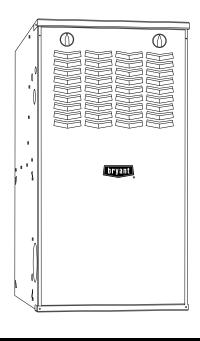
880TB/881TB

Evolution[®] 80 Two-Stage, 80% AFUE, Variable Speed, 4-Way Multipoise, Gas Furnace



Product Data



A180220

WARNING

This furnace is not designed for use in mobile homes, trailers, or recreational vehicles. Such use could result in property damage and/or death.

The Evolution 80 Two-stage, Variable-speed, 4-way Multipoise Gas Furnace offers outstanding comfort in an 80% AFUE furnace.

You get the benefits of Perfect Heat®: reduced drafts, reduced sound levels, longer cycles, less temperature swings between cycles, less temperature differences between rooms, and improved indoor air quality. Plus, it features a dehumidify mode and the ability to change continuous fan speeds from the thermostat. The 880TA/881TA furnaces are approved for use with natural or propane gas. 881TA models can be installed in California air quality management districts with a 40 ng/J NOx emissions limit.

Bryant Evolution® System When the Evolution 80 variable-speed gas furnace is matched with the Evolution 80 Control and Evolution 80 air conditioner or heat pump, you will experience the ultimate in Perfect Heat and Perfect Humidity through unparalleled control of temperature, humidity, indoor air quality, and zoning. The Bryant Evolution System also provides unprecedented ease of use through on-screen, text-based service reminders and equipment malfunction alerts.

PERFORMANCE

- Variable-speed, constant airflow ECM blower motor Increased SEER ratings for AC and HP systems when paired with select Bryant evaporator coil as compared to standard coil-only ratings.
- Perfect Heat® operation

Two-stage heating even with a single-stage thermostat through patented Adaptive Control Technology.

- Reduced operating sound through low-stage operation and sound elimination QuieTechTM combustion system.
- SmartEvap[™] feature for lower humidity levels during cooling season
- Perfect LightTM Igniter
- Bluetooth® provides enhanced serviceability and diagnostics.
- Microprocessor based control center
- 3 Digit Display shows fault codes and Furnace Status
- On-board NFC antenna makes setup a tap away when using the CarrierBryant service technician app. Stores fault codes during power outages
- RAT and SAT thermistors can provide temperature rise.
- · Draft Safeguard switch designed to ensure proper furnace venting
- Insulated blower compartment
- Inner blower door for tighter sealing

INSTALLATION FLEXIBILITY

- 4-way Multipoise furnace, 13 vent applications
- Compact design only 33-1/3 in. (847 mm) tall

APPLICATIONS

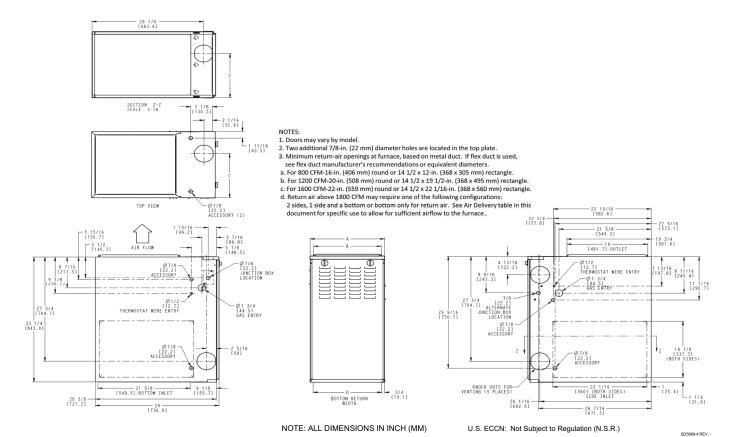
- HYBRID HEAT® Dual Fuel System compatible
- · All models are chimney friendly when used with accessory vent kit

CERTIFICATION

 Cabinet air leakage less than 2.0% at 1.0 in. w.c. and cabinet air leakage less than 1.4% at 0.5 in. w.c. when tested in accordance with ASHRAE standard 193



