# FCMA5

Communicating Variable–Speed Multipoise Fan Coil with R-454B Refrigerant Sizes 24 thru 60

# Comfortmaker



**Product Data** 

ICP's command of ECM technology may be most evident in the comfort advantages that an ECM can deliver. For true comfort, the homeowner can achieve command of both temperature and humidity in cooling and heating modes.

Another feature which sets the FCMA5 apart is the factory-installed TXV, which enhances efficiency and provides compressor-protecting operation at all recommended conditions. Grooved tubing, louvered aluminum fins, and the large face areas of the FCMA5 refrigerant coils also provide superior efficiency, for high SEER2 and HSPF2 performance.

ICP leads the way in condensate control, a hallmark of these multipoise fan coils. All of these featured components are protected within a rugged, pre-painted metal cabinet lined with super-thick, high-density insulation. For neat, high quality installations, the unit exterior features sweat refrigerant connections for simple leak free performance, and multiple electrical entry for both high and low voltage service.

Assembled at the factory compliant with low leak requirements of less than 2% cabinet leakage rate at 1.0 inches W.C. and 1.4% cabinet leakage rate at 0.5 inches W.C. when tested in accordance with ASHRAE 193 standard.

# FEATURES

A200369A

# **Smart Diagnostics**

- Self configuring (ease of installation).
- Easier troubleshooting, providing faster service and repair.
- Energy Tracking capability with the Ion Wall Control. (Energy Tracking has the ability to monitor and estimate the energy consumption of your Ion system.)
- Compatibility with wall control depends on software version. Check the installation instructions for minimum requirements.

# Environmentally Responsible Refrigerant Technology

- R-454B refrigerant the low-GWP, chlorine-free, non-ozone depleting refrigerant.
- Refrigerant leak detection dissipation system for added safety and peace of mind for the homeowner.
- Thermostatic Expansion Valve (TXV) designed to maximize performance with R-454B refrigerant. Bi-flow hard-shutoff with mechanical fittings.

# **Energy Efficient Operation**

- Electronically Commutated Motor (ECM) operates efficiently at all speeds.
- · Maximizes efficiency of heating and cooling systems.
- Ultra-low power consumption during fan only operation.

# **Comfort Control**

- Warm, comfortable heating air temperatures.
- Unmatched humidity control

# PREMIUM ENVIRONMENTALLY RESPONSIBLE FAN COIL

The latest in technology makes the FCMA5 fan coil models the most advanced air handlers available. With attention to quiet, efficient, and comfortable operation, International Comfort Products (ICP) has developed a new benchmark for homeowner comfort and ease of installation.

The FCMA5 utilizes the Ion® Control as a required accessory to enable state of the art smart-diagnostics capability. This enables faster troubleshooting, providing ease of service and repair. The FCMA5 also provides a 4-wire hook up with matching outdoor unit and the Ion Control. This makes installation simpler and a lot quicker than with conventional fan coils. The FCMA5 has advanced technology that allows the fan coil to self-configure with a matching outdoor unit and the Ion Control, cutting down on installation time. Always update to the latest software version when installing the FCMA5 fan coil.

The FCMA5 features R-454B refrigerant, the low-GWP (Global Warming Potential) and chlorine-free alternate that is the future for the residential heating and cooling industry. The FCMA5 using R-454B refrigerant maximizes performance for environmentally responsible systems. In addition to environmental safety, these systems are 30 to 40% more efficient than standard heating and cooling systems, thereby combining excellence in efficiency and environmental sustainability.

The FCMA5 provides these benefits due to ICP's command of Electronically Commutating Motor (ECM) technology. These motors are extremely efficient at all speeds, and enable the FCMA5 to operate at the correct speed to deliver airflow precisely, ensuring proper performance across a wide range of duct static pressures. This adaptive efficiency also makes installation quality easier to achieve for today's demanding homeowner.

# **Airflow and Sound Technology**

- Logarithmic spiral blower housings for high blower efficiency and quiet operation.
- Diffuser air discharge section for high airflow efficiency and quiet, smooth operation.
- High duct static capability.
- Design meets stringent regulations for cabinet air leakage of less than 2% when tested at 1.0 inches W.C., and cabinet air leakage less than 1.4% at 0.5 inches W.C. when tested in accordance with ASHRAE 193 standard.

# **Condensate Control and Disposal Technology**

- Minimal standing water less microbial growth for improved IAQ and reduced condensate line clogging and related condensate leakage.
- Condensate fittings relocated away from turbulent airflow patterns at the blower entrance for improved condensate control performance.
- Overflow feature for slope coil units allows condensate to exit the unit without damage to product under clogged primary and secondary line conditions.
- Tested for condensate disposal at conditions much more severe than those required by ARI.
- Primary and secondary drain connections to comply with HUD.
- All pans constructed of an injection molded glass-filled polycarbonate engineered resin material, with brass drain connections.
- High density, super thick cabinetry insulation with vapor barrier.
- Pre-painted galvanized sheet metal cabinet.

# Heat Transfer Technology

- Grooved tubing.
- Lanced sine wave aluminum fins.
- Discreet refined counterflow refrigerant circuitry.
- · Bi-flow hard-shutoff TXV metering device with mechanical fittings.

# Quality Assisting, Ease of Installation and Service Features

- Easy 4-wire hook up: convenient and reduces installation time.
- Multipoise unit.
- Provision made for suspending from roof or ceiling joints.
- · Sweat connections for leak free service.
- Straight stub-outs on liquid and vapor service lines, long enough to either swage for brazing or use for brazeless press fittings.
- Multiple electrical entry for application flexibility (high and low voltage).
- Low voltage terminal strip, to safely hold connections within the cabinet.
- Cabinet construction features innovations designed to prevent cabinet sweating.

# **Controls and Electrical Features**

- Easy plug connection provided for quick installation of accessory heater packages.
- 40VA 208/230v transformer.
- Replaceable 3-amp blade-type auto fuse protects against transformer secondary short.

# **Filter Features**

- Factory supplied filter.
- · Standard sized filter rack fits most common size replacement filters.

## Warranty

- 5-year No Hassle Replacement limited warranty:
  - 10-year parts limited warranty with timely registration\*.
     Equipment must be registered within 90 days of original installation, except in jurisdictions where warranty benefits cannot be conditioned on registration.
  - \* Applies to original purchaser/homeowner and not available to subsequent owners, except in jurisdictions where laws dictate otherwise.

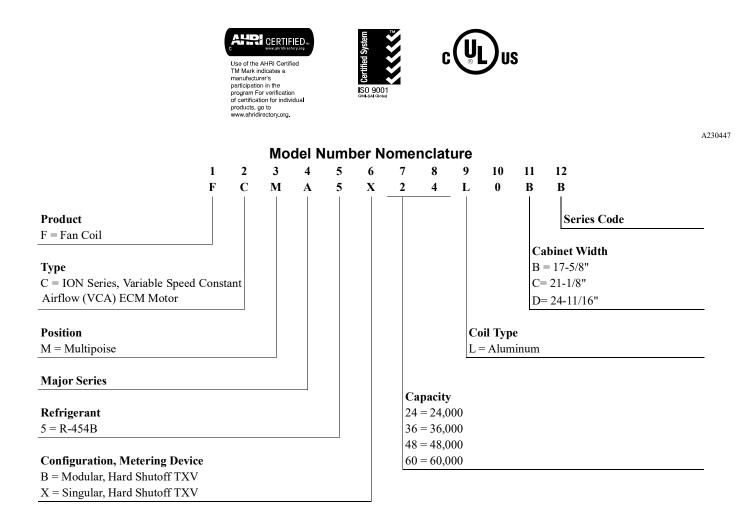


Table	1 ·	- Model	s Available
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2 Ton	3 Ton	4 Ton	5 Ton
FCMA5X24L0BB	FCMA5B36L0CB	FCMA5B48L0CB	FCMA5B60L0DB

