

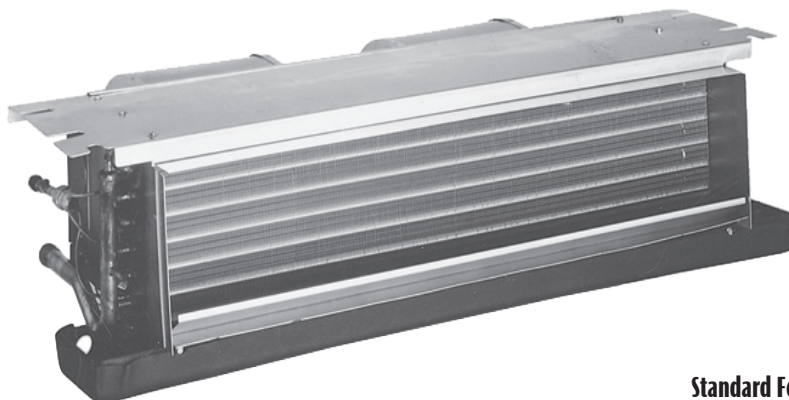


Air Conditioning & Heating

# ACNF SERIES

## CEILING-MOUNT AIR HANDLERS

### 1½ TO 2½ TONS



#### Standard Features

- Suitable for use with refrigerants R-410A and R-22
- Check flowrate for heat pump and cooling-only applications
- All-Aluminum tube/aluminum fin coil
- Direct-drive, resilient-mount, multi-speed motor
- Sequence-controlled and rust-resistant nickel chromium heating elements of 5, 6, 8 and 10 kW
- High-efficiency evaporator coil
- Quiet operation
- Available with and without heat
- AHRI Certified
- ETL Listed
- Primary/secondary drain connection in a high-temperature plastic drain pan
- Suitable for free-return installation (non-ducted return air)
- Galvanized-steel construction
- Factory-installed pull-type disconnect
- Easy service access

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\* Complete warranty details available from your local dealer or at [www.goodmanmfg.com](http://www.goodmanmfg.com). To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.

NOMENCLATURE

	A	C	N	F	24	05	1	6	AA	
	1	2	3	4	5,6	7,8	9	10	11,12	
Brand										Engineering *
A - Single-Piece Air Handler										Major/ Minor Revisions
Unit Application										*Not used for inventory management
C - Ceiling Mount PSC Motor										Refrigerant
Cabinet Finish										6 = R-410A or R-22
N - Uncased										Electrical
Expansion Device										1 - 208/230 V, 1 Phase, 60 Hz
F - Flowrater										Heater Kit
Nominal Capacity Range										00 = No Heat      06 = 6 kW
18 = 2 Tons										05 = 5 kW      08 = 8 kW
24 = 2 Tons										10 = 10 kW
30 = 2½ Tons										

# SPECIFICATIONS

	ACNF18 0016	ACNF18 0516	ACNF18 0616	ACNF18 0816	ACNF24 0016	ACNF24 0516	ACNF24 0616
<b>PERFORMANCE RATINGS</b>							
Cooling (BTU/h)	18,000	18,000	18,000	18,000	24,000	24,000	24,000
Airflow Rate CFM (High/ Low) <sup>1</sup>	660/595	660/595	660/595	660/595	880/840	880/840	880/840
Piston Size <sup>2</sup>	0.051	0.051	0.051	0.051	0.057	0.057	0.057
<b>BLOWER</b>							
Diameter	5.75	5.75	5.75	5.75	6.31	6.31	6.31
Width	6.75	6.75	6.75	6.75	8.25	8.25	8.25
<b>COIL CONNECTIONS</b>							
Liquid	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Coil Drain Connect (FPT)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
<b>ELECTRICAL DATA</b>							
Voltage	208/230	208/230	208/230	208/230	208/230	208/230	208/230
Minimum Circuit Ampacity 230V	0.9	27	33.5	40.6	1.68	27.8	34.3
Minimum Circuit Ampacity 208V	0.9	23.5	29.2	35.3	1.68	24.3	29.9
Max. Overcurrent Device (230V)	15	30	35	45	15	30	35
Max. Overcurrent Device (208V)	15	25	30	40	15	25	30
Minimum Voltage VAC	197	197	197	197	197	197	197
Maximum Voltage VAC	253	253	253	253	253	253	253
<b>BLOWER MOTOR</b>							
Full Load Amps (FLA)	0.72	0.72	0.72	0.72	1.34	1.34	1.34
Horsepower (HP)	1/8	1/8	1/8	1/8	1/4	1/4	1/4
<b>ELECTRIC HEAT</b>							
kW @ 230 Volts	0.0	4.8	6.0	7.3	0.0	4.8	6.0
BTU/h @ 230 Volts	0	16,400	20,500	24,900	0	16,400	20,500
<b>SHIP WEIGHT (LBS)</b>	59	59	59	59	69	69	69

