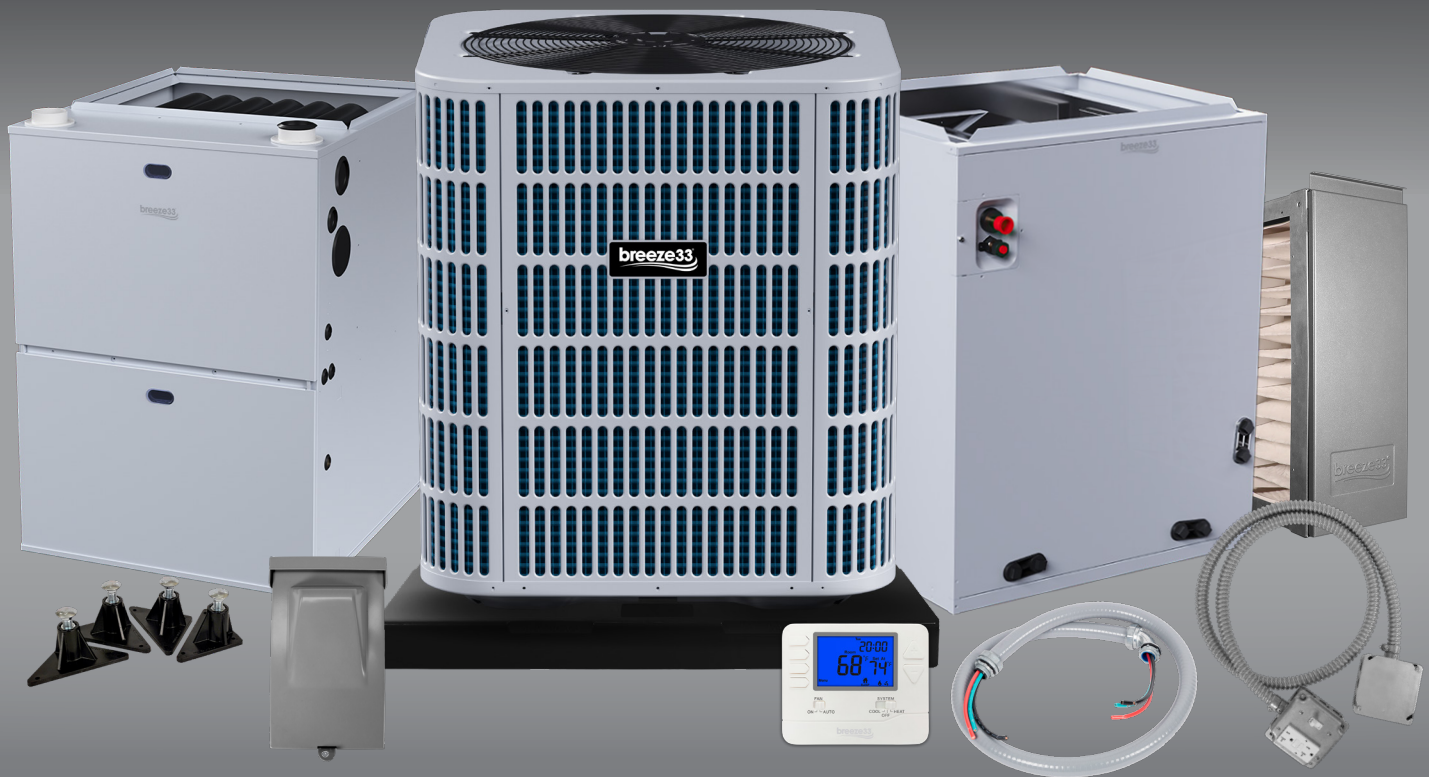




R454-B

SEER2 KIT GUIDE

& EQUIPMENT SPECIFICATIONS



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T GETHER



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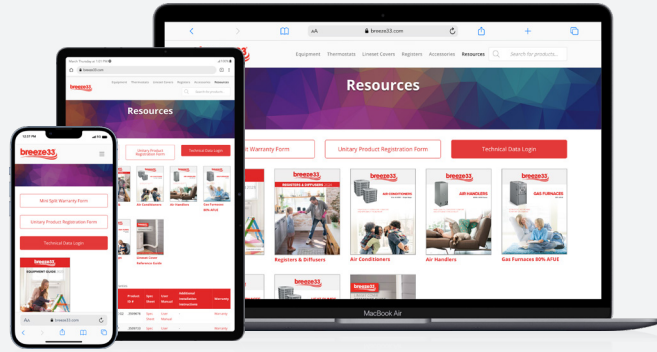


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CONTENTS

GAS FURNACE & A/C SYSTEM KITS

96% 96E2U Two Stage Constant Torque ECM Gas Furnace w/ 13.4 SEER2 PCCM Furnace & A/C Kit	4
96% 96E2U Two Stage Constant Torque ECM Gas Furnace w/ 15.2 SEER2 PCCM Furnace & A/C Kit	4
80% 80EM Single Stage Constant Torque ECM Gas Furnace w/ 13.4 PCCM Furnace & A/C Kit	5

SPECIFICATIONS

Condenser & Coil Matrix.	6
96% 96E2 Two Stage Constant Torque ECM Gas Furnace	7-18
80% 80EM Single Stage Constant Torque ECM Gas Furnace	19-29
PCCM Multi-Position Cased Coil	30-35
XCCM Multi-Position Cased Coil	36-41
13.4 SEER2 AC134 Series Air Conditioner	42-47
15.2 SEER2 AC152 Series Air Conditioner	48-53

BREEZE33 EQUIPMENT SPECIALISTS



Matt Penn
Director of Breeze33 Products
mpenn@breeze33.com
330.329.5882



JR McKinney
Breeze33 Product Specialist
jmckinney@famous-supply.com
330.770.4145



Ron Sink
Breeze33 Product Specialist
rsink@famous-supply.com
419.230.7693



Rick Virgili
Breeze33 Technical Support
rvirgili@famous-supply.com
419.651.6975

Breeze33 sells HVAC equipment to licensed HVAC professionals. Parts are non-refundable.

GAS FURNACE & A/C KITS

EACH KIT INCLUDES:

Furnace • Condensing Unit • Cased Coil • Pad • A/C Whip • Disconnect
Furnace Legs • Furnace Whip • Media Air Cleaner with Filter • Thermostat



96E2U 96% Two Stage Constant Torque ECM Gas Furnace
AC134 UP TO 13.4 SEER2 A/C, PCCM/XCCM Multi Position Coil & Furnace Kit

KIT	ID NO.	FURNACE BTUH	A/C TON	CASED COIL	SEER2	EER2	COIL W X H (IN)
BZ33KIT#1	3618744	60,000	1.5	PCCM3036B	13.4	11.2	17.5 x 20
BZ33KIT#2	3618745	60,000	2	PCCM3036B	13.4	11.2	17.5 x 20
BZ33KIT#3	3618746	60,000	2.5	PCCM3036B	13.4	11.2	17.5 x 20
BZ33KIT#4	3618747	60,000	3	XCCM3036B	13.4	11.2	17.5 x 20
BZ33KIT#5	3618748	80,000	2.5	PCCM3642C	13.4	11.2	21 x 26
BZ33KIT#6	3618749	80,000	3	XCCM3642C	13.4	11.2	21 x 26
BZ33KIT#7	3618750	80,000	3.5	XCCM4248C	13.4	11.2	21 x 30
BZ33KIT#8	3618751	80,000	4	PCCM4860C	13.4	11.2	21 x 30
BZ33KIT#9	3618752	100,000	3.5	XCCM4248C	13.4	11.2	21 x 30
BZ33KIT#10	3618753	100,000	4	PCCM4860C	13.4	11.2	21 x 30
BZ33KIT#11	3618754	100,000	5	PCCM4860C	13.4	11.2	21 x 30
BZ33KIT#12	3618755	120,000	3.5	XCCM4248D	13.4	11.2	24.5 x 30
BZ33KIT#13	3618756	120,000	4	PCCM4248D	13.4	11.2	24.5 x 30
BZ33KIT#14	3618757	120,000	5	PCCM4860D	13.4	11.2	24.5 x 30

*Propane kit included with furnace.

**Coil can be swapped at purchase for another size or style - ratings may vary, refer to coil match matrix.

GAS FURNACE & A/C KITS

96E2U 96% Two Stage Constant Torque ECM Gas Furnace

AC152 UP TO 15.2 SEER2 A/C, PCCM/XCCM Multi Position Coil & Furnace Kit

KIT	ID NO.	FURNACE BTUH	A/C TON	CASED COIL	SEER2	EER2	COIL W X H (IN)
BZ33KIT#15	3618758	60,000	1.5	PCCM3036B	15.2	12	17.5 x 20
BZ33KIT#16	3618759	60,000	2	PCCM3036B	15.2	12	17.5 x 20
BZ33KIT#17	3618760	60,000	2.5	PCCM3036B	15.2	12	17.5 x 20
BZ33KIT#18	3618761	60,000	3	XCCM3036B	14.3	11.7	17.5 x 20
BZ33KIT#19	3618762	80,000	2.5	PCCM3642C	15.2	12	21 x 26
BZ33KIT#20	3618763	80,000	3	XCCM3642C	14.3	11.7	21 x 26
BZ33KIT#21	3618764	80,000	3.5	XCCM4248C	14.3	11.7	21 x 30
BZ33KIT#22	3618765	80,000	4	PCCM4860C	14.3	11.7	21 x 30
BZ33KIT#23	3618766	100,000	3.5	XCCM4248C	14.3	11.7	21 x 30
BZ33KIT#24	3618767	100,000	4	PCCM4860C	14.3	11.7	21 x 30
BZ33KIT#25	3618768	100,000	5	PCCM4860C	13.8	11.2	21 x 30
BZ33KIT#26	3618769	120,000	3.5	XCCM4248D	14.3	11.7	24.5 x 30
BZ33KIT#27	3618770	120,000	4	PCCM4248D	14.3	11.7	24.5 x 30
BZ33KIT#28	3618771	120,000	5	PCCM4860D	13.8	11.2	24.5 x 30

*Propane kit included with furnace.

**Coil can be swapped at purchase for another size or style - ratings may vary, refer to coil match matrix.

80EM 80% Single Stage Constant Torque ECM Gas Furnace

AC134 UP TO 13.4 SEER2 A/C, PCCM/XCCM Multi Position Coil & Furnace Kit

KIT	ID NO.	FURNACE BTUH	A/C TON	CASED COIL	SEER2	EER2	COIL W X H (IN)
BZ33KIT#29	3618772	40,000	1.5	PCCM3036A	13.4	11.2	14.5 x 20
BZ33KIT#30	3618773	40,000	2	PCCM3036A	13.4	11.2	14.5 x 20
BZ33KIT#31	3618774	60,000	2	PCCM3036B	13.4	11.2	17.5 x 20
BZ33KIT#32	3618775	60,000	2.5	PCCM3036B	13.4	11.2	17.5 x 20
BZ33KIT#33	3618776	60,000	3	XCCM3036B	13.4	11.2	17.5 x 20
BZ33KIT#34	3618777	80,000	2.5	PCCM3036B	13.4	11.2	17.5 x 20
BZ33KIT#35	3618778	80,000	3	XCCM3036B	13.4	11.2	17.5 x 20
BZ33KIT#36	3618779	80,000	3.5	XCCM4248B	13.4	11.2	17.5 x 30
BZ33KIT#37	3618780	100,000	3.5	XCCM4248C	13.4	11.2	21 x 30
BZ33KIT#38	3618781	100,000	4	PCCM4860C	13.4	11.2	21 x 30
BZ33KIT#39	3618782	100,000	5	PCCM4860C	13.4	11.2	21 x 30
BZ33KIT#40	3618783	120,000	5	PCCM4860D	13.4	11.2	24.5 x 30

*Propane kit included with furnace.

**Coil can be swapped at purchase for another size or style - ratings may vary, refer to coil match matrix.

CONDENSER & COIL MATRIX



Coil Only with Piston



Coil Only with TXV

Series	BTU/H	SEER2	Coil Only with Piston										Coil Only with TXV												
			3036A	3036B	3036C	3642B	3642C	3642D	4248B	4248C	4248D	4860C	4860D	3036A	3036B	3036C	3642B	3642C	3642D	4248B	4248C	4248D	4860C	4860D	
Condenser			BZ33-PCCM3036A	BZ33-PCCM3036B	BZ33-PCCM3036C	BZ33-PCCM3642B	BZ33-PCCM3642C	BZ33-PCCM3642D	BZ33-PCCM4248B	BZ33-PCCM4248C	BZ33-PCCM4248D	BZ33-PCCM4860C	BZ33-PCCM4860D	BZ33-XCCM3036A	BZ33-XCCM3036B	BZ33-XCCM3036C	BZ33-XCCM3642B	BZ33-XCCM3642C	BZ33-XCCM3642D	BZ33-XCCM4248B	BZ33-XCCM4248C	BZ33-XCCM4248D	BZ33-XCCM4860C	BZ33-XCCM4860D	
Up to 13.4 AC	18K	BZ33-18AC134-454B	13.4	13.4	13.4	13.4	13.4		13.4	13.4				13.4	13.4	13.4	13.4	13.4		13.4	13.4				
	24K	BZ33-24AC134-454B	13.4	13.4	13.4	13.4	13.4		13.4	13.4				13.4	13.4	13.4	13.4	13.4		13.4	13.4				
	30K	BZ33-30AC134-454B	13.4	13.4	13.4	13.4	13.4		13.4	13.4				13.4	13.4	13.4	13.4	13.4		13.4	13.4				
	36K	BZ33-36AC134-454B	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
	42K	BZ33-42AC134-454B								13.4	13.4	13.4	13.4	13.4							13.4	13.4	13.4	13.4	13.4
	48K	BZ33-48AC134-454B											13.4	13.4										13.4	13.4
	60K	BZ33-60AC134-454B											13.4	13.4										13.4	13.4
Up to 15.2 AC	18K	BZ33-18AC152-454B	14.3	14.3	14.3	14.3	14.3		14.3	14.3				14.3	14.3	14.3	14.3	14.3		14.3	14.3				
	24K	BZ33-24AC152-454B	14.3	14.3	14.3	14.3	14.3		14.3	14.3				14.3	14.3	14.3	14.3	14.3		14.3	14.3				
	30K	BZ33-30AC152-454B	14.3	14.3	14.3	14.3	14.3		14.3	14.3				14.3	14.3	14.3	14.3	14.3		14.3	14.3				
	36K	BZ33-36AC152-454B	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
	42K	BZ33-42AC152-454B								14.3	14.3	14.3	14.3	14.3							14.3	14.3	14.3	14.3	14.3
	48K	BZ33-48AC152-454B											13.8	13.8										13.8	13.8
	60K	BZ33-60AC152-454B											13.8	13.8										13.8	13.8

NOTE:

Red shaded cells mean on-site TXV is required for the match up rating, for example. TXV Coil offered in kit instead of Piston. Ratings are coil only match rating with A/C Condenser.



Scan QR code for Breeze33 Accessories



96% AFUE



Contents:

1 NOMENCLATURE.....	2
2 SPECIFICATIONS.....	3
3 COMBUSTION SYSTEM SPECIFICATIONS.....	5
4 DIMENSIONS.....	6
5 AIRFLOW DATA.....	7
6 PISTON.....	11
7 WIRING DIAGRAMS.....	12



Features:

- Durable aluminized steel tubular heat exchanger. Stainless-steel secondary heat exchanger.
- Two-stage gas valve.
- Hot surface igniter.
- Quiet multi-speed ECM circulator blower motor.
- Control board with self-diagnostics and Low-voltage terminal block.
- Constant air volume control, 0-250pa static pressure automatically adapts to different installation requirements
- R454b refrigerant leakage sensor adaptable
- UL60335-2-40 certified.
- Natural gas and propane (LP) convertible.
- Designed for multi-position installation: Up flow, horizontal. Industry-standard cabinet sizes for easy replacement, installation and add-on cooling.
- Convenient left or right connection for gas and electric service.
- Removable bottom for side or bottom return applications.

