIONS AND STANDARDS

- Units tested per ANSI / ASHRAE Standard 130.
- All model sizes certified in accordance with AHRI 880 certification program.
- ETL listed to meet requirements of UL 1995 and CSA 236.
- Dual-density fiberglass insulation meets UL 181 and NFPA 90A requirements.
- Insulation meets ASHRAE 62.1 requirements for resistance to mold growth and erosion.



## FCI-600

### RADIATED SOUND POWER LEVEL at Fan Only, Inlet Ps = 0.50 and 0.75 in. wg

Case	Inlet	CFM (L/s)	Min Ps in. wg (Pa)	Fan Only								Inlet Ps = 0.50 in. wg (125 Pa)								Inlet Ps = 0.75 in. wg (187 Pa)										
				Octave Band Sound Power, Lw, dB							NC	SA	Octave Band Sound Power, Lw, dB							NC	SA	Octave Band Sound Power, Lw, dB							NC	SA
				2	3	4	5	6	7	NC			2	3	4	5	6	7	NC			2	3	4	5	6	7	NC		
2	8	200 (94)	0.007 (1.6)	53	49	47	28	27	22	21	<15	53	50	48	31	30	26	22	15	53	51	48	35	33	30	22	15			
		300 (142)	0.017 (4.2)	55	50	49	31	30	26	23	17	55	52	49	33	33	29	23	17	55	53	50	37	36	33	24	18			
		400 (189)	0.031 (7.7)	57	51	50	33	33	29	24	18	57	52	51	35	36	33	25	19	57	54	51	38	39	37	25	19			
		500 (236)	0.045 (11.2)	58	52	51	34	34	30	25	19	58	53	51	36	37	34	25	19	58	55	52	38	39	38	26	20			
		600 (283)	0.076 (18.9)	60	53	52	35	35	31	26	21	60	54	52	37	37	35	26	21	60	56	53	39	40	39	27	21			
		750 (354)	0.110 (27.4)	62	55	53	36	36	33	27	23	62	56	54	38	39	37	29	23	62	58	54	41	42	41	29	23			
3	10	300 (142)	0.006 (1.4)	56	52	43	35	32	32	20	16	56	53	44	38	36	35	21	16	57	53	45	40	38	37	21	17			
		400 (189)	0.010 (2.6)	56	53	43	36	34	33	21	16	57	54	45	39	37	36	22	18	58	54	46	41	39	38	22	18			
		500 (236)	0.016 (4.0)	57	53	44	37	35	34	21	17	58	55	46	40	37	37	24	19	58	55	47	42	40	39	24	19			
		600 (283)	0.023 (5.8)	57	54	45	38	36	36	22	18	58	55	47	41	38	38	24	19	59	56	48	43	41	40	25	20			
		700 (330)	0.032 (7.9)	58	55	46	39	37	37	24	19	59	56	47	41	39	39	25	20	60	57	48	44	42	41	26	21			
		800 (378)	0.041 (10.3)	60	57	46	41	40	40	26	21	60	58	48	43	41	42	27	22	62	59	49	46	44	44	28	24			
		900 (425)	0.052 (13.0)	61	58	47	43	42	42	27	22	62	59	49	45	43	44	28	24	63	61	50	47	45	46	31	26			
4	12	400 (189)	0.001 (0.2)	56	54	45	39	36	31	22	18	58	56	46	41	38	33	25	20	60	58	47	43	39	35	27	22			
		600 (283)	0.002 (0.4)	57	55	45	39	36	31	24	19	59	57	46	41	38	33	26	21	61	59	47	43	39	35	28	24			
		800 (378)	0.002 (0.4)	58	56	46	40	38	33	25	20	60	58	47	42	40	35	27	22	62	60	48	44	41	37	29	25			
		1000 (472)	0.004 (0.9)	61	60	48	44	42	38	29	25	61	60	49	46	44	40	29	25	63	62	50	47	45	42	32	27			
		1200 (566)	0.010 (2.5)	65	64	50	47	45	42	34	29	65	64	51	49	47	44	34	29	66	64	52	50	48	46	34	29			
		1400 (661)	0.016 (4.1)	65	65	53	50	49	46	35	31	65	65	53	52	51	48	35	31	66	66	53	52	50	50	37	32			
		1600 (755)	0.026 (6.6)	66	66	57	52	52	48	37	32	67	67	57	54	54	50	38	33	69	69	57	54	55	52	40	35			
5	14	1000 (472)	0.006 (1.5)	63	60	50	43	42	37	29	25	65	61	51	45	42	38	31	27	66	62	52	47	44	39	32	29			
		1200 (566)	0.009 (2.2)	65	61	52	45	44	40	31	27	67	63	52	47	44	40	33	30	68	64	53	48	46	42	34	31			
		1400 (661)	0.012 (3.0)	66	64	53	48	47	43	34	29	68	65	54	49	47	44	35	31	70	66	55	50	49	45	37	34			
		1600 (755)	0.016 (3.9)	67	66	54	50	50	47	37	32	69	68	55	51	50	47	39	34	71	68	56	52	51	47	39	35			
		1800 (849)	0.020 (5.0)	67	67	56	51	50	48	38	33	69	70	57	53	52	50	41	37	71	71	58	54	53	50	42	38			
		2000 (944)	0.025 (6.1)	69	70	57	54	54	52	41	37	70	72	59	55	54	52	44	39	72	73	60	56	55	52	45	40			
6	16	1600 (755)	0.003 (0.7)	60	60	53	45	42	41	29	25	63	62	56	48	45	43	32	27	64	63	58	49	46	44	33	28			
		1800 (849)	0.005 (1.2)	62	62	53	48	44	43	32	27	65	64	57	50	46	45	34	29	66	65	58	51	47	46	35	31			
		2000 (944)	0.007 (1.7)	64	64	54	49	46	44	34	29	66	66	57	51	48	46	37	32	67	66	59	52	49	47	37	32			
		2200 (1038)	0.008 (2.0)	65	65	55	49	48	46	35	31	68	67	58	52	50	48	38	33	69	68	60	53	51	49	39	34			
		2400 (1133)	0.010 (2.5)	67	67	56	51	50	48	38	33	69	69	59	54	52	50	40	35	70	69	61	55	53	51	40	35			
		2600 (1227)	0.011 (2.7)	69	69	57	55	53	51	40	35	71	70	60	56	55	53	41	37	72	71	62	57	55	53	42	38			
		2800 (1321)	0.012 (3.0)	72	72	58	59	56	54	44	39	74	73	62	59	57	55	45	40	74	73	63	59	57	55	45	40			
7	18 x 16	2200 (1038)	0.068 (17.0)	69	62	57	52	52	51	34	32	70	63	58	53	52	52	35	34	72	64	59	53	53	53	38	36			
		2500 (1180)	0.082 (20.5)	71	64	59	54	54	52	36	35	72	65	60	55	54	53	38	36	74	66	61	55	55	54	40	39			
		2700 (1274)	0.091 (22.8)	74	66	60	54	54	53	40	39	75	68	62	55	55	54	41	40	76	69	63	56	55	54	43	41			
		3000 (1416)	0.105 (26.1)	75	67	61	55	55	54	41	40	76	69	63	56	56	55	43	41	77	70	64	57	56	55	44	43			
		4000 (1888)	0.151 (37.6)	78	71	65	59	60	57	45	44	79	72	66	59	60	57	46	45	79	73	67	60	60	58	46	45			
		4400 (2076)	0.163 (40.5)	79	72	66	61	62	59	46	45	80	73	67	62	63	60	48	46	80	74	68	63	64	62	48	46			

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2. Performance data not contained within a bold border outline are application ratings. Application ratings are outside the scope of the Certification Program.
3. Performance data is obtained from laboratory testing in accordance with AHRI 880-2011 and ANSI / ASHRAE 130-2008.
4. NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
5. Air terminal units were tested with an external static pressure of 0.25 in. wg.
6. Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref: 10<sup>-12</sup> watts).
7. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate, and the fan is on.

## FCI-600

### RADIATED SOUND POWER LEVEL at Inlet Ps = 1.0, 1.5 and 2.0 in. wg

SERIES  
FAN POWERED

FCI-600 CONSTANT VOLUME

Case	Inlet	CFM (L/s)	Min Ps in. wg (Pa)	Inlet Ps = 1.0 in. wg (250 Pa)								Inlet Ps = 1.5 in. wg (375 Pa)								Inlet Ps = 2.0 in. wg (500 Pa)							
				Octave Band Sound Power, Lw, dB							NC w/ SA	Octave Band Sound Power, Lw, dB							NC w/ SA	Octave Band Sound Power, Lw, dB							NC w/ SA
				2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
2	8	200 (94)	0.007 (1.6)	53	52	49	35	35	34	23	17	53	54	49	38	38	37	23	18	55	56	50	42	40	39	25	20
		300 (142)	0.017 (4.2)	55	54	50	38	38	37	24	18	55	55	51	40	41	41	25	19	57	57	52	43	43	43	26	21
		400 (189)	0.031 (7.7)	57	55	52	40	41	40	26	20	57	56	52	42	44	44	26	20	59	58	53	44	46	46	27	22
		500 (236)	0.045 (11.2)	58	56	52	41	42	41	26	20	58	57	53	43	45	45	27	21	60	59	54	45	47	47	29	24
		600 (283)	0.076 (18.9)	60	57	53	41	43	42	27	21	60	58	54	44	46	46	29	22	62	60	55	46	48	48	30	25
		750 (354)	0.110 (27.4)	62	59	55	43	44	44	30	24	62	60	55	45	47	48	30	25	64	62	56	47	49	50	32	27
3	10	300 (142)	0.006 (1.4)	57	53	47	41	40	38	21	17	57	53	49	42	42	43	23	17	57	53	51	44	45	46	25	19
		400 (189)	0.010 (2.6)	58	54	47	42	41	39	22	18	58	54	50	43	43	43	24	18	58	55	51	45	46	47	25	19
		500 (236)	0.016 (4.0)	59	55	48	43	42	41	24	20	60	56	50	43	43	44	25	21	60	56	52	46	46	48	26	21
		600 (283)	0.023 (5.8)	60	56	48	44	43	42	25	21	61	57	51	44	44	45	26	22	61	58	53	47	47	48	27	22
		700 (330)	0.032 (7.9)	61	57	49	45	44	43	26	22	62	59	52	45	45	46	28	24	63	60	54	47	48	49	29	25
		800 (378)	0.041 (10.3)	62	60	50	47	45	45	29	25	64	61	53	47	46	47	31	26	64	62	55	48	48	50	32	27
		900 (425)	0.052 (13.0)	64	61	51	49	47	47	31	26	65	62	54	49	48	49	32	27	66	63	56	49	50	51	33	29
4	12	400 (189)	0.001 (0.3)	62	59	49	43	40	35	28	24	63	60	50	46	41	35	29	25	64	61	53	48	43	39	31	26
		600 (283)	0.002 (0.6)	63	60	49	43	40	35	29	25	64	61	50	46	41	35	31	26	65	62	53	48	43	39	32	27
		800 (378)	0.002 (1.2)	64	61	50	44	42	37	31	26	65	62	51	47	43	37	32	27	66	63	54	49	45	41	33	29
		1000 (472)	0.004 (2.0)	65	63	51	47	46	42	33	28	66	64	52	49	47	42	34	29	67	65	54	51	49	46	35	31
		1200 (566)	0.010 (3.5)	66	64	52	50	49	46	34	29	67	65	52	50	50	46	35	31	68	66	55	52	52	50	37	32
		1400 (661)	0.016 (5.7)	68	67	53	52	53	50	38	33	69	68	54	52	54	50	39	34	70	69	57	54	56	54	40	35
		1600 (755)	0.026 (9.2)	71	70	58	54	56	52	41	37	72	71	58	54	57	52	42	38	73	72	59	55	59	56	44	39
5	14	1000 (472)	0.006 (7.2)	67	62	54	48	45	40	32	30	67	62	55	49	45	40	32	30	67	62	56	50	45	40	32	30
		1200 (566)	0.009 (10.3)	69	64	55	49	47	43	34	32	69	64	56	50	47	43	34	32	69	64	57	51	47	43	34	32
		1400 (661)	0.012 (14.0)	71	66	57	51	50	46	37	35	71	66	58	52	50	46	37	35	71	66	59	53	50	46	37	35
		1600 (755)	0.016 (18.3)	72	68	58	53	52	48	39	36	72	68	59	54	52	48	39	36	72	68	60	55	52	48	39	36
		1800 (849)	0.020 (23.2)	72	71	60	55	54	51	42	38	72	71	61	56	54	51	42	38	72	71	62	57	54	51	42	38
		2000 (944)	0.025 (28.6)	73	73	62	57	56	53	45	40	73	73	63	58	56	53	45	40	73	73	64	59	56	53	45	40
6	16	1600 (755)	0.003 (7.5)	66	64	60	51	47	46	35	29	68	65	62	53	49	47	37	31	69	66	62	53	50	48	37	32
		1800 (849)	0.005 (9.7)	67	66	61	52	49	48	37	32	69	67	63	53	50	49	38	33	70	68	64	54	51	50	39	34
		2000 (944)	0.007 (11.9)	69	67	61	53	51	49	38	33	70	68	63	54	52	50	39	34	71	69	64	55	53	51	40	35
		2200 (1038)	0.008 (14.4)	70	69	62	54	53	51	40	35	72	70	64	56	54	52	41	37	73	71	65	57	54	53	42	38
		2400 (1133)	0.010 (17.2)	72	70	63	56	55	53	41	37	73	71	65	58	56	54	42	38	74	71	66	59	57	55	42	39
		2600 (1227)	0.011 (20.2)	74	71	64	57	56	54	42	39	75	72	66	58	57	55	44	40	76	72	66	59	57	56	44	41
		2800 (1321)	0.012 (23.8)	75	74	66	59	58	56	46	41	76	74	68	59	58	56	46	41	77	75	68	60	59	57	47	33
7	18 x 16	2200 (1038)	0.068 (17.0)	73	65	60	54	53	54	39	38	74	67	61	54	53	54	40	39	76	69	65	55	54	54	42	41
		2500 (1180)	0.082 (20.5)	75	67	62	56	55	55	41	40	76	69	63	56	55	55	43	41	78	71	67	57	56	55	45	44
		2700 (1274)	0.091 (22.8)	77	71	65	57	56	55	44	43	77	72	66	57	56	55	44	43	79	72	68	58	57	56	46	45
		3000 (1416)	0.105 (26.1)	78	72	66	58	57	56	45	44	78	73	67	58	57	56	45	44	81	74	70	60	59	58	49	48
		4000 (1888)	0.151 (37.6)	80	74	68	60	60	58	48	46	80	75	69	60	61	58	48	46	85	78	74	64	63	62	54	53
		4400 (2076)	0.163 (40.5)	81	75	69	64	65	63	49	48	81	76	70	65	65	64	49	48	86	79	76	67	66	66	55	54

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3. Performance data is obtained from laboratory testing in accordance with AHRI 880-2011 and ANSI / ASHRAE 130-2008.
4. NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
5. Air terminal units were tested with an external static pressure of 0.25 in. wg.
6. Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref: 10<sup>-12</sup> watts).
7. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate, and the fan is on.