DIMENSIONAL DATA

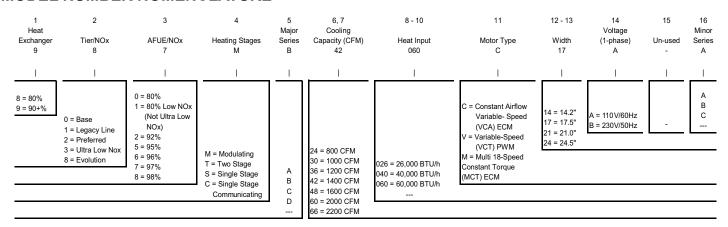


Dimensions

	Α	B C D	D			
FURNACE SIZE	CABINET WIDTH	OUTLET WIDTH	TOP AND BOTTOM FLUE COLLAR	BOTTOM INLET WIDTH	VENT CONNECTION SIZE	SHIP WT. LB (KG)
36045C17	17-1/2 (445)	15-7/8 (403)	11-9/16 (294)	16 (406)	4 (102)	122.5 (55.6)
36070C14	14-3/16 (360)	12-9/16 (319)	9-5/16 (237)	12-11/16 (322)	4 (102)	119.5 (54.2)
48070C17	17-1/2 (445)	15-7/8 (403)	11-9/16 (294)	16 (406)	4 (102)	132 (59.9)
60070C21	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	137 (62.1)
48090C17	17-1/2 (445)	15-7/8 (403)	11-9/16 (294)	16 (406)	4 (102)	134.5 (61.0)
60090C21	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	147.5 (66.9)
60110C21	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	152 (68.9)
66135C24	24-1/2 (622)	22-7/8 (581)	15-1/16 (383)	23 (584)	4 (102) [*]	174.5 (79.2)

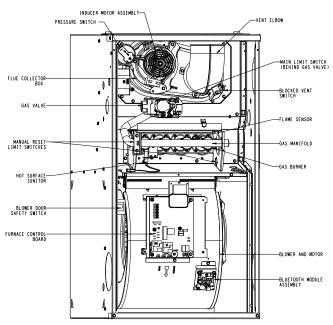
^{*. 135} size furnace require a 5 or 6-in. (127 or 152 mm) vent. Use a vent adapter between furnace and vent stack. See Installation Instructions for complete installation requirements.

MODEL NUMBER NOMENCLATURE



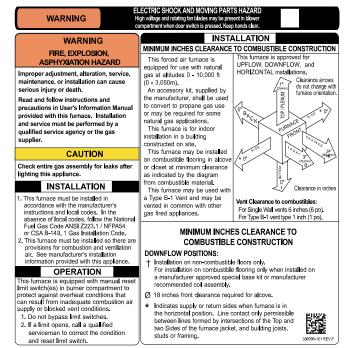
A220582

FURNACE COMPONENTS



NOTE: The furnaces are factory shipped for use with natural gas. These furnaces can be field-converted for propane gas with a factory-authorized and listed accessory conversion kit.