■ For the latest ratings, visit breeze33.com or AHRIdirectory.org

96E2 SPECIFICATIONS

1 Nomenclature

BZ33 - 96 E 2 U 060 B 3

1 2 3 4 5 6 7 8

Legend		
No.	Code	Remarks
1	BZ33	Brand: Breeze33
2	96	AFUE: 96: 96% AFUE 80: 80% AFUE
3	E	Motor type: E: ECM Motor
4	2	2-Stage
5	U	Installation type: U:Upflow/Horizontal (Left or Right) Installation
6	060	Heating capacity: 040: 20-40KBtu/h; 060: 30-60KBtu/h; 080: 40-80KBtu/h; 100: 50-100KBtu/h; 120: 60-120KBtu/h
7	B	Furnace Width
8	3	3 = Max 3 Ton Condenser 4 = Max 4 Ton Condenser 5 = Max 5 Ton Condenser

2 Specifications

COMING SOON

	BZ33-96E2U060B3	BZ33-96E2U080B3	BZ33-96E2U080C4
FUEL TYPE	Natural/Propane Gas	Natural/Propane Gas	Natural/Propane Gas
GAS HEATING PERFORMANCE			
Size (D x H) (in.)	12-3/8 x 8	12-3/8 x 8	12-6/8 x 11-1/4
No. of Burners			
High Fire Input (BTU/h)	3	4	4
	60,000	80,000	80,000
Natural Gas	57,000	76,000	76,000
LP Gas	57,000	76,000	76,000
Low Fire Input (BTU/h)	39,000	52,000	52,000
Natural Gas	37,000	49,000	49,000
LP Gas	37,000	49,000	49,000
AFUE	96	96	96
Available AC @ 0.5" ESP	1.5/2/2.5/3	2.5/3/3.5/4	2.5/3/3.5/4
Temperature Rise Range (° F)	30-60	35-65	35-65
Static pressure(in.w.c)			
Heating	0.12	0.15	0.15
Cooling	0.5	0.5	0.5
ELECTRICAL DATA			
Voltage/Phase (60Hz)	115	115	115
Min. / Max. Voltage (V)	104/127	104/127	104/127
Min. Circuit Ampacity (MCA)	8	8	7.8
(A)			
Max. Overcurrent Protection	15	15	15
(MOP) (A)			
FAN MOTOR			
Motor Type	ECM	ECM	ECM
Horsepower (HP)	3/4	3/4	3/4
Rated RPM	1050	1050	1050
Full Load Amps (FLA) (A)	8	8	7.8
Capacitor (uF)	/	/	/
CIRCULATOR BLOWER			
Material	Metal	Metal	Metal
Vent Diameter (in.)	2/3	2/3	2/3
No. of Burners	3	4	4
Speed Mode Number	5	5	5

96E2 SPECIFICATIONS

Specifications

	BZ33-96E2U100C5	BZ33-96E2U120D5
FUEL TYPE	Natural/Propane Gas	Natural/Propane Gas
GAS HEATING PERFORMANCE		
High Fire Input (BTU/h)	100,000	120,000
Natural Gas	95,000	115,000
LP Gas	95,000	115,000
Low Fire Input (BTU/h)	70,000	84,000
Natural Gas	67,000	80,500
LP Gas	67,000	80,500
AFUE	96	96
Available AC @ 0.5" ESP	3.5/4/4.5/5	3.5/4/4.5/5
Temperature Rise Range (° F)	35-65	40-70
Static pressure (in.w.c)		
Heating	0.2	0.2
Cooling	0.5	0.5
ELECTRICAL DATA		
Voltage/Phase (60Hz)	115	115
Min. / Max. Voltage (V)	104/127	104/127
Min. Circuit Ampacity (MCA) (A)	11.5	10.5
Max. Overcurrent Protection (MOP) (A)	20	20
FAN MOTOR		
Motor Type	ECM	ECM
Horsepower (HP)	1	1
Rated RPM	1050	1050
Full Load Amps (FLA) (A)	11.5	10.5
Capacitor (uF)	/	/
CIRCULATOR BLOWER		
Material	Metal	Metal
Size (D x H) (in.)	12-6/8 x 11-1/4	12-6/8 x 11-1/4
Vent Diameter (in.)	2/3	3
No. of Burners	5	6
Speed Mode Number	5	5

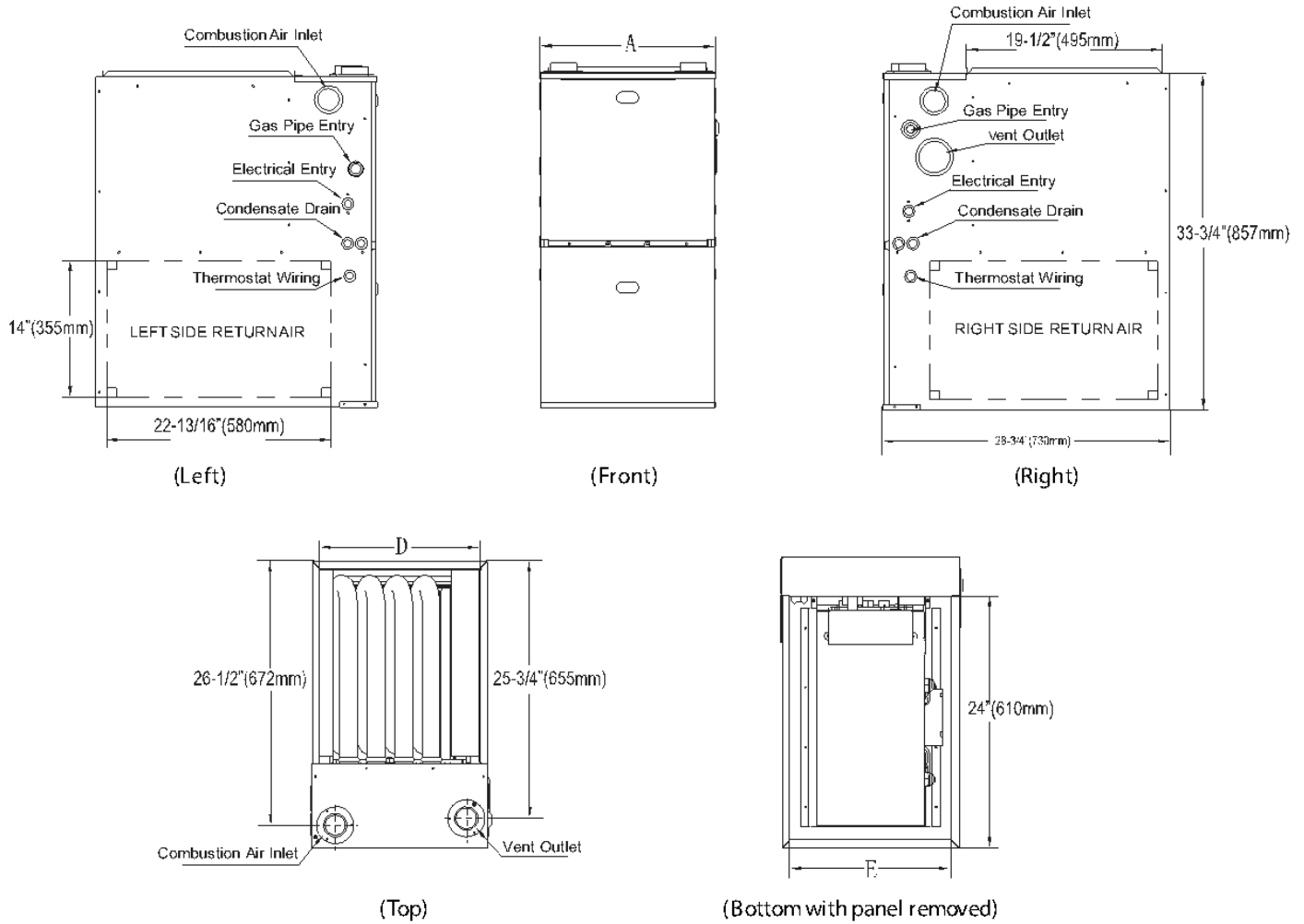
3 Combustion System Specifications

COMING SOON

Model			060B3	080B3	080C4	100C5	120D5
Max. Inlet Gas Press	Natural Gas	in.w.c	10.5	10.5	10.5	10.5	10.5
	Propane Gas (LP)	in.w.c	13	13	13	13	13
Min. Inlet Gas Press	Natural Gas	in.w.c	4.5	4.5	4.5	4.5	4.5
	Propane Gas (LP)	in.w.c	11	11	11	11	11
Natural Gas Manifold Pressure(High fire)		in.w.c	3.5	3.5	3.5	3.5	3.5
Natural Gas Manifold Pressure(Low fire)		in.w.c	1.6	1.6	1.6	1.6	1.6
Propane Gas Manifold Pressure(High fire)		in.w.c	10	10	10	10	10
Propane Gas Manifold Pressure(Low fire)		in.w.c	4	4	4	4	4
Natural Gas Factory Orifice (0-2000 feet)		#	45	45	45	45	45
Propane Gas (LP) Factory Orifice (0-2000 feet)		#	55	55	55	55	55
Gas Connection Size		in. NPT	1/2	1/2	1/2	1/2	1/2
Ignition Device			Hot surface				
Number of Burners		#	3	4	4	5	6
Primary Heat exchanger Diameter		Inch	1-6/8	1-6/8	1-6/8	1-6/8	1-6/8
Primary Heat exchanger		# tubes	3	4	4	5	6
Secondary Heat Exchanger Diameter		Inch	3/8	3/8	3/8	3/8	3/8
Secondary Heat Exchanger		# tubes	33	33	39	39	48
Flue Vent Diameter		Inch	2"/3"	2"/3"	2"/3"	2"/3"	3"
Safety Switch Settings							
Pressure Switch Factory Setting		High	in.w.c	1.1	1.1	1.1	1.1
Pressure Switch Factory Setting		Low	in.w.c	0.55	0.55	0.55	0.55
Rollout switch - resettable		Off/On	°F	300	300	300	300
Inlet High Temperature Limit switch - fixed		Off/On	°F	150/120	130/100	150/120	150/120

96E2 SPECIFICATIONS

4 Dimensions



FURNACE SIZE	A CABINET WIDTH IN.	D SUPPLY AIR WIDTH IN.	E RETURN AIR WIDTH IN.	NET/SHIP WT (lbs)
60B3	17.5	16	15-57/32	135/147.5
COMING SOON 80B3	17.5	16	15-57/32	141/153
80C4	21	19.5	19-13/32	152/165
100C5	21	19.5	19-13/32	162/173
120D5	24.5	23	22-27/32	176/190

5 Airflow Data

Air Delivery - CFM without filter

FURNACE SIZE	RETURN-AIR INLET	SPEED		EXTERNAL STATIC PRESSURE(IN.W.C)											
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0		
60B	Bottom or Sides	H	CFM	1339	1327	1338	1309	1321	1320	1342	1334	1316	1335		
			Temp Rise-1st stage °F	--	--	--	--	--	--	--	--	--	--	--	
			Temp Rise-2nd stage °F	37.3	37.7	37.5	38.3	38.1	38.1	37.6	37.9	38.5	38.0		
		Mid-H	CFM	1124	1118	1102	1106	1096	1099	1102	1109	1089	1105		
			Temp Rise-1st stage °F	--	--	--	--	--	--	--	--	--	--	--	
			Temp Rise-2nd stage °F	44.2	44.5	45.2	45.1	45.6	45.5	45.5	45.3	46.2	45.6		
		Mid	CFM	880	870	853	858	865	858	854	866	871	839		
			Temp Rise-1st stage °F	36.7	37.2	37.9	37.8	37.6	38.0	38.2	37.8	37.6	39.1		
			Temp Rise-2nd stage °F	56.3	57.0	58.1	57.9	57.5	58.0	58.4	57.7	57.4	59.7		
		Mid-L	CFM	779	768	762	756	740	753	757	747	785	766		
			Temp Rise-1st stage °F	41.4	42.0	42.4	42.8	43.8	43.1	43.0	43.6	41.6	42.7		
			Temp Rise-2nd stage °F	--	--	--	--	--	--	--	--	--	--	--	
		Low	CFM	553	586	543	569	552	562	584	572	575	567		
			Temp Rise-1st stage °F	58.1	54.9	59.3	56.7	58.5	57.6	55.5	56.8	56.5	57.4		
			Temp Rise-2nd stage °F	--	--	--	--	--	--	--	--	--	--	--	
		COMING SOON 80B	Bottom or Sides	H	CFM	1230	1233	1222	1226	1214	1236	1255	1244	1249	1251
					Temp Rise-1st stage °F	--	--	--	--	--	--	--	--	--	--
					Temp Rise-2nd stage °F	53.9	53.8	54.4	54.3	54.8	53.9	53.2	53.7	53.6	53.6
Mid-H	CFM			1052	1052	1041	1044	1037	1034	1048	1046	1024	1076		
	Temp Rise-1st stage °F			41.0	41.0	41.5	41.5	41.8	42.1	41.5	41.7	42.7	40.7		
	Temp Rise-2nd stage °F			62.8	62.8	63.6	63.5	64.0	64.3	63.4	63.7	65.1	62.1		
Mid	CFM			849	861	854	853	855	844	855	848	834	859		
	Temp Rise-1st stage °F			50.6	50.0	50.4	50.5	50.5	51.2	50.6	51.2	52.1	50.7		
	Temp Rise-2nd stage °F			--	--	--	--	--	--	--	--	--	--	--	
Mid-L	CFM			754	771	765	764	728	761	782	739	758	758		
	Temp Rise-1st stage °F			56.9	55.7	56.2	56.3	59.2	56.8	55.3	58.5	57.2	57.3		