## FCI-600

### RADIATED SOUND POWER LEVEL at Fan Only, Inlet Ps = 0.50 and 0.75 in. wg

Case	Inlet	CFM (L/s)		Min Ps in. wg (Pa)		Fan Only							Inlet Ps = 0.50 in. wg (125 Pa)							Inlet Ps = 0.75 in. wg (187 Pa)									
						Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
						2	3	4	5	6	7	2		3	4	5	6	7	2	3		4	5	6	7				
2	8	200	(94)	0.007	(1.6)	54	57	55	45	43	38	15	54	57	55	46	43	38	15	55	58	56	47	44	39	16			
		300	(142)	0.017	(4.2)	56	58	57	48	46	42	15	56	58	57	48	46	42	15	57	59	58	49	47	43	16			
		400	(189)	<b>0.031</b>	<b>(7.7)</b>	58	59	58	50	49	45	16	58	59	58	50	49	45	16	59	60	59	51	50	46	18			
		500	(236)	0.045	(11.2)	59	60	59	51	50	46	18	59	60	59	51	50	46	18	60	61	60	52	51	47	19			
		600	(283)	0.076	(18.9)	61	61	60	52	51	47	19	61	61	60	52	51	47	19	62	62	61	53	52	48	20			
		750	(354)	0.110	(27.4)	63	63	61	53	52	49	20	63	63	61	53	52	49	20	64	64	62	54	53	50	21			
3	10	300	(142)	0.006	(1.4)	59	57	61	54	50	48	<15	59	57	61	54	50	48	>15	60	58	62	55	51	49	15			
		400	(189)	0.010	(2.6)	60	59	61	56	53	50	16	60	59	61	56	53	50	16	61	60	62	57	54	51	18			
		500	(236)	0.016	(4.0)	61	59	61	57	54	51	16	61	59	61	57	54	51	16	62	60	62	58	55	52	18			
		600	(283)	0.023	(5.8)	61	60	61	58	55	53	18	61	60	61	58	55	53	18	62	61	62	59	56	54	19			
		700	(330)	<b>0.032</b>	<b>(7.9)</b>	62	61	61	59	56	54	19	62	61	61	59	56	54	19	63	62	62	60	57	55	20			
		800	(378)	0.041	(10.3)	64	63	61	61	59	57	21	64	63	61	61	59	57	21	65	64	62	62	60	58	22			
		900	(425)	0.052	(13.0)	65	64	62	63	61	59	23	65	64	62	63	61	59	23	66	65	63	64	62	60	24			
4	12	400	(189)	0.004	(1.1)	61	57	54	53	52	48	<15	61	58	54	53	52	48	15	62	59	55	54	53	49	16			
		600	(283)	0.010	(2.5)	63	59	58	56	55	52	16	63	60	58	56	55	52	18	64	61	59	57	56	53	19			
		800	(378)	0.018	(4.4)	64	63	59	57	57	54	20	64	64	59	57	57	54	21	65	65	60	58	58	55	22			
		1000	(472)	0.028	(6.9)	65	66	61	61	61	59	24	65	67	61	61	61	59	25	66	68	62	62	62	60	26			
		1200	(566)	<b>0.040</b>	<b>(10.0)</b>	66	69	65	64	64	63	27	66	70	65	64	64	63	28	67	71	66	65	65	64	29			
		1400	(661)	0.054	(13.6)	68	70	66	67	68	67	31	68	71	66	67	68	67	31	69	72	67	68	69	68	32			
		1600	(755)	0.071	(17.7)	71	71	70	69	71	69	32	71	72	70	69	71	69	32	72	73	71	70	72	70	33			
5	14	1000	(472)	0.015	(3.8)	69	61	64	61	59	54	20	69	61	64	61	59	54	20	70	62	65	62	60	55	21			
		1200	(566)	0.022	(5.5)	71	63	68	64	61	58	22	71	63	68	64	61	58	22	72	64	69	65	62	59	23			
		1400	(661)	0.030	(7.5)	72	66	69	67	64	61	25	72	66	69	67	64	61	25	73	67	70	68	65	62	26			
		1600	(755)	0.040	(9.8)	73	68	70	69	67	65	29	73	68	70	69	67	65	29	74	69	71	70	68	66	30			
		1800	(849)	<b>0.050</b>	<b>(12.4)</b>	73	69	72	70	67	66	30	73	69	72	70	67	66	30	74	70	73	71	68	67	31			
		2000	(944)	0.062	(15.4)	75	72	73	73	71	70	33	75	72	73	73	71	70	33	76	73	74	74	72	71	34			
6	16	1600	(755)	0.030	(7.5)	67	65	71	66	64	65	29	67	65	71	66	64	65	29	68	66	72	67	65	66	30			
		1800	(849)	0.039	(9.7)	71	69	72	71	68	69	32	71	69	72	71	68	69	32	72	70	73	72	69	70	33			
		2000	(944)	0.048	(11.9)	73	71	73	72	70	70	33	73	71	73	72	70	70	33	74	72	74	73	71	71	34			
		2200	(1038)	0.058	(14.4)	74	72	74	72	72	72	35	74	72	74	72	72	72	35	75	73	75	73	73	73	36			
		2400	(1133)	<b>0.069</b>	<b>(17.2)</b>	76	74	75	74	74	74	37	77	75	75	74	74	74	37	77	75	76	75	75	75	38			
		2600	(1227)	0.081	(20.2)	78	76	76	78	77	77	40	78	76	76	78	77	77	40	79	77	77	79	78	78	41			
		2800	(1321)	0.096	(23.8)	81	79	77	82	80	80	43	81	79	77	82	80	80	43	82	80	78	83	81	81	44			
7	18 x 16	2200	(1038)	0.068	(17.0)	76	68	67	67	66	65	29	76	68	67	67	66	65	29	77	69	68	68	67	66	30			
		2500	(1180)	0.082	(20.5)	78	70	69	69	68	66	31	78	70	69	69	68	66	31	79	71	70	70	69	67	32			
		2700	(1274)	<b>0.091</b>	<b>(22.8)</b>	81	72	70	69	68	67	35	81	72	70	69	68	67	35	82	73	71	70	69	68	36			
		3000	(1416)	0.105	(26.1)	82	73	71	70	69	68	36	82	73	71	70	69	68	36	83	74	72	71	70	69	38			
		4000	(1888)	0.151	(37.6)	85	77	75	74	74	71	40	85	77	75	74	74	71	40	86	78	76	75	75	72	41			
		4400	(2076)	0.163	(40.5)	86	78	76	76	76	73	41	86	78	76	76	76	73	41	87	79	77	77	77	74	43			

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3. Performance data is obtained from laboratory testing in accordance with AHRI 880-2011 and ANSI / ASHRAE 130-2008.
4. NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
5. Air terminal units were tested with an external static pressure of 0.25 in. wg.
6. Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref: 10<sup>-12</sup> watts).
7. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate.

## FCI-600

### DISCHARGE SOUND POWER LEVEL at Inlet Ps = 1.0, 1.5 and 2.0 in. wg

SERIES  
FAN POWERED

FCI-600 CONSTANT VOLUME

Case	Inlet	CFM (L/s)	Min Ps in. wg (Pa)	Inlet Ps = 1.0 in. wg (250 Pa)									Inlet Ps = 1.5 in. wg (375 Pa)							Inlet Ps = 2.0 in. wg (500 Pa)									
				Octave Band Sound Power, Lw, dB									NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
				2	3	4	5	6	7	2	3	4		5	6	7	2	3	4	5		6	7						
<b>2</b>	<b>8</b>	200 (94)	0.007 (1.6)	55	58	56	47	44	39	16	56	59	57	48	45	40	18	56	59	57	49	45	40	18					
		300 (142)	0.017 (4.2)	57	59	58	49	47	43	16	58	60	59	50	48	44	18	58	60	59	51	48	44	18					
		400 (189)	0.031 (7.7)	59	60	59	51	50	46	18	60	61	60	52	51	47	19	60	61	60	52	51	47	19					
		500 (236)	0.045 (11.2)	60	61	60	52	51	47	19	61	62	61	53	52	48	20	61	62	61	53	52	48	20					
		600 (283)	0.076 (18.9)	62	62	61	53	52	48	20	63	63	62	54	53	49	21	63	63	62	54	53	49	21					
		750 (354)	0.110 (27.4)	64	64	62	54	53	50	21	65	65	63	55	54	51	22	65	65	63	55	54	51	22					
<b>3</b>	<b>10</b>	300 (142)	0.006 (1.4)	60	58	62	55	51	49	15	61	59	63	56	52	50	17	61	59	63	56	52	50	17					
		400 (189)	0.010 (2.6)	61	60	62	57	54	51	18	62	61	63	58	55	52	19	62	61	63	58	55	52	19					
		500 (236)	0.016 (4.0)	62	60	62	58	55	52	18	63	61	63	59	56	53	19	63	61	63	59	56	53	19					
		600 (283)	0.023 (5.8)	62	61	62	59	56	54	19	63	62	63	60	57	55	20	63	62	63	60	57	55	20					
		700 (330)	0.032 (7.9)	63	62	62	60	57	55	20	64	63	63	61	58	56	21	64	63	63	61	58	56	21					
		800 (378)	0.041 (10.3)	65	64	62	62	60	58	22	66	65	63	63	61	59	23	66	65	63	63	61	59	23					
		900 (425)	0.052 (13.0)	66	65	63	64	62	60	24	67	66	64	65	63	61	25	67	66	64	65	63	61	25					
<b>4</b>	<b>12</b>	400 (189)	0.004 (0.3)	62	60	55	54	53	49	18	63	61	56	55	54	50	19	63	62	56	55	54	50	20					
		600 (283)	0.010 (0.6)	64	62	59	57	56	53	20	65	63	60	58	57	54	21	65	64	60	58	57	54	22					
		800 (378)	0.018 (1.2)	65	66	60	58	58	55	24	66	67	61	59	59	56	25	66	68	61	59	59	56	26					
		1000 (472)	0.028 (2.0)	66	69	62	62	62	60	27	67	70	63	63	63	61	28	67	71	63	63	63	61	29					
		1200 (566)	0.040 (3.5)	67	72	66	65	65	64	31	68	73	67	66	66	65	32	68	74	67	66	66	65	33					
		1400 (661)	0.054 (5.7)	69	73	67	68	69	68	32	70	74	68	69	70	69	33	70	75	68	69	70	69	34					
		1600 (755)	0.071 (9.2)	72	74	71	70	72	70	33	73	75	72	71	73	71	34	73	76	72	71	73	71	35					
<b>5</b>	<b>14</b>	1000 (472)	0.015 (7.2)	70	62	65	62	60	55	21	71	63	66	63	61	56	22	71	63	66	63	61	56	22					
		1200 (566)	0.022 (10.3)	72	64	69	65	62	59	23	73	65	70	66	63	60	25	73	65	70	66	63	60	25					
		1400 (661)	0.030 (14.0)	73	67	70	68	65	62	26	74	68	71	69	66	63	27	74	68	71	69	66	63	27					
		1600 (755)	0.040 (18.3)	74	69	71	70	68	66	30	75	70	72	71	69	67	31	75	70	72	71	69	67	31					
		1800 (849)	0.050 (23.2)	74	70	73	71	68	67	31	75	71	74	72	69	68	32	75	71	74	72	69	68	32					
		2000 (944)	0.062 (28.6)	76	73	74	74	72	71	34	77	74	75	75	73	72	35	77	74	75	75	73	72	35					
<b>6</b>	<b>16</b>	1600 (755)	0.030 (7.5)	68	66	72	67	65	66	30	69	67	73	68	66	67	31	69	67	73	68	66	67	31					
		1800 (849)	0.039 (9.7)	72	70	73	72	69	70	33	73	71	74	73	70	71	34	73	71	74	73	70	71	34					
		2000 (944)	0.048 (11.9)	74	72	74	73	71	71	34	75	73	75	74	72	72	35	75	73	75	74	72	72	35					
		2200 (1038)	0.058 (14.4)	75	73	75	73	73	73	36	76	74	76	74	74	74	37	76	74	76	74	74	74	37					
		2400 (1133)	0.069 (17.2)	77	75	76	75	75	75	38	78	76	77	76	76	76	39	78	76	77	76	76	76	39					
		2600 (1227)	0.081 (20.2)	79	77	77	79	78	78	41	80	78	78	80	79	79	42	80	78	78	80	79	79	42					
		2800 (1321)	0.096 (23.8)	82	80	78	83	81	81	44	83	81	79	84	82	82	45	83	81	79	84	82	82	45					
<b>7</b>	<b>18 x 16</b>	2200 (1038)	0.068 (17.0)	77	69	68	68	67	66	30	78	70	69	69	68	67	31	78	70	69	69	68	67	31					
		2500 (1180)	0.082 (20.5)	79	71	70	70	69	67	32	80	72	71	71	70	68	34	80	72	71	71	70	68	34					
		2700 (1274)	0.091 (22.8)	82	73	71	70	69	68	36	83	74	72	71	70	69	38	83	74	72	71	70	69	38					
		3000 (1416)	0.105 (26.1)	83	74	72	71	70	69	38	84	75	73	72	71	70	39	84	75	73	72	71	70	39					
		4000 (1888)	0.151 (37.6)	86	78	76	75	75	72	41	87	79	77	76	76	73	43	87	79	77	76	76	73	43					
		4400 (2076)	0.163 (40.5)	87	79	77	77	77	74	43	88	80	78	78	78	75	44	88	80	78	78	78	75	44					

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4. NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
5. Air terminal units were tested with an external static pressure of 0.25 in. wg.
6. Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref. 10<sup>-12</sup> watts).
7. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate, and the fan is on.