<sup>1</sup> CFM @.3 static

<sup>2</sup> Shipped with Coil

**NOTES**

- For a properly matched system and piston sizing information, refer to Amana piston kit chart of the corresponding Amana® outdoor unit.
- When the room thermostat calls for second stage heat, the first stage (heat pump) operation must be locked out. When matching the "AC" unit that has electric heat with a heat pump, order "HEAT PUMP SHUT OFF KIT HPSK-01." The ACXX-00 units do not require this kit.

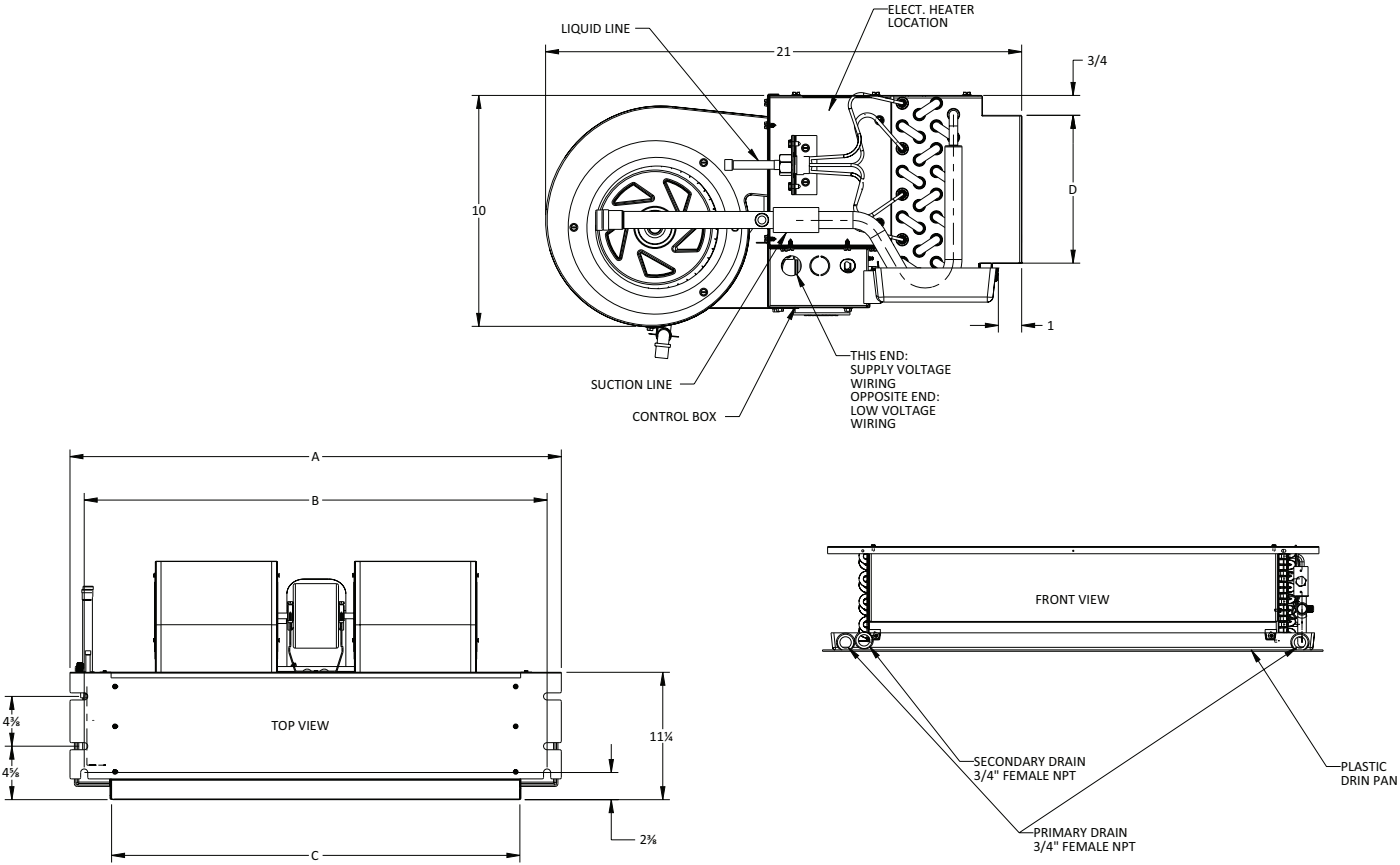
**SPECIFICATIONS (CONT.)**

	ACNF24 0816	ACNF24 1016	ACNF30 0016	ACNF30 0516	ACNF30 0616	ACNF30 0816	ACNF30 1016
<b>PERFORMANCE RATINGS</b>							
Cooling (BTU/h)	24,000	24,000	30,000	30,000	30,000	30,000	30,000
Airflow Rate CFM (High/ Low) <sup>1</sup>	880/840	880/840	1005/890	1005/890	1005/890	1005/890	1005/890
Piston Size	0.057	0.057	0.061	0.061	0.061	0.061	0.061
<b>BLOWER</b>							
Diameter	6.31	6.31	6.75	6.75	6.75	6.75	6.75
Width	8.25	8.25	8.25	8.25	8.25	8.25	8.25
<b>COIL CONNECTIONS</b>							
Liquid	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Coil Drain Connect FPT	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