96E2 SPECIFICATIONS

			°F												
			Temp Rise-2nd stage °F	--	--	--	--	--	--	--	--	--	--	--	
		Low	CFM	569	554	571	572	568	572	598	594	572	548		
			Temp Rise-1st stage °F	--	--	--	--	--	--	--	--	--	--		
			Temp Rise-2nd stage °F	--	--	--	--	--	--	--	--	--			
80C	Bottom or Sides	H	CFM	1303	1301	1281	1291	1289	1291	1290	1295	1298	1253		
			Temp Rise-1st stage °F	--	--	--	--	--	--	--	--	--	--		
			Temp Rise-2nd stage °F	50.8	50.9	51.8	51.5	51.6	51.6	51.7	51.6	51.6	53.5		
		Mid-H	CFM	1120	1127	1134	1130	1135	1138	1132	1143	1107	1112		
			Temp Rise-1st stage °F	38.5	38.3	38.1	38.3	38.2	38.2	38.5	38.2	39.5	39.4		
			Temp Rise-2nd stage °F	59.0	58.7	58.4	58.7	58.5	58.4	58.8	58.3	60.3	60.1		
		Mid	CFM	908	894	896	902	896	894	864	891	935	880		
			Temp Rise-1st stage °F	47.3	48.1	48.0	47.8	48.2	48.4	50.1	48.7	46.5	49.5		
			Temp Rise-2nd stage °F	--	--	--	--	--	--	--	--	--	--		
		Mid-L	CFM	818	819	825	800	813	803	831	838	791	802		
			Temp Rise-1st stage °F	52.4	52.4	52.1	53.8	53.1	53.8	52.1	51.8	54.9	54.2		
			Temp Rise-2nd stage °F	--	--	--	--	--	--	--	--	--	--		
		Low	CFM	577	628	605	624	615	601	628	573	590	588		
			Temp Rise-1st stage °F	--	--	--	--	--	--	--	--	--	--		
			Temp Rise-2nd stage °F	--	--	--	--	--	--	--	--	--	--		
		100C	Bottom or Sides	H	CFM	1752	1764	1768	1781	1774	1786	1762	1802	1792	1786
					Temp Rise-1st stage °F										
					Temp Rise-2nd stage °F	47.5	47.3	47.3	47.0	47.3	47.0	47.7	46.8	47.2	47.4
Mid-H	CFM			1512	1506	1536	1523	1514	1509	1529	1551	1565	1532		
	Temp Rise-1st stage °F			38.6	38.8	38.1	38.5	38.8	39.0	38.6	38.1	37.9	38.8		
	Temp Rise-2nd stage °F			54.8	55.1	54.1	54.6	55.1	55.3	54.7	54.0	53.6	54.8		
Mid	CFM			1354	1354	1362	1370	1357	1381	1389	1394	1416	1383		
	Temp Rise-1st stage °F			42.9	43.0	42.8	42.6	43.1	42.4	42.3	42.2	41.7	42.7		

96E2 SPECIFICATIONS

FURNACE SIZE	RETURN-AIR INLET	SPEED		EXTERNAL STATIC PRESSURE(IN.W.C)										
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	
120D	Bottom or Sides	H	CFM	1926	1933	1915	1923	1916	1929	1971	1941	2036	1998	
			Temp Rise-1st stage °F	--	--	--	--	--	--	--	--	--	--	--
			Temp Rise-2nd stage °F	51.8	51.7	52.2	52.1	52.4	52.1	51.1	52.0	49.8	50.7	
		Mid-H	CFM	1721	1747	1716	1749	1760	1768	1778	1783	1747	1788	
			Temp Rise-1st stage °F	--	--	--	--	--	--	--	--	--	--	--
			Temp Rise-2nd stage °F	57.8	57.0	58.1	57.1	56.8	56.6	56.4	56.3	57.5	56.4	
		Mid	CFM	1489	1497	1503	1504	1507	1488	1496	1518	1519	1568	
			Temp Rise-1st stage °F	46.7	46.6	46.4	46.5	46.5	47.1	47.0	46.4	46.4	45.1	
			Temp Rise-2nd stage °F	66.5	66.3	66.1	66.1	66.1	67.0	66.7	65.8	65.9	64.0	
		Mid-L	CFM	1384	1360	1365	1384	1382	1383	1379	1401	1421	1414	
			Temp Rise-1st stage °F	50.2	51.1	51.0	50.4	50.6	50.6	50.8	50.1	49.5	49.9	
			Temp Rise-2nd stage °F	--	--	--	--	--	--	--	--	--	--	--
		Low	CFM	1165	1175	1162	1158	1158	1184	1186	1204	1201	1185	
			Temp Rise-1st stage °F	59.5	59.0	59.8	60.0	60.1	58.9	58.9	58.1	58.4	59.2	
			Temp Rise-2nd stage °F	--	--	--	--	--	--	--	--	--	--	--

96E2 SPECIFICATIONS

A filter is required for each return -air Inlet. Airflow performance Included 3/4-In. (19 mm) washable filter media such as contained in factory-authorized accessory filter rack. To determine airflow performance with this filter, assume an additional 0.1 in.w.c available external static pressure.

Filter Size Information - In.

NOTES:

1. Air velocity through throwaway type filters may not exceed 300 feet per minute (91.4 m/min). All velocities over this require the use of high velocity filters.
2. Do not exceed 1800 CFM using a single side return and a 16x25 filter. For CFM greater than 1800, you may use two side returns or one side and the bottom or one side return with a transition to allow use of a 20x25 filter.

FURNACE CASING WIDTH (IN.)	FILTER SIZE		FILTER TYPE
	SIDE RETURN (IN.)	BOTTOM RETURN (IN.)	
14-1/2	16 X 25	14 X 25	High Velocity (600 FPM)
17-1/2	16 X 25	16 X 25	
21	16 X 25	20 X 25	
24.5	16 X 25	24 X 25	

Minimum Area in Square Inch Required for Each Opening

BTUH Input Rating	Minimum Free Area in Square Inch Required for Each Opening
60,000	60 in ²
80,000	80 in ²
100,000	100 in ²
120,000	120 in ²

Minimum Free Area Required for Each Opening

BTUH Input Rating	Minimum Free Area Required for Each Opening		
	Horizontal Duct (2,000 BTUH)	Vertical Duct or Opening to Outside (4,000 BTUH)	Round Duct (4,000 BTUH)
60,000	30 in ²	15 in ²	5"
80,000	40 in ²	20 in ²	5"
100,000	50 in ²	25 in ²	6"
120,000	60 in ²	30 in ²	7"

EXAMPLE: Determining Free Area.

Appliance 1 Appliance 2 Total Input

$100,000 + 30,000 = (130,000 \div 4,000) = 32.5$ Sq. In. Vertical

Appliance 1 Appliance 2 Total Input

$100,000 + 30,000 = (130,000 \div 2,000) = 65$ Sq. In. Horizontal

6 Piston

High Altitude Derate Orifice Size Chart (Natural and LP Gas*)

US installation

Input Rate kBTU/H	Number of Burner	Elevation (Ft)									
		0-2000		2000-4000		4000-6000		6000-8000		8000-10000	
		Nat	LP	Nat	LP	Nat	LP	Nat	LP	Nat	LP
60	3	45	55	47	56	48	57	49	58	50	59
80	4	45	55	47	56	48	57	49	58	50	59
100	5	45	55	47	56	48	57	49	58	50	59
120	6	45	55	47	56	48	57	49	58	50	59

*LP orifice based on 10 in.w.c manifold pressure

The input to the furnace must be checked AFTER reorificing.

High Altitude Derate Orifice Size Chart (Natural and LP Gas*)

Canada installation

Input Rate kBTU/H	Number of Burner	Elevation (Ft)									
		0-2000		2000-4000		4000-6000		6000-8000		8000-10000	
		Nat	LP	Nat	LP	Nat	LP	Nat	LP	Nat	LP
60	3	45	55	47	56	48	57	49	58	50	59
80	4	45	55	47	56	48	57	49	58	50	59
100	5	45	55	47	56	48	57	49	58	50	59
120	6	45	55	47	56	48	57	49	58	50	59

*LP orifice based on 10 in.w.c manifold pressure

The input to the furnace must be checked AFTER reorificing.

For Canada application, based on regulation that requires 10% derating between 2000-4500ft. orifice change is NOT required up to 4500ft.

96E2 SPECIFICATIONS

7 Wiring Diagrams

BZ33-96E2U060B3;BZ33-96E2U080B3;BZ33-96E2U080C4;BZ33-96E2U100C5;BZ33-96E2U120D5

WARNING: ELECTRIFICATION ON THE OUTDOOR MAIN BOARD, DO NOT TOUCH WHEN POWER IS ON.

Note:

1. B terminal is connected and energized for heating operation.
2. W terminal is energized in defrosting operation.
3. LPC is available only for heat pump model.
4. CN28 is short circuit for cooling only model.

CODE	DESCRIPTION
CC	Compressor Contactor
COMP.	Compressor
CCH	Crankcase Heater
PEV	Pressure Equalizer Valve
T4	Ambient Temperature Sensor
T3	Pipe Temperature Sensor
HPC	High Pressure Cut-out Control
LPC	Low Pressure Cut-out Control
DTS	Discharge Temperature Switch
OFM	Outdoor Fan Motor
RC	Run Capacitor
RV	Reversing Valve

CODE	DESCRIPTION
--	Standby
-C	Cooling mode
-H	Heating mode
FC	Forced cooling mode
dF	Defrosting mode
CH	Abnormal signal

CODE	FAULT DESCRIPTION
E3	T3 sensor fault
E4	T4 sensor fault
E8	Capacity setting no set
E9	R110 resistor or drive chip software fault
P2	LPC protection
P4	Discharge temperature protection
P5	T3 high-temperature protection
AL	Ambient temperature limitation
H0	Communication fault between drive chip and main control chip
n1X	OFM overcurrent protection
n2X	Drive module overtemperature protection
n3X	DC bus voltage fault
n4X	Main control program no match driver program
n5X	OFM startup fault
n6X	Phase loss protection

n serial faults, alternately display n and xx

NUMBER	POINT CHECK CONTENT
1	Unit capacity
2	Operation mode
3	Current fan speed (Actual speed divided by 10, for example, 560R is represented by '56.', 1050R is represented by 'A5.', hexadecimal number A represents 10.)
4	Target fan speed (Actual speed divided by 10, for example, 560R is represented by '56.', 1050R is represented by 'A5.', hexadecimal number A represents 10.)
5	T3 temperature('F) (if the value is less than 100, the actual value is displayed. if over 100, divided by 10, 135 is represented by '13.', if it is negative, '1.0' means -10, '1.5' means -5)
6	T4 temperature('F) (if the value is less than 100, the actual value is displayed. if over 100, divided by 10, 135 is represented by '13.', if it is negative, '1.0' means -10, '1.5' means -5)
7	Compressor running time(day) (if the value is less than 100, the actual number of days is displayed. if over 100 and less than 1000, 360 days are represented by '36.', if over 1000, 3600 days are represented by '3.6.')
8	Main control chip software version
9	Drive chip software version
10	Y1 signal state(1=ON, 0=OFF)
11	B signal state(1=ON, 0=OFF)
12	W signal state(1=ON, 0=OFF)
13	Y2 signal state(1=ON, 0=OFF)
14	RV condition (1=ON, 0=OFF)
15	High wind pattern (1=ON, 0=OFF)
16	Last fault code
17	Last second fault code
18	Last third fault code
19	--

FORCE	Press 1 s	Forced cooling mode
Check	Press 6s	Forced defrosting mode
	Press 1 s	Check the system parameters

*** The factory default**

SW1	SW1-1	ON	Reserved
SW1-1	OFF	Reserved	*
	ON	Reserved	*
SW1-2	OFF	Reserved	*
	ON	Reserved	*
SW1-3	ON	Defrosting cycle:30min	*
	OFF	Defrosting cycle:60min	*

WARNING! CABINET MUST BE PERMANENTLY EARTHED CONFORM, AND ALL WIRING CONFORM TO UL50335. REPLACEMENT WIRES MUST BE THE SAME GAUGE AND INSULATION TYPE AS ORIGINAL WIRES.

High voltage line
 - Factory standard —————
 - Field installed - - - - -
 - Factory optional - - - - -
 Low voltage line
 - Factory standard —————
 - Factory optional - - - - -

The wiring diagram shown is for reference only, it may be different from the actual product.

18 Breeze33 SEER2 Kit Guide

Breeze33 BZ33-80EM Series Gas Furnace 80% AFUE



Contents:

1 NOMENCLATURE.....	2
2 SPECIFICATIONS.....	3
3 COMBUSTION SYSTEM SPECIFICATIONS.....	5
4 DIMENSIONS.....	6
5 AIRFLOW DATA.....	7
6 PISTON.....	10
7 WIRING DIAGRAMS.....	11



Features:

- Durable aluminized steel tubular heat exchanger.
- Hot-surface ignition for dependable operation.
- Quiet multi-speed direct-drive blower.
- Natural gas and propane (LP) convertible.
- R454b refrigerant leakage sensor adaptable.
- Designed for multi-position installation: Up flow, down flow, horizontal.
- Industry-standard cabinet sizes for easy replacement, installation and add-on cooling.
- Convenient left or right connection for gas and electric service.
- Removable bottom for side or bottom return application.

■ For the latest ratings, visit breeze33.com or AHRIdirectory.org

80EM SPECIFICATIONS

1 Nomenclature

BZ33 - 80 E M 040 A 3

1 2 3 4 5 6 7

Legend		
No.	Code	Remarks
1	BZ33	Brand: Breeze33
2	80	AFUE: 96: 96% AFUE 80: 80% AFUE
3	E	Motor type: E: ECM Motor
4	M	Installation type: M: Multiple Position/Upflow/Downflow/Horizontal (Left or Right) Installation
5	040	Heating capacity: 040: 20-40KBtu/h; 060: 30-60KBtu/h; 080: 40-80KBtu/h; 100: 50-100KBtu/h; 120: 60-120KBtu/h
6	A	Furnace Width
7	3	Max. of Condenser Unit: 3: Max 3 Ton Condenser 4: Max 4 Ton Condenser 5: Max 5 Ton Condenser

2 Specifications

	BZ33-80EM040A3	BZ33-80EM060B4	BZ33-80EM080B4
FUEL TYPE	Natural/Propane Gas	Natural/Propane Gas	Natural/Propane Gas
GAS HEATING PERFORMANCE			
Input (BTU/h)	40,000	60,000	80,000
Natural Gas	32,000	48,000	64,000
LP Gas	32,000	48,000	64,000
AFUE	80	80	80
Available AC @ 0.5" ESP	1/1.5/2/2.5	1.5/2/2.5/3	2.5/3/3.5/4
Temperature Rise Range (° F)	20-50	25-55	30-60
ELECTRICAL DATA			
Voltage/Phase (60Hz)	115	115	115
Min. / Max. Voltage (V)	104/127	104/127	104/127
Min. Circuit Ampacity (MCA) (A)	6	6	6
Max. Overcurrent Protection (MOP) (A)	15	15	15
FAN MOTOR			
Motor Type	ECM	ECM	ECM
Horsepower (HP)	1/2	1/2	1/2
Rated RPM	1050	1050	1050
Full Load Amps (FLA) (A)	8	8	8
Capacitor (uF)	\	\	\
CIRCULATOR BLOWER			
Material	Metal	Metal	Metal
Type	Centrifugal	Centrifugal	Centrifugal
Size (D x H) (in.)	11-3/16 x 6-9/64	11-3/16 x 9-41/64	11-3/16 x 9-41/64
Vent Diameter (in.)	3/4	3/4	3/4
No. of Burners	3	3	5
Speed Mode Number	5	5	5