## FCI-600 ECM

### RADIATED SOUND POWER LEVEL at Fan Only, Inlet Ps = 0.50 and 0.75 in. wg

Case	Inlet	CFM (L/s)	Min Ps in. wg (Pa)	Fan Only								Inlet Ps = 0.50 in. wg (125 Pa)								Inlet Ps = 0.75 in. wg (187 Pa)							
				Octave Band Sound Power, Lw, dB							NC w/ SA	Octave Band Sound Power, Lw, dB							NC w/ SA	Octave Band Sound Power, Lw, dB							NC w/ SA
				2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
<b>2</b>	<b>8</b>	200 (94)	0.010 (2.5)	51	49	43	33	24	20	17	< 15	54	51	44	36	28	23	19	< 15	55	52	46	39	31	29	20	15
		400 (189)	0.033 (8.2)	52	50	44	35	27	23	18	< 15	55	52	45	38	31	26	20	15	56	53	47	41	34	32	21	16
		500 (236)	0.051 (12.7)	54	52	46	38	30	26	20	15	57	53	46	41	34	29	21	17	58	54	48	44	37	35	22	18
		600 (283)	0.076 (18.9)	55	54	48	40	33	28	22	18	58	55	48	43	38	31	24	19	59	56	50	46	41	37	25	20
		700 (330)	0.112 (27.9)	56	55	49	42	36	30	24	19	59	57	50	45	40	35	26	21	60	58	52	47	42	39	27	22
		800 (378)	0.144 (35.9)	58	57	51	45	39	34	26	21	61	60	53	48	43	38	29	25	62	61	54	49	44	41	31	26
		900 (425)	0.175 (43.6)	59	59	53	47	42	38	28	24	62	62	56	51	46	41	32	27	63	63	56	51	46	43	33	28
<b>4</b>	<b>12</b>	400 (189)	0.008 (2.0)	50	49	43	34	28	23	17	< 15	51	49	46	35	30	24	20	< 15	52	49	46	37	31	26	20	< 15
		700 (330)	0.021 (5.2)	55	54	48	41	35	29	22	18	56	54	51	41	37	30	25	19	57	54	51	43	38	32	25	19
		1000 (472)	0.044 (11.0)	61	61	54	46	39	39	31	26	62	61	57	47	41	40	32	26	64	61	57	49	43	42	32	26
		1200 (566)	0.063 (15.7)	64	62	57	50	44	45	32	27	65	63	58	50	45	46	33	28	66	63	59	51	45	46	34	29
		1400 (661)	0.086 (21.4)	67	64	59	54	48	49	34	30	68	66	60	53	48	49	37	32	68	66	61	53	48	49	37	32
		1600 (755)	0.113 (28.1)	69	68	62	57	51	52	39	34	70	68	62	56	51	52	39	34	71	68	63	56	51	52	39	35
<b>6</b>	<b>16</b>	800 (378)	0.016 (4.0)	61	56	56	46	38	33	31	24	62	56	57	47	40	34	32	25	63	56	57	47	40	35	32	25
		1100 (519)	0.029 (7.2)	64	59	58	50	43	38	33	26	65	59	59	51	45	39	34	27	66	59	59	51	45	40	34	29
		1500 (708)	0.049 (12.2)	67	61	60	54	47	43	35	30	67	61	60	55	49	44	35	30	68	61	60	55	49	45	35	31
		1700 (802)	0.066 (16.4)	69	63	62	56	49	45	37	32	69	63	62	57	51	46	37	32	70	63	62	57	51	47	37	34
		1950 (920)	0.084 (20.9)	71	65	65	59	53	49	41	35	74	65	63	59	54	50	40	39	74	66	63	60	54	50	40	39
		2200 (1038)	0.103 (25.7)	72	66	65	61	55	52	41	36	74	67	63	61	56	53	40	39	75	67	64	61	56	53	41	40
		2400 (1133)	0.123 (30.6)	75	68	66	64	58	55	42	40	76	68	65	63	58	55	43	41	77	69	65	64	59	56	44	43

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7. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate, and the fan is on.

## FCI-600 ECM

### RADIATED SOUND POWER LEVEL at Inlet Ps = 1.0, 1.5 and 2.0 in. wg

Case	Inlet	CFM (L/s)	Min Ps in. H <sub>2</sub> O (Pa)	Inlet Ps = 1.0 in. wg (250 Pa)								Inlet Ps = 1.5 in. wg (375 Pa)								Inlet Ps = 2.0 in. wg (500 Pa)							
				Octave Band Sound Power, Lw, dB							NC w/ SA	Octave Band Sound Power, Lw, dB							NC w/ SA	Octave Band Sound Power, Lw, dB							NC w/ SA
				2	3	4	5	6	7	NC		2	3	4	5	6	7	NC		2	3	4	5	6	7	NC	
<b>2</b>	<b>8</b>	200 (94)	0.010 (2.5)	55	53	47	41	34	35	21	16	56	54	49	43	36	36	23	18	58	56	52	46	38	41	26	20
		400 (189)	0.033 (8.2)	56	54	48	43	37	38	22	18	58	55	50	45	39	39	24	19	60	57	53	48	42	42	27	21
		500 (236)	0.051 (12.7)	58	55	49	46	40	39	24	19	60	56	51	48	42	40	25	21	61	58	55	50	44	46	30	23
		600 (283)	0.076 (18.9)	59	57	51	48	44	43	26	21	62	60	54	50	47	44	29	25	63	62	57	53	49	49	32	27
		700 (330)	0.112 (27.9)	61	60	53	49	45	44	29	25	62	61	55	51	47	45	31	26	65	64	58	54	50	50	34	29
		800 (378)	0.144 (35.9)	63	62	55	50	46	45	32	27	64	63	56	52	48	46	33	28	66	65	59	54	51	50	35	31
		900 (425)	0.175 (43.6)	64	64	56	52	47	46	34	29	65	65	58	54	49	47	35	31	67	66	60	55	51	50	37	32
<b>4</b>	<b>12</b>	400 (189)	0.008 (2.0)	53	50	46	38	32	27	20	< 15	54	51	47	39	34	29	21	< 15	55	52	48	41	36	32	22	15
		700 (330)	0.021 (5.2)	58	55	51	43	38	34	25	19	58	56	52	44	45	36	26	20	59	57	53	45	46	38	27	21
		1000 (472)	0.044 (11.0)	65	62	57	50	44	44	32	27	65	63	58	52	46	46	33	28	66	64	59	53	48	49	34	29
		1200 (566)	0.063 (15.7)	66	63	59	51	45	46	34	29	66	64	60	52	47	47	35	29	67	66	61	54	49	49	37	32
		1400 (661)	0.086 (21.4)	68	66	61	54	48	49	37	32	69	67	62	55	49	50	38	33	70	68	63	56	51	51	39	34
		1600 (755)	0.113 (28.1)	71	69	63	56	51	52	40	35	72	69	64	57	52	53	40	36	72	70	65	58	53	54	41	37
<b>6</b>	<b>16</b>	800 (378)	0.016 (4.0)	64	57	57	48	41	36	32	26	65	58	58	49	43	39	33	27	66	60	60	51	45	41	35	29
		1100 (519)	0.029 (7.2)	67	60	59	52	46	41	34	30	68	61	60	53	48	44	35	31	69	63	62	55	50	46	37	32
		1500 (708)	0.049 (12.2)	69	62	60	56	50	46	35	32	70	63	61	57	52	49	36	34	71	65	63	59	54	51	38	35
		1700 (802)	0.066 (16.4)	71	64	62	58	52	48	37	35	72	65	63	59	54	51	38	36	73	67	65	61	56	53	41	38
		1950 (920)	0.084 (20.9)	74	66	62	60	55	51	40	39	75	67	64	61	56	53	41	40	77	69	66	62	57	54	44	43
		2200 (1038)	0.103 (25.7)	76	68	64	62	57	53	43	41	77	69	66	63	58	55	44	43	78	71	67	65	60	57	45	44
		2400 (1133)	0.123 (30.6)	77	69	65	64	59	56	44	43	77	70	66	64	60	57	44	43	78	70	67	65	60	57	45	44

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4. NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
5. Air terminal units were tested with an external static pressure of 0.25 in. wg.
6. Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref: 10<sup>-12</sup> watts).
7. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate, and the fan is on.

## FCI-600 ECM

### DISCHARGE SOUND POWER LEVEL at Fan Only, Inlet Ps = 0.50 and 0.75 in. wg

Case	Inlet	CFM (L/s)	Min Ps in. wg (Pa)	Fan Only								Inlet Ps = 0.50 in. wg (125 Pa)							Inlet Ps = 0.75 in. wg (187 Pa)								
				Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
				2	3	4	5	6	7	2		3	4	5	6	7	2	3		4	5	6	7				
<b>2</b>	<b>8</b>	200 (94)	0.010 (2.5)	62	61	59	55	52	53	20	63	62	59	56	52	53	21	63	62	59	57	52	54	21			
		400 (189)	0.033 (8.2)	63	62	60	57	54	54	20	64	63	60	58	54	55	21	65	63	60	58	54	55	21			
		500 (236)	0.051 (12.7)	64	63	61	58	55	56	21	66	64	62	59	55	57	22	66	64	62	59	56	57	22			
		600 (283)	0.076 (18.9)	65	64	62	60	57	58	22	67	65	62	61	57	59	24	67	65	62	61	57	59	24			
		700 (330)	0.112 (27.9)	66	65	63	62	59	60	24	69	67	64	63	59	60	26	69	67	64	63	59	61	26			
		800 (378)	0.144 (35.9)	67	66	64	63	60	61	25	71	69	65	64	61	62	27	71	69	65	64	61	62	27			
900 (425)	0.175 (43.6)	68	67	65	65	62	63	27	72	71	67	66	62	64	29	72	71	67	66	63	64	29					
<b>4</b>	<b>12</b>	400 (189)	0.008 (2.0)	62	60	59	56	53	53	18	63	61	59	57	53	54	19	64	61	59	57	53	54	19			
		700 (330)	0.021 (5.2)	65	63	62	61	58	59	23	68	65	63	62	58	59	24	68	65	63	62	58	60	24			
		1000 (472)	0.044 (11.0)	68	67	64	63	60	63	27	70	69	63	62	60	63	27	70	69	63	62	60	63	27			
		1200 (566)	0.063 (15.7)	71	70	67	66	63	66	30	72	71	66	65	63	66	30	72	71	66	65	63	66	30			
		1400 (661)	0.086 (21.4)	73	73	69	69	66	69	32	74	73	69	68	66	69	32	74	73	69	68	66	69	32			
1600 (755)	0.113 (28.1)	75	74	70	71	68	71	34	76	76	71	71	69	72	35	76	76	71	71	69	72	35					
<b>6</b>	<b>16</b>	800 (378)	0.016 (4.0)	62	65	63	62	61	61	25	59	58	54	50	51	51	15	59	58	54	50	51	51	15			
		1100 (519)	0.029 (7.2)	65	68	66	65	64	64	28	62	61	57	53	54	54	18	62	61	58	53	54	54	18			
		1500 (708)	0.049 (12.2)	68	72	70	71	68	69	32	65	64	61	59	58	59	23	65	64	61	59	58	58	22			
		1700 (802)	0.066 (16.4)	69	73	71	72	69	70	33	67	66	63	61	60	61	25	67	66	63	61	60	60	24			
		1950 (920)	0.084 (20.9)	69	74	73	73	70	70	33	68	68	65	63	62	63	27	69	68	65	63	62	63	27			
		2200 (1038)	0.103 (25.7)	70	74	74	73	70	70	33	70	70	67	65	64	66	30	70	70	67	65	64	66	30			
2400 (1133)	0.123 (30.6)	71	76	75	74	71	71	35	72	72	69	67	67	68	32	72	72	70	68	67	68	32					

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3. Performance data is obtained from laboratory testing in accordance with AHRI 880-2011 and ANSI / ASHRAE 130-2008.
4. NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
5. Air terminal units were tested with an external static pressure of 0.25 in. wg.
6. Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref: 10<sup>-12</sup> watts).
7. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate, and the fan is on.