<b>ELECTRICAL DATA</b>							
Voltage	208/230	208/230	208/230	208/230	208/230	208/230	208/230
Minimum Circuit Ampacity 230V	41.3	54.9	1.68	27.8	34.3	41.3	54.9
Minimum Circuit Ampacity 208V	36.1	47.8	1.68	24.3	29.9	36.1	47.8
Max. Overcurrent Device (230V)	45	60	15	30	35	45	60
Max. Overcurrent Device (208V)	40	50	15	25	30	40	50
Minimum Voltage VAC	197	197	197	197	197	197	197
Maximum Voltage VAC	253	253	253	253	253	253	253
<b>BLOWER MOTOR</b>							
Full Load Amps (FLA)	1.34	1.34	1.34	1.34	1.34	1.34	1.34
Horsepower (HP)	1/4	1/4	1/4	1/4	1/4	1/4	1/4
<b>ELECTRIC HEAT</b>							
kW @ 230 Volts	7.3	9.8	0.0	4.8	6.0	7.3	9.8
BTU/h @ 230 Volts	24,900	33,500	0	16,400	20,500	24,900	33,500
<b>SHIP WEIGHT (LBS)</b>	69	69	79	79	79	79	79

<sup>1</sup> CFM @ .2 static

**NOTES:** When the room thermostat calls for second stage heat, the first stage (heat pump) operation must be locked out. When matching the "AC" unit that has electric heat with a heat pump, order "HEAT PUMP SHUT OFF KIT HPSK-01." The ACXX-00 units do not require this kit.