3

# DIMENSIONS

LOCATIONS FOR UPFLOW OR HORIZ. APPLICATIONS

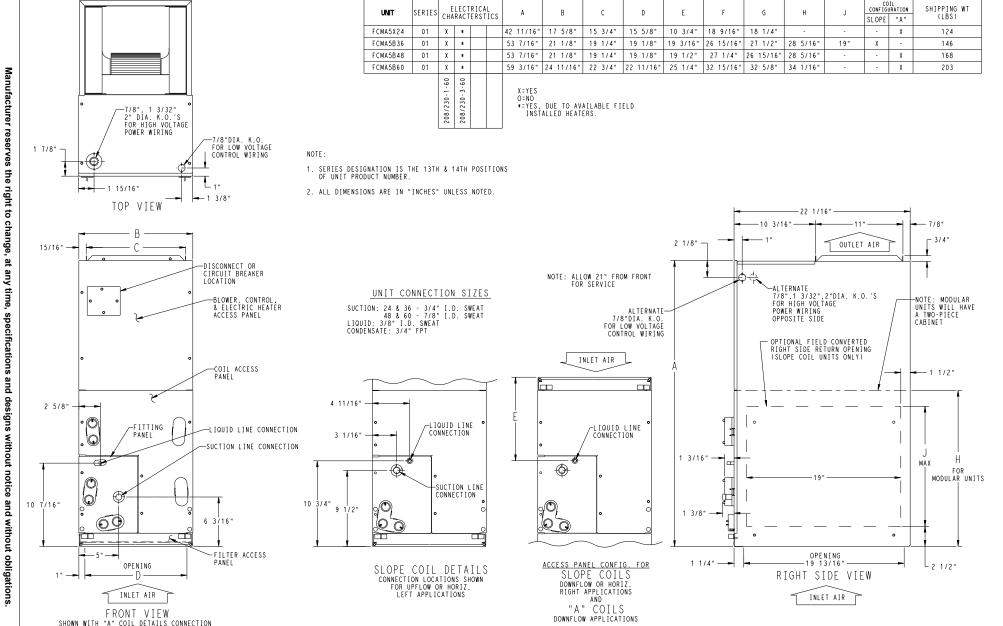


Fig. 1 – FCMA5 Dimensional Drawing, sheet 1

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FCMA5: Product Data

# **DIMENSIONS** (cont.)

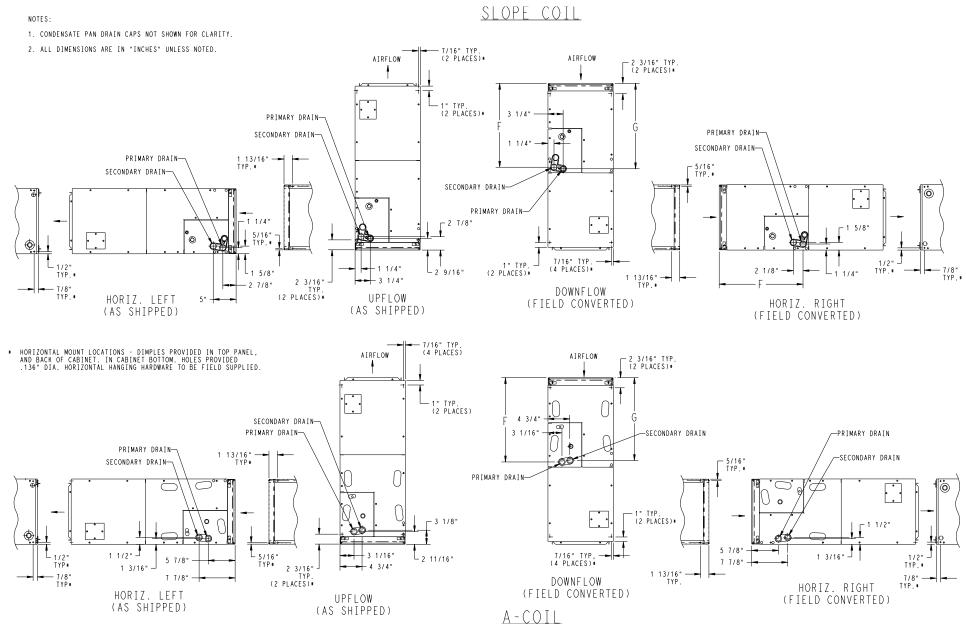
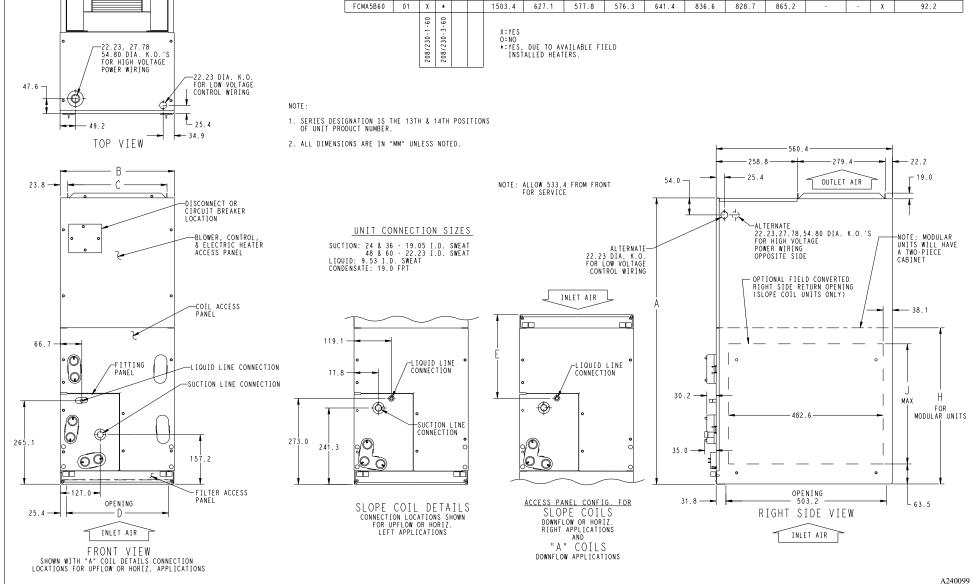


Fig. 2 – FCMA5 Dimensional Drawing, sheet 2

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Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations. J



ELECTRICAL CHARACTERSTICS

Α

1084.3

1357.3

1357.3

В

447.7

536.6

536.6

С

400.0

489.0

489.0

D

396.9

485.8

485.8

Ε

273.0

487.4

495.3

F

471.5

684.2

692.2

G

463.6

698.5

684.2

Н

719.1

719.1

J

482.6

-

UNIT

FCMA5X24

FCMA5B36

FCMA5B48

SERIES

01 x .

01

01 X \*

Х .

# **DIMENSIONS** (cont.)

Manufacturer reserves the right to change, at any time, specifications and designs without notice ი and without obligations.

Fig. 3 - FCMA5 Dimensional Drawing, sheet 3

COIL CONFIGURATION

Х

SLOPE " A "

χ

χ SHIPPING WT

(Kgs)

56.3

66.3

76.3

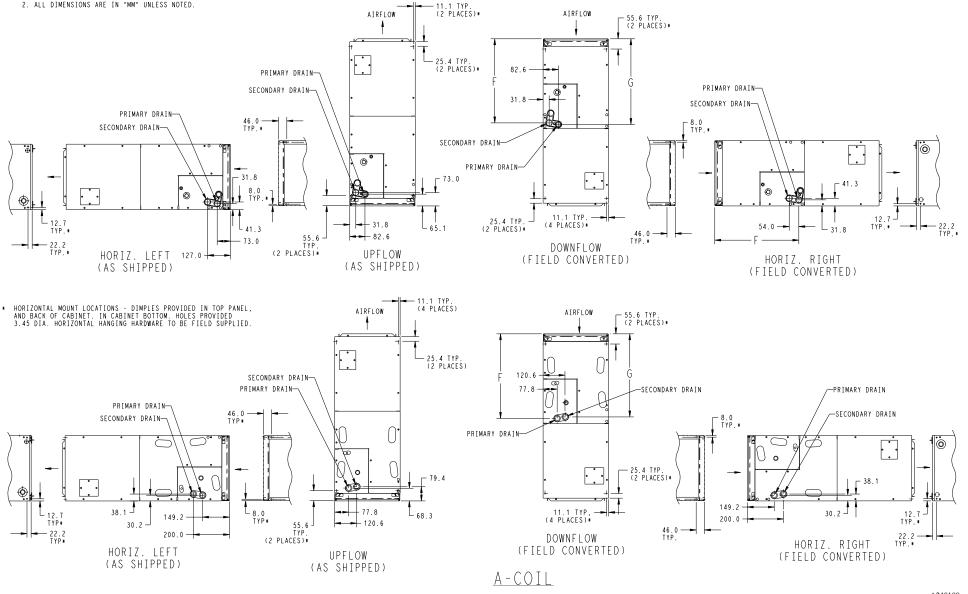
# **DIMENSIONS** (cont.)