## FCI-600 ECM

### DISCHARGE SOUND POWER LEVEL at Inlet Ps = 1.0, 1.5 and 2.0 in. wg

Case	Inlet	CFM (L/s)	Min Ps in. wg (Pa)		Inlet Ps = 1.0 in. wg (250 Pa)							Inlet Ps = 1.5 in. wg (375 Pa)							Inlet Ps = 2.0 in. wg (500 Pa)									
					Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC	Octave Band Sound Power, Lw, dB							NC
					2	3	4	5	6	7	2		3	4	5	6	7	2	3		4	5	6	7				
<b>2</b>	<b>8</b>	200 (94)	0.010 (2.5)	63	62	59	57	53	54	21	63	62	59	57	53	54	21	63	62	60	57	53	54	21				
		400 (189)	0.033 (8.2)	65	63	60	58	54	55	21	65	63	60	58	55	55	21	65	63	61	58	55	55	21				
		500 (236)	0.051 (12.7)	66	64	62	59	56	57	22	66	64	62	59	56	57	22	66	64	62	60	56	57	22				
		600 (283)	0.076 (18.9)	67	65	62	61	57	59	24	67	65	62	61	57	59	24	67	66	62	61	58	59	25				
		700 (330)	0.112 (27.9)	69	67	64	63	59	61	26	69	67	64	63	59	61	26	69	68	64	63	60	61	27				
		800 (378)	0.144 (35.9)	71	69	66	64	61	62	27	70	69	66	64	61	63	27	70	70	66	65	62	63	28				
		900 (425)	0.175 (43.6)	72	70	67	66	63	64	28	72	70	67	66	63	64	28	72	71	67	66	63	65	29				
<b>4</b>	<b>12</b>	400 (189)	0.008 (2.0)	64	61	59	57	53	54	19	64	61	59	57	54	54	19	64	61	60	57	54	54	19				
		700 (330)	0.021 (5.2)	68	65	63	62	58	60	24	68	65	63	62	58	60	24	68	66	63	62	59	60	25				
		1000 (472)	0.044 (11.0)	70	69	63	62	60	63	27	70	69	63	62	61	64	28	70	69	64	63	61	64	28				
		1200 (566)	0.063 (15.7)	72	71	66	66	64	67	31	72	72	67	66	64	67	31	73	71	67	66	64	67	31				
		1400 (661)	0.086 (21.4)	74	74	69	69	67	70	33	74	74	70	69	67	70	33	74	74	69	68	67	70	33				
		1600 (755)	0.113 (28.1)	77	76	71	71	69	72	35	77	76	71	71	69	72	35	76	75	71	70	68	71	34				
<b>6</b>	<b>16</b>	800 (378)	0.016 (4.0)	60	59	54	51	52	52	16	61	60	55	51	52	52	16	61	61	55	52	52	53	18				
		1100 (519)	0.029 (7.2)	63	61	58	54	54	55	19	64	61	59	54	54	55	19	64	61	59	55	54	56	20				
		1500 (708)	0.049 (12.2)	66	64	61	59	58	58	22	67	64	62	59	58	58	22	67	65	62	60	58	59	23				
		1700 (802)	0.066 (16.4)	68	66	63	61	60	60	24	69	66	64	61	60	60	24	69	67	64	62	60	61	25				
		1950 (920)	0.084 (20.9)	69	68	65	63	62	63	27	70	69	66	63	63	63	27	70	69	66	64	63	63	27				
		2200 (1038)	0.103 (25.7)	71	70	68	65	65	66	30	72	71	68	66	65	66	30	72	71	68	66	65	66	30				
		2400 (1133)	0.123 (30.6)	73	73	70	68	67	69	32	74	73	70	68	67	69	32	74	73	70	68	67	69	32				

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3. Performance data is obtained from laboratory testing in accordance with AHRI 880-2011 and ANSI / ASHRAE 130-2008.
4. NC values are calculated using attenuation credits outlined in Appendix E of AHRI 885-2008.
5. Air terminal units were tested with an external static pressure of 0.25 in. wg.
6. Discharge Sound power levels shown with End Reflection Corrections Included in dB (ref: 10<sup>-12</sup> watts).
7. Minimum Ps is the static pressure drop across the air terminal unit while the inlet damper is in the wide-open position at a given airflow rate, and the fan is on.

## FCI-600 MINIMUM PRESSURES

Unit Size	CFM	Unit ΔPs (in. wg) [no coil]	Unit ΔPt (in. wg) [no coil]	Unit + 1R Coil, ΔPs (in. wg)	Unit + 1R Coil, ΔPt (in. wg)	Unit + 2R Coil, ΔPs (in. wg)	Unit + 2R Coil, ΔPt (in. wg)
2	200	0.01	0.02	0.02	0.03	0.03	0.04
	300	0.02	0.05	0.03	0.06	0.05	0.08
	400	0.03	0.10	0.05	0.12	0.08	0.15
	500	0.05	0.15	0.08	0.18	0.12	0.22
	600	0.08	0.23	0.12	0.27	0.18	0.33
	750	0.11	0.35	0.16	0.40	0.24	0.48
3	300	0.01	0.05	0.02	0.06	0.03	0.07
	400	0.01	0.08	0.02	0.09	0.04	0.11
	500	0.02	0.06	0.04	0.08	0.06	0.10
	600	0.02	0.08	0.04	0.10	0.07	0.13
	700	0.03	0.11	0.07	0.15	0.12	0.20
	800	0.04	0.15	0.09	0.20	0.14	0.25
	900	0.05	0.19	0.11	0.24	0.16	0.30
4	600	0.00	0.07	0.02	0.09	0.05	0.12
	800	0.00	0.05	0.05	0.10	0.10	0.15
	1000	0.00	0.08	0.06	0.14	0.12	0.20
	1200	0.01	0.12	0.09	0.20	0.18	0.29
	1400	0.02	0.17	0.12	0.27	0.24	0.39
	1600	0.03	0.23	0.16	0.36	0.30	0.50
5	800	0.01	0.06	0.06	0.11	0.11	0.16
	1000	0.01	0.10	0.07	0.16	0.13	0.22
	1200	0.01	0.07	0.09	0.15	0.18	0.24
	1400	0.01	0.10	0.11	0.20	0.23	0.32
	1600	0.02	0.13	0.15	0.26	0.29	0.40
6	800	0.00	0.03	0.03	0.06	0.07	0.10
	1000	0.00	0.05	0.05	0.10	0.11	0.16
	1200	0.00	0.07	0.07	0.14	0.14	0.21
	1400	0.00	0.09	0.09	0.18	0.19	0.28
	1600	0.00	0.12	0.11	0.23	0.23	0.35
	1800	0.01	0.09	0.14	0.22	0.29	0.37
7	1600	0.04	0.12	0.07	0.15	0.11	0.19
	2000	0.06	0.18	0.11	0.23	0.17	0.29
	2400	0.08	0.25	0.15	0.32	0.23	0.40
	2800	0.10	0.33	0.19	0.42	0.29	0.52
	3200	0.12	0.42	0.23	0.53	0.36	0.66
	3600	0.13	0.52	0.26	0.65	0.42	0.81

## FCI-600 ECM MINIMUM PRESSURES

Unit Size	CFM	Unit ΔPs (in. wg) [no coil]	Unit ΔPt (in. wg) [no coil]	Unit + 1R Coil, ΔPs (in. wg)	Unit + 1R Coil, ΔPt (in. wg)	Unit + 2R Coil, ΔPs (in. wg)	Unit + 2R Coil, ΔPt (in. wg)
2	200	0.01	0.03	0.02	0.04	0.03	0.05
	400	0.03	0.11	0.05	0.13	0.08	0.16
	500	0.05	0.17	0.08	0.20	0.12	0.24
	600	0.08	0.25	0.12	0.29	0.18	0.35
	700	0.11	0.35	0.17	0.41	0.24	0.48
	800	0.14	0.46	0.21	0.53	0.30	0.62
	900	0.18	0.57	0.27	0.66	0.37	0.76
	4	400	0.01	0.02	0.02	0.03	0.04
700		0.02	0.07	0.05	0.10	0.09	0.14
1000		0.04	0.13	0.10	0.19	0.16	0.25
1200		0.06	0.19	0.14	0.27	0.23	0.36
1400		0.09	0.26	0.19	0.36	0.31	0.48
1600		0.11	0.34	0.24	0.47	0.38	0.61
6	800	0.02	0.03	0.05	0.06	0.09	0.10
	1100	0.03	0.06	0.10	0.13	0.18	0.21
	1500	0.05	0.10	0.16	0.21	0.29	0.34
	1700	0.07	0.13	0.21	0.27	0.37	0.43
	1950	0.08	0.17	0.23	0.32	0.40	0.49
	2200	0.10	0.22	0.29	0.41	0.49	0.61
	2400	0.12	0.26	0.34	0.48	0.58	0.72

1. ΔPs = static pressure drop; ΔPt = total pressure drop.
2. Calculations of ΔPs and ΔPt were performed using standard air with a density of 0.075 lbm / cu.ft.
3. Data based on testing standard METALAIRE hot water coils per AHRI Standard 410.
4. Unit ΔPs and Unit ΔPt are pressure drops across the air terminal unit while the inlet damper is in the wide-open position.
5. Data applies to air terminal units with hot water coil mounted on the discharge side.

## FCI-600 FAN MOTOR AMPERAGE RATINGS

Case Size	Motor HP	Standard PSC Motor Amperage Ratings		
		115V-1 Phase 60 Hz Rated Amps	208-240V-1 Phase 60 Hz Rated Amps	277V-1 Phase 60 Hz Rated Amps
2	1/8	2.6	1.5	1.1
3	1/8	2.6	1.5	1.1
4	1/4	4.6	2.5	1.9
5	1/3	8.7	4.8	3.6
6	1	N/A	8.3	6.2
7	3/4 (Qty 2)	20.7 (2 motors)	11.5	8.6 (2 motors)

## FCI-600 ECM FAN MOTOR AMPERAGE RATINGS

Case Size	Motor HP	ECM Motor Amperage Ratings		
		115V-1 Phase 60 Hz Rated Amps	208-240V-1 Phase 60 Hz Rated Amps	277V-1 Phase 60 Hz Rated Amps
2	1/2	3.8	2.2	1.8
4	1/2	5.2	3.0	2.5
6	1	9.9	5.5	5.0

## FCI-600 DAMPER LEAKAGE

Inlet Size	Damper Leakage, CFM		
	1.5" ΔPs	3.0" ΔPs	6.0" ΔPs
6	3	4	7
8	2	4	7
10	4	5	7
12	4	5	7
14	4	6	8
16	4	6	8

## FCI-600 ECM DAMPER LEAKAGE

Inlet Size	Damper Leakage, CFM		
	1.5" ΔPs	3.0" ΔPs	6.0" ΔPs
6	3	4	7
8	2	4	7
10	4	5	7
12	4	5	7
14	4	6	8
16	4	6	8



## FCI-600 HOT WATER COILS MBH SELECTION DATA – IMPERIAL UNITS

Unit Size	Rows	Connection (OD)	GPM	Head Loss (ft-H <sub>2</sub> O)	CFM							
					300	350	400	450	500	550	600	700
2	One	0.875	1	0.14	12.7	13.5	14.3	15.0	15.6	16.2	16.7	17.6
			2	0.54	14.3	15.4	16.5	17.4	18.2	19.0	19.7	21.1
			4	2.06	15.3	16.6	17.8	18.9	20.0	20.9	21.8	23.4
			6	4.52	15.7	17.1	18.4	19.5	20.6	21.6	22.6	24.3
			Airside Ps		0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.06
2	Two	0.875	1	0.09	17.8	19.1	20.3	21.3	22.2	23.0	23.7	25.0
			2	0.34	20.9	22.9	24.6	26.2	27.6	28.9	30.1	32.2
			4	1.32	23.0	25.4	27.6	29.6	31.5	33.2	34.8	37.8
			6	2.94	23.8	26.4	28.8	31.0	33.0	35.0	36.8	40.1
			Airside Ps		0.03	0.04	0.05	0.06	0.07	0.09	0.10	0.13

Unit Size	Rows	Connection (OD)	GPM	Head Loss (ft-H <sub>2</sub> O)	CFM							
					400	450	500	550	600	700	800	900
3	One	0.625	1	0.20	16.8	17.6	18.4	19.1	19.8	20.9	21.9	22.7
			2	0.75	19.3	20.5	21.5	22.5	23.4	25.1	26.6	27.9
			4	2.88	20.9	22.3	23.5	24.8	25.9	27.9	29.8	31.4
			6	6.30	21.5	23.0	24.3	25.6	26.8	29.0	31.1	32.9
			Airside Ps		0.01	0.01	0.02	0.02	0.02	0.03	0.04	0.05
3	Two	0.875	1	0.10	22.9	24.1	25.3	26.2	27.1	28.7	30.0	31.1
			2	0.39	27.7	29.6	31.3	32.9	34.4	37.1	39.4	41.4
			4	1.52	30.9	33.3	35.6	37.7	39.7	43.3	46.6	49.6
			6	3.36	32.1	34.8	37.2	39.6	41.8	45.9	49.7	53.1
			Airside Ps		0.03	0.03	0.04	0.05	0.05	0.07	0.09	0.10

Unit Size	Rows	Connection (OD)	GPM	Head Loss (ft-H <sub>2</sub> O)	CFM							
					800	900	1000	1100	1200	1300	1400	1500
4	One	0.625	1	0.20	21.9	22.7	23.5	24.2	24.8	25.3	25.9	26.3
			2	0.76	26.6	27.9	29.1	30.1	31.1	32.0	32.9	33.6
			4	2.88	29.8	31.4	33.0	34.4	35.7	36.9	38.0	39.1
			6	6.31	31.1	32.9	34.6	36.1	37.5	38.9	40.2	41.4
			Airside Ps		0.04	0.05	0.06	0.07	0.08	0.09	0.1	0.11
4	Two	0.875	1	0.10	30.0	31.1	32.1	32.9	33.6	34.3	34.9	35.4
			2	0.39	39.4	41.4	43.3	44.9	46.4	47.7	49.0	50.1
			4	1.52	46.6	49.6	52.3	54.8	57.1	59.2	61.2	63.0
			6	3.36	49.7	53.1	56.2	59.1	61.8	64.3	66.7	68.9
			Airside Ps		0.09	0.10	0.12	0.15	0.17	0.19	0.22	0.24

Heating capacity data in tables assume an entering water temperature (EWT) of 180°F, and an entering air temperature (EAT) of 65°F, which corresponds to a temperature difference of 115°F. Smaller temperature differences will result in a decrease of heating capacity. To obtain the heating capacity at another temperature difference, refer to the hot water coil notes located in the Reference Section.