80EM SPECIFICATIONS

Specifications

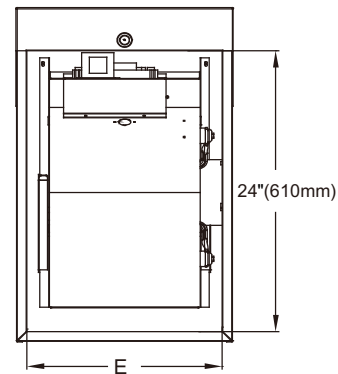
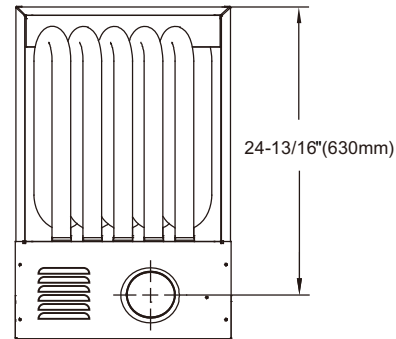
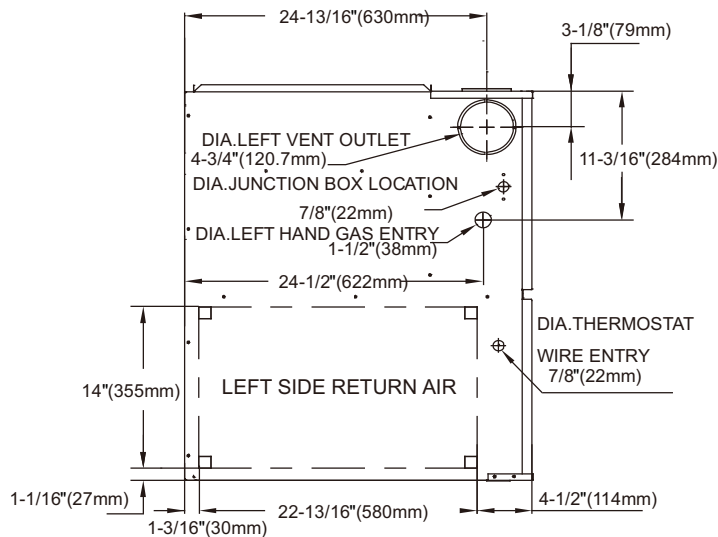
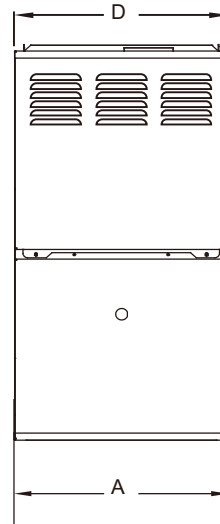
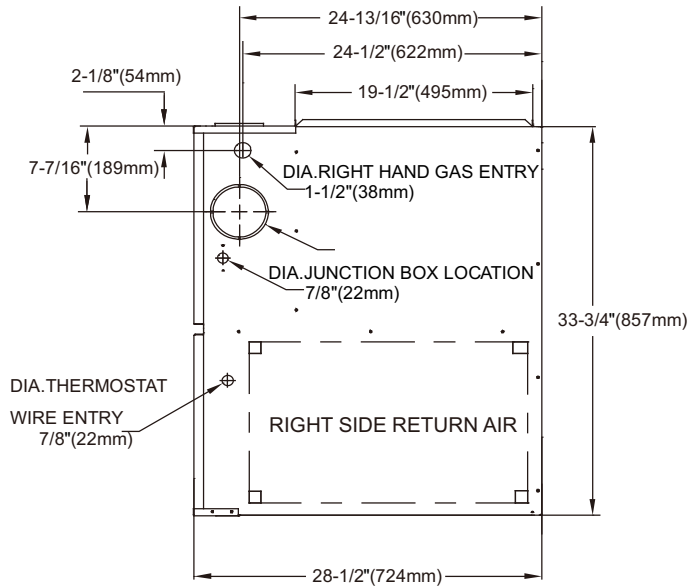
	BZ33-80EM100C5	BZ33-80EM120D5
FUEL TYPE	Natural/Propane Gas	Natural/Propane Gas
GAS HEATING PERFORMANCE		
Input (BTU/h)	100000	120000
Natural Gas	80,000	96,000
LP Gas	80,000	96,000
AFUE	80	80
Available AC @ 0.5" ESP	3.5/4/4.5/5	3.5/4/4.5/5
Temperature Rise Range (° F)	30-60	35-65
ELECTRICAL DATA		
Voltage/Phase (60Hz)	115	115
Min. / Max. Voltage (V)	104/127	104/127
Min. Circuit Ampacity (MCA) (A)	12.3	13
Max. Overcurrent Protection (MOP) (A)	20	20
FAN MOTOR		
Motor Type	ECM	ECM
Horsepower (HP)	1	1
Rated RPM	1050	1050
Full Load Amps (FLA) (A)	14	14
Capacitor (uF)	\	\
CIRCULATOR BLOWER		
Material	Metal	Metal
Type	Centrifugal	Centrifugal
Size (D x H) (in.)	11-3/16 x 11-3/16	12-6/8 x 11-1/4
Vent Diameter (in.)	3/4	3/4
No. of Burners	6	7
Speed Mode Number	5	5

3 Combustion System Specifications

Model			040A3	060B4	080B4	100C5	120D5	
Max. Inlet Gas Press	Natural Gas	in.w.c	10.5	10.5	10.5	10.5	10.5	
	Propane Gas (LP)	in.w.c	13	13	13	13	13	
Min. Inlet Gas Press	Natural Gas	in.w.c	4.5	4.5	4.5	4.5	4.5	
	Propane Gas (LP)	in.w.c	11	11	11	11	11	
Natural Gas Manifold Pressure (High/Low fire)		in.w.c	3.0	3.5	3.8	3.8	3.9	
Propane Gas Manifold Pressure (High/Low fire)		in.w.c	10	10	10	10	10.5	
Natural Gas Factory Orifice (0-2000 feet)		#	50	45	49	49	49	
Propane Gas (LP) Factory Orifice (0-2000 feet)		#	59	55	56	56	56	
Gas Connection Size		in. NPT	3/4	3/4	3/4	3/4	3/4	
Ignition Device		Hot surface						
Number of Burners		#	3	3	5	6	7	
Primary Heat exchanger Diameter		Inch	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	
Primary Heat exchanger		# tubes	3	3	5	6	7	
Flue Vent Diameter		Inch	1-3/16	1-29/64	1-49/64	1-57/64	1-57/64	
Safety Switch Settings								
Pressure Switch Factory Setting		Lo w	in.w.c	0.55	0.55	0.55	0.55	0.55
Rollout switch - resettable		Off/ On	°F	300	300	300	300	300
Inlet High Temperature Limit switch - fixed		Off/ On	°F	180/150	180/150	180/150	180/150	180/150

80EM SPECIFICATIONS

4 Dimensions



FURNACE SIZE	A CABINET WIDTH IN.	D SUPPLY AIR WIDTH IN.	E RETURN AIR WIDTH IN.	SHIP WT (lbs)
40A3	14.5	13	15-57/32	119
60B4	17.5	16	15-27/32	126
80B4	17.5	16	15-27/32	139
100C5	21	19.5	19-13/32	159
120D5	24.5	23	22-27/32	170

5 Airflow Data

Air Delivery - CFM without filter

FURNACE SIZE	SPEED	STATIC PRESSURE	0	0.2	0.4	0.6	0.8	1	
40A	H	[SCFM]	1149	1121	1160	1153	1143	1169	
		Temp.Rise °F	26	27	26	26	26	26	
	MH	[SCFM]	999	1008	994	1030	990	972	
		Temp.Rise °F	30	30	30	29	30	31	
	M	[SCFM]	799	777	797	782	828	809	
		Temp.Rise °F	37	38	37	38	36	37	
	ML	[SCFM]	600	611	622	611	577	632	
		Temp.Rise °F	/	/	/	/	/	/	
	L	[SCFM]	450	483	460	469	437	454	
		Temp.Rise °F	/	/	/	/	/	/	
	60B	H	[SCFM]	1301	1294	1313	1325	1301	1288
			Temp.Rise °F	34	35	34	34	34	35
MH		[SCFM]	1101	1106	1103	1106	1077	1142	
		Temp.Rise °F	41	40	41	40	42	39	
M		[SCFM]	901	899	889	886	879	918	
		Temp.Rise °F	50	50	50	50	51	49	
ML		[SCFM]	800	816	841	783	824	813	
		Temp.Rise °F	/	/	/	/	/	/	
L		[SCFM]	600	631	635	612	601	610	
		Temp.Rise °F	/	/	/	/	/	/	

80EM SPECIFICATIONS

FURNACE SIZE	SPEED	STATIC PRESSURE	0	0.2	0.4	0.6	0.8	1	
80B	H	[SCFM]	1301	1294	1313	1325	1301	1288	
		Temp.Rise °F	46	46	45	45	46	46	
	MH	[SCFM]	1101	1106	1103	1106	1077	1142	
		Temp.Rise °F	54	54	54	54	55	52	
	M	[SCFM]	901	899	889	886	879	918	
		Temp.Rise °F	/	/	/	/	/	/	
	ML	[SCFM]	800	816	841	783	824	813	
		Temp.Rise °F	/	/	/	/	/	/	
	L	[SCFM]	600	631	635	612	601	610	
		Temp.Rise °F	/	/	/	/	/	/	
	100C	H	[SCFM]	1751	1739	1742	1739	1736	1733
			Temp.Rise °F	43	43	43	43	43	43
MH		[SCFM]	1501	1516	1492	1500	1499	1505	
		Temp.Rise °F	50	49	50	50	50	50	
M		[SCFM]	1351	1351	1364	1356	1347	1336	
		Temp.Rise °F	55	55	55	55	55	56	
ML		[SCFM]	1151	1154	1152	1132	1154	1142	
		Temp.Rise °F	/	/	/	/	/	/	
L		[SCFM]	1001	995	996	982	981	1013	
		Temp.Rise °F	/	/	/	/	/	/	
120D		H	[SCFM]	1951	1910	1896	1929	1981	1917
			Temp.Rise °F	38	39	39	39	38	39
	MH	[SCFM]	1751	1775	1749	1772	1786	1771	
		Temp.Rise °F	43	42	43	42	42	42	
	M	[SCFM]	1501	1570	1575	1569	1543	1544	
		Temp.Rise °F	50	48	47	48	48	48	
	ML	[SCFM]	1348	1420	1410	1416	1412	1400	
		Temp.Rise °F	55	53	53	53	53	53	
	L	[SCFM]	1148	1210	1196	1174	1179	1175	
		Temp.Rise °F	/	/	/	/	/	/	

Filter Size Information - In.

FURNACE CASING WIDTH (IN.)	FILTER SIZE		FILTER TYPE
	SIDE RETURN (IN.)	BOTTOM RETURN (IN.)	
14-1/2	16 X 25	14 X 25	High Velocity (600 FPM)
17-1/2	16 X 25	16 X 25	
21	16 X 25	20 X 25	
24.5	16 X 25	24 X 25	

Minimum Area in Square Inch Required for Each Opening

BTUH Input Rating	Minimum Free Area in Square Inch Required for Each Opening
40,000	40 in ²
60,000	60 in ²
80,000	80 in ²
100,000	100 in ²
120,000	120 in ²

Minimum Free Area Required for Each Opening

BTUH Input Rating	Minimum Free Area Required for Each Opening		
	Horizontal Duct (2,000 BTUH)	Vertical Duct or Opening to Outside (4,000 BTUH)	Round Duct (4,000 BTUH)
40,000	20 in ²	10 in ²	4"
60,000	30 in ²	15 in ²	5"
80,000	40 in ²	20 in ²	5"
100,000	50 in ²	25 in ²	6"
120,000	60 in ²	30 in ²	7"

EXAMPLE: Determining Free Area.

Appliance 1 Appliance 2 Total Input

$100,000 + 30,000 = (130,000 \div 4,000) = 32.5$ Sq. In. Vertical

Appliance 1 Appliance 2 Total Input

$100,000 + 30,000 = (130,000 \div 2,000) = 65$ Sq. In. Horizontal

80EM SPECIFICATIONS

6 Piston

High Altitude Derate Orifice Size Chart (Natural and LP Gas*)

Input Rate kBTU/H	Number of Burner	Elevation (Ft)									
		0-2000		2000-4000		4000-6000		6000-8000		8000-10000	
		Nat	LP	Nat	LP	Nat	LP	Nat	LP	Nat	LP
40A	3	50	59	51	61	52	62	53	64	54	65
60B	3	45	55	47	56	48	56	49	57	51	57
80B	5	49	56	50	57	51	58	52	59	53	61
100C	6	49	56	50	57	51	58	52	59	53	61
120D	7	49	56	50	57	51	58	52	59	53	61

*LP orifice based on 10 in.w.c manifold pressure

The input to the furnace must be checked AFTER reorificing.

High Altitude Derate Orifice Size Chart (Natural and LP Gas*)

Input Rate kBTU/H	Number of Burner	Elevation (Ft)									
		0-2000		2000-4000		4000-6000		6000-8000		8000-10000	
		Nat	LP	Nat	LP	Nat	LP	Nat	LP	Nat	LP
40A	3	50	59	51	61	52	62	53	64	54	65
60B	3	45	55	47	56	48	56	49	57	51	57
80B	5	49	56	50	57	51	58	52	59	53	61
100C	6	49	56	50	57	51	58	52	59	53	61
120D	7	49	56	50	57	51	58	52	59	53	61

*LP orifice based on 10 in.w.c manifold pressure

The input to the furnace must be checked AFTER reorificing.

7 Wiring Diagrams

BZ33-80EM040A3; BZ33-80EM060B4; BZ33-80EM080B4; BZ33-80EM100C5; BZ33-80EM120D5

WARNING 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.

ALARM

TO ODU (OUTDOOR UNIT)

INTEGRATED CONTROL MODULE

IPM MODULE

TO THERMOSTAT

TO 115VAC

INTEGRATED CONTROL MODULE

IPM MODULE

TO 115VAC

IPM MODULE: * The Factory Default

FAN SPEED	
SW-1	OFF NORMAL SPEED * ON SLOWSPEED
SW-2	OFF WITHOUT REFRIGERANT SENSOR ON WITH REFRIGERANT SENSOR

SERIES OF PRODUCTS

80% GAS FURNACE *		96% GAS FURNACE	
SV2-4	TYPE	SV2-1	SV2-2
OFF	80A, 80B	OFF	80C
ON	80C	ON	100C
ON	120D	ON	120D

LED ERROR CODE		CONTENT	
STEADY ON	OFF	NORMAL OPERATION	POWER SUPPLY FAILURE
KEEP FLASHING	2s ON / 2s OFF	IDLE	INTER INTEGRATED CONTROL COMMUNICATION ERROR
1FLASH/CYCLE		MOTOR CURRENT ERROR	
2FLASH/CYCLE		INVERTER MODULE TEMPERATURE ERROR	
3FLASH/CYCLE		DC BUS VOLTAGE ERROR	
4FLASH/CYCLE		MOTOR PARAMETER ERROR	
5FLASH/CYCLE		MOTOR STARTUP FAILURE	
6FLASH/CYCLE		PHASE SEQUENCE ERROR	

LED2 ERROR CODE		CONTENT	
STEADY ON	OFF	NORMAL OPERATION	POWER SUPPLY FAILURE
6FLASH/CYCLE		NO MACHINE TYPE	

HEAT OFF DELAY		COOL OFF DELAY	
DIP SW	NOMINAL (SECONDS)	DIP SW	NOMINAL (SECONDS)
S2-1	S2-2	S2-3	S2-4
OFF	OFF	OFF	OFF
ON	ON	ON	ON
OFF	120	OFF	90
ON	150	OFF	120
ON	180	ON	150

TO 115V / 1/60 Hz POWER SUPPLY WITH OVERCURRENT PROTECTION DEVICE.

W2 DELAY	
DIP SW	NOMINAL (MINUTES)
S1-1	S1-2
OFF	OFF
ON	OFF
OFF	RESERVE
ON	RESERVE

TO 115VAC 60 Hz POWER SUPPLY WITH OVERCURRENT PROTECTION DEVICE.

Error code

Error code	Meaning
E1	Shorted pressure switch
E2	Open pressure switch
E3	reserve
E4	Open Pressure Switch locked
E5	Open thermal limit/rollout switch
E6	Open thermal limit/rollout switch/After 5 times
E7	Ignition failure lockec
E8	Flame loss locked
FE	Gas valve relay stuck closed
FL	Flame low
Pr	Power reversed
Fo	Fuse open
bE	board error
nL	Signal error

Operation code

Code	Meaning
--	idle
H1	1st heat
H2	2nd heat (reserve)
CF	continuous fan
C1	1st cooling
C2	2nd cooling
dF	defrost

SW1 Error Query

After pressing the SW1 key, the digital LED display the last 10 times error code. When the key is pressed once, the digital LED display one error code. The digital LED display the last error code first.