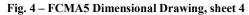
NOTES:

# SLOPE COIL



2. ALL DIMENSIONS ARE IN "MM" UNLESS NOTED.





A240100

	FIELD-INSTALLED HEAT	NOMINAL COOLING	DIM	ENSIONS (In/m	ım)	SHIPPING WEIGHT
SIZE (TON)	(kW)	CAPACITY (BTUH)	HEIGHT	WIDTH	DEPTH	(LBS / KG)
24 (2)	5, 8, 9, 10, 15, 20	18,000 to 36,000	42-11/16 in 1084.3 mm	17-5/8 in 447.7 mm	22-1/16 in 560.4 mm	124 lbs / 56.3 kg
36 (3)	5, 8, 9, 10, 15, 18, 20	24,000 to 42,000	53-7/16 in 1357.3 mm	21-1/8 in 536.6 mm	22-1/16 in 560.4 mm	146 lbs / 66.3 kg
48 (4)	5, 8, 9, 10, 15, 18, 20, 24, 30	30,000 to 48,000	53-7/16 in 1357.3 mm	21-1/8 in 536.6 mm	22-1/16 in 560.4 mm	168 lbs / 76.3 kg
60 (5)	5, 8, 9, 10, 15, 18, 20, 24, 30	36,000 to 60,000	59-3/16 in 1503.4 mm	24-11/16 in 627.1 mm	22-1/16 in 560.4 mm	203 lbs / 92.2 kg

### Table 2 – Physical Data

### Table 3 – Specifications

Size	24	36	48	60
	COIL		•	
Refrigerant Metering Device		R-454	BTXV	
TXV Size	2 Ton	3 Ton	4 Ton	5 Ton
Rows/Fins Per In.		3/1	4.5	1
Face Area (Sq. Ft.)	3.46	3	5.93	7.42
Configuration	A	Slope		A
	BLOWER AND MOTO	DR	I	
Air Discharge		Upflow, Down	low, Horizontal	
CFM (Nominal Cooling/Heating)	525	700	875 1050	1050
	700	875		1225
	875	1050	1225	1400
	1050	1225	1400	1750
Motor HP (ECM)	1/2			3/4
FILTER SIZE (W x L), in (mm)	16 x 20 (406 x 508) 20 x		508 x 508)	24 x 20 (610 x 508)
CABINET CONFIGURATION OPTIONS	1 Piece		Modular	

# PERFORMANCE DATA AIRFLOW DELIVERY — COOLING, HEATING, ELECTRIC HEATING MODES

These fan coils will provide airflow at a rate that is requested by the Integrated System User Interface during air conditioning or heat pump heating (without electric heat) modes. The nominal airflow for both heating and cooling modes is 350 cfm/ton nominal size of the outdoor unit installed. The airflow actually requested by the User Interface is modified by its internal algorithms for zoning, comfort or efficiency concerns. Refer to the documentation for the User Interface for more information on how the User Interface controls the fan coil. Safe operation of electric heaters requires airflow delivery at or above the minimum CFM for electric heater application listed in the chart below. The fan coil will adjust its airflow delivery to maintain safe airflow as operating mode and staging conditions require. See Table 4.

# Table 4 – Airflow Delivery (CFM) — Electric Heating Modes

FAN UNIT	OUTDOOR UNIT					ELEC		TER kW R	ANGE					
SIZE	CAPACITY		0-5			0-10			0-15			0-20		
(TON)	BTUH	Lo	Nom	High	Lo	Nom	High	Lo	Nom	High	Lo	Nom	High	
	18,000	700	700	805	750	750	863	_	_	_		_	_	
24 (2)	24,000	700	700	805	750	750	863	1050	1050	1208		_		
24 (2)	30,000	875	875	1006	875	875	1006	1050	1050	1208	1200	1200	1380	
	36,000	1050	1050	1208	1050	1050	1208	1050	1050	1208	1200	1200	1380	
	24,000	700	700	805	750	750	863	1050	1050	1208	1225	_		
aa (a)	30,000	875	875	1006	875	875	1006	1050	1050	1208	1225	_	_	
36 (3)	36,000	1050	1050	1208	1050	1050	1208	1050	1050	1208	1225	1225	1409	
	42,000	1225	1225	1409	1225	1225	1409	1225	1225	1409	1225	1225	1409	
FAN UNIT	OUTDOOR UNIT					ELEC		TER kW R	ANGE					
SIZE	CAPACITY		0-10			0-15			0-20			0-30		
(TON)	BTUH	Lo	Nom	High	Lo	Nom	High	Lo	Nom	High	Lo	Nom	High	
	30,000	1000	1000	1150	1200	1200	1380	_	_	_	_	_	_	
40 (4)	36,000	1100	1100	1265	1200	1200	1380	1300	1300	1495	—	_	—	
48 (4)	42,000	1225	1225	1409	1225	1225	1409	1350	1350	1553	_	_	_	
	48,000	1400	1400	1610	1400	1400	1610	1400	1400	1610	1500	1500	1725	
	36,000	1200	1200	1380	1250	1250	1438	1350	1350	1553				
60 (F)	42,000	1225	1225	1409	1300	1300	1495	1350	1350	1553	_	_		
60 (5)	48,000	1400	1400	1610	1400	1400	1610	1400	1400	1610	1750	1750	2013	
	60,000	1750	1750	2013	1750	1750	2013	1750	1750	2013	1750	1750	2013	

NOTE: Lo, Nom, and Hi refer to AC, HP, CFM ADJUST Section

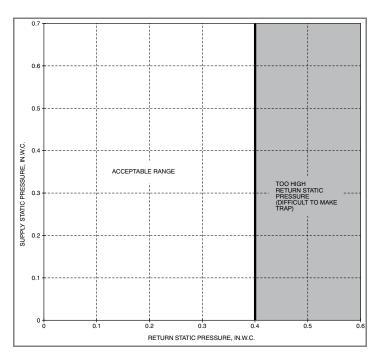
"--- " Airlow not recommended for heater/system size.

Table 5 – Minimum	CFM for Electri	c Heater Application <sup>*</sup>
Table 5 – Minimum	CIM IOI Electric	c meater Application

				CFM		
FAN COIL UNIT SIZE (TON)	HEAT PUMP UNIT SIZE (TON)			HEATER SIZE kW		
		5	8, 9, 10	12, 15	18, 20	24, 30
	Emergency	700	750	1050	1200	
	18 (1½)	700	750	1050	1200	—
24 (2)	24 (2)	700	750	1050	1200	—
	30 (21/2)	875	875	1050	1200	—
	36 (3)	1050	1050	1050	1200	—
	Emergency	700	750	1050	1225	
	24 (2)	700	750	1050	1225	—
36 (3)	30 (21/2)	875	875	1050	1225	—
	36 (3)	1050	1050	1050	1225	—
	42 (3½)	1225	1225	1225	1225	—
	Emergency	1000	1000	1200	1300	1450
	30 (21/2)	1000	1000	1200	1300	1450
48 (4)	36 (3)	1100	1100	1200	1300	1450
	42 (31/2)	1225	1225	1225	1350	1450
	48 (4)	1400	1400	1400	1400	1450
	Emergency	1200	1200	1300	1350	1750
	36 (3)	1200	1200	1250	1350	1750
60 (5)	42 (31/2)	1225	1225	1300	1350	1750
	48 (4)	1400	1400	1400	1400	1750
	60 (5)	1750	1750	1750	1750	1750

\*. These airflows are minimum acceptable airflows as UL listed. Actual airflow delivered will be per airflow delivery chart for Electric Heating Modes.