## FCI-600 HOT WATER COILS MBH SELECTION DATA – IMPERIAL UNITS

Unit Size	Rows	Connection (OD)	GPM	Head Loss (ft-H <sub>2</sub> O)	CFM							
					1200	1350	1475	1600	1725	1850	1975	2000
5	One	0.625	1	0.20	24.8	25.6	26.2	26.7	27.2	27.7	28.1	28.2
			2	0.76	31.1	32.4	33.4	34.4	35.2	36.0	36.7	36.9
			4	2.89	35.7	37.5	38.8	40.1	41.3	42.4	43.4	43.6
			6	6.32	37.5	39.5	41.1	42.5	43.8	45.1	46.2	46.5
			Airside Ps		0.08	0.09	0.11	0.13	0.14	0.16	0.18	0.19
5	Two	0.875	1	0.10	33.6	34.6	35.3	35.9	36.5	37.0	37.4	37.5
			2	0.39	46.4	48.4	49.8	51.2	52.4	53.5	54.5	54.7
			4	1.52	57.1	60.2	62.5	64.7	66.8	68.6	70.4	70.7
			6	3.36	61.8	65.5	68.4	71.0	73.5	75.8	77.9	78.4
			Airside Ps		0.17	0.20	0.24	0.27	0.31	0.35	0.39	0.39

Unit Size	Rows	Connection (OD)	GPM	Head Loss (ft-H <sub>2</sub> O)	CFM							
					1800	1900	2000	2100	2200	2300	2400	2600
6	One	0.625	1	0.21	28.7	29.1	29.4	29.7	30.0	30.3	30.6	31.1
			2	0.81	37.4	38.0	38.7	39.2	39.8	40.3	40.8	41.7
			4	3.08	44.0	45.0	45.8	46.6	47.4	48.2	48.9	50.3
			6	6.73	46.8	47.9	48.9	49.8	50.7	51.6	52.4	54.0
			Airside Ps		0.13	0.14	0.16	0.17	0.19	0.2	0.22	0.25
6	Two	0.875	1	0.10	38.0	38.4	38.8	39.0	39.4	39.7	40.0	40.4
			2	0.40	55.0	55.9	56.8	57.6	58.4	59.0	59.7	60.9
			4	1.57	70.6	72.2	73.7	75.1	76.4	77.6	78.8	81.1
			6	3.47	78.0	79.9	81.7	83.4	85.1	86.6	88.2	91.0
			Airside Ps		0.28	0.31	0.34	0.36	0.39	0.43	0.46	0.52

Unit Size	Rows	Connection (OD)	GPM	Head Loss (ft-H <sub>2</sub> O)	CFM							
					2400	2600	2800	3000	3200	3400	3600	4000
7	One	0.875	2	0.37	51.4	52.6	53.6	54.6	55.5	56.3	57.1	58.5
			4	1.43	64.7	66.6	68.4	70.0	71.5	73.0	74.3	76.8
			6	3.18	70.8	73.1	75.2	77.2	79.1	80.9	82.6	85.7
			8	3.65	74.3	76.8	79.2	81.5	83.6	85.6	87.5	91.0
			Airside Ps		0.07	0.08	0.09	0.1	0.11	0.12	0.13	0.16
7	Two	0.875	2	0.27	71.9	73.4	74.7	75.9	77.0	78.0	78.9	80.5
			4	1.07	98.7	101.7	104.5	107.0	109.4	111.6	113.6	117.3
			6	2.39	112.2	116.2	119.9	123.3	126.6	129.6	132.4	137.6
			8	4.22	120.3	125.0	129.3	133.4	137.2	140.9	144.3	150.5
			Airside Ps		0.15	0.17	0.19	0.21	0.24	0.26	0.29	0.34

Heating capacity data in tables assume an entering water temperature (EWT) of 180°F, and an entering air temperature (EAT) of 65°F, which corresponds to a temperature difference of 115°F. Smaller temperature differences will result in a decrease of heating capacity. To obtain the heating capacity at another temperature difference, refer to the hot water coil notes located in the Reference Section.

## FCI-600 HOT WATER COILS KW SELECTION DATA – METRIC UNITS

Unit Size	Rows	Connection OD (mm)	Water Flow (L/s)	Head Loss (kPa)	Airflow (L/s)							
					142	165	189	212	236	260	283	330
2	One	22.2	0.01	0.42	3.7	4.0	4.2	4.4	4.6	4.7	4.9	5.2
			0.03	1.61	4.2	4.5	4.8	5.1	5.3	5.6	5.8	6.2
			0.13	6.16	4.5	4.9	5.2	5.5	5.9	6.1	6.4	6.9
			0.29	13.51	4.6	5.0	5.4	5.7	6.0	6.3	6.6	7.1
			Airside Ps (kPa)		0.002	0.005	0.005	0.007	0.007	0.010	0.010	0.015
2	Two	22.2	0.01	0.27	5.2	5.6	5.9	6.2	6.5	6.7	6.9	7.3
			0.02	1.02	6.1	6.7	7.2	7.7	8.1	8.5	8.8	9.4
			0.08	3.95	6.7	7.4	8.1	8.7	9.2	9.7	10.2	11.1
			0.19	8.79	7.0	7.7	8.4	9.1	9.7	10.2	10.8	11.7
			Airside Ps (kPa)		0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03

Unit Size	Rows	Connection OD (mm)	Water Flow (L/s)	Head Loss (kPa)	Airflow (L/s)							
					189	212	236	260	283	330	378	425
3	One	15.9	0.01	0.60	4.9	5.2	5.4	5.6	5.8	6.1	6.4	6.6
			0.05	2.24	5.6	6.0	6.3	6.6	6.9	7.3	7.8	8.2
			0.18	8.61	6.1	6.5	6.9	7.2	7.6	8.2	8.7	9.2
			0.40	18.83	6.3	6.7	7.1	7.5	7.8	8.5	9.1	9.6
			Airside Ps (kPa)		0.002	0.002	0.005	0.005	0.005	0.01	0.01	0.01
3	Two	22.2	0.01	0.30	6.7	7.1	7.4	7.7	7.9	8.4	8.8	9.1
			0.02	1.17	8.1	8.7	9.2	9.6	10.1	10.9	11.5	12.1
			0.10	4.54	9.0	9.7	10.4	11.0	11.6	12.7	13.6	14.5
			0.21	10.04	9.4	10.2	10.9	11.6	12.2	13.4	14.5	15.5
			Airside Ps (kPa)		0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02

Unit Size	Rows	Connection OD (mm)	Water Flow (L/s)	Head Loss (kPa)	Airflow (L/s)							
					378	425	472	519	566	614	661	708
4	One	15.9	0.01	0.60	6.4	6.7	6.9	7.1	7.3	7.4	7.6	7.7
			0.05	2.27	7.8	8.2	8.5	8.8	9.1	9.4	9.6	9.8
			0.18	8.61	8.7	9.2	9.7	10.1	10.5	10.8	11.1	11.4
			0.40	18.86	9.1	9.6	10.1	10.6	11.0	11.4	11.8	12.1
			Airside Ps (kPa)		0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03
4	Two	22.2	0.01	0.30	8.8	9.1	9.4	9.6	9.8	10.0	10.2	10.4
			0.02	1.17	11.5	12.1	12.7	13.1	13.6	14.0	14.3	14.7
			0.10	4.54	13.6	14.5	15.3	16.0	16.7	17.3	17.9	18.4
			0.21	10.04	14.5	15.5	16.5	17.3	18.1	18.8	19.5	20.2
			Airside Ps (kPa)		0.02	0.02	0.03	0.04	0.04	0.05	0.05	0.06

Heating capacity data in tables assume an entering water temperature (EWT) of 82°C, and an entering air temperature (EAT) of 18°C, which corresponds to a temperature difference of 64°C. Smaller temperature differences will result in a decrease of heating capacity. To obtain the heating capacity at another temperature difference, refer to the hot water coil notes located in the Reference Section.

## FCI-600 HOT WATER COILS kW SELECTION DATA – METRIC UNITS

Unit Size	Rows	Connection OD (mm)	Water Flow (L/s)	Head Loss (kPa)	Airflow (L/s)							
					566	637	696	755	814	873	932	944
5	One	15.9	0.01	0.60	7.3	7.5	7.7	7.8	8.0	8.1	8.2	8.3
			0.05	2.27	9.1	9.5	9.8	10.1	10.3	10.5	10.8	10.8
			0.18	8.64	10.5	11.0	11.4	11.7	12.1	12.4	12.7	12.8
			0.40	18.89	11.0	11.6	12.0	12.4	12.8	13.2	13.5	13.6
			Airside Ps (kPa)		0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.1
5	Two	22.2	0.01	0.30	9.8	10.1	10.3	10.5	10.7	10.8	11.0	11.0
			0.02	1.17	13.6	14.2	14.6	15.0	15.3	15.7	16.0	16.0
			0.10	4.54	16.7	17.6	18.3	18.9	19.5	20.1	20.6	20.7
			0.21	10.04	18.1	19.2	20.0	20.8	21.5	22.2	22.8	22.9
			Airside Ps (kPa)		0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.1

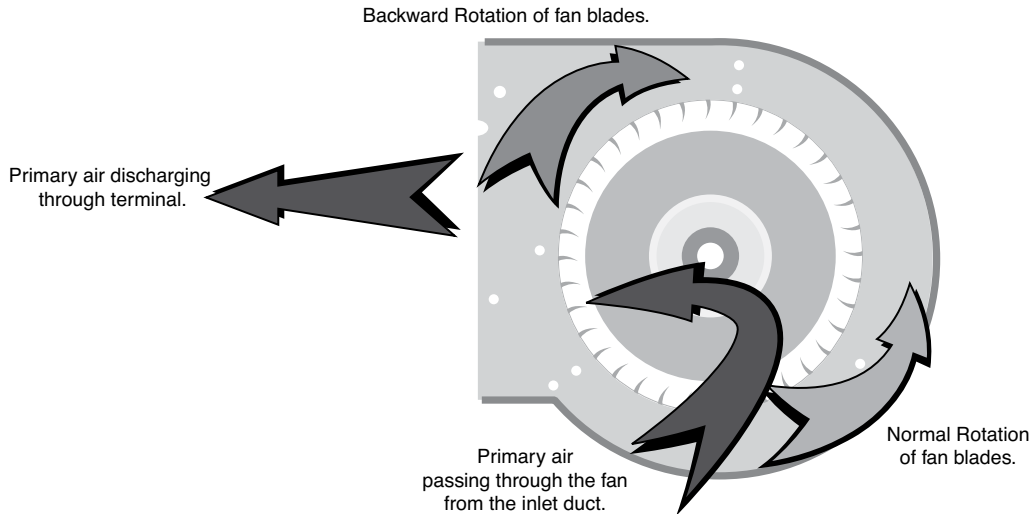
Unit Size	Rows	Connection OD (mm)	Water Flow (L/s)	Head Loss (kPa)	Airflow (L/s)							
					850	897	944	991	1038	1085	1133	1227
6	One	15.9	0.01	0.63	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1
			0.05	2.42	11.0	11.1	11.3	11.5	11.7	11.8	11.9	12.2
			0.19	9.21	12.9	13.2	13.4	13.6	13.9	14.1	14.3	14.7
			0.42	20.12	13.7	14.0	14.3	14.6	14.8	15.1	15.3	15.8
			Airside Ps (kPa)		0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.06
6	Two	22.2	0.01	0.30	11.1	11.2	11.3	11.4	11.5	11.6	9.94	10.06
			0.03	1.20	16.1	16.4	16.6	16.9	17.1	17.3	14.86	15.16
			0.10	4.69	20.7	21.1	21.6	22.0	22.4	22.7	19.62	20.17
			0.22	10.37	22.8	23.4	23.9	24.4	24.9	25.4	21.94	22.65
			Airside Ps (kPa)		0.07	0.08	0.08	0.09	0.10	0.11	0.11	0.13

Unit Size	Rows	Connection OD (mm)	Water Flow (L/s)	Head Loss (kPa)	Airflow (L/s)							
					1133	1227	1321	1416	1510	1605	1699	1888
7	One	22.2	0.02	1.11	15.0	15.4	15.7	16.0	16.3	16.5	16.7	17.1
			0.09	4.27	18.9	19.5	20.0	20.5	20.9	21.4	21.8	22.5
			0.20	9.51	20.7	21.4	22.0	22.6	23.2	23.7	24.2	25.1
			0.23	10.91	21.8	22.5	23.2	23.9	24.5	25.1	25.6	26.6
			Airside Ps (kPa)		0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04
7	Two	22.2	0.02	0.81	21.1	21.5	21.9	22.2	22.5	22.8	19.64	20.03
			0.07	3.20	28.9	29.8	30.6	31.3	32.0	32.7	28.28	29.19
			0.15	7.14	32.9	34.0	35.1	36.1	37.1	37.9	32.95	34.26
			0.27	12.61	35.2	36.6	37.9	39.1	40.2	41.2	35.92	37.46
			Airside Ps (kPa)		0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.08

Heating capacity data in tables assume an entering water temperature (EWT) of 82°C, and an entering air temperature (EAT) of 18°C, which corresponds to a temperature difference of 64°C. Smaller temperature differences will result in a decrease of heating capacity. To obtain the heating capacity at another temperature difference, refer to the hot water coil notes located in the Reference Section.