The wiring diagram shown is for reference only. It maybe different from the actual product.

Factory code	Date	Revision
16027600A01927	Mar. 10th, 2024	B

YEL YELLOW : **GY GRAY**

OR ORANGE : **RD RED**

PU PURPLE

GR GREEN

BK BLACK

BR BROWN

WH WHITE

BL BLUE

JUNCTION

TERMINAL

PLUG CONNECTION

EQUIPMENT GND

FIELD BND

FIELD SPLICE

FIELD INSTALLED

SWITCH (TEMP.)

IGNITER

SWITCH (PRESS.)

OVERCURRENT PROT. DEVICE

KEY

FACTORY OPTIONAL

NOTE:

- SET HEAT ANTICIPATOR ON ROOMTHERMOSTAT AT 0.7 AMPS.
- MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
- IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105°C. USE COPPER CONDUCTORS ONLY.
- BLOWER SPEEDS SHOULD BE ADJUSTED BY INSTALLER TO MATCH THE INSTALLATION REQUIREMENTS SO AS TO PROVIDE THE CORRECT COOLING CFM. (SEE SPECSHEET FOR AIR FLOW CHART)
- UNIT MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C. AND LOCAL CODES.

PCCM SPECIFICATIONS

Breeze33 Multi-Position Cased Coils

BZ33-PCCM Series Indoor A-Coil
Cooling capacity: 30-60 kBtu/h



Contents:

1 PRODUCT LINEUP.....	2
2 NOMENCLATURE	2
3 SPECIFICATIONS.....	3
4 DIMENSIONAL DRAWING.....	5
5 AIRFLOW PERFORMANCE.....	6



Standard Features:

- Equipped with a refrigerant sensor, suitable for R454b system.
- UL 60335 2-40 and AHRI certified.
- High efficiency and energy saving, AHRI energy efficiency certified.
- Multi-position installation accommodated a variety of installation scenarios.
- Broad cooling range from 55 °F to 120 °F.
- Optional factory installed Thermostatic Expansion Valve.
- All aluminum coil for corrosion-resistance.
- 100% insulation, reduces operating sound and enhance thermal insulation.
- Perfect match with Breeze33 gas furnace, no need extra kit for R454b system.

■ For the latest ratings, visit breeze33.com or AHRIdirectory.org

1 Product lineup

Model	BZ33-PCCM3036A, BZ33-PCCM3036B BZ33-PCCM3036C, BZ33-PCCM3642B BZ33-PCCM3642C, BZ33-PCCM3642D BZ33-PCCM4248B, BZ33-PCCM4248C BZ33-PCCM4248D, BZ33-PCCM4860C BZ33-PCCM4860D
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Appearance



2 Nomenclature

BZ33	-	P	CC	M	3036	A
1		2	3	4	5	6

Legend		
No.	Code	Remarks
1	BZ33	Brand: Breeze33
2	P	P: Piston X: TXV
3	CC	Cased Coil
4	M	Multi Position
5	3036	Capacity: 18: 18 kBtu/h; 24: 24 kBtu/h; 30: 30 kBtu/h; 36: 36 kBtu/h
6	A	Cabinet Width

PCCM SPECIFICATIONS

3 Specifications

	BZ33-PCCM3036A	BZ33-PCCM3036B	BZ33-PCCM3036C	BZ33-PCCM3642B
INSTALLATION	Multiple position	Multiple position	Multiple position	Multiple position
AIR OUTLET (W × H) (in.)	13 × 19	16 × 19	19-1/2 × 19	16 × 19
NOMINAL RATING				
Max. Cooling (BTU/h)	30,000/36,000	30,000/36,000	30,000/36,000	36,000/42,000
EVAPORATOR COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Material	Aluminum	Aluminum	Aluminum	Aluminum
Tube Size (in.)	9/32	9/32	9/32	9/32
REFRIGERANT CONNECTION SIZE				
Liquid Line Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size (O.D.) (in.)	3/4	3/4	3/4	3/4
DIMENSIONS				
Net dimensions (W × H × D) (in.)	14-1/2 × 20 × 21	17-1/2 × 20 × 21	21 × 20 × 21	17-1/2 × 26 × 21
Packed dimensions (W × H × D) (in.)	24-15/16 × 24-3/16 × 22-1/4	24-15/16 × 20-5/8 × 22-1/4	24-15/16 × 24-3/16 × 22-1/4	24-15/16 × 20-5/8 × 28-1/8
WEIGHT				
Net weight (lbs.)	45	47	49	57
Shipping weight (lbs.)	54	57	55	64

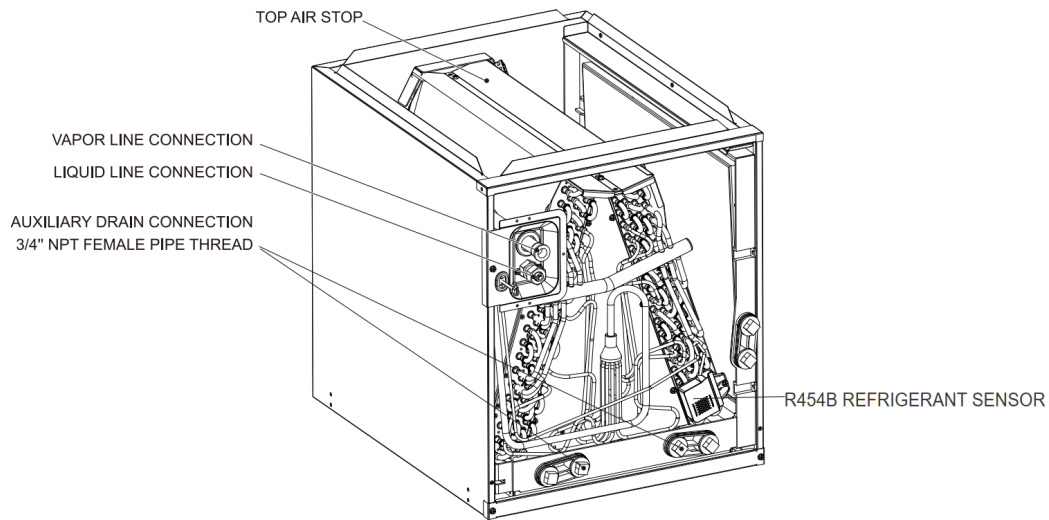
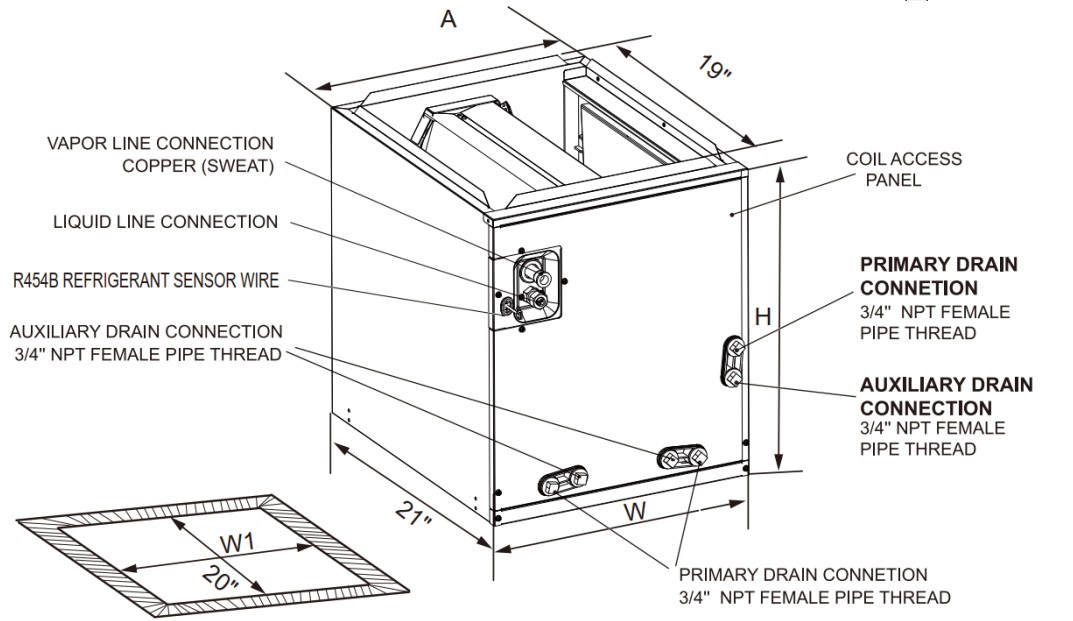
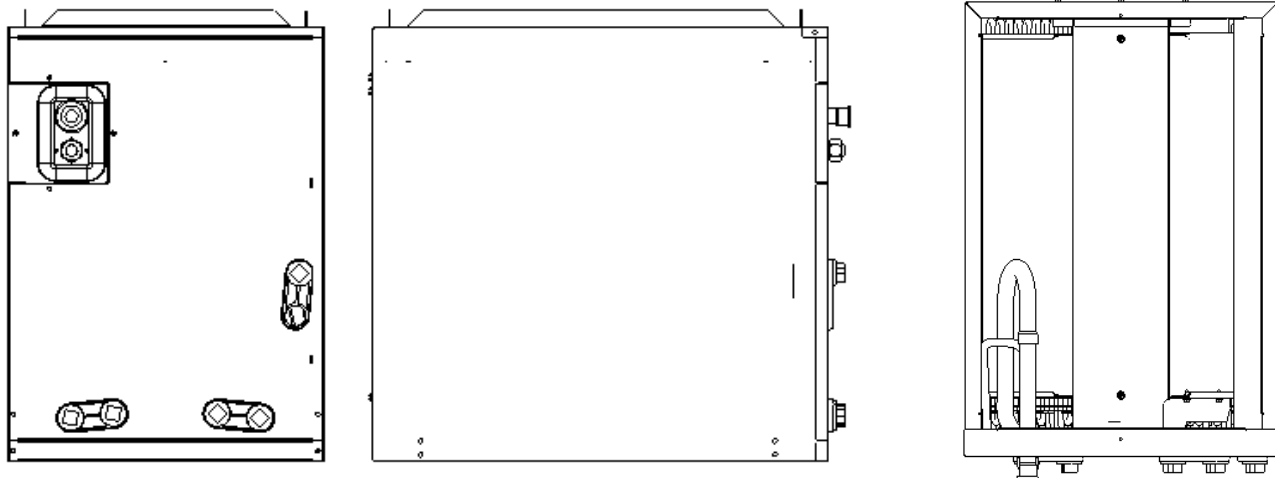
	BZ33-PCCM3642C	BZ33-PCCM3642D	BZ33-PCCM4248B	BZ33-PCCM4248C
INSTALLATION	Multiple position	Multiple position	Multiple position	Multiple position
AIR OUTLET (W × H) (in.)	19-1/2 × 19	23 × 19	16 × 19	19-1/2 × 19
NOMINAL RATING				
Max. Cooling (BTU/h)	36,000/42,000	36,000/42,000	42,000/48,000	42,000/48,000
EVAPORATOR COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Material	Aluminum	Aluminum	Aluminum	Aluminum
Tube Size (in.)	9/32	9/32	3/8	3/8
REFRIGERANT CONNECTION SIZE				
Liquid Line Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size (O.D.) (in.)	3/4	3/4	3/4	3/4
DIMENSIONS				
Net dimensions (W × H × D) (in.)	21 × 26 × 21	24-1/2 × 26 × 21	17-1/2 × 30 × 21	21 × 30 × 21
Packed dimensions (W × H × D) (in.)	24-15/16 × 24-3/16 × 28-1/8	24-15/16 × 27-9/16 × 28-1/8	24-15/16 × 20-5/8 × 32-5/16	24-15/16 × 24-3/16 × 32-5/16
WEIGHT				
Net weight (lbs.)	59	64	73	73
Shipping weight (lbs.)	66	70	79	79

PCCM SPECIFICATIONS

	BZ33-PCCM4248D	BZ33-PCCM4860C	BZ33-PCCM4860D
INSTALLATION	Multiple position	Multiple position	Multiple position
AIR OUTLET (W × H) (in.)	23 × 19	19-1/2 × 19	23 × 19
NOMINAL RATING			
Max. Cooling (BTU/h)	42,000/48,000	48,000/60,000	48,000/60,000
EVAPORATOR COIL			
Type	Tube & Fin	Tube & Fin	Tube & Fin
Tube Material	Aluminum	Aluminum	Aluminum
Tube Size (in.)	3/8	3/8	3/8
REFRIGERANT CONNECTION SIZE			
Liquid Line Size (O.D.) (in.)	3/8	3/8	3/8
Suction Line Size (O.D.) (in.)	3/4	3/4	3/4
DIMENSIONS			
Net dimensions (W × H × D) (in.)	24-1/2 × 30 × 21	21 × 30 × 21	24-1/2 × 30 × 21
Packed dimensions (W × H × D) (in.)	24-15/16 × 27-9/16 × 32-5/16	24-15/16 × 24-3/16 × 32-5/16	24-15/16 × 27-9/16 × 32-5/16
WEIGHT			
Net weight (lbs.)	75	82	86
Shipping weight (lbs.)	82	88	93

PCCM SPECIFICATIONS

4 Dimensional Drawing



PCCM SPECIFICATIONS

MODELS	Unit Dimensions IN. [mm]					WEIGHT (LBS. [kg])
	UNIT HEIGHT "H"	UNIT WIDTH "W"	SUPPLY DUCT "A"	"W1"	LIQUID LINE/ VAPOR LINE	
BZ33-PCCM3036A	20 [508]	14-1/2 [368]	13 [330]	13-1/2 [343]	3/8 / 3/4	44 [20]
BZ33-PCCM3036B	20 [508]	17-1/2 [445]	16 [407]	16-1/2 [419]	3/8 / 3/4	46 [21]
BZ33-PCCM3036C	20 [508]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	49 [22]
BZ33-PCCM3642B	26 [660]	17-1/2 [445]	16 [407]	16-1/2 [419]	3/8 / 3/4	57 [26]
BZ33-PCCM3642C	26 [660]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	59 [27]
BZ33-PCCM3642D	26 [660]	24-1/2 [622]	23 [584]	23-1/2 [597]	3/8 / 3/4	64 [29]
BZ33-PCCM4248B	30 [762]	17-1/2 [445]	16 [407]	16-1/2 [419]	3/8 / 3/4	73 [33]
BZ33-PCCM4248C	30 [762]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	73 [33]
BZ33-PCCM4248D	30 [762]	24-1/2 [622]	23 [584]	23-1/2 [597]	3/8 / 3/4	75 [34]
BZ33-PCCM4860C	30 [762]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	82 [37]
BZ33-PCCM4860D	30 [762]	24-1/2 [622]	23 [584]	23-1/2 [597]	3/8 / 3/4	86 [39]

5 Airflow Performance

Pressure drop characteristics for cooling (SCFM)								
Model	Pressure drop (Inches of water gauge)							
	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4
BZ33-PCCM3036A	307	485	618	729	823	911	991	1063
BZ33-PCCM3036B	327	527	682	810	925	1024	1122	1217
BZ33-PCCM3036C	360	585	748	893	1019	1132	1238	1348
BZ33-PCCM3642B	401	600	773	916	1045	1160	1256	1357
BZ33-PCCM3642C	457	663	856	1019	1156	1277	1394	1502
BZ33-PCCM3642D	496	718	924	1102	1259	1398	1530	1651
BZ33-PCCM4248B	456	638	810	953	1077	1191	1284	1390
BZ33-PCCM4248C	505	726	932	1098	1244	1375	1494	1604
BZ33-PCCM4248D	533	857	1105	1319	1509	1675	1824	1956
BZ33-PCCM4860C	439	699	906	1071	1224	1362	1487	1589
BZ33-PCCM4860D	466	764	978	1157	1313	1466	1590	1695

Data based on wet coil with entering air at 80 deg F DB / 67 deg F WB without air filter.