CLEARANCES



SPECIFICATIONS

UNI	T SIZE		36045C17	36070C14	48070C17	60070C21	48090C17	60090C21	60110C21	66135C24
HEATING AND CAPA		FICIENCY				1				
	All Standard,	High	44,000	66,000	66,000	66,000	88,000	88,000	110,000	132,000
_	Low NOx- Upflow	Low	29,000	43,500	43,500	43,500	58,000	58,000	72,500	87,000
Input BTUh*	Low Nox	High	42,000	63,000	63,000	63,000	84,000	84,000	105,000	126,000
	Downflow/ Horizontal	Low	29,000	43,500	43,500	43,500	58,000	58,000	72,500	87,000
	All Standard,	High	35,000	54,000	53,000	53,000	71,000	71,000	89,000	107,000
Output Capacity	Low NOx- Upflow	Low	23,000	35,000	35,000	35,000	47,000	47,000	59,000	70,000
(BTUh) [†]	Low Nox	High	34,000	51,000	51,000	51,000	68,000	68,000	85,000	102,000
	Downflow/ Horizontal	Low	23,000	35,000	35,000	35,000	47,000	47,000	59,000	70,000
Certified Temperatur	re Rise	High	30-60 (17-33)	30-60 (17-33)	25-55 (14-31)	25-55 (14-31)	40-70 (22-39)	25-55 (14-31)	40-70 (22-39)	40-70 (22-39)
Range - °F (°C)		Low	20-50 (11-28)	30-60 (17-33)	15-45 (8-25)	15-45 (8-25)	30-60 (17-33)	15-45 (8-25)	25-55 (14-31)	25-55 (14-31)
AFUE [†]					80	1%				
AIRFLOW CAPACITY	Y AND BLOWE	R DATA								
Rated Certified External Static		Heating	0.10	0.12	0.12	0.12	0.15	0.15	0.20	0.20
Pressure		Cooling	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
	F	ligh Heat	630	1030	1175	1174	1175	1650	1445	1815
Airflow CFM @ Rated ESP (CFM) [‡]	I	Low Heat		650	1040	1025	965	1445	1315	1700
		Cooling	1565	1355	1650	2070	1455	2270	2245	2240
Direct Drive Motor H	Р		3/4	1/2	3/4	1	1/2	1	1	1
Motor Full Load Am			8.8	6.7	8.8	11.5	6.7	11.5	11.5	11.7
Heating Blower Con	` ` `					90, 120 (facto	• •			
Cooling Blower Con	trol (Time Dela	y Relay)	44 0	40.0	,	e: 90 (factory-	,, , ,		44 40	44 44
Blower Wheel Diame	eter x Width -	ln. (mm)	11 x 8 (279x203)	10 x 6 (254x152)	11 x 8 (279x203)	11 x 10 (279x254)	10 x 8 (254x203)	11 x 11 (279x279)	11 x 10 (279x254)	11 x 11 (279x279)
Air Filtration System	1					Field Sup	olied Filter			
Filter used for Certif	ied Watt Data					32553	1-40**			
ELECTRICAL DATA										
Unit Volts-Hertz-Pha	se					115-	60-1			
Operating Voltage Range		Min-Max				104	-127		,	
Maximum Unit Amps	3		10.5	8.0	10.5	13.8	8.6	14.4	14.7	13.9
Unit Ampacity			13.8	10.7	13.8	18.0	11.3	18.5	18.8	17.8
Maximum Wire Leng (Measure 1 way in Fi			26 (7.9)	34 (10.4)	26 (7.9)	31 (9.4)	32 (9.8)	31 (9.4)	30 (9.1)	32 (9.8)
Minimum Wire Size		AWG	14	14	14	12	14	12	12	12
Max. Fuse/Ckt Bkr Size (Time-Delay Type Recommended)		Amps	15	15	15	20	15	20	20	20
Transformer Capacit	ty (24 VAC out	put)			1	40	VA	1	ı	

SPECIFICATIONS (Continued)

UNI	Γ SIZE	36045C17	36070C14	48070C17	60070C21	48090C17	60090C21	60110C21	66135C24	
External Control	Heating	24VA								
Power Available	Cooling				35	VA				
GAS CONTROLS										
Burners		2	3	3	3	4	4	5	6	
Gas Connection Size)				1/2-in	. NPT				
Gas Valve (Redundant)	Mfr				WhiteRo	odgers™				
Min. inlet pressure	(in.w.c.)				4.5 (Nati	ural Gas)				
Max. inlet pressure	(in.w.c.)				13.6 (Nat	ural Gas)				
Ignition Device		Silicon Nitride								
Factory installed ori	fice				Size	e 43				
CONNECTIONS										
Communication Sys	tem			Ev	olution®; Ev	olution® Zoni	ng			
Thermostat Connect	ions	R, W/W1, W2, Y/Y2, Y1, G, Com 24V, DHUM								
Accessory Connecti	ons		E	AC-1 (115 VA	AC); HUM (24	VAC); 1-ST	G AC (via Y/Y	2)		

Gas input ratings are certified for elevations to 2000 ft. (610 M). In USA, For elevations above 2000 ft (610 M), reduce ratings 4 percent for each 1000 ft (305 M) above sea level. Refer to National Fuel Gas Code NFPA 54/ANSI Z223.1 Table F.4 or furnace installation instructions.
 Capacity in accordance with U.S. Government DOE test procedures.