## FCI-600 AIR TERMINALS ACCESSORIES AND COMPONENTS OPTIONAL ELECTRONIC ANTI-REVERSE ROTATION DEVICE

The fan wheel in a constant fan box may rotate backward whenever the fan motor is not running and primary air from the inlet duct is passing through the fan. In some cases the torque developed by the fan wheel when rotating backward cannot be overcome by the starting torque of the fan motor. In this condition the fan motor will run in reverse rotation, resulting in insufficient airflow delivery.



Systems with constant fan boxes must have a means to coordinate energizing the fan motor with start up of the Primary Fan System to prevent the reverse rotation of the terminal unit family. This is accomplished by proper operation and staging by the building control system. Another option is to create enough motor torque to reverse the rotation of the fan wheel.

Other manufacturers choose to deal with this issue by running their motors with larger capacitors than recommended by the motor manufacturer. The oversized capacitor will cause the motor to run less efficiently, run hotter than normal and draw more current than with a proper capacitor. All of this will result in reduced motor life and increased energy costs.

METALAIRE'S Model FCI-600 is available with an optional Electronic Anti-Reverse Rotation Device which will positively correct the reverse rotation of any fan. This option does not draw additional current while the motor is running and will not cause the motor to run at higher temperatures. This is a significant advantage.

The results are greater efficiency, quieter motors, longer motor life and happier building owners.

### FCI-600 APPROXIMATE SHIPPING WEIGHTS

Case	FCI
2	124 lbs.
3	165 lbs.
4	165 lbs.
5	198 lbs.
6	220 lbs.
7	260 lbs.

### FCI-600 FILTER SIZES PER CASE SIZE

Case Size	Filter Dimensions
2	16" x 16"
3	20" x 16"
4	20" x 16"
5	20" x 20"
6	24" x 20"
7	20" x 20"

*Filters are mounted on the fan induction and are available in 1" or 2" thickness.*

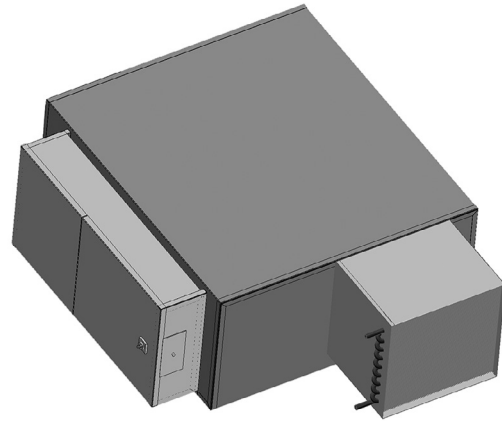
## FCI-600 ACCESSORIES AND COMPONENTS HOT WATER COILS

When ordered with the air terminal, the hot water coil is shipped attached to the discharge of the terminal casing. The discharge end of the casing has slip and drive connections for easy connection to downstream ductwork. The hot water coil is constructed of aluminum fin and copper serpentine-type tubes with male sweat connections tested at 300 psig.

Coil selection can be made using METALAIRE's Air Terminal Unit Selection Software. Contact your representative for a copy. In the interest of energy conservation and due to the possibility of condensation, all hot water coils are marked "Coil must be externally insulated after installation in the field." Hot water coils are tested in accordance with AHRI Standards 410. Hot water coils may be ordered with optional access doors for inspection and cleaning to meet requirements of ASHRAE Standard 62.1.

### HOT WATER COIL CONSTRUCTION DETAILS

- Hot Water Coils are factory mounted to the discharge of the terminal and are available with an optional factory mounted discharge plenum section with access door.
- Hot water coils are enclosed in a 20 gauge coated steel casing allowing for attachment to metal ductwork with a slip and drive connection.
- Fins are rippled and sine wave type constructed from heavy gauge aluminum and are mechanically bonded to the tubes.
- Tubes are copper with a minimum wall thickness of 0.016" with male sweat header connections.
- Coils are leak tested to 300 psi with minimum burst of 2000 psi at ambient temperature. Coil performance data is based on tests run in accordance with AHRI standard 410. Coils are AHRI certified and include an AHRI label.



Tubing Connections		
Case Size	Standard HW Coil Inches (mm)	
	1 Row	2 Row
2	7/8 (22.2)	7/8 (22.2)
3	5/8 (15.8)	7/8 (22.2)
4	5/8 (15.8)	7/8 (22.2)
5	5/8 (15.8)	7/8 (22.2)
6	5/8 (15.8)	7/8 (22.2)
7	7/8 (22.2)	7/8 (22.2)

Outlet Dimensions		
Case Size	Standard HW Coil Inches (mm)	
	H	W
2	15 (381)	16 (406)
3	17.5 (445)	20 (508)
4	17.5 (445)	20 (508)
5	17.5 (445)	20 (508)
6	18 (457)	22 (559)
7	20 (508)	38 (952)

All coils have 10 fins per inch

All accessories that can be attached to the Series Fan Boxes are not a part of the AHRI certification program but ratings can be affected by their use.

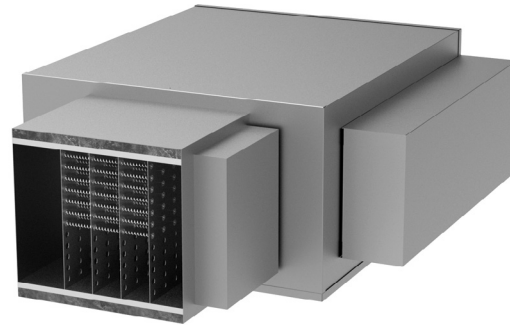


## FCI-600 ACCESSORIES AND COMPONENTS ELECTRIC HEAT

Electric heater elements, as illustrated on this page, are integral to the air terminal. The discharge end has slip and drive connections for easy connection to downstream ductwork. ETL® listed heaters are provided with a fan interlock relay. Heaters that will be controlled electronically must include a 24 VAC control circuit to operate with the low voltage controls on the air terminal. Heater plenums are internally insulated. When an air terminal is ordered with clean room lining and electric heat, the heater plenum is either internally lined with optional foil backed insulation or closed cell foam or may require external insulation in field.

### INCLUDED WITH EACH HEATER ASSEMBLY:

- Heater and cabinet mounted on the discharge of the FCI-600
- Electric Heater is interlocked into fan control relay
- De-energizing magnetic contactors per step
- Primary automatic reset high temperature limit (disc type)
- Backup manual reset high temperature limit (disc type)
- Non-fused transformer with voltage to match Heater voltage
- Single point power wiring connection
- Heater is shipped factory mounted and wired



### ELECTRIC HEATER ASSEMBLY CONSTRUCTION DETAILS

- Electric Reheat Coils are factory mounted on the discharge of the Air Terminal. The heaters are ETL® listed for zero clearance, are tested in accordance with UL® Standard 1995, CSA-C22.2 No. 236 and the National Electric Code (NEC). Heater casings are constructed of galvanized steel. Element wire is high grade nichrome alloy derated to 45 watts per square inch density. Element wire is supported by moisture-resistant steatite ceramics.
- Ceramics are enclosed in reinforcement brackets spaced across the heater element rack at 2" to 4" intervals. Controls are contained in a NEMA 1 control cabinet with a hinged, latching door. A permanent wiring diagram is affixed to the inside of the control cabinet door for field reference.
- The 208 and 480 volt units require a neutral connection for both single and three phase service. Our standard motors are 120 and 277 volt single phase. The 208-240 volt single phase motor is optional. 480 volt motors are not available for our units. See table for reference.

Heater Voltage	Fan Motor Voltage	Separate Neutral Required
120 V 1PH	120 V 1PH	NO
208 V 1PH	120 V 1PH	YES
277 V 1PH	277 V 1PH	NO
480 V 1PH	277 V 1PH	YES
208 V 1PH	208 V 1PH	NO
208 V 3PH	120 V 1PH	YES
480 V 3PH	277 V 1PH	YES
208 V 3PH	208 V 1PH	NO

**All accessories that can be attached to the Series Fan Boxes are not a part of the AHRI certification program but ratings can be affected by their use.**

## FCI-600 ELECTRIC HEATER CAPACITIES

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FCI-600 CONSTANT VOLUME

Single Phase FCI kW Limits				
Unit Size	Heater Voltage	Min. kW Step	Max. kW	Max. Steps
2	120	0.5	5	3
2	208	0.5	8.5	3
2	240	0.5	10	3
2	277	0.5	11.5	3
2	480	0.5	11.5	3
3	120	0.5	5	3
3	208	0.5	8.5	3
3	240	0.5	10	3
3	277	0.5	11.5	3
3	480	0.5	11.5	3
4	120	0.5	5	3
4	208	0.5	8.5	3
4	240	0.5	10	3
4	277	0.5	11.5	3
4	480	0.5	17	3
5	120	0.5	5	3
5	208	0.5	8.5	3
5	240	0.5	10	3
5	277	0.5	11.5	3
5	480	0.5	17	3
6	120	0.5	5	3
6	208	0.5	8.5	3
6	240	0.5	10	3
6	277	0.5	11.5	3
6	480	0.5	17	3
7	120	0.5	5	3
7	208	0.5	8.5	3
7	240	0.5	10	3
7	277	0.5	11.5	3
7	480	0.5	17	3

Three Phase FCI kW Limits				
Inlet Size	Heater Voltage	Min. kW Step	Max. kW	Max. Steps
2	208	0.5	13	3
2	480	1.5	17	3
3	208	0.5	13	3
3	480	1.5	17	3
4	208	0.5	13	3
4	480	1.5	25	3
5	208	0.5	13	3
5	480	1.5	25	3
6	208	0.5	13	3
6	480	1.5	25	3
7	208	0.5	13	3
7	480	1.5	25	3

**NOTES:**

1. Heaters less than 10 kW are specifiable to nearest 0.5 kW. Heaters greater than 10.0 kW are specifiable to nearest 1.0 kW.
2. Minimum flow rate for electric heat is 70 CFM / kW. Lower CFM's can cause nuisance tripping, excessive discharge temperatures, rapid cycling, and rapid element failure. Electric Heat units running below 70 CFM / kW will void all warranties.
3. For optimum thermal comfort, the suggested discharge temperature should not exceed 20°F above room set point.
4. We do not recommend discharge temperatures in excess of 115°F to protect heater coils.
5. Maximum number of steps at minimum kW is one step.
6. If more than 1 heater is wired into a building's circuit breaker (multi-outlet branch circuit), each heater will require the addition of power side fusing.