The maximum allowable pressure drop is 0.4 in. WC.

The maximum CFM is the data at 0.4 in. WC. pressure

Breeze33 Multi-Position Cased Coils

BZ33-XCCM Series Indoor A-Coil

Cooling capacity: 30-60 kBtu/h



Contents:


1 PRODUCT LINEUP.....	2
2 NOMENCLATURE.....	2
3 SPECIFICATIONS.....	3
4 DIMENSIONAL DRAWING.....	5
5 AIRFLOW PERFORMANCE.....	6



Standard Features:

- Equipped with a refrigerant sensor, suitable for R454b system .
- AHRI certificated.
- High efficiency and energy saving, AHRI energy efficiency certificated .
- Multi-position installation accommodated a variety of installation scenarios .
- Broad cooling range from 55 °F to 120 °F.
- Optional factory installed Thermostatic Expansion Valve .
- All aluminum coil for corrosion-resistance.
- 100% insulation, reduces operating sound and enhance thermal insulation.
- Perfect match with Breeze33 gas furnace, no need extra kit for R454b system.

1 Product lineup

Model	<p>BZ33-XCCM3036A, BZ33-XCCM3036B BZ33-XCCM3036C, BZ33-XCCM3642B BZ33-XCCM3642C, BZ33-XCCM3642D BZ33-XCCM4248B, BZ33-XCCM4248C BZ33-XCCM4248D, BZ33-XCCM4860C BZ33-XCCM4860D</p>
Appearance	

2 Nomenclature

BZ33	-	X	CC	M	3036	A
1		2	3	4	5	6

Legend		
No.	Code	Remarks
1	BZ33	Brand: Breeze33
2	X	P: Piston X: TXV
3	CC	Cased Coil
4	M	Multi Position
5	3036	Capacity: 18: 18 kBtu/h; 24: 24 kBtu/h; 30: 30 kBtu/h; 36: 36 kBtu/h;
6	A	Cabinet Width

XCCM SPECIFICATIONS

3 Specifications

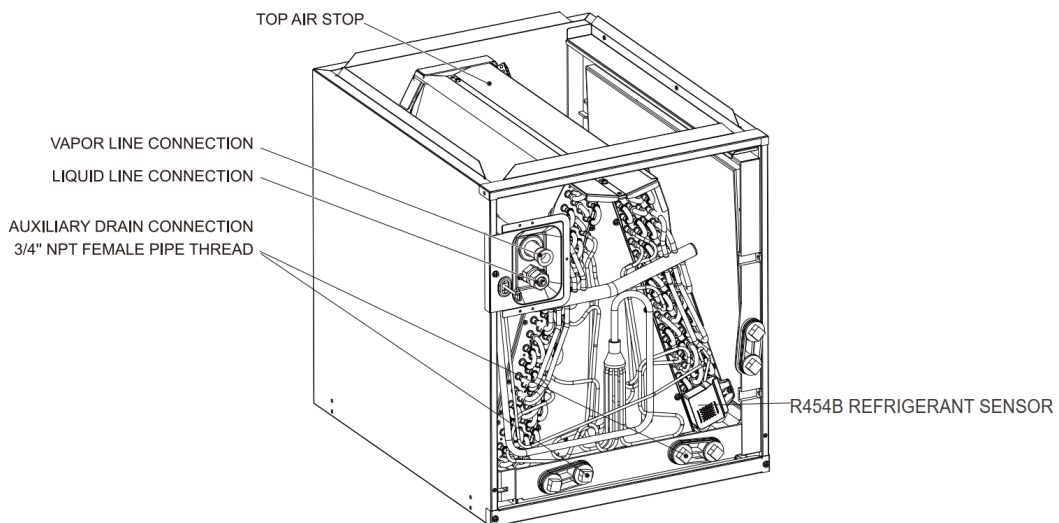
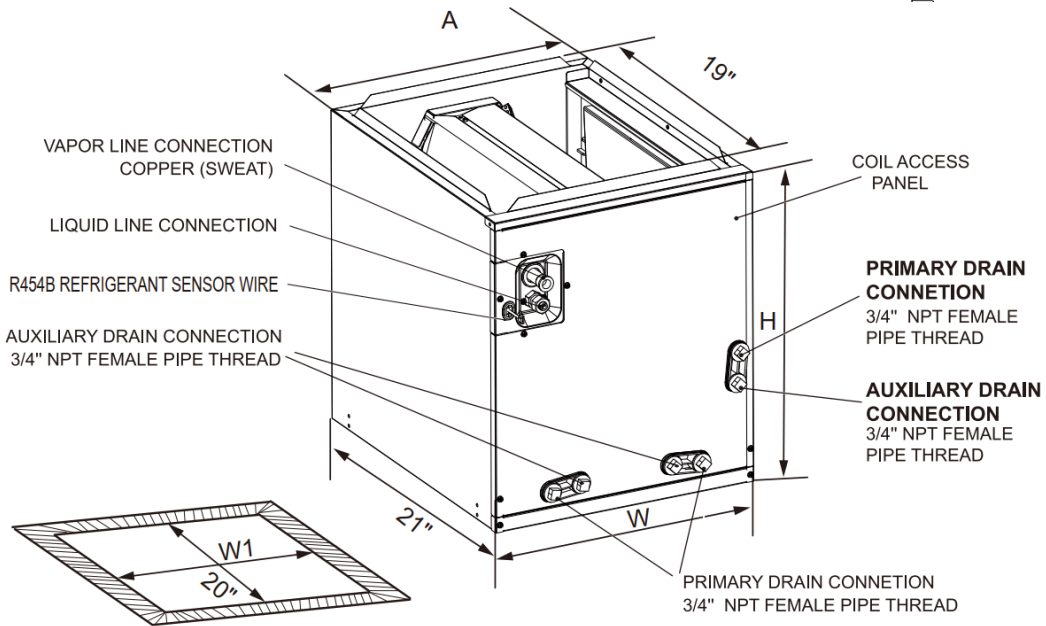
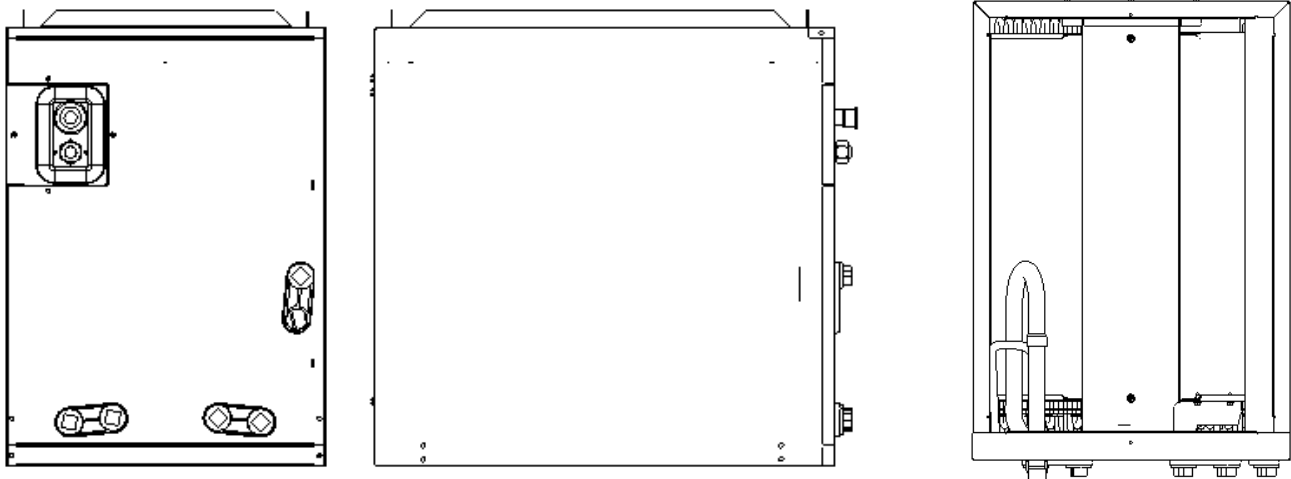
	BZ33-XCCM3036A	BZ33-XCCM3036B	BZ33-XCCM3036C	BZ33-XCCM3642B
INSTALLATION	Multiple position	Multiple position	Multiple position	Multiple position
AIR OUTLET (W × H) (in.)	13 × 19	16 × 19	19-1/2 × 19	16 × 19
NOMINAL RATING				
Max. Cooling (BTU/h)	30,000/36,000	30,000/36,000	30,000/36,000	36,000/42,000
EVAPORATOR COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Material	Aluminum	Aluminum	Aluminum	Aluminum
Tube Size (in.)	9/32	9/32	9/32	9/32
REFRIGERANT CONNECTION SIZE				
Liquid Line Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size (O.D.) (in.)	3/4	3/4	3/4	3/4
DIMENSIONS				
Net dimensions (W × H × D) (in.)	21 × 14-1/2 × 20	21 × 17-1/2 × 20	21 × 21 × 20	21 × 17-1/2 × 26
Packed dimensions (W × H × D) (in.)	24-15/16 × 24-3/16 × 22-1/4	24-15/16 × 20-5/8 × 22-1/4	24-15/16 × 24-3/16 × 22-1/4	24-15/16 × 20-5/8 × 28-1/8
WEIGHT				
Net weight (lbs.)	45	47	49	57
Shipping weight (lbs.)	54	57	55	64

	BZ33-XCCM3642C	BZ33-XCCM3642D	BZ33-XCCM4248B	BZ33-XCCM4248C
INSTALLATION	Multiple position	Multiple position	Multiple position	Multiple position
AIR OUTLET (W × H) (in.)	19-1/2 × 19	23 × 19	16 × 19	19-1/2 × 19
NOMINAL RATING				
Max. Cooling (BTU/h)	36,000/42,000	36,000/42,000	42,000/48,000	42,000/48,000
EVAPORATOR COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Material	Aluminum	Aluminum	Aluminum	Aluminum
Tube Size (in.)	9/32	9/32	3/8	3/8
REFRIGERANT CONNECTION SIZE				
Liquid Line Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size (O.D.) (in.)	3/4	3/4	3/4	3/4
DIMENSIONS				
Net dimensions (W × H × D) (in.)	21 × 21 × 26	21 × 24-1/2 × 26	21 × 17-1/2 × 30	21 × 21 × 30
Packed dimensions (W × H × D) (in.)	24-15/16 × 24-3/16 × 28-1/8	24-15/16 × 27-9/16 × 28-1/8	24-15/16 × 20-5/8 × 32-5/16	24-15/16 × 24-3/16 × 32-5/16
WEIGHT				
Net weight (lbs.)	59	64	73	73
Shipping weight (lbs.)	66	70	79	79

	BZ33-XCCM4248D	BZ33-XCCM4860C	BZ33-XCCM4860D
INSTALLATION	Multiple position	Multiple position	Multiple position
AIR OUTLET (W × H) (in.)	23 × 19	19-1/2 × 19	23 × 19
NOMINAL RATING			
Max. Cooling (BTU/h)	42,000/48,000	48,000/60,000	48,000/60,000
EVAPORATOR COIL			
Type	Tube & Fin	Tube & Fin	Tube & Fin
Tube Material	Aluminum	Aluminum	Aluminum
Tube Size (in.)	3/8	3/8	3/8
REFRIGERANT CONNECTION SIZE			
Liquid Line Size (O.D.) (in.)	3/8	3/8	3/8
Suction Line Size (O.D.) (in.)	3/4	3/4	3/4
DIMENSIONS			
Net dimensions (W × H × D) (in.)	21 × 24-1/2 × 30	21 × 21 × 30	21 × 24-1/2 × 30
Packed dimensions (W × H × D) (in.)	24-15/16 × 27-9/16 × 32-5/16	24-15/16 × 24-3/16 × 32-5/16	24-15/16 × 27-9/16 × 32-5/16
WEIGHT			
Net weight (lbs.)	75	82	86
Shipping weight (lbs.)	82	88	93

XCCM SPECIFICATIONS

4 Dimensional Drawing



MODELS	Unit Dimensions IN. [mm]					WEIGHT (LBS. [kg])
	UNIT HEIGHT "H"	UNIT WIDTH "W"	SUPPLY DUCT "A"	"W1"	LIQUID LINE/ VAPOR LINE	
BZ33-XCCM3036A	20 [508]	14-1/2 [368]	13 [330]	13-1/2 [343]	3/8 / 3/4	44 [20]
BZ33-XCCM3036B	20 [508]	17-1/2 [445]	16 [407]	16-1/2 [419]	3/8 / 3/4	46 [21]
BZ33-XCCM3036C	20 [508]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	49 [22]
BZ33-XCCM3642B	26 [660]	17-1/2 [445]	16 [407]	16-1/2 [419]	3/8 / 3/4	57 [26]
BZ33-XCCM3642C	26 [660]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	59 [27]
BZ33-XCCM3642D	26 [660]	24-1/2 [622]	23 [584]	23-1/2 [597]	3/8 / 3/4	64 [29]
BZ33-XCCM4248B	30 [762]	17-1/2 [445]	16 [407]	16-1/2 [419]	3/8 / 3/4	73 [33]
BZ33-XCCM4248C	30 [762]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	73 [33]
BZ33-XCCM4248D	30 [762]	24-1/2 [622]	23 [584]	23-1/2 [597]	3/8 / 3/4	75 [34]
BZ33-XCCM4860C	30 [762]	21 [533]	19-1/2 [495]	20 [508]	3/8 / 3/4	82 [37]
BZ33-XCCM4860D	30 [762]	24-1/2 [622]	23 [584]	23-1/2 [597]	3/8 / 3/4	86 [39]

5 Airflow Performance

Pressure drop characteristics for cooling (SCFM)								
Model	Pressure drop (Inches of water gauge)							
	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4
BZ33-XCCM3036A	307	485	618	729	823	911	991	1063
BZ33-XCCM3036B	327	527	682	810	925	1024	1122	1217
BZ33-XCCM3036C	360	585	748	893	1019	1132	1238	1348
BZ33-XCCM3642B	401	600	773	916	1045	1160	1256	1357
BZ33-XCCM3642C	457	663	856	1019	1156	1277	1394	1502
BZ33-XCCM3642D	496	718	924	1102	1259	1398	1530	1651
BZ33-XCCM4248B	456	638	810	953	1077	1191	1284	1390
BZ33-XCCM4248C	505	726	932	1098	1244	1375	1494	1604
BZ33-XCCM4248D	533	857	1105	1319	1509	1675	1824	1956
BZ33-XCCM4860C	439	699	906	1071	1224	1362	1487	1589
BZ33-XCCM4860D	466	764	978	1157	1313	1466	1590	1695

Data based on wet coil with entering air at 80 deg F DB / 67 deg F WB without air filter.

The maximum allowable pressure drop is 0.4 in. WC.