# ACCEPTABLE DUCT CONDITIONS



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# **Acceptable Duct Conditions**

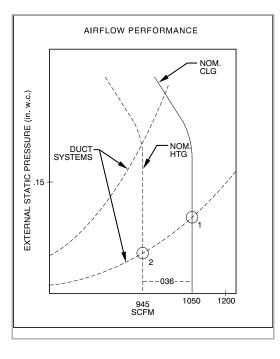
For satisfactory operation (specifically making dry secondary trap), subject fan coils must be installed with duct systems which fall within the "Acceptable Range" illustrated above.

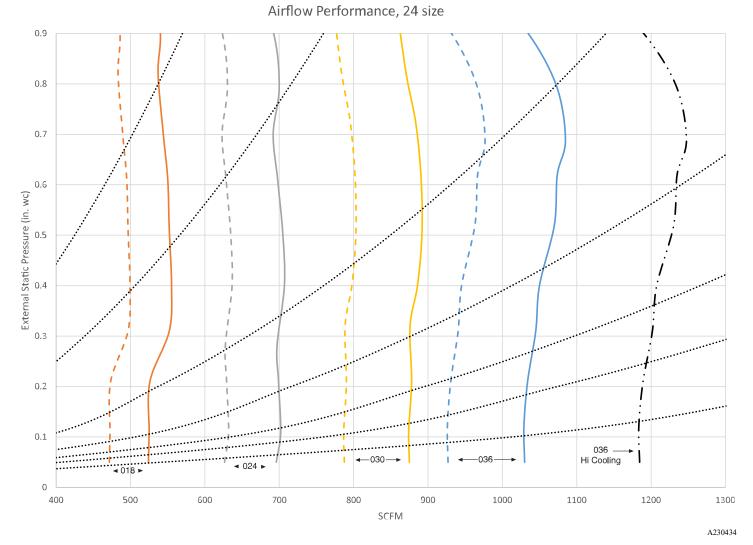
The airflow performance charts for the fan coil depict nominal airflow delivery for heating and cooling mode operation versus duct system static pressure drop. Cooling mode operation is shown as solid vertical lines for all 4 system size selections. Heating mode operation for the 4 system size selections are shown as dashed vertical lines.

The dotted curved lines are static pressure drop characteristics for several fixed-duct systems. These lines can be used to predict the system static pressure drop at any airflow given the actual drop at 1 known point.

For example, a duct system is designed for 0.15 in. water column (in. w.c.) drop at 1200 CFM. The 5-ton unit operating at nominal cooling airflow would deliver 1050 CFM with a duct system drop of 0.11 in. w.c. (See point 1 in the Airflow Performance/Static Pressure figure below.) On the same duct system, the 5-ton unit operating at nominal heating airflow would deliver 945 CFM with a duct system drop of 0.09 in. w.c. (See point 2.)

This example is but one of many possible duct system designs. The 5-ton unit will deliver the above airflows against much higher static pressures. The following airflow performance data was measured using the standard metal filter as shipped from the factory.

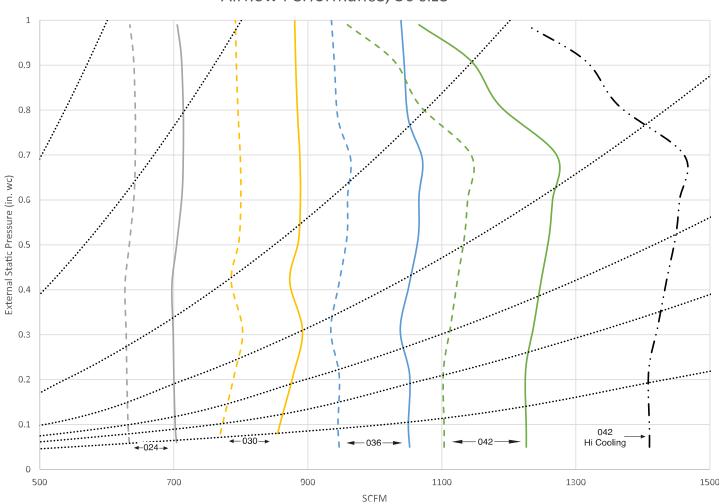




# 2 Ton

Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%. Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%. Maximum cooling airflow for largest size selection. Adjusted +15% from nominal. Fixed Duct Systems (See description under Acceptable Duct Conditions.)

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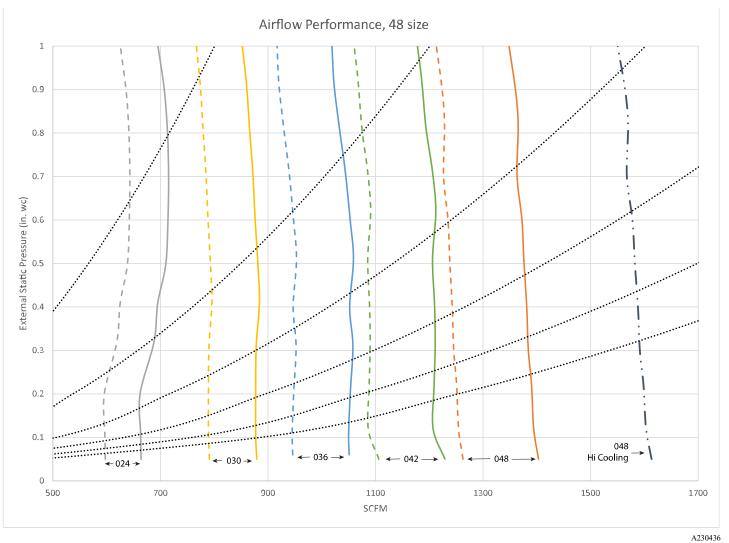
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# Airflow Performance, 36 size

3 Ton

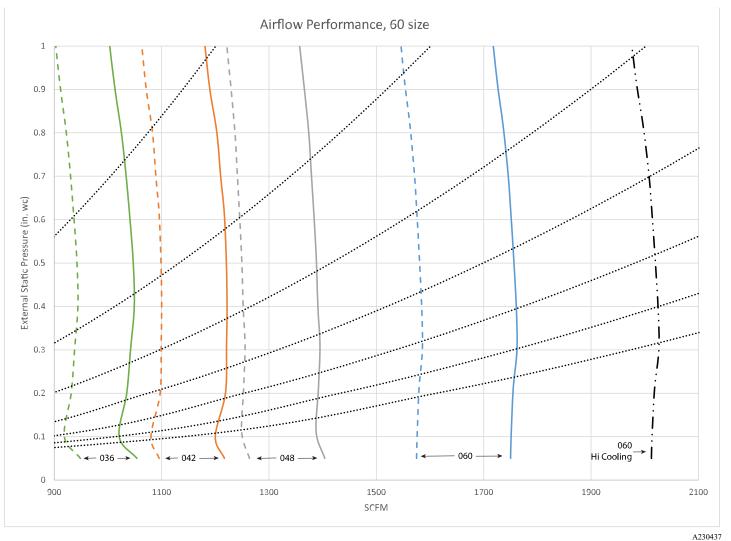
Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%. Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%. Maximum cooling airflow for largest size selection. Adjusted +15% from nominal. Fixed Duct Systems (See description under Acceptable Duct Conditions.)

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# 4 Ton

- Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%. Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
- •••• Maximum cooling airflow for largest size selection. Adjusted +15% from nominal. ••••• Fixed Duct Systems (See description under Acceptable Duct Conditions.)



# 5 Ton

Nominal Cooling and Heat Pump Efficiency airflow for each size selection. Airflow can be adjusted +15% to -10%.
 Nominal Heat Pump Comfort airflow for each size selection. Airflow can be adjusted +15% to -10%.
 Maximum cooling airflow for largest size selection. Adjusted +15% from nominal.
 Fixed Duct Systems (See description under Acceptable Duct Conditions.)