**ELECTRIC HEAT SELECTION:**

A. Specify electric duct heaters using voltage, phase, kW, and number of steps.

B. Use above chart to select voltage. Calculate required kW using following equations:

$$kW = \frac{BTU / HR}{3413} \quad kW = \frac{CFM \times \Delta \times 1.085}{3413} \quad \Delta = \frac{kW \times 3413}{CFM \times 1.085}$$

$$CFM = \frac{kW \times 3413}{\Delta \times 1.085} \quad CFM = \frac{kW \times 3413}{\Delta \times 1.085}$$

\* air density at sea level—reduce by 0.036 for each 1000 feet of altitude above sea level

Where: BTU / Hr = Required heating capacity

CFM = volume of air during heating. Typically 100% of maximum cooling air volume

Δ = desired air temperature rise across the electric heater

Inlet air temperature = primary air temperature, usually 55°F





## FCI-600 CONTROL SEQUENCE OFFERINGS



### PPD-PNEUMATIC PRESSURE DEPENDENT

- 910 DA / NC
- 912 RA / NO



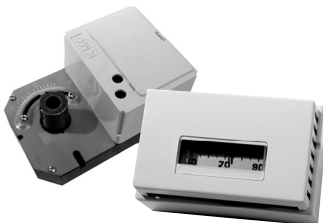
### PPI-PNEUMATIC PRESSURE INDEPENDENT

- 914 DA / NC
- 915 DA / NO
- 916 RA / NC
- 917 RA / NO



### EPD-ELECTRIC PRESSURE DEPENDENT

- 960 Cooling Only
- 961 Cooling with Heat
- 964 Night Shutdown / Morning Warm-up
- 965 Heating / Cooling Changeover



### API-ANALOG PRESSURE INDEPENDENT

- Consult Factory



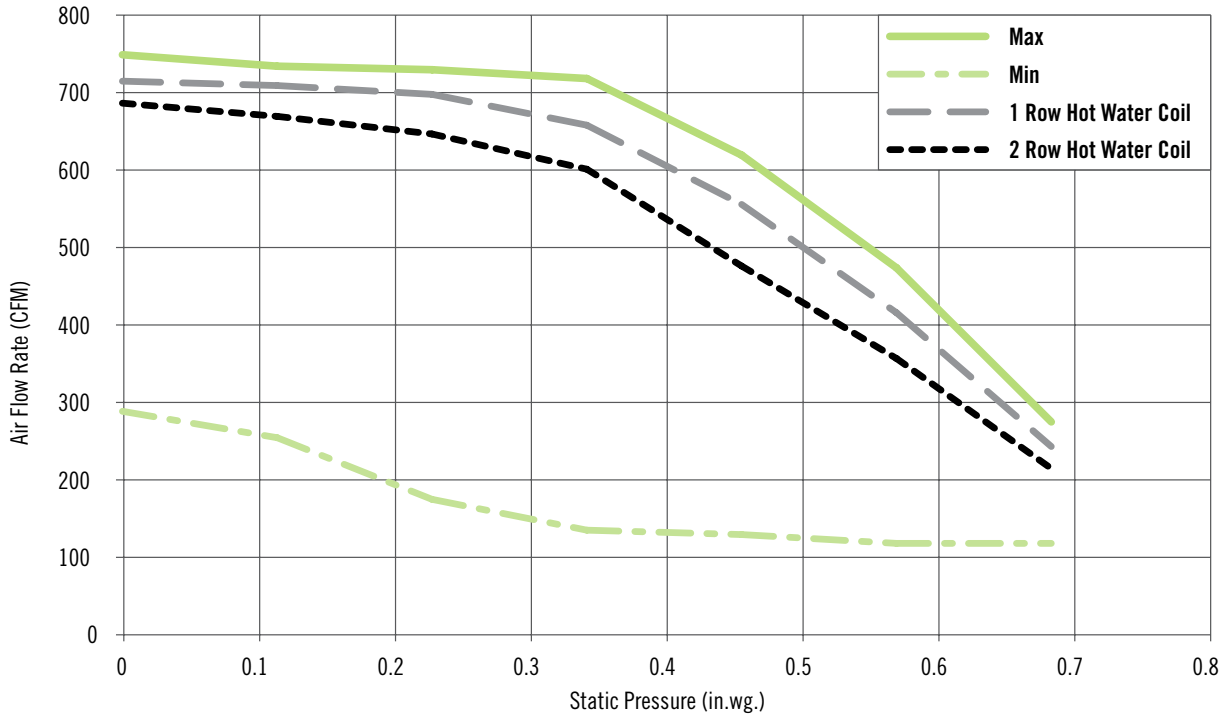
### DDC-DIRECT DIGITAL CONTROL

#### BACnet

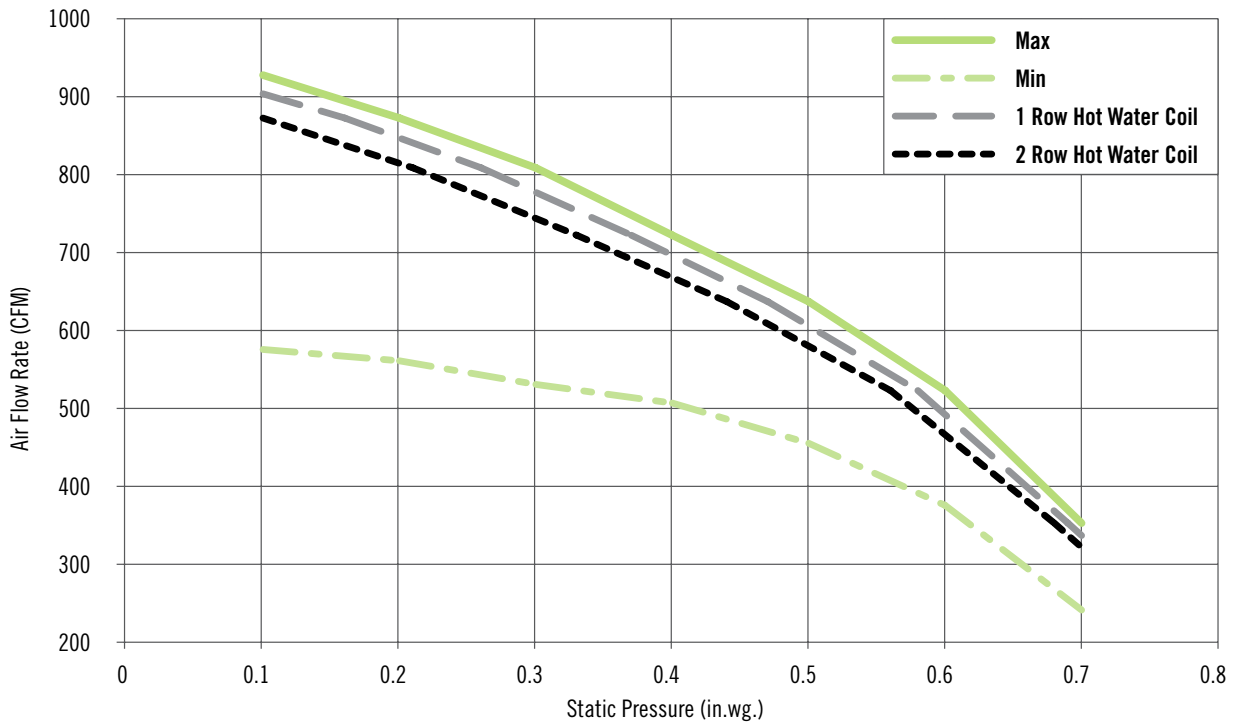
- 980 Constant Fan—No Auxiliary Heating
- 982 Constant Fan—Modulating Floating Control—Hot Water Heat
- 983-E Electric Heat

Refer to ACC 24 for complete description.