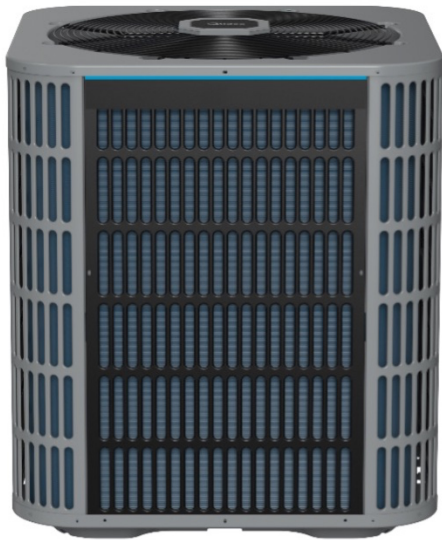
The maximum CFM is the data at 0.4 in. WC. pressure

AC134 SPECIFICATIONS

Breeze33 BZ33-AC134 Series Air Conditioner

13.4 SEER2

Cooling capacity: 18-60 kBtu/h



Contents:

1 PRODUCT LINEUP.....	2
2 NOMENCLATURE	2
3 SPECIFICATIONS.....	3
4 DIMENSIONS.....	5
5 WIRING DIAGRAMS	6



Standard Features:

- Eco-friendly R454B refrigerant with low GWP value.
- Energy-efficient compressor.
- Equipped with thermal overload protection.
- High-efficiency aluminum microchannel condenser.
- Service valves with sweat connections and easy-access gauge ports.
- Factory-installed high-pressure switch.
- AHRI certified and ETL listed.
- Filter drier included as accessory.


Cabinet Features:

- Compact design allows for ease of installation, clearance, durability, and maneuverability.
- Powder-painted galvanized steel cabinet chassis.
- Protective steel louvered coil guard.
- Steel wire axial fan guard
- ECM fan motor and unique blade style allowing for smooth discharge air and quieter operation.

■ For the latest ratings, visit breeze33.com or AHRIdirectory.org

AC134 SPECIFICATIONS

1 Product lineup

Model	BZ33-18AC134-454B BZ33-24AC134-454B BZ33-30AC134-454B BZ33-36AC134-454B	BZ33-42AC134-454B BZ33-48AC134-454B BZ33-60AC134-454B
Power supply	208/230V-1Ph-60Hz	
Appearance		

2 Nomenclature

BZ33	-	18	AC	134	-	454B
1		2	3	4		5

Legend		
No.	Code	Remarks
1	BZ33	Brand: Breeze33
2	18	Capacity: 18: 18kBtu/h; 24:24kBtu/h; 30:30kBtu/h; 36:36kBtu/h; 42:42kBtu/h; 48:48kBtu/h; 60: 60kBtu/h;
3	AC	Unit type: AC: Air Conditioner
4	134	Efficiency: 134: 13.4 SEER2
5	454B	Refrigerant Type: 454B : R454B

AC134 SPECIFICATIONS

3 Specifications

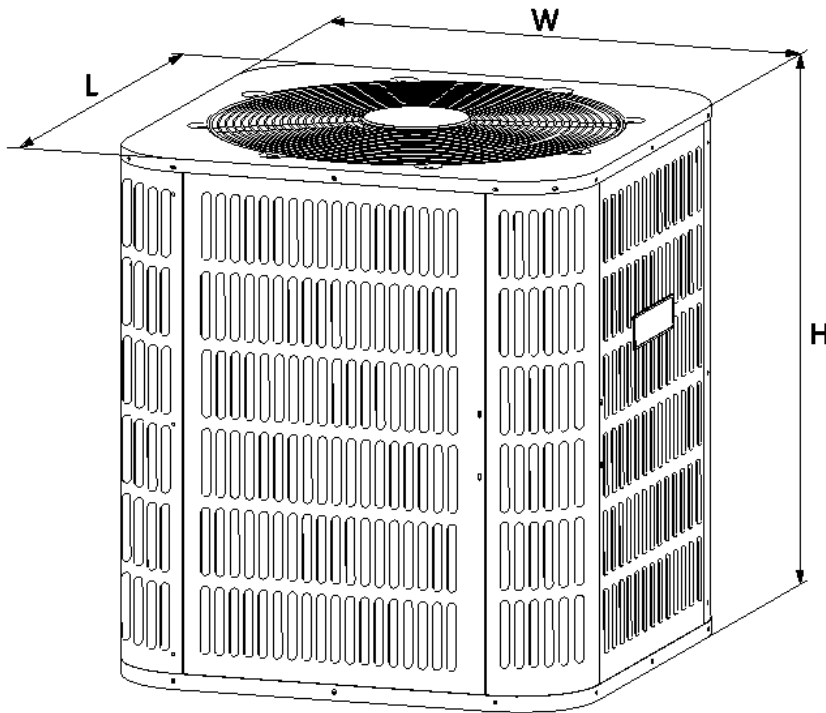
	BZ33-18AC134-454B	BZ33-24AC134-454B	BZ33-30AC134-454B	BZ33-36AC134-454B
NOMINAL CAPACITY Cooling (BTU/h)	17,600	23,600	27,600	33,600
ELECTRICAL DATA Voltage / Phase (60 Hz) Min. / Max. Voltage (V) Min. Circuit Amps (MCA) (A) Max. Overcurrent Protection (MOP) (A)	208/230V-1Ph 187/253 12.2 21.2	208/230V-1Ph 187/253 15.5 26.8	208/230V-1Ph 187/253 17.6 30.3	208/230V-1Ph 187/253 21.9 38.0
COMPRESSOR Type Stage Rated Load Amps (RLA) (A) Locked Rotor Amps (LRA) (A) Crankcase Heater	Rotary Single 9.0 40 No	Rotary Single 11.3 55 No	Rotary Single 12.7 55 No	Scroll Single 16.1 86 No
CONDENSER COIL Type	Micro-channel	Micro-channel	Micro-channel	Micro-channel
FAN MOTOR Motor Type Capacitor(uF) Horsepower (HP) Full Load Amps (FLA) (A)	ECM / 1/6 0.9	ECM / 1/6 1.3	ECM / 1/3 1.7	ECM / 1/3 1.7
REFRIGERATION SYSTEM Liquid Valve Size (O.D.) (in.) Suction Valve Size (O.D.) (in.) Liquid Line Size ("O.D.) (in.) Suction Line Size ("O.D.) (in.) Refrigerant Charge (lbs. - oz.)	3/8 3/4 3/8 3/4 3 lbs. 4 OZ.	3/8 3/4 3/8 3/4 3 lbs. 11 OZ.	3/8 3/4 3/8 3/4 4 lbs. 0 OZ.	3/8 3/4 3/8 3/4 3 lbs. 6 OZ.
SOUND POWER (dB(A))	73	75	75	77
OPERATION RANGE Cooling (°C) Cooling (°F)	12.7~48.9 55~120	12.7~48.9 55~120	12.7~48.9 55~120	12.7~48.9 55~120

AC134 SPECIFICATIONS

	BZ33-42AC134-454B	BZ33-48AC134-454B	BZ33-60AC134-454B
NOMINAL CAPACITY			
Cooling (BTU/h)	41,000	45,000	54,000
ELECTRICAL DATA			
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	24.9	29.1	36.9
Max. Overcurrent Protection (MOP) (A)	43.4	50.7	64.6
COMPRESSOR			
Type	Scroll	Scroll	Scroll
Stage	Single	Single	Single
Rated Load Amps (RLA) (A)	18.5	21.6	27.7
Locked Rotor Amps (LRA) (A)	96	95	125
Crankcase Heater	No	No	No
CONDENSER COIL			
Type	Micro-channel	Micro-channel	Micro-channel
FAN MOTOR			
Motor Type	ECM	ECM	ECM
Capacitor(uF)	/	/	/
Horsepower (HP)	1/3	1/3	1/3
Full Load Amps (FLA) (A)	1.7	2.1	2.2
REFRIGERATION SYSTEM			
Liquid Valve Size (O.D.) (in.)	3/8	3/8	3/8
Suction Valve Size (O.D.) (in.)	7/8	7/8	7/8
Liquid Line Size ("O.D.) (in.)	3/8	3/8	3/8
Suction Line Size ("O.D.) (in.)	7/8	7/8	1-1/8
Refrigerant Charge (lbs. - oz.)	4 lbs. 15 OZ.	5 lbs. 12 OZ.	6 lbs. 8 OZ.
SOUND POWER (dB(A))	78	78	80
OPERATION RANGE			
Cooling (°C)	12.7~48.9	12.7~48.9	12.7~48.9
Cooling (°F)	55~120	55~120	55~120

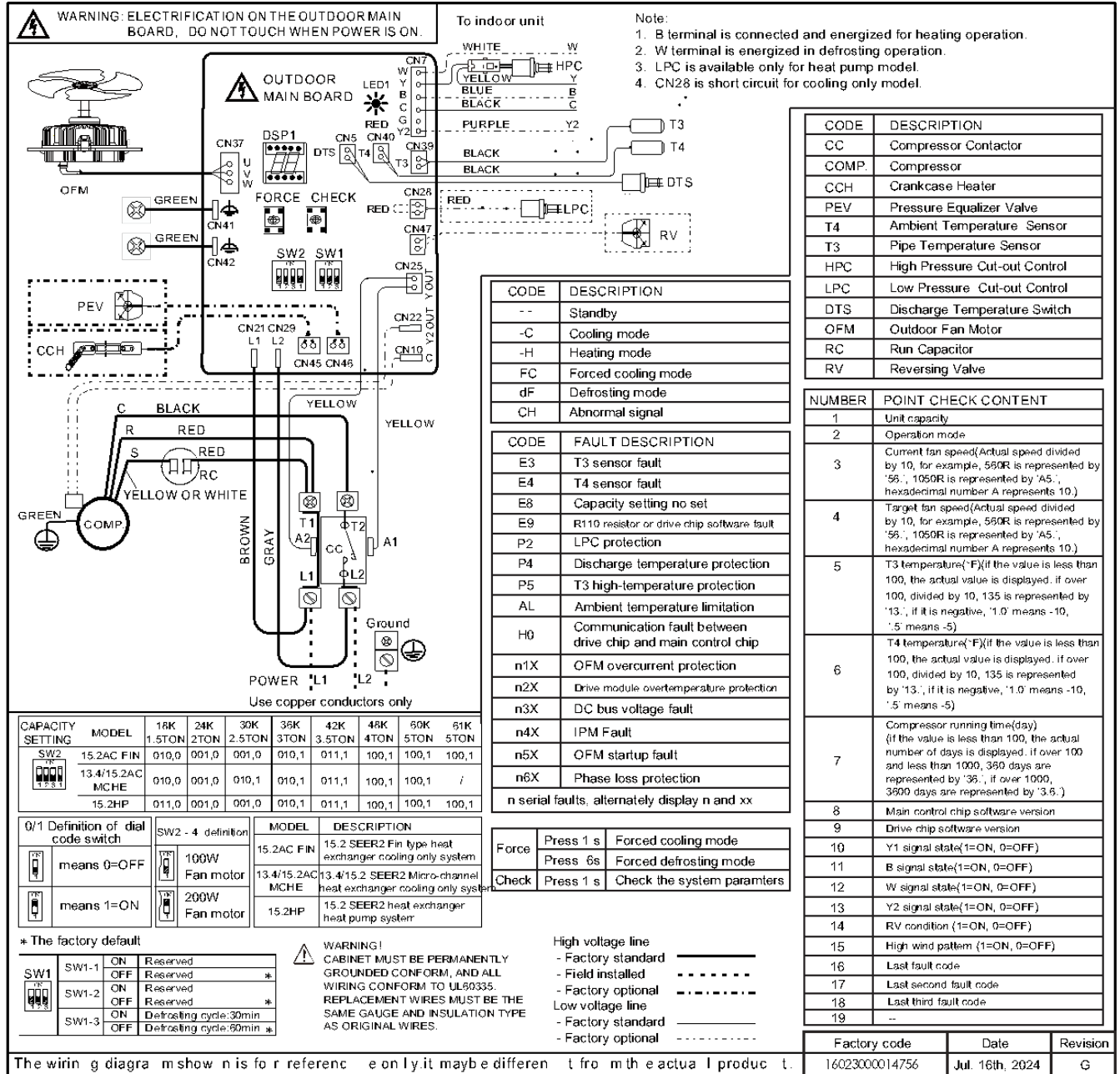
AC134 SPECIFICATIONS

4 Dimensions



Model Size	Unit Width "W" in. [mm]	Unit Height "H" in. [mm]	Unit Length "L" in. [mm]	Packing (W*H*D) in. [mm]	Unit Weight (lbs.[kg])
18	23-5/8 [600]	24-15/16 [633]	23-5/8 [600]	24-7/10 × 26-1/4 × 24-7/10 [628×667×628]	102 [48]
24	28 [710]	24-15/16 [633]	28 [710]	29 × 26-1/4 × 29 [738×667×738]	124 [56]
30	28 [710]	24-15/16 [633]	28 [710]	29 × 26-1/4 × 29 [738×667×738]	124 [56]
36	29-1/8 [740]	24-15/16 [633]	29-1/8 [740]	30-1/5 × 26-1/4 × 30-1/5 [768×667×768]	143 [65]
42	28 [710]	33-3/16 [843]	28 [710]	29 × 34-1/2 × 29 [738×877×738]	154 [70]
48	28 [710]	29-7/8 [759]	28 [710]	29 × 34-1/2 × 29 [738×794×738]	165 [75]
60	29-1/8 [740]	33-3/16 [843]	29-1/8 [740]	30-1/5 × 34-1/2 × 30-1/5 [768×877×768]	185 [84]

5 Wiring Diagram

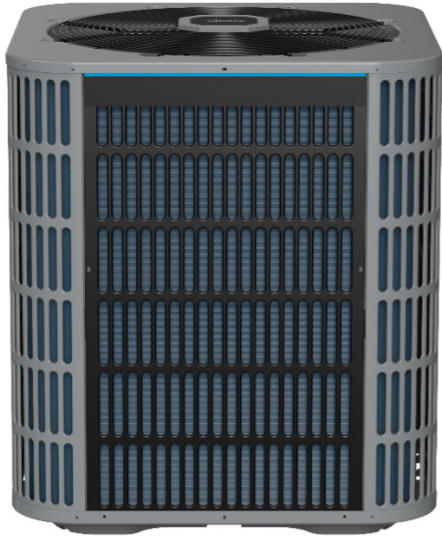


AC152 SPECIFICATIONS

Breeze33 BZ33-AC152 Series Air Conditioner

Up to 15.2 SEER2

Cooling capacity: 18-60 kBtu/h



Contents:

1 PRODUCT LINEUP.....	2
2 NOMENCLATURE.....	2
3 SPECIFICATIONS.....	3
4 OCTAVE BAND LEVELS.....	5
5 WIRING DIAGRAMS.....	6



Standard Features:

- Eco-friendly R454B refrigerant with low GWP value.
- Energy-efficient compressor.
- Equipped with thermal overload protection.
- High quality condenser with inner-groove copper tube and aluminum fin.
- Service valves with sweat connections and easy-access gauge ports.
- Factory-installed high-pressure switch.
- AHRI certified and ETL listed.
- Filter drier included as accessory.

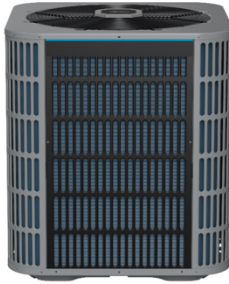
Cabinet Features:

- Compact design allows for ease of installation, clearance, durability, and maneuverability.
- Powder-painted galvanized steel cabinet chassis.
- Protective steel louvered coil guard.
- Steel wire axial fan guard.
- ECM fan motor and unique blade style allowing for smooth discharge air and quieter operation.

