

ACBX32CM-100 (07/2011)

## FEATURES AND BENEFITS

### Application

- Environmentally friendly R410A refrigerant
- 3, 4, and 5 ton nominal capacities
- Multi-position applications
- One piece design for easy installation but may be disassembled into two separate sections for ease of installation in tight applications
- Optional field installed electric heat kits, 10, 15 and 20kW
- Heat pump and air conditioner applications

### Cabinet

- Foil faced insulation
- Painted, heavy-gauge galvanized cabinet
- Tool-less access to filter area for quick and easy servicing. Disposable frame type filter furnished and factory installed in rails in cabinet
- High-strength, UV and heat-resistant plastic drain pan for corrosion resistance have dual pipe drains
- Serviceable easy slide out blower assembly
- No external screw heads on sides of cabinet for tight installations preventing damage to walls or woodwork
- Removable panels provide complete service access
- Electrical inlets provided in sides and top of cabinet



### Components

- Efficient multi-speed PSC blower motors
- Standard transformer and blower relay
- Built-in indoor time delay for increases efficiency
- Sleeves on distributor tubing to protect tubing
- Drain pan designed for up-flow, down-flow or horizontal applications. Deep, corrosion resistant plastic drain pans have dual pipe drains
- Factory installed R410A TXV

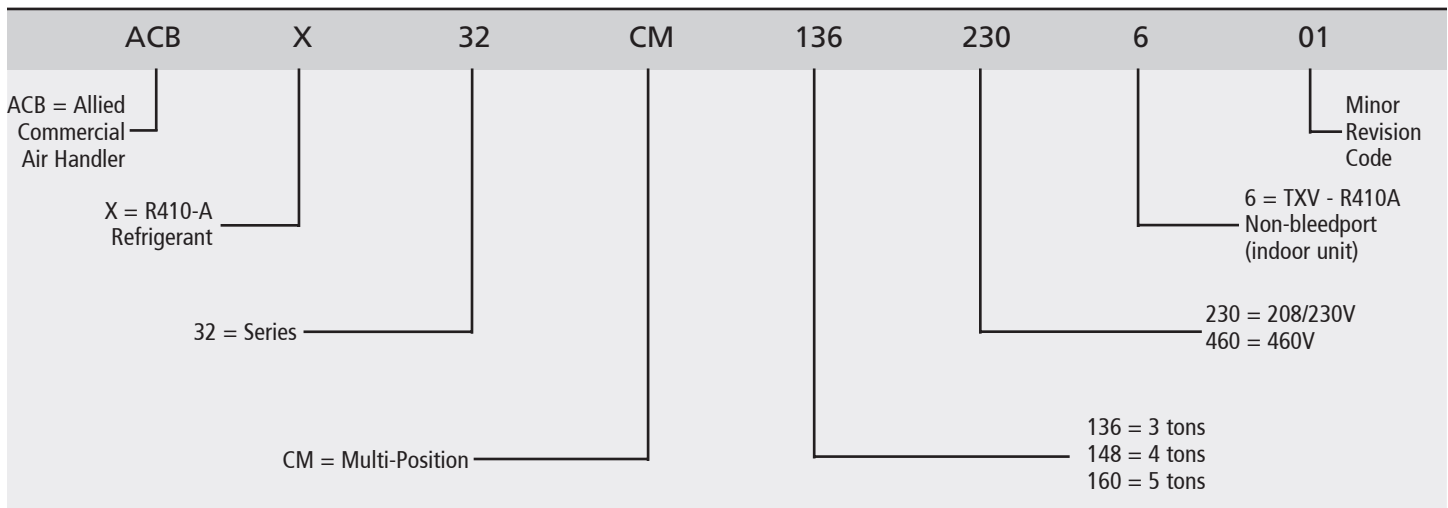
### Accessories

- Counterflow kit
- Combustible floor kit
- Single point power kit
- Electric heat kits

### Warranty

- 1 year parts warranty. See limited warranty document for details

## Model Number Guide



## Physical & Electrical Data

Model	Voltage/Hz/Phase	Electric Heat Available	Transformer Size & Type	Filter Size (inches)	Refrigerant Connection		Weight (lbs.)
					Suction (inches)	Liquid (inches)	
ACBX32CM-136-230	208-230/60/1*	10, 15, 20	40 VA, CLASS 2	20 X 22	3/4	3/8	177
ABCX32CM-148-230	208-230/60/1*	10, 15, 20	40 VA, CLASS 2	20 X 24	7/8	3/8	206
ABCX32CM-160-230	208-230/60/1*	10, 15, 20	40 VA, CLASS 2	20 X 24	1-1/8	3/8	206
ACBX32CM-136-460	460/60/1*	10, 15, 20	40 VA, CLASS 2	20 X 22	3/4	3/8	177
ACBX32CM-148-460	460/60/1*	10, 15, 20	40 VA, CLASS 2	20 X 24	7/8	3/8	206
ACBX32CM-160-460	460/60/1*	10, 15, 20	40 VA, CLASS 2	20 X 24	1-1/8	3/8	206