Airflow shown is for bottom only return-air supply for the as-shipped speed tap. For air delivery above 1800 CFM, see Air Delivery table for other options. A filter is required for each return-air supply. An airflow reduction of up to 7 percent may occur when using the factory-specified 4-5/16-in. (110 mm) wide, high efficiency media filter.

^{**.} See Accessory List for part numbers available.

AIR DELIVERY—CFM (With Filter)*

					360450	C17							
Available Cooling Airflow Settings (CFM)	488 1138	525 1200	555 1225	600 1300	650 1400	700 1480	740 1600	*800	875	925	975	1000	†1050
Available Constant Fan	[‡] 488							000	075	005	075	4000	4050
Airflow Settings (CFM)	+488 1138	525 1200	555 1225	600	650	700	740	800	875	925	975	1000	1050
Annow Coungs (or m)		low	ESP (ii	n wc)									
Airflow reduces by 2% -	14		,	.7									
3% per 0.1 of ESP above		80	0	.5									
the noted static for these airflow settings	16	00	0	.3									
airnow settings													
Max Cooling ESP	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1			
**Max Cooling CFM	1695	1670	1640	1605	1565	1530	1490	1445	1400	1360			
													1
	ſ				360700		1	ı		. *	1	ſ	T
Available Cooling Airflow	400	450	488	525	555	600	650	700	740	*800	875	925	975
Settings (CFM)	1000	†1050	1138	1200	1225	1300	1400						
Available Constant Fan	[‡] 400	450	488	525	555	600	650	700	740	800	875	925	975
Airflow Settings (CFM)	1000	1050	1138										
Airflow reduces by 2% -		low	ESP (i										
3% per 0.1 of ESP above		00	-	.8									
the noted static for these	12			.8									
airflow settings		00		.6									
	14		0.3	.4	0.5	0.0	0.7	0.0	0.0	4			
M 0 U E0D				11/4	0.5	0.6	0.7	0.8	0.9	1			
Max Cooling ESP	0.1	0.2								4455			
Max Cooling ESP **Max Cooling CFM	1430	1430	1420	1390	1355	1315	1275	1235	1195	1155			
						1315				1155			
**Max Cooling CFM		1430			1355	1315 C17				1155 925	975	1000	*1050
	1430	1430 525	1420 555	1390	1355 480700 650	1315 C17 700	1275 740	1235	1195		975	1000	*1050
Max Cooling CFM Available Cooling Airflow Settings (CFM)	1430 488 1138	1430 525 1200	1420 555 1225	1390 600 1300	1355 480700 650 †1400	1315 C17 700 1480	740 1600	1235 800	1195 875	925			
Available Cooling Airflow Settings (CFM)	1430 488 1138 ‡488	525 1200 525	1420 555 1225 555	1390	1355 480700 650	1315 C17 700	1275 740	1235	1195		975 975	1000	*1050 1050
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM)	1430 488 1138 [‡] 488 1138	1430 525 1200 525 1200	555 1225 555 1225	600 1300 600	1355 480700 650 †1400	1315 C17 700 1480	740 1600	1235 800	1195 875	925			
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% -	1430 488 1138 ‡488 1138 Airflow	525 1200 525	555 1225 555 1225 ESP (ii	600 1300 600	1355 480700 650 †1400	1315 C17 700 1480	740 1600	1235 800	1195 875	925			
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above	1430 488 1138 ‡488 1138 Airflow	1430 525 1200 525 1200 Setting	555 1225 555 1225 ESP (ii	600 1300 600 n. w.c.)	1355 480700 650 †1400	1315 C17 700 1480	740 1600	1235 800	1195 875	925			
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these	1430 488 1138 ‡488 1138 Airflow	1430 525 1200 525 1200 Setting 80	555 1225 555 1225 ESP (ii	600 1300 600 n. w.c.)	1355 480700 650 †1400	1315 C17 700 1480	740 1600	1235 800	1195 875	925			