INDO	DOR				SA	TURATED	) TEMP	ERATUR	E LEAVI	NG EVA	PORATO	R (deg F	<sup>-</sup> )			
COIL			35			40			45			50			55	
CFM	EWB	TC	SHC	BF	тс	SHC	BF	тс	SHC	BF	тс	SHC	BF	тс	SHC	BF
		1	1	<u> </u>		ł	S	ZE 24	<u> </u>	I	I		1	1	ł	-
	72	37.50	19.04	0.00	33.96	17.17	0.00	29.95	15.18	0.00	25.35	13.07	0.00	20.11	10.83	0.00
525	67	30.71	19.50	0.00	27.01	17.49	0.00	22.82	15.38	0.00	18.08	13.17	0.00	12.92	10.93	0.00
	62	24.45	19.79	0.00	20.62	17.68	0.00	16.51	15.56	0.01	12.74	12.74	0.05	10.53	10.53	0.21
	72	46.28	23.46	0.00	42.01	21.31	0.00	37.11	18.99	0.00	31.54	16.50	0.00	25.10	13.80	0.01
700	67	38.08	24.46	0.01	33.62	22.14	0.01	28.52	19.62	0.01	22.62	16.92	0.01	16.16	14.14	0.01
	62	30.57	25.26	0.01	25.94	22.75	0.01	20.81	20.13	0.02	16.58	16.58	0.08	13.73	13.73	0.23
	72	53.42	27.14	0.00	48.58	24.80	0.00	42.99	22.24	0.00	36.57	19.46	0.00	29.26	16.44	0.01
875	67	44.14	28.75	0.02	39.07	26.18	0.02	33.23	23.40	0.01	26.53	20.34	0.02	19.00	17.14	0.02
	62	35.64	30.11	0.02	30.44	27.37	0.02	24.72	24.45	0.03	20.16	20.16	0.11	16.72	16.72	0.26
	72	59.25	30.25	0.00	54.00	27.79	0.01	47.91	25.05	0.02	40.85	22.05	0.02	32.69	18.77	0.02
1050	67	49.16	32.52	0.02	43.60	29.78	0.03	37.18	26.76	0.03	29.81	23.50	0.03	21.58	19.97	0.04
	62	39.88	34.49	0.03	34.24	31.56	0.03	28.13	28.41	0.04	23.44	23.44	0.14	19.43	19.43	0.28
	72	64.10	32.93	0.02	58.53	30.39	0.02	52.02	27.54	0.03	44.44	24.38	0.03	35.61	20.89	0.03
1225	67	53.37	35.88	0.04	47.43	33.02	0.04	40.52	29.84	0.04	32.58	26.37	0.04	23.87	22.63	0.05
	62	43.50	38.51	0.04	37.52	35.42	0.04	31.22	32.09	0.06	26.46	26.46	0.17	21.98	21.98	0.31
		10 -0			10.01		1	ZE 36	10.0-			10.00		o	10 -0	
	72	46.73	23.71	0.00	42.21	21.42	0.00	37.03	18.95	0.00	31.12	16.32	0.00	24.47	13.58	0.00
700	67	38.23	24.55	0.01	33.46	22.07	0.00	28.13	19.46	0.00	22.20	16.73	0.01	15.77	13.96	0.01
	62	30.47	25.19	0.01	25.73	22.64	0.01	20.64	20.02	0.02	16.45	16.45	0.08	13.57	13.57	0.24
075	72	54.14	27.50	0.00	49.01	25.01	0.00	43.08	22.29	0.00	36.32	19.31	0.01	28.48	16.14	0.01
875	67	44.54	28.96	0.01	39.13	26.21	0.02	32.90	23.21	0.02	25.90	20.10	0.01	18.55	16.94	0.02
	62 72	35.68 60.23	30.12 30.73	0.02	30.20 54.65	27.22 28.07	0.02	24.46 48.16	24.28 25.17	0.03	20.00 40.65	20.00 21.97	0.11	16.52 31.96	16.52 18.47	0.26
1050	67	49.80	32.84	0.00	43.85	20.07	0.02	36.97	25.17	0.01	29.12	21.97	0.02	21.00	19.69	0.02
1050	62	49.80	34.60	0.02	43.85 34.09	31.45	0.03	27.83	28.19	0.03	29.12	23.18	0.03	19.17	19.09	0.04
	72	40.12 65.33	33.52	0.03	59.35	30.77	0.03	52.41	27.71	0.04	44.36	23.19	0.14	34.94	20.62	0.29
1225	67	54.19	36.28	0.01	47.86	33.21	0.02	40.43	29.78	0.03	31.95	26.07	0.03	23.18	20.02	0.05
1225	62	43.93	38.70	0.04	37.54	35.38	0.04	30.91	31.83	0.04	26.14	26.14	0.04	21.63	21.63	0.31
	72	69.64	35.98	0.03	63.37	33.15	0.04	56.04	29.99	0.04	47.51	26.47	0.04	37.51	22.57	0.04
1400	67	57.94	39.40	0.05	51.25	36.22	0.04	43.43	32.67	0.04	34.46	28.78	0.04	25.18	24.72	0.07
	62	47.26	42.51	0.05	40.58	39.04	0.06	33.84	35.26	0.08	28.85	28.85	0.20	23.92	23.91	0.34
								ZE 48								
	72	55.50	29.11	0.00	50.59	26.54	0.00	44.88	23.71	0.00	38.24	20.63	0.00	30.68	17.36	0.00
875	67	45.72	30.33	0.00	40.45	27.50	0.00	34.52	24.46	0.00	27.67	21.20	0.00	19.98	17.78	0.00
	62	36.75	31.31	0.00	31.36	28.31	0.00	25.38	25.13	0.01	20.06	20.06	0.06	16.66	16.66	0.22
	72	62.61	32.86	0.00	57.23	30.14	0.00	50.90	27.09	0.00	43.49	23.73	0.00	34.84	20.06	0.00
1050	67	51.82	34.75	0.00	45.98	31.70	0.00	39.25	28.31	0.00	31.53	24.69	0.01	22.90	20.87	0.01
	62	41.81	36.27	0.01	35.78	32.96	0.01	29.15	29.47	0.01	23.60	23.60	0.08	19.62	19.62	0.24
	72	68.60	36.10	0.00	62.85	33.28	0.00	56.08	30.11	0.00	48.02	26.55	0.00	38.54	22.55	0.00
1225	67	57.05	38.72	0.01	50.81	35.50	0.01	43.41	31.92	0.00	34.94	27.95	0.01	25.54	23.82	0.01
	62	46.23	40.86	0.01	39.68	37.32	0.01	32.60	33.60	0.02	26.95	26.95	0.10	22.46	22.46	0.25