DIMENSIONS



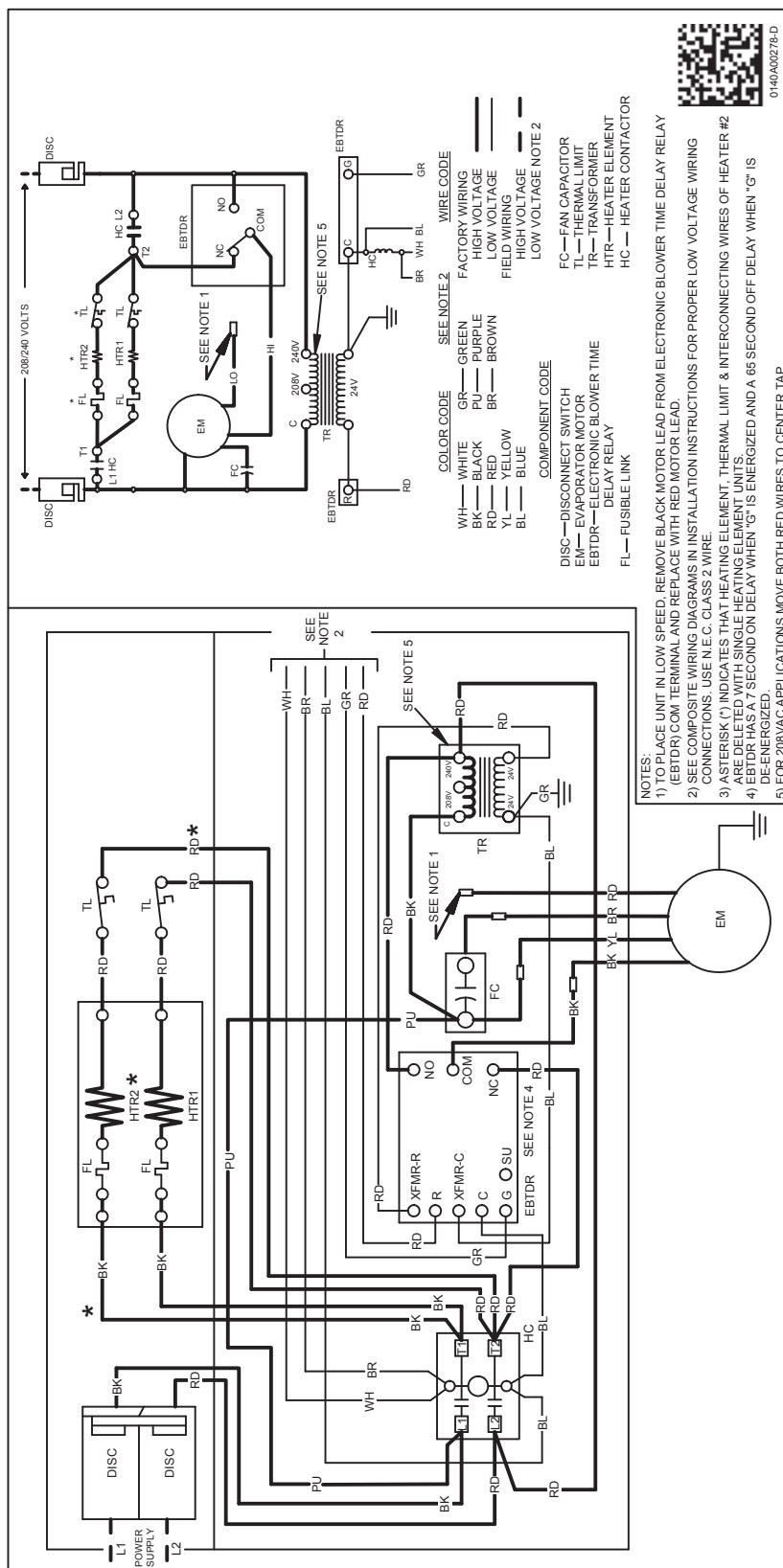
	ACNF18	ACNF24	ACNF30
A	37 1/4"	43 1/4"	49 1/4"
B	34 3/4"	40 3/4"	46 3/4"
C	30"	36"	42"
D	6 1/2"	6 1/2"	6 1/2"

AIRFLOW DATA

MODEL	MOTOR SPEED	CFM DELIVERED AGAINST EXTERNAL STATIC PRESSURE				
		0.1"	0.2"	0.3"	0.4"	0.5"
ACNF180***	High	710	660	590	515	435
	Low	650	595	540	480	390
ACNF240***	High	955	880	820	740	675
	Low	885	840	775	725	620
ACNF300***	High	1,075	1,005	920	820	730
	Low	945	890	835	760	650

Note: Airflow data for 240 Vac with dry coil and no filter in place.