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings	1430 488 1138 ‡488 1138 Airflow	1430 525 1200 525 1200 Setting 80	555 1225 555 1225 ESP (ii	600 1300 600 n. w.c.)	1355 480700 650 †1400	1315 C17 700 1480	740 1600	1235 800	1195 875	925			
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP	1430 488 1138 ‡488 1138 Airflow 14 16	525 1200 525 1200 Setting 80 00	555 1225 555 1225 ESP (ii 0	1390 600 1300 600 n. w.c.)	1355 480700 650 †1400 650 0.5	1315 700 1480 700 0.6	740 1600 740	800 800 0.8	875 875 0.9	925			
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings	1430 488 1138 ‡488 1138 Airflow 14	1430 525 1200 525 1200 Setting 80 00	555 1225 555 1225 ESP (ii	600 1300 600 n. w.c.)	1355 480700 650 †1400 650	1315 217 700 1480 700	740 1600 740	800 800	875 875	925			
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP	1430 488 1138 ‡488 1138 Airflow 14 16	525 1200 525 1200 Setting 80 00	555 1225 555 1225 ESP (ii 0	1390 600 1300 600 n. w.c.)	1355 480700 650 †1400 650 0.5 1650	1315 700 1480 700 0.6 1645	740 1600 740	800 800 0.8	875 875 0.9	925			
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP Max Cooling CFM	1430 488 1138 ‡488 1138 Airflow 14 16 0.1 1655	525 1200 525 1200 Setting 80 00	1420 555 1225 555 1225 ESP (ii 0 0 0.3 1655	600 1300 600 n. w.c.) .9 .7	1355 480700 650 †1400 650 0.5 1650 600700	1315 700 1480 700 0.6 1645	740 1600 740 0.7 1615	800 800 0.8 1570	875 875 0.9 1520	925 925 1 1475	975	1000	1050
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP Max Cooling CFM Available Cooling Airflow	1430 488 1138 ‡488 1138 Airflow 14 16 0.1 1655	1430 525 1200 525 1200 Setting 80 00 0.2 1655	555 1225 555 1225 ESP (ii 0 0 0 0.3 1655	1390 600 1300 600 n. w.c.) .9 .7	1355 480700 650 †1400 650 0.5 1650 600700 875	1315 700 1480 700 0.6 1645	740 1600 740 0.7 1615	800 800 0.8 1570	875 875 0.9	925			
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP **Max Cooling CFM Available Cooling Airflow Settings (CFM)	1430 488 1138 ‡488 1138 Airflow 14 16 0.1 1655 650 1400	525 1200 525 1200 Setting 80 00 0.2 1655 700 1480	1420 555 1225 555 1225 ESP (ii 0 0 0 0 1655 740 1600	1390 600 1300 600 n. w.c.) 9 .7 0.4 1655 800 1625	1355 480700 650 †1400 650 0.5 1650 600700 875 †1750	1315 C17 700 1480 700 0.6 1645 C21 925 1850	740 1600 740 0.7 1615	800 800 800 0.8 1570	875 875 0.9 1520	925 925 1 1 1475	975	1000	1050
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP **Max Cooling CFM Available Cooling Airflow Settings (CFM) Available Constant Fan	1430 488 1138 [‡] 488 1138 Airflow 14 16 0.1 1655 650 1400 [‡] 650	525 1200 525 1200 Setting 80 00 0.2 1655 700 1480 700	1420 555 1225 555 1225 ESP (ii 0 0 0 0 0 1655 740 1600 740	1390 600 1300 600 n. w.c.) .9 .7	1355 480700 650 †1400 650 0.5 1650 600700 875	1315 700 1480 700 0.6 1645	740 1600 740 0.7 1615	800 800 0.8 1570	875 875 0.9 1520	925 925 1 1475	975	1000	1050
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP **Max Cooling CFM Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM)	1430 488 1138 [‡] 488 1138 Airflow 14 16 0.1 1655 650 1400 [‡] 650 1400	1430 525 1200 525 1200 Setting 80 00 0.2 1655 700 1480 700 1480	1420 555 1225 555 1225 ESP (II 0 0 0 0 1655 740 1600 740 1600	1390 600 1300 600 n. w.c.) 9 .7 0.4 1655 800 1625 800	1355 480700 650 †1400 650 0.5 1650 600700 875 †1750	1315 C17 700 1480 700 0.6 1645 C21 925 1850	740 1600 740 0.7 1615	800 800 800 0.8 1570	875 875 0.9 1520	925 925 1 1475	975	1000	1050