■ For the latest ratings, visit breeze33.com or AHRIdirectory.org

AC152 SPECIFICATIONS

1 Product lineup

Model	BZ33-18AC152-454B BZ33-24AC152-454B BZ33-30AC152-454B BZ33-36AC152-454B	BZ33-42AC152-454B BZ33-48AC152-454B BZ33-60AC152-454B
Power supply	208/230V-1Ph-60Hz	
Appearance		

2 Nomenclature

BZ33	-	18	AC	152	-	454B
1		2	3	4		5

Legend		
No.	Code	Remarks
1	BZ33	Brand: Breeze33
2	18	Capacity: 18: 18kBtu/h; 24:24kBtu/h; 30:30kBtu/h; 36:36kBtu/h; 42:42kBtu/h; 48:48kBtu/h; 60: 60kBtu/h; 61:60kBtu/h
3	AC	AC: Air Conditioner
4	152	Efficiency: 152: Up to 15.2 SEER2
5	454B	Refrigerant type: 454B: R454B

AC152 SPECIFICATIONS

3 Specifications

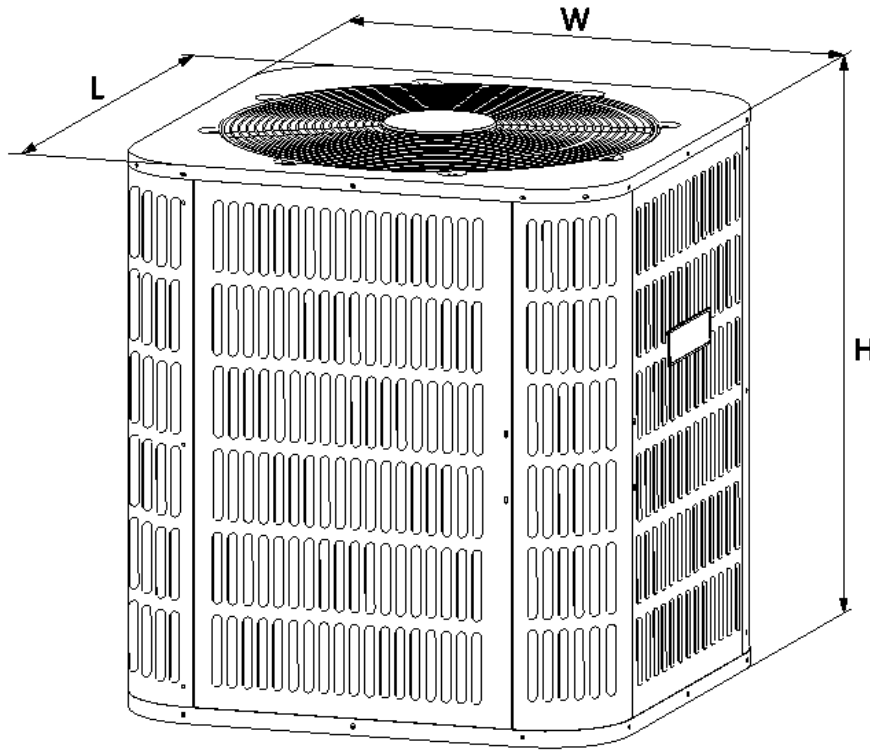
	BZ33-18AC152-454B	BZ33-24AC152-454B	BZ33-30AC152-454B	BZ33-36AC152-454B
NOMINAL CAPACITY Cooling (BTU/h)	17,800	23,800	28,000	33,600
ELECTRICAL DATA				
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	11.4	15.3	16.4	21.9
Max. Overcurrent Protection (MOP) (A)	19.9	26.5	28.4	38.3
COMPRESSOR				
Type	Rotary	Rotary	Rotary	Scroll
Stage	Single	Single	Single	Single
Rated Load Amps (RLA) (A)	8.4	11.2	12.1	16.3
Locked Rotor Amps (LRA) (A)	40	55	55	86
Crankcase Heater	No	No	No	No
CONDENSER COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size (O.D.) (in.)	3/16	3/16	3/16	3/16
FAN MOTOR				
Motor Type	ECM	ECM	ECM	ECM
Capacitor (uF)	/	/	/	/
Horsepower (HP)	1/6	1/6	1/6	1/3
Full Load Amps (FLA) (A)	0.9	1.3	1.2	1.5
REFRIGERATION SYSTEM				
Liquid Valve Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Valve Size (O.D.) (in.)	3/4	3/4	3/4	3/4
Liquid Line Size ("O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size ("O.D.) (in.)	3/4	3/4	3/4	3/4
Refrigerant Charge (lbs. - oz.)	4 lbs. 6 OZ.	4 lbs. 14 OZ.	6 lbs. 6 OZ.	5 lbs. 1 OZ.
SOUND POWER (dB(A))	73	75	75	77
OPERATION RANGE				
Cooling (°C)	12.7~48.9	12.7~48.9	12.7~48.9	12.7~48.9
Cooling (°F)	55~120	55~120	55~120	55~120

AC152 SPECIFICATIONS

	BZ33-42AC152-454B	BZ33-48AC152-454B	BZ33-60AC152-454B
NOMINAL CAPACITY			
Cooling (BTU/h)	41,000	45,000	54,000
ELECTRICAL DATA			
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	24.5	28.3	36.8
Max. Overcurrent Protection (MOP) (A)	42.6	49.3	64.5
COMPRESSOR			
Type	Scroll	Scroll	Scroll
Stage	Single	Single	Single
Rated Load Amps (RLA) (A)	18.2	21.0	27.8
Locked Rotor Amps (LRA) (A)	96	95	125
Crankcase Heater	No	No	No
CONDENSER COIL			
Type	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size (O.D.) (in.)	3/16	3/16	3/16
FAN MOTOR			
Motor Type	ECM	ECM	ECM
Capacitor (uF)	/	/	/
Horsepower (HP)	1/3	1/3	1/3
Full Load Amps (FLA) (A)	1.7	2.0	2.0
REFRIGERATION SYSTEM			
Liquid Valve Size (O.D.) (in.)	3/8	3/8	3/8
Suction Valve Size (O.D.) (in.)	7/8	7/8	7/8
Liquid Line Size ("O.D.) (in.)	3/8	3/8	3/8
Suction Line Size ("O.D.) (in.)	7/8	7/8	1-1/8
Refrigerant Charge (lbs. - oz.)	5 lbs. 12 OZ.	6 lbs. 4 OZ.	6 lbs. 0 OZ.
SOUND POWER (dB(A))	78	78	80
OPERATION RANGE			
Cooling (°C)	12.7~48.9	12.7~48.9	12.7~48.9
Cooling (°F)	55~120	55~120	55~120

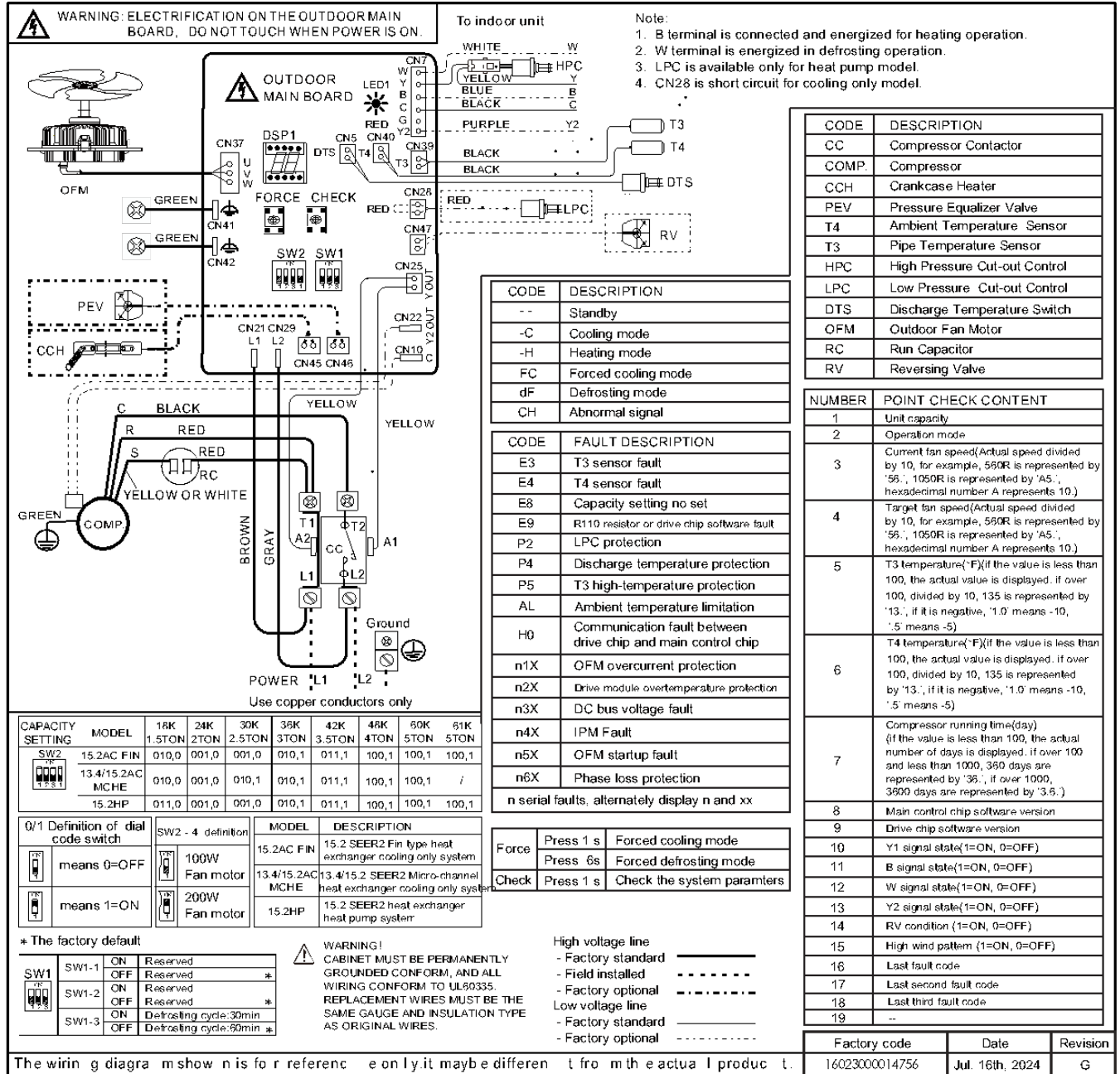
AC152 SPECIFICATIONS

4 Dimensions



Model Size	Unit Width "W" in. [mm]	Unit Height "H" in. [mm]	Unit Length "L" in. [mm]	Packing (W*H*D) in. [mm]	Unit Weight (lbs.[kg])
18	23-5/8 [600]	24-15/16 [633]	23-5/8 [600]	24-7/10 × 26-1/4 × 24-7/10 [628 × 667 × 628]	117 [53]
24	28 [710]	24-15/16 [633]	28 [710]	29 × 26-1/4 × 29 [738 × 667 × 738]	132 [60]
30	28 [710]	33-3/16 [843]	28 [710]	29 × 34-1/2 × 29 [738 × 877 × 738]	161 [73]
36	29-1/8 [740]	24-15/16 [633]	29-1/8 [740]	30-1/5 × 26-1/4 × 30-1/5 [768 × 667 × 768]	154 [70]
42	29-1/8 [740]	33-3/16 [843]	29-1/8 [740]	30-1/5 × 34-1/2 × 30-1/5 [768 × 877 × 768]	174 [79]
48	28 [710]	33-3/16 [843]	28 [710]	29 × 34-1/2 × 29 [738 × 877 × 738]	187 [85]
60	29-1/8 [740]	33-3/16 [843]	29-1/8 [740]	30-1/5 × 34-1/2 × 30-1/5 [768 × 877 × 768]	212 [96]

5 Wiring Diagram



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After Hours Emergency: 412-310-8228


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740-421-4758
354 West Main, Byesville, OH 43723
After Hours Emergency: 740-398-8653

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330-456-4508
1215 McKinley Ave., SW. Canton, OH 44707
After Hours Emergency: 330-933-5598


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216-881-5700
6420 Woodland Ave., Cleveland, OH 44104
After Hours Emergency: 216-570-8974


Cleveland West
216-529-1010
11200 Madison Ave., Cleveland, OH 44102
After Hours Emergency: 216-570-8974

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614-294-3500
1356 Cleveland Ave., Columbus, OH 43211
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Columbus West 
614-503-0875
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After Hours Emergency: 614-582-7832

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614-643-2377
711 Distribution Dr., Columbus, OH 43228
After Hours Emergency: 614-582-7832

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937-242-6980
1054 Gateway Dr. Dayton, Ohio 45404
After Hours Emergency: 614-314-9563

Erie 
814-314-1516
3003 Pittsburgh Ave. Erie, PA 16508
After Hours Emergency: 814-243-5141


Fremont
419-332-2636
641 South Front St., Fremont, OH 43420
After Hours Emergency: 419-455-5996

Lorain
440-245-6874
125 East 20th St., Lorain, OH 44052
After Hours Emergency: 440-654-3974

Mansfield 
419-524-0411
83 Smith Ave., Mansfield, OH 44905
After Hours Emergency: 419-571-9953


Maple Heights RDC
440-251-4755
5700 Lee Rd S., Maple Heights, Ohio 44137
After Hours Emergency: 440-251-4755

Melwood
412-622-8100
434 Melwood Ave., Pittsburgh, PA 15213
After Hours Emergency: 412-310-8228

Mentor 
440-391-5000
7300 Industrial Park Blvd., Mentor, OH 44060
After Hours Emergency: 440-479-3553

Mount Vernon
740-263-4313
330 Commerce Drive, Mount Vernon, OH 43050
After Hours Emergency: 567-241-8073

New Kensington
724-335-8343
419 Hileman Dr., New Kensington, PA 15068
After Hours Emergency: 412-780-6461

Newark 
740-345-9617
25 South 11th St., Newark, OH 43055
After Hours Emergency: 740-219-9623


North Hills
412-366-3143
331 Rochester Rd., Pittsburgh, PA 15237
After Hours Emergency: 412-522-8970

Pittsburgh RDC 
724-404-4021
72 E. Hillis St., Youngwood, PA 15697
After Hours Emergency: 724-221-0149


Sandusky
419-625-5354
1341 Olds St., Sandusky, OH 44870
After Hours Emergency: 419-656-0566

Sebring RDC
330-938-6350
350 Courtney Rd., Sebring, OH 44672
After Hours Emergency: 330-803-3492


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934 W. Adams St., Steubenville, OH 43952
After Hours Emergency: 1-304-914-1689

Toledo 
419-478-0343
220 Matzinger Rd., Toledo, OH 43612
After Hours Emergency: 419-392-2669


Toledo RDC
419-470-6590
4500 N Detroit Ave., Toledo, OH 43612
After Hours Emergency: 419-764-5578

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724-437-9806
85 Pittsburgh St., Uniontown, PA 15401
After Hours Emergency: 724-880-5131

Warren
330-369-2563
2436 Niles Rd., SE. Warren, OH 44484
After Hours Emergency: 330-509-9437

Washington 
724-225-8330
1110 W. Chestnut St., Washington, PA 15301
After Hours Emergency: 330-604-7372

Wheeling 
304-232-3310
2300 Market St., Wheeling, WV 26003
After Hours Emergency: 304-830-1324

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