Note: All Blower Motors are single phase.  
All Heat Kits (10, 15, and 20) are 3 phase and require 3 phase service.

# Blower Performance

NOTE: All air data is measured external to unit with air filter in place with bottom return air.

**CBX32CM-136 (208/230V)**

External Static Pressure in. w.g.	Air Volume & Motor Watts at Specific Blower Taps					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
.00	1525	505	1120	390	915	335
.05	1520	495	1150	385	965	330
.10	1510	480	1170	380	1005	325
.15	1495	470	1180	375	1035	320
.20	1475	455	1190	370	1055	320
.25	1450	440	1185	360	1060	310
.30	1415	430	1175	350	1050	300
.40	1335	400	1135	325	1005	290
.50	1230	375	1060	300	915	255
.60	1100	345	960	280	775	230
.70	950	320	830	255	590	205
.75	870	305	750	245	485	195

**CBX32CM-136 (460V 1ph)**

External Static Pressure in. w.g.	Air Volume & Motor Watts at Specific Blower Taps			
	High		Low	
	cfm	Watts	cfm	Watts
.00	1525	505	1120	390
.05	1520	495	1150	385
.10	1510	480	1170	380
.15	1495	470	1180	375
.20	1475	455	1190	370
.25	1450	440	1185	360
.30	1415	430	1175	350
.40	1335	400	1135	325
.50	1230	375	1060	300
.60	1100	345	960	280
.70	950	320	830	255
.75	870	305	750	245

**CBX32CM-148 (208/230V)**

External Static Pressure in. w.g.	Air Volume & Motor Watts at Specific Blower Taps					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
.00	1910	590	1785	520	1475	430
.05	1895	585	1770	515	1480	430
.10	1870	580	1750	510	1475	425
.15	1840	570	1720	500	1465	420
.20	1800	565	1685	490	1445	410
.25	1755	550	1645	480	1415	405
.30	1700	540	1600	465	1380	395
.40	1580	515	1485	440	1260	370
.50	1425	485	1350	410	1170	345
.60	1250	450	1190	380	1020	320
.70	1045	415	1000	350	840	295
.75	930	400	900	335	740	280

**CBX32CM-148 (460V 1ph)**

External Static Pressure in. w.g.	Air Volume & Motor Watts at Specific Blower Taps			
	High		Low	
	cfm	Watts	cfm	Watts
.00	1870	610	1775	530
.05	1875	610	1775	530
.10	1870	590	1765	515
.15	1850	585	1750	510
.20	1825	575	1720	500
.25	1790	560	1685	490
.30	1745	545	1645	480
.40	1625	505	1530	450
.50	1465	470	1380	420
.60	1270	425	1195	385
.70	1030	385	975	350
.80	755	340	720	320

**CBX32CM-160 (208/230V)**

External Static Pressure in. w.g.	Air Volume & Motor Watts at Specific Blower Taps					
	High		Medium		Low	
	cfm	Watts	cfm	Watts	cfm	Watts
.00	2115	780	2025	670	1775	585
.05	2100	770	2010	665	1775	590
.10	2085	765	1995	655	1770	580
.15	2060	750	1975	645	1760	570
.20	2030	740	1950	635	1745	560
.25	2000	730	1915	625	1725	550
.30	1960	715	1880	610	1695	535
.40	1870	685	1795	580	1630	505
.50	1755	655	1690	545	1540	475
.60	1620	625	1560	515	1425	440
.70	1465	590	1415	480	1295	410
.80	1290	560	1250	445	1140	375
.85	1195	545	1160	425	1050	360

**CBX32CM-160 (460V 1ph)**

External Static Pressure in. w.g.	Air Volume & Motor Watts at Specific Blower Taps			
	High		Low	
	cfm	Watts	cfm	Watts
.00	2140	795	1965	710
.05	2110	780	1950	700
.10	2080	765	1930	685
.15	2045	755	1910	675
.20	2005	740	1880	660
.25	1965	725	1850	645
.30	1920	710	1815	630
.40	1820	680	1735	600
.50	1710	650	1635	570
.60	1585	615	1520	540
.70	1450	585	1390	505
.80	1305	550	1245	475
.85	1225	535	1165	460