### Table 6 - Cooling Capacities (MBtuh)

	1400         67         61.55         42.32         0.01         54.96         38.99         0.01         47.17         35.23         0.01         37.95         31.04         0.01         27.97         26.64         0.															
	72	73.71	38.97	0.00	67.64	36.08	0.00	60.51	32.80	0.00	52.06	29.07	0.01	41.85	24.88	0.01
1400	67	61.55	42.32	0.01	54.96	38.99	0.01	47.17	35.23	0.01	37.95	31.04	0.01	27.97	26.64	0.02
	62	50.14	45.16	0.02	43.27	41.48	0.02	35.80	37.53	0.03	30.14	30.14	0.12	25.15	25.15	0.27
	72	78.67	41.89	0.00	72.30	38.96	0.00	64.83	35.58	0.01	55.92	31.76	0.01	45.16	27.34	0.02
1600	67	65.91	46.06	0.02	59.04	42.67	0.02	50.80	38.77	0.02	41.09	34.39	0.02	30.45	29.70	0.03
	62	54.03	49.74	0.02	46.89	45.95	0.03	39.16	41.76	0.04	33.49	33.49	0.15	28.02	28.02	0.29
	72	81.90	43.87	0.01	75.39	40.88	0.01	67.68	37.48	0.02	58.47	33.58	0.02	47.34	29.06	0.02
1750	67	68.76	48.66	0.02	61.68	45.22	0.02	53.22	41.25	0.02	43.19	36.78	0.02	32.18	31.88	0.04
	62	56.62	52.98	0.03	49.32	49.11	0.03	41.57	41.19	0.05	35.82	35.82	0.17	30.02	30.02	0.30
							SI	ZE 60								
	72	79.55	38.39	0.00	72.99	35.30	0.00	65.21	31.82	0.00	56.07	27.96	0.00	45.28	23.69	0.00
1050	67	65.98	40.54	0.00	58.84	37.05	0.00	50.47	33.18	0.00	40.84	28.98	0.00	29.88	24.50	0.00
	62	53.30	42.23	0.00	45.80	38.43	0.00	37.36	34.36	0.01	29.92	29.92	0.07	24.95	24.95	0.22
	72	87.50	42.31	0.00	80.43	39.08	0.00	72.12	35.46	0.00	62.20	31.35	0.00	50.39	26.76	0.00
1225	67	72.90	45.29	0.00	65.20	41.61	0.00	56.12	37.49	0.00	45.43	32.88	0.00	33.42	28.01	0.01
	62	59.18	47.71	0.01	50.98	43.61	0.01	41.86	39.23	0.01	34.26	34.26	0.08	28.63	28.63	0.23
	72	94.29	45.76	0.00	86.84	42.45	0.00	78.04	38.71	0.00	67.56	34.46	0.00	54.92	29.60	0.00
1400	67	78.85	49.60	0.01	70.71	45.82	0.00	61.08	41.50	0.01	49.58	36.61	0.01	36.65	31.38	0.01
	62	64.33	52.82	0.01	55.68	48.55	0.01	45.98	43.88	0.02	38.38	38.38	0.10	32.14	32.14	0.25
	72	100.91	49.28	0.00	93.10	45.91	0.00	83.86	42.08	0.00	72.84	37.68	0.00	59.46	32.60	0.01
1600	67	84.67	54.09	0.01	76.18	50.22	0.01	66.02	45.76	0.01	53.86	40.66	0.01	40.02	35.07	0.02
	62	69.49	58.29	0.01	60.49	53.89	0.01	50.41	49.00	0.02	42.85	42.85	0.13	35.97	35.97	0.26
	72	105.21	51.67	0.00	97.24	48.25	0.01	87.70	44.38	0.01	76.28	39.90	0.01	62.50	34.70	0.01
1750	67	88.49	57.22	0.01	79.74	53.27	0.01	69.29	48.78	0.01	56.75	43.55	0.01	42.37	37.74	0.02
	62	72.94	62.18	0.02	63.73	57.71	0.02	53.59	52.69	0.03	46.02	46.02	0.14	38.71	38.71	0.28
	72	111.40	55.29	0.01	103.09	51.86	0.01	93.23	47.91	0.01	81.31	43.32	0.01	66.94	38.00	0.01
2000	67	93.99	62.07	0.02	84.88	58.05	0.02	74.05	53.44	0.02	61.00	48.09	0.02	46.00	41.99	0.03
	62	77.95	68.26	0.02	68.57	63.72	0.03	58.99	58.28	0.06	51.02	51.02	0.17	42.96	42.96	0.30

CFM - Cubic Ft per Minute

SHC - Gross Sensible Capacity 1000 Btuh BF - Bypass Factor

### NOTES:

- 1. Contact manufacturer for cooling capacities at conditions other than shown in table.
- 2. Formulas:

Leaving db = entering db -sensible heat cap. 1.09 x CFM

Leaving wb = wb corresponding to enthalpy of air leaving coil  $(h_{lwb})$ 

 $h_{lwb} = h_{ewb} - total capacity (Btuh)$ 

# 4.5 x CFM

where  $h_{ewb}$  = enthalpy of air entering coil. Direct interpolation is permissible. Do not extrapolate.

- 3. SHC is based on 80°F (27°C) db temperature of air entering coil. Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC. Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
- 4. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

EWB - Entering Wet Bulb (°F / °C) LWB - Leaving Wet Bulb (°F / °C) TC - Gross Cooling Capacity 1000 Btuh

MBH - 1000 Btuh

# SHC CORRECTION FACTOR

	ENT	ERING AI	R DRY-BU	LB TEMP	PERATUR	E (°F)
	79	78	77	76	75	Under 75
BYPASS FACTOR	81	82	83	84	85	Over 85
			Correctio	on Factor		
0.10	.098	1.96	2.94	3.92	4.91	Use
0.20	0.87	1.74	2.62	3.49	4.36	formula
0.30	0.76	1.53	2.29	3.05	3.82	shown below

Interpolation is permissible.

Correction Factor =  $1.09 \times (1 - BF) \times (db - 80)$ 

		CONDITIONS			OCTAVE BA	ND CENTER F	REQUENCY	ł	
UNIT SIZE	CFM	Ext Static Pressure	63	125	250	500	1000	2000	4000
	400	0.50	69.0	65.0	61.0	58.0	56.0	54.0	50.0
	600	0.50	70.8	66.8	62.8	59.8	57.8	55.8	51.8
24	800	0.50	72.0	68.0	64.0	61.0	59.0	57.0	53.0
24	1000	0.50	73.0	69.0	65.0	62.0	60.0	58.0	54.0
	1200	0.50	73.8	69.8	65.8	62.8	60.8	58.8	54.8
	1400	0.50	74.4	70.4	66.4	63.4	61.4	59.4	55.4
	400	0.50	69.0	65.0	61.0	58.0	56.0	54.0	50.0
	600	0.50	70.8	66.8	62.8	59.8	57.8	55.8	51.8
	800	0.50	72.0	68.0	64.0	61.0	59.0	57.0	53.0
36	1000	0.50	73.0	69.0	65.0	62.0	60.0	58.0	54.0
	1200	0.50	73.8	69.8	65.8	62.8	60.8	58.8	54.8
	1400	0.50	74.4	70.4	66.4	63.4	61.4	59.4	55.4
	1600	0.50	75.0	71.0	67.0	64.0	62.0	60.0	56.0
	400	0.50	69.0	65.0	61.0	58.0	56.0	54.0	50.0
	600	0.50	70.8	66.8	62.8	59.8	57.8	55.8	51.8
	800	0.50	72.0	68.0	64.0	61.0	59.0	57.0	53.0
48	1000	0.50	73.0	69.0	65.0	62.0	60.0	58.0	54.0
	1200	0.50	73.8	69.8	65.8	62.8	60.8	58.8	54.8
	1400	0.50	74.4	70.4	66.4	63.4	61.4	59.4	55.4
	1600	0.50	75.0	71.0	67.0	64.0	62.0	60.0	56.0
	600	0.50	70.8	66.8	62.8	59.8	57.8	55.8	51.8
	800	0.50	72.0	68.0	64.0	61.0	59.0	57.0	53.0
	1000	0.50	73.0	69.0	65.0	62.0	60.0	58.0	54.0
	1200	0.50	73.8	69.8	65.8	62.8	60.8	58.8	54.8
60	1400	0.50	74.4	70.4	66.4	63.4	61.4	59.4	55.4
	1600	0.50	75.0	71.0	67.0	64.0	62.0	60.0	56.0
	1800	0.50	75.5	71.5	67.5	64.5	62.5	60.5	56.5
	2000	0.50	76.0	72.0	68.0	65.0	63.0	61.0	57.0
	2150	0.50	76.3	72.3	68.3	65.3	63.3	61.3	57.3

 Table 7 – Estimated Sound Power Level of Airflow from Duct (dB)

\*. Estimated sound power levels have been derived using the method described in the 1987 ASHRAE HVAC Systems & Applications Handbook, Chapter 52, p. 52.7.