## ACNF WIRING DIAGRAM



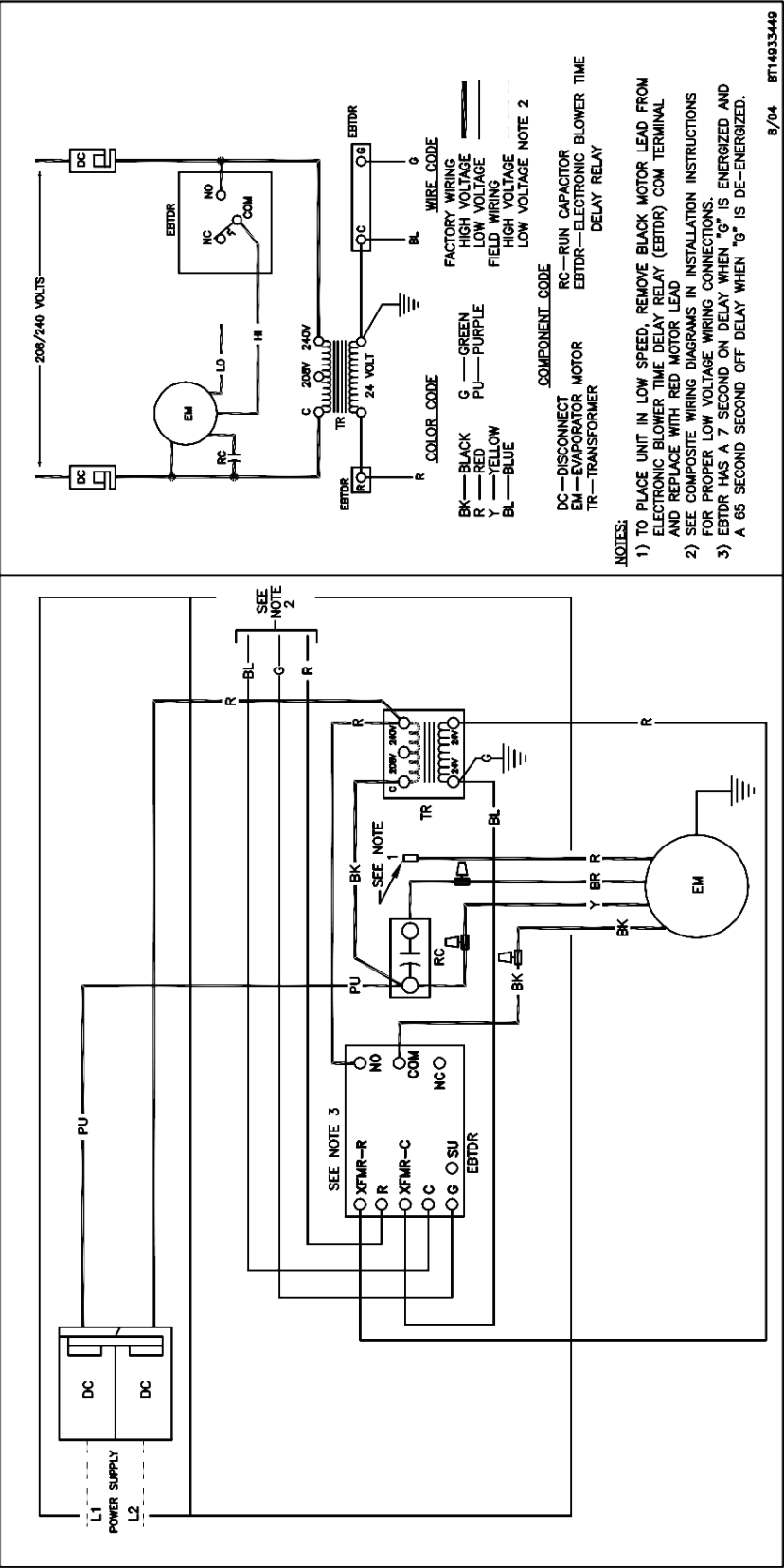
Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



**High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.



ACNF WIRING DIAGRAM (NO ELECTRIC HEAT)



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



**High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

### ACCESSORIES

MODEL	DESCRIPTION
HPSK-01	Heat Pump Shut-off Relay Kit
<b>LOUVERED CEILING ACCESS PANELS</b>	
CAP-1/ 1L	Fits ACNF18
CAP-2/ 2L	Fits ACNF24
CAP-3/ 3L	Fits ACNF30