## Electric Heat Data

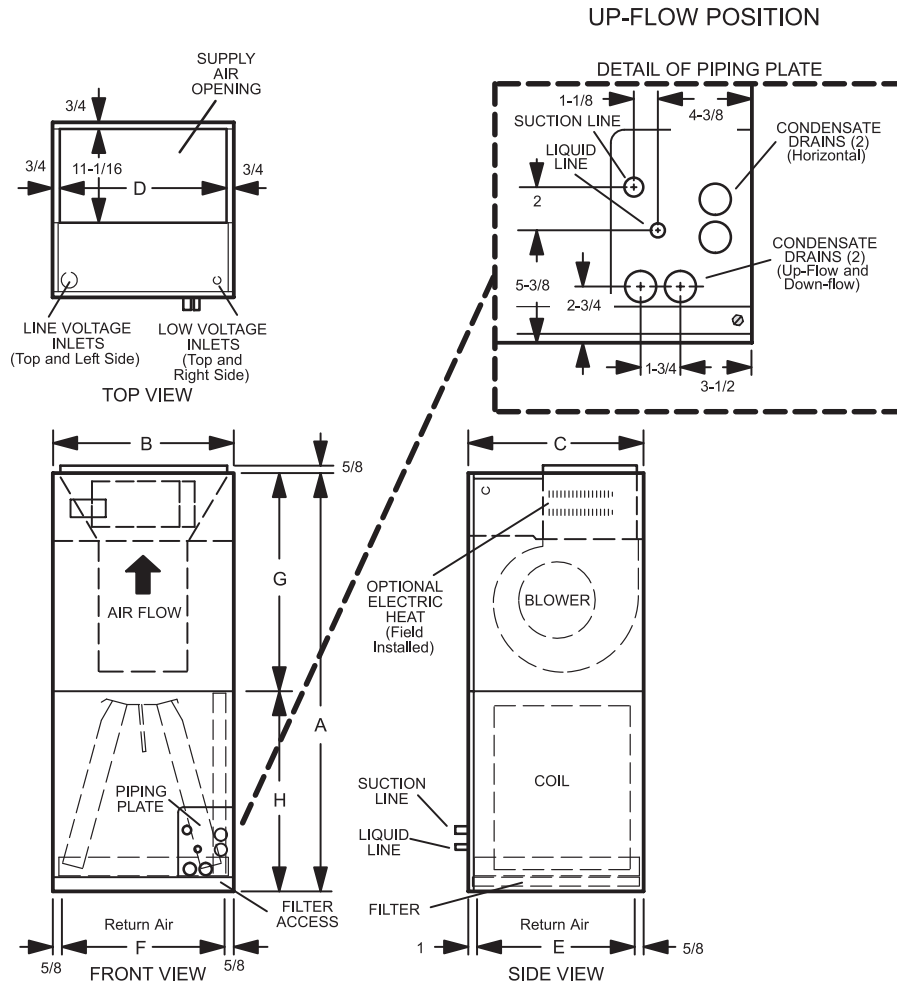
Heater Capacity	Model	Cat #	Phase	Volt	kW	BTU	ACBX32CM-136			ACBX32CM-148			ACBX32CM-160		
							FLA	MCA	MOP	FLA	MCA	MOP	FLA	MCA	MOP
10 kW	ECB29-10-Y-230	28k43	3	230	9.2	31,400	1.72	32	35	2.4	33	35	3.9	35	35
15 kW*	ECB29-15-Y-230	28k44			13.5	47,000		47	50	2.4	48	50	3.9	50	50
20 kW*	ECB29-20-Y-230	28k45			18.4	62,700		32/24	35/35	2.4	33/24	35/35	3.9	35/24	35/35
10 kW	ECB29-10-G-460	28k47		460	9.2	31,400	1.1	16	20	1.3	17	20	1.9	17	20
15 kW	ECB29-15-G-460	28k48			13.8	47,000		24	30	1.3	24	30	1.9	25	25
20 kW	ECB29-20-G-460	28k49			18.4	62,700		32	35	1.3	32	35	1.9	32	35

\* Circuit breaker models

## Dimensions (in inches)

Model Number	A	B	C	D	E	F	G	H
ACBX32CM-136*	51	21-1/4	22-5/8	19-3/4	21	20	26-3/8	24-5/8
ACBX32CM-148* ACBX32CM-160*	58-1/2	21-1/4	24-5/8	19-3/4	23	20	27-7/8	30-5/8