Table 8 – Air Delivery Perfor	mance Correction Componen	t Pressure Drop (in. wc) at Ind	licated Airflow (Dry to Wet Coil)

UNIT	CFM													
SIZE	600	700	800	900	1000	1100	1200	1300	1400	1500	1600			
24	0.012	0.016	0.022	0.028	0.034	0.040	0.049	_	_	—	—			
36		0.026	0.034	0.042	0.052	0.063	0.075	0.083	0.091	0.098	0.110			
48		0.006	0.008	0.010	0.012	0.015	0.017	0.020	0.023	0.027	0.030			
			I			CFM	I				P.			
	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100			
60	0.013	0.016	0.018	0.020	0.023	0.027	0.030	0.034	0.039	0.044	0.048			

## Table 9 – Factory-Installed Filter Static Pressure Drop (in wc)

		CFM										
Size	400	600	800	1000	1200	1400	1600	1800	2000			
24	0.020	0.044	0.048	0.072	0.100	_	_	—	_			
36	—	0.020	0.035	0.051	0.070	0.092	_	_	_			
48	—	—	0.035	0.051	0.070	0.092	0.120	—	_			
60	_			0.038	0.053	0.070	0.086	0.105	0.133			

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

UNIT SIZE	VOLTS/PH/HZ	MTR HP	MTR FLA	SINGLE	CIRCUIT	BRANCH CIRCUIT
UNIT SIZE	VOLIS/FH/HZ	мікпг		МСА	МОСР	Min Wire Size Awg*
24	208/230/1/60	1/2	4	5	15	14
36	208/230/1/60	1/2	4	5	15	14
48	208/230/1/60	3/4	5.7	7.1	15	14
60	208/230/1/60	3/4	5.7	7.1	15	14

\* Use copper wire only to connect unit. If other than uncoated (non-plated) 75°C ambient, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used consult applicable tables of the National Electric Code (ANSI/NFPA 70).
 NOTE: If branch circuit wire length exceeds 100 ft / 30.5 m, consult NEC 210-19a to determine maximum wire length. Use 2% voltage drop.
 FLA - Full Load Amps

		Table 11 –	Electrical Data f	or Units with Factory	-Installed Heat		
HEATER PART NO.	$\Delta I = R P \Delta R I N O = KW (a) 240 V = V O I I S P H = 1$		STAGES (kW OPERATING)	INTERNAL CIRCUIT PROTECTION	USED WITH OUTDOOR UNIT SIZE	HEATING CAP. <sup>‡</sup> @ 230V	INTELLIGENT HEAT CAPABLE <sup>*</sup> (kW)
EHC05BKN	5	230/1	5	None	All	15,700	-
EHC07BKN	8	230/1	8	None	All	25,100	-
EHC10BKN	10	230/1	10	None	All	31,400	-
EHC15BKF	15	230/1	5, 15	Fuse <sup>†</sup>	All	47,100	5, 10, 15
EHC20BKF	20	230/1	5, 20	Fuse <sup>†</sup>	30 thru 60	62,800	5, 15, 20
EHC09BKCN	9	230/1‡	3, 9	None	36 thru 60	28,200	3, 6, 9
EHC15BHN	15	230/3	5, 15	None	36 thru 60	47,100	-
EHC18BHN	18	230/3	6, 12, 18	None	42 thru 60	56,500	-
EHC25BHCF	24	230/1**	8, 16, 24	Fuse	48, 60	78,300	8, 16, 24
EHC30BHCF	30	230/1**	10, 20, 30	Fuse	48, 60	94,100	10, 20, 30
EHC05BKB	5	230/1	5	Circuit Breaker	All	15,700	-
EHC07BKB	8	230/1	8	Circuit Breaker	All	25,100	-
EHC10BKB	10	230/1	10	Circuit Breaker	All	31,400	-
EHC15BKB	15	230/1	5, 15	Circuit Breaker	All	47,100	5, 10, 15
EHC20BKB	20	230/1	5, 20	Circuit Breaker	30 thru 60	62,800	5, 15, 20

\*. Heaters designed with kW operating values are intelligent heat capable when used with compatible thermostat.
†. Single circuit application of F15 and F20 heaters requires Single-point wiring kit accessory.
‡. Field convertible to 3 phase.
\*\*. These heaters are field convertible to 1 phase, single or multiple supply circuit.

NOTE: for 240 volts, multiply 230V heater amps by 1.04.

HEATER kW	PHASE	FUSES QTY / SIZE	CKT BKR QTY / SIZE*
5	1	_	1/60
8	1	_	1/60
9	1/3	_	_
10	1	_	1/60
15	1	2/30, 2/60	2/60
15	3	_	_
18	3	_	_
20	1	4/60	2/60
24	1/3	6/60	_
30	1/3	6/60	—

\* All circuit breakers are 2 pole.

								-							BRA		CUIT			
FC Size	HEATER PART NO.	k	w	P H A	Internal Circuit		HEATER AMPS 208/230V <sup>*</sup>			MIN AMPACITY 208/230V <sup>*</sup>				Min Wire Size (AWG) 208/230V <sup>†</sup>			Size	-	Fuse/Ckt os 208/23	
Size				SE	Protection	Single	Dual (	Circuit	Siligie		Dual Circuit		Dual C	Circuit	Single	Dual (	Circuit	Single	Dual Circuit	
		240V	208V			Circuit	L1,L2	L3,L4	Circuit	L1,L2	L3,L4	Circuit	L1,L2	L3,L4	Circuit	L1,L2	L3,L4	Circuit	L1,L2	L3,L4
24-36	EHC05BKN	5	3.8	1	None	17.8/19.7	—		27.6/30.0	—	—	10/10	-	-	10/10		—	30/30	—	—
24-36	EHC05BKB	5	3.8	1	Ckt Bkr	17.8/19.7	—		27.6/30.0	—	—	10/10			10/10		_	30/30	_	—
48-60	EHC05BKN	5	3.8	1	None	17.8/19.7	—	-	29.9/32.3	—	—	10/8	_	_	10/10	_	_	30/35	_	—
48-60	EHC05BKB	5	3.8	1	Ckt Bkr	17.8/19.7	_	-	29.9/32.3	_	_	10/8	-		10/10	I	_	30/35	—	—
24-60	EHC07BKN	8	6.0	1	None	28.5/31.5	—	_	43.3/47.0	—	—	8/8	-	_	10/10		_	45/50	_	—
24-60	EHC07BKB	8	6.0	1	Ckt Bkr	28.5/31.5	—		43.3/47.0	_	_	8/8	Ι	I	10/10	Ι	—	45/50	—	—
24-60	EHC10BKN	10	7.5	1	None	35.6/39.4	—	_	52.1/56.9	—	—	6/6	—	—	10/10	—	—	60/60	—	—
24-60	EHC10BKB	10	7.5	1	Ckt Bkr	35.6/39.4	—		52.1/56.9	_	_	6/6			10/10		-	60/60	—	—
24-60	EHC09BKCN <sup>‡</sup>	9	6.8	1	None	32.2/35.6	—	_	47.9/52.1	—	—	8/6	_	_	10/10	_	_	50/60	_	—
24-60	EHC09BKCN	9	6.8	3	None	18.6/20.6	_		30.9/33.4	_	_	8/8	-		10/10		_	40/40	_	_
24-60	EHC15BKF**	15	11.3	1	Fuse	53.4/59.1	35.6/39.4	17.8/19.7	74.4/81.5	44.5/49.3	22.3/24.6	4/4	6/6	10/10	8/8	10/10	10/10	80/90	60/60	25/25
24-60	EHC15BKB	15	11.3	1	Ckt Bkr	53.4/59.1	35.6/39.4	17.8/19.7	74.4/81.5	44.5/49.3	22.3/24.6	4/4	6/6	10/10	8/8	10/10	10/10	80/90	60/60	25/25
36-60	EHC15BHN	15	11.3	3	None	30.8/34.1	—	_	46.1/50.3	—	_	8/6	I		10/10		—	50/60	_	_
42-60	EHC18BHN	18	13.5	3	None	37.2/41.2	—	—	54.1/59.1	—	—	6/6	_	—	10/10	_	—	60/70	_	—
24-60	EHC20BKF**	20	15.0	1	Fuse	71.2/78.8	35.6/39.4	35.6/39.4	96.8/106.1	44.5/49.3	44.5/49.3	3/2	6/6	8/8	8/6	10/10	10/10	100/110	60/60	45/50
24-60	EHC20BKB	20	15.0	1	Ckt Bkr	71.2/78.8	35.6/39.4	35.6/39.4	96.8/106.1	44.5/49.3	44.5/49.3	3/2	6/6	8/8	8/6	10/10	10/10	100/110	60/60	45/50
48-60		24	18.0	3	Fuse	49.3/54.6	—	—	69.3/75.9	—	—	4/4	_	—	8/8	_	—	80/80	_	—
48-60	EHC25BHCF <sup>††</sup>	24	18.0	1	Fuse	85.5/94.5	_	-	114.5/125.8	_	_	2/1	-		6/6		_	125/150	_	_
48-60		30	22.5	3	Fuse	61.7/68.2	—	_	84.8/92.9	—	—	4/3	_	—	8/8	_	—	90/100	_	—
48-60	EHC30BHCF <sup>††</sup>	30	22.5	1	Fuse	106.8/118.1	—		141.1/155.3	_	_	0/00	Ι	_	6/6	_	_	150/175	_	—

### Table 13 – Electric Heater Electrical Data

\*. For 240V, multiply 230V heater amps by 1.04. Wire sizing and over-current protection may need adjustment per local code requirements.
 †. Copper wire must be used. If other than uncoated (non-plated), 75°C ambient, copper wire (solid wire for smaller, and stranded wire for larger than 10 AWG) is used, consult applicable tables of the National Electric Code (ANSI/NFPA 70).