## FCI-600 FAN PERFORMANCE CURVES UNIT SIZE 2 - STANDARD HW COIL

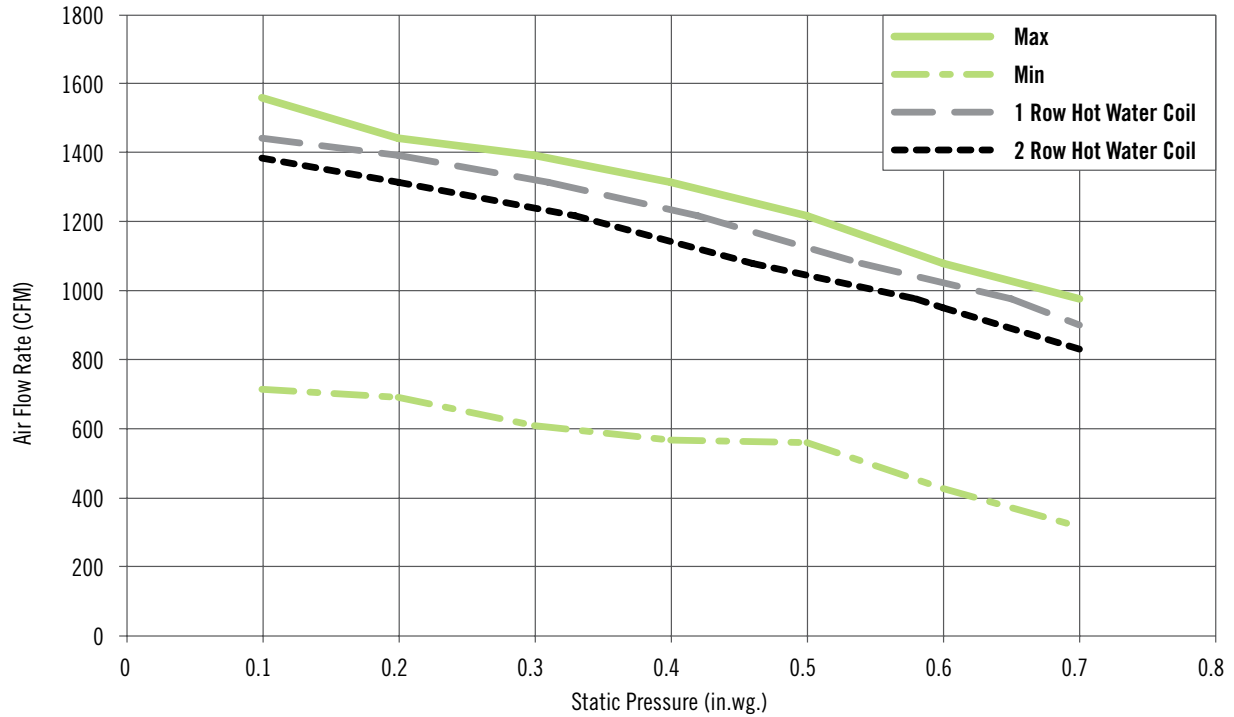


## FCI-600 FAN PERFORMANCE CURVES UNIT SIZE 3 - STANDARD HW COIL

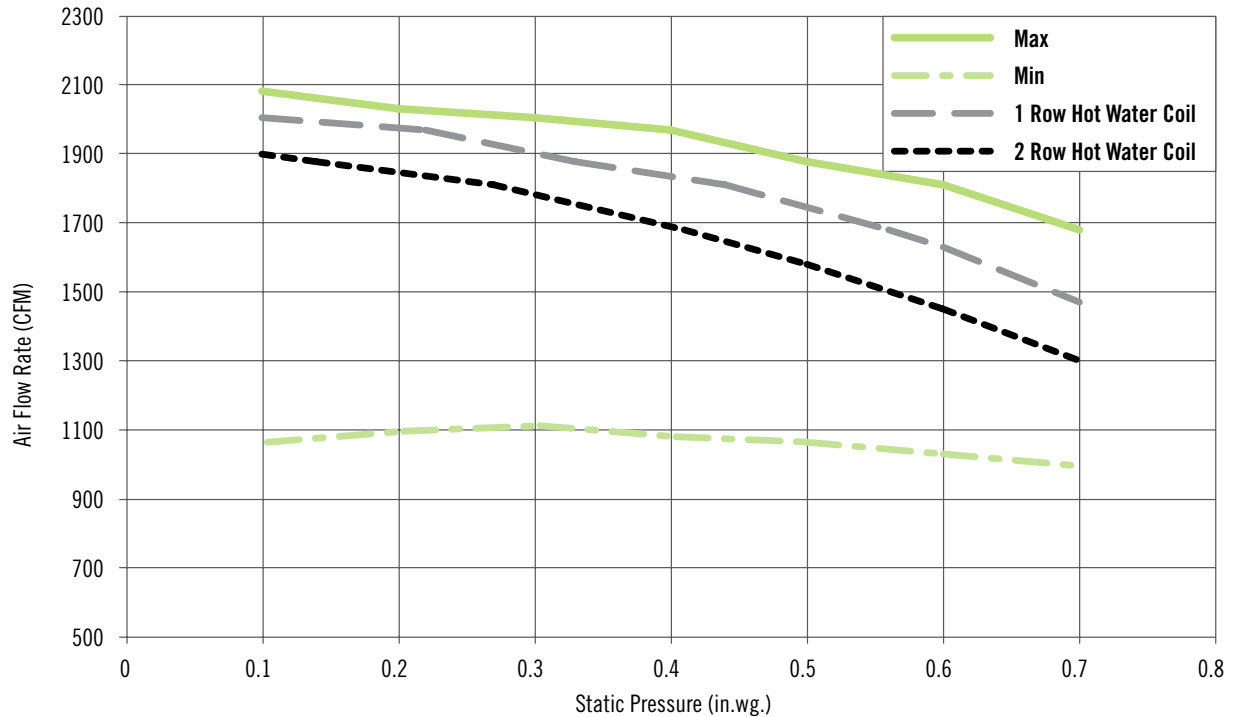




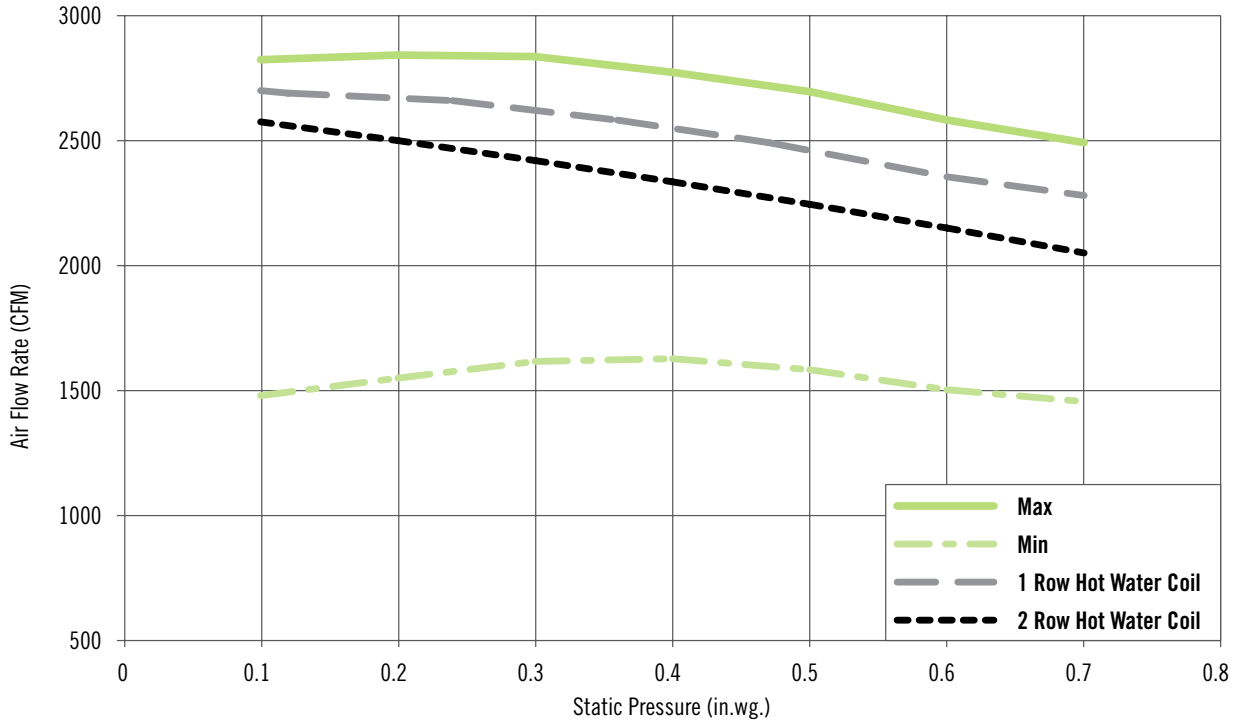
## FCI-600 FAN PERFORMANCE CURVES UNIT SIZE 4 - STANDARD HW COIL



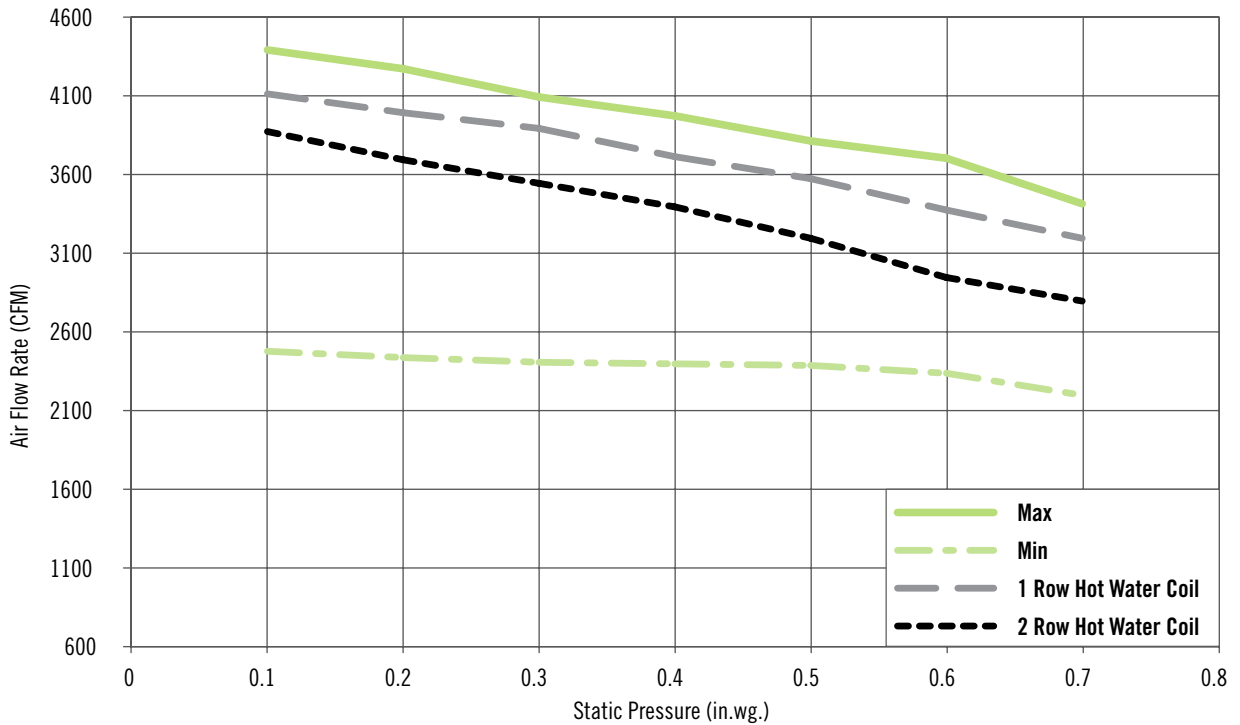
## FCI-600 FAN PERFORMANCE CURVES UNIT SIZE 5 - STANDARD HW COIL



## FCI-600 FAN PERFORMANCE CURVES UNIT SIZE 6 - STANDARD HW COIL

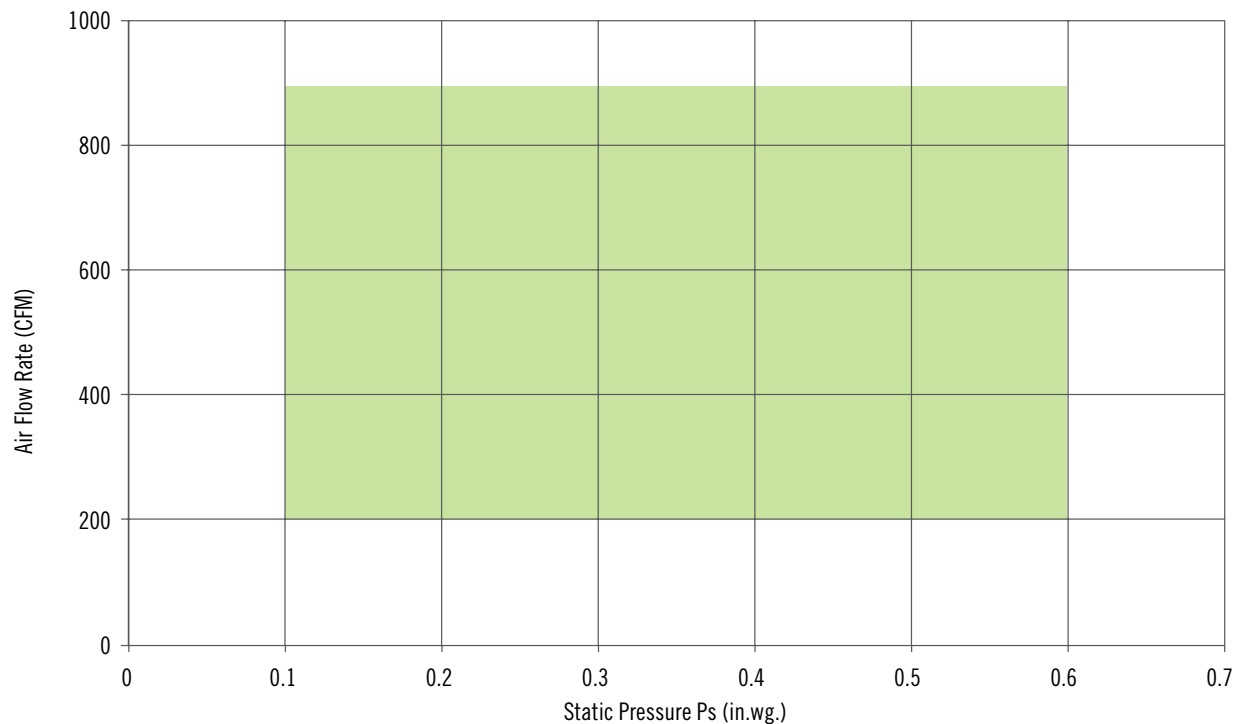


## FCI-600 FAN PERFORMANCE CURVES UNIT SIZE 7 - STANDARD HW COIL

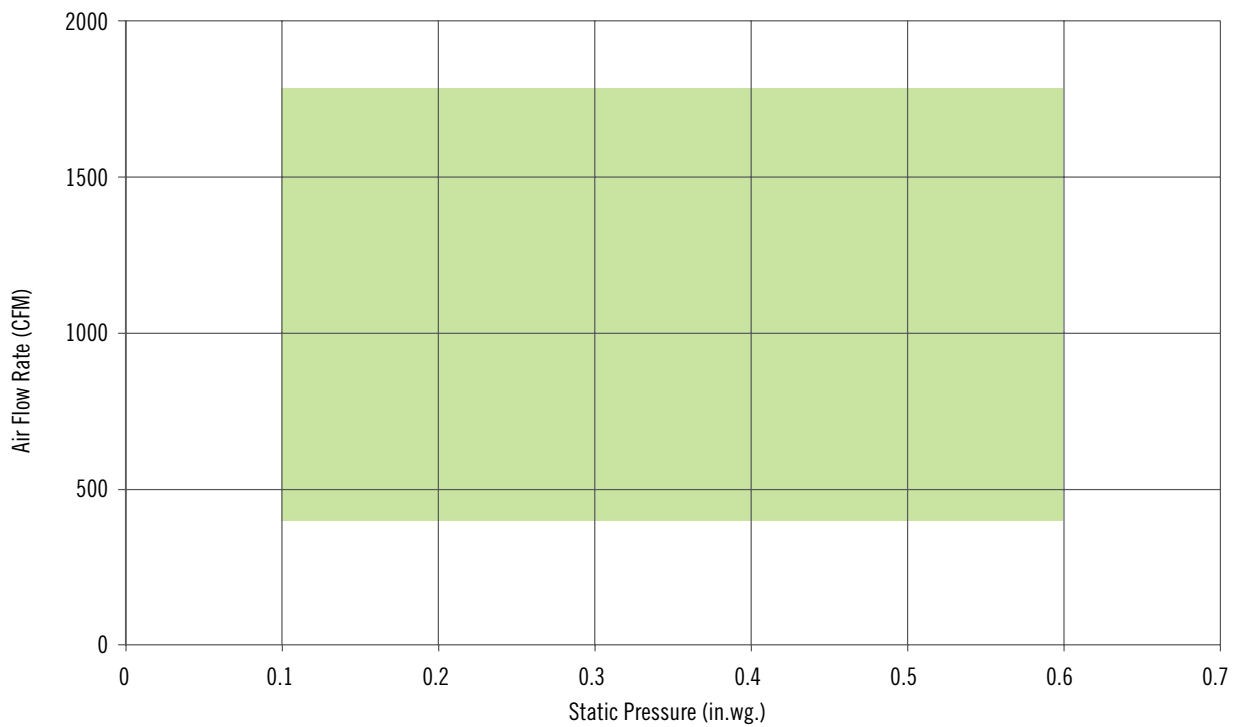




## FCI-600 ECM FAN PERFORMANCE CURVES CASE 2



## FCI-600 ECM FAN PERFORMANCE CURVES CASE 4

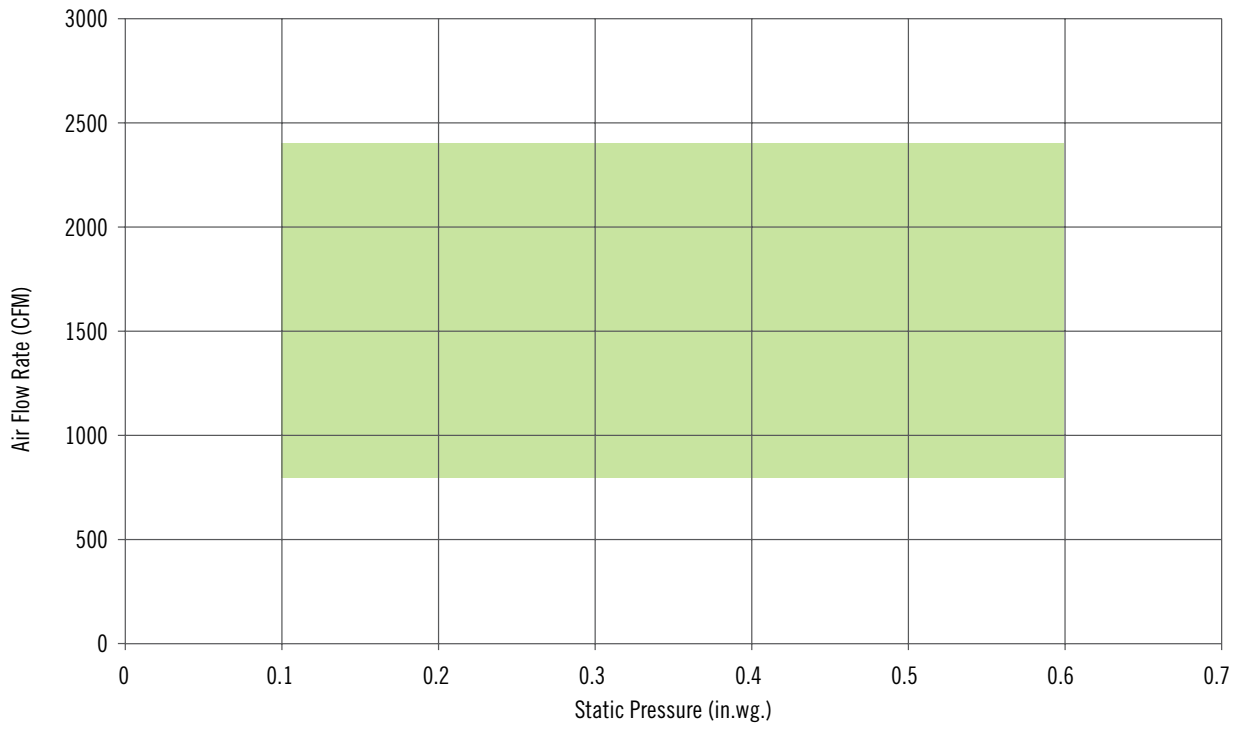


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FCI-600 CONSTANT VOLUME



## FCI-600 ECM FAN PERFORMANCE CURVES CASE 6



SERIES  
FAN POWERED

FCI-600 CONSTANT VOLUME