\* = 230 and 460 volts



## Installation Clearances with Electric Heat

Cabinet	0 inch
To Plenum	1 inch
To Outlet Duct within 3 feet	1 inch
Floor	See Note #1
Service / Maintenance	See Note #2

**Notes:**

- 1 Units installed on combustible floor in the down-flow position with electric heat require optional down-flow additive-base.
- 2 Front service access - 24 inches (610 mm) minimum.  
If cabinet depth is more than 24 inches (610 mm) allow a minimum of the cabinet depth plus 2 inches (51 mm).

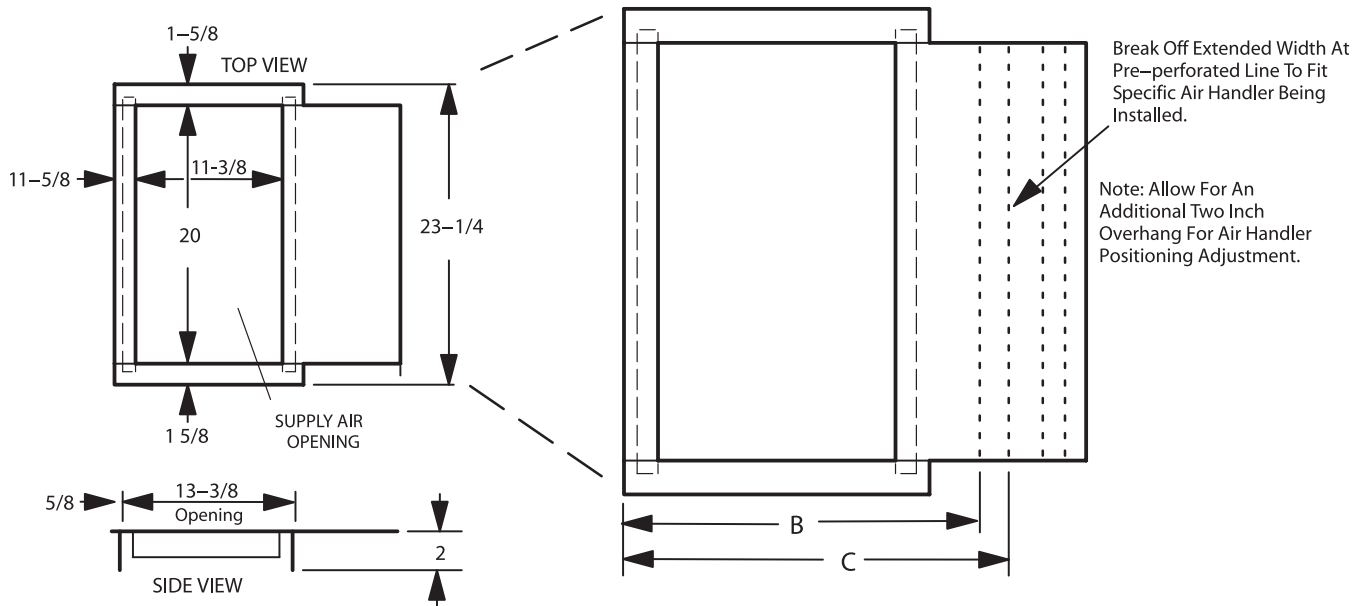
## Accessories

Description	Where Used	Kit #
10 kW Heat Kit (230)	230V 3, 4, & 5 Tons	28K43
15 kW Heat Kit (230)**	230V 3, 4, & 5 Tons	28K44
20 kW Heat Kit (230)**	230V 3, 4, & 5 Tons	28K45
10 kW Heat Kit (460)	460V 3, 4, & 5 Tons	28K47
15 kW Heat Kit (460)	460V 3, 4, & 5 Tons	28K48
20 kW Heat Kit (460)	460V 3, 4, & 5 Tons	28K49
Down-Flow Additive Base*	All	44K15
Down-Flow Conversion Kit	All	83M57
Single Point Power	All	21H39

\* For combustible floors

\*\* Circuit breaker models

Catalog No. – 44K15



MODEL-B = ACBX32CM-136 =  $22\frac{5}{8}$  inches

MODEL-C = ACBX32CM-148 AND -160 =  $24\frac{5}{8}$  inches

All specifications and illustrations are subject to change without notice and without incurring obligations.

# ALLIED

Commercial