Field convertible to 3 phase.
 \*\*. Single circuit application of F15 and F20 heaters requires single-point wiring kit accessory.
 ††. Field convertible to 1 phase, single or multiple supply circuit.

Table 14 – Field Mu	ltipoint Wiring or 24-	and 30-kW Single Phase

FC Size	HEATER PART NO.	k\	W PHASE		kW PHASE			ER AMPS 208	/230V	MIN AMPACITY 208/230V <sup>*</sup>			MIN WIRE SIZE (AWG) 208/230V <sup>†</sup>			MIN GND WIRE SIZE	MAX FUSE/CKT BKR AMPS 208/230V		
Size	Size	240V	208V	]	L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6	L1,L2	L3,L4	L5,L6	208/230V	L1,L2	L3,L4	L5,L6		
48-60	EHC25BHCF <sup>‡</sup>	24	18.0	1	28.5/31.5	28.5/31.5	28.5/31.5	43.3/47.0	35.6/39.4	35.6/39.4	8/8	8/8	8/8	10/10	50/50	40/40	40/40		
48-60	EHC30BHCF <sup>‡</sup>	30	22.5	1	35.6/39.4	35.6/39.4	35.6/39.4	52.1/56.9	44.5/49.3	44.5/49.3	6/6	8/8	8/8	10/10	60/60	45/50	45/50		

\*. Includes blower motor amps of largest fan coil used with heater.
†. Copper wire must be used. If other than uncoated (non-plated), 75°C ambient, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (ANSI/NFPA 70).
‡. Field convertible to 1 phase, single or multiple supply circuit.

# Accessories

# **REQUIRED ACCESSORY**

	ITEM	ACCESSORY PART NO.*	FAN COIL SIZE USED WITH
1.	Ion Control	SYST0101CW	All

## ADDITIONAL ACCESSORIES

ITEM		ACCESSORY PART NO.*	FAN COIL SIZE USED WITH
2	Ion Series 4 Zone Board	SYST0101ZP	All
3	Ion Series Smart Sensor	SYSTXZNSMS01	All
4	Ion Remote Room Sensor	SYSTXIIRRS01	All
5	Ion Series Network Interface Module	SYSTXCCNIM01	All
6	Disconnect Kit	EBAC01DSC3	Cooling controls and heaters 3—10-kW
7	Downflow Base Kit	EBAC02NCB	24, 36
		EBAC03NCB	48
		EBAC04NCB	60
8	Downflow Conversion Kit	EBAC01DFS	Slope Coil Units—36
		EBAC02DFA	A-Coil Units—24, 48, 60
9	Single-Point Wiring Kit	EBAC01SPK	Only with 15- and 20-kW Fused Heaters
10	Filter	See Table 3 for filter dimension details	
11.	Fan Coil Filter Cabinet (Fan Coil Filter Media)	AHIC0017A (FAIC0017A2)	24, 36
		AHIC0021A (FAIC0021A2)	48
		AHIC0024A (FAIC0024A2)	60
12	PVC Condensate Trap Kit (50 pack)	EBAC01CTK	All
13	Air Cleaner 240-volt Conversion Kit	KEAVC0201240	All
14	Downflow/Horizontal Conversion Gasket Kit	EBAC01GSK	All
15	Horizontal Water Management Kit (25 pack)	NAMA00125HC	All
16	Door Gasket Kit **	1191140	All
17	Hydronic Heat Interface Relay Kit	AFAINTHWC01A	All

\* Factory authorized and listed, field installed.
 \*\*This kit is for replacement of factory installed gaskets if they are damaged or removed from the fan coil.

# Accessory Kits Description Suggested and Required Use

## 1. Ion Control

Deluxe programmable wall-mounted system control without remote access.

### 2. Ion 4 Zone Board

4-Zone Damper Control Module wall-mounted control.

REQUIRED USE: For all four-zone systems. For systems with 5 to 8 zones, a second Damper Control Module is required.

### 3. Ion Smart Sensor

Wall control used to monitor temperature and/or fan control.

SUGGESTED USE: For use in zone systems.

### 4. Ion Remote Room Sensor

Wired remote temperature sensor for zone control.

SUGGESTED USE: For use in zone systems.

### 5. Ion Series Network Interface Module

Connects Heat Recovery and Energy Recovery Ventilators on non-zoning applications and non-communicating 2-speed units.

REQUIRED USE: For non-zoned systems installed with HRV or ERV, Hybrid Heat with non-communicating heat pumps or non-communicating 2-speed units.

### 6. Disconnect Kit

The kit is used to disconnect electrical power to the fan coil so service or maintenance may be performed safely.

SUGGESTED USE: Units for 3- through 10-kW electric resistance heaters and cooling controls.

### 7. Downflow Base Kit

This kit is designed to provide a 1-in. minimum clearance between unit discharge plenum, ductwork, and combustible materials. It also provides a gap-free seal with the floor.

REQUIRED USE: This kit must be used whenever fan coils are used in downflow applications.

### 8. Downflow Conversion Kit

Fan coils are shipped from the factory for upflow or horizontal-left applications. Downflow conversion kits provide proper condensate water drainage and support for the coil when used in downflow applications. Separate kits are available for slope coils and A-coils.

REQUIRED USE: This kit must be used whenever fan coils are used in downflow applications.

### 9. Single Point Wiring Kit

The single point wiring kit acts as a jumper between L1 and L3 lugs, and between the L2 and L4 lugs. This allows the installer to run 2 heavy-gauge, high-voltage wires into the fan coil rather than 4 light-gauge, high-voltage wires.

SUGGESTED USE: Fan coils with 15- and 20-kW fused heaters only.

### 10. Filter Kit (12 pack)

The kit consists of 12 fan coil framed filters. These filters collect large dust particles from the return air entering the fan coil and prevents them from collecting on the coil. This process helps to keep the coil clean, which increases heat transfer and, in turn, the efficiency of the system.

SUGGESTED USE: To replace filters in fan coils. REQUIRED USE: All units unless a filter grille is used.

### 11. Filter Media Cabinet and Cartridges

This cabinet is mounted to the fan coil on the return air end and designed to slip over the outer fan coil casing. The cabinets are insulated using the same insulation as production fan coils. They are designed for the removal of particulates from indoor air using FILCCFNC00(14, 17, 21, 24) media filter cartridges.

SUGGESTED USE: All fan coils.

### 12. PVC Condensate Drain Trap Kit

This kit consists of 50 PVC condensate traps. Each trap is pre-formed and ready for field installation. This deep trap helps the system make and hold proper condensate flow even during blower initiation.

SUGGESTED USE: All fan coils.

### FCMA5: Product Data

### 13. Air Cleaner 240-volt Conversion Kit

The AIRA electronic air cleaner comes ready for 115-v operation.

REQUIRED USE: This kit is required when running 240-volt circuit to air cleaner.

### 14. Downflow/Horizontal Conversion Gasket Kit

This kit provides the proper gasketing of units when applied in either a downflow or horizontal application.

REQUIRED USE: Fan coils in either downflow or horizontal applications.

### 15. Horizontal Water Management Kit

This kit provides proper installation of fan coils under conditions of high static pressure and high relative humidity.

SUGGESTED USE: All fan coils (except FE5 and FF1).

### 16. Door Gasket Kit

This kit consists of specific adhesive-backed foam strips which are applied to the unit door and frame, limiting air leakage.

### 17. Hydronic Heat Interface Relay Kit

This kit provides interface of the communicating fan coils with Hydronic Heat equipment.

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