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP **Max Cooling CFM Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% -	1430 488 1138 ‡488 1138 Airflow 14 16 0.1 1655 650 1400 ‡650 1400 Airflow	1430 525 1200 525 1200 Setting 80 00 0.2 1655 700 1480 700 1480 low	1420 555 1225 555 1225 ESP (ii 0 0 0 0 1655 740 1600 740 1600 ESP (ii	1390 600 1300 600 n. w.c.) 9 .7 0.4 1655 800 1625 800	1355 480700 650 †1400 650 0.5 1650 600700 875 †1750	1315 C17 700 1480 700 0.6 1645 C21 925 1850	740 1600 740 0.7 1615	800 800 800 0.8 1570	875 875 0.9 1520	925 925 1 1475	975	1000	1050
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP **Max Cooling CFM Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above	1430 488 1138 ‡488 1138 Airflow 14 16 0.1 1655 650 1400 ‡650 1400 Airflow	1430 525 1200 525 1200 Setting 80 00 0.2 1655 700 1480 700 1480 6low 50	1420 555 1225 555 1225 ESP (ii 0 0 0 0.3 1655 740 1600 740 1600 ESP (ii 0	1390 600 1300 600 n. w.c.) 9 .7 0.4 1655 800 1625 800 n. w.c.)	1355 480700 650 †1400 650 0.5 1650 600700 875 †1750	1315 C17 700 1480 700 0.6 1645 C21 925 1850	740 1600 740 0.7 1615	800 800 800 0.8 1570	875 875 0.9 1520	925 925 1 1475	975	1000	1050
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP **Max Cooling CFM Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these	1430 488 1138 ‡488 1138 Airflow 14 16 0.1 1655 650 1400 ‡650 1400 Airflow	1430 525 1200 525 1200 Setting 80 00 0.2 1655 700 1480 700 1480 6low 50	1420 555 1225 555 1225 ESP (ii 0 0 0.3 1655 740 1600 740 1600 ESP (ii 0 0	1390 600 1300 600 n. w.c.) 9 .7 0.4 1655 800 1625 800	1355 480700 650 †1400 650 0.5 1650 600700 875 †1750	1315 C17 700 1480 700 0.6 1645 C21 925 1850	740 1600 740 0.7 1615	800 800 800 0.8 1570	875 875 0.9 1520	925 925 1 1475	975	1000	1050
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP **Max Cooling CFM Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above	1430 488 1138 ‡488 1138 Airflow 14 16 0.1 1655 650 1400 ‡650 1400 Airflow 1400	1430 525 1200 525 1200 Setting 80 00 0.2 1655 700 1480 700 1480 6low 50	1420 555 1225 555 1225 ESP (ii 0 0 0.3 1655 740 1600 740 1600 ESP (ii 0 0	1390 600 1300 600 n. w.c.) 9 .7 0.4 1655 800 1625 800 n. w.c.)	1355 480700 650 †1400 650 0.5 1650 600700 875 †1750	1315 C17 700 1480 700 0.6 1645 C21 925 1850	740 1600 740 0.7 1615	800 800 800 0.8 1570	875 875 0.9 1520	925 925 1 1475	975	1000	1050
Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these airflow settings Max Cooling ESP **Max Cooling CFM Available Cooling Airflow Settings (CFM) Available Constant Fan Airflow Settings (CFM) Airflow reduces by 2% - 3% per 0.1 of ESP above the noted static for these	1430 488 1138 ‡488 1138 Airflow 14 16 0.1 1655 650 1400 ‡650 1400 Airflow 1400	1430 525 1200 525 1200 Setting 80 00 0.2 1655 700 1480 700 1480 6low 50	1420 555 1225 555 1225 ESP (ii 0 0 0.3 1655 740 1600 740 1600 ESP (ii 0 0	1390 600 1300 600 n. w.c.) 9 .7 0.4 1655 800 1625 800 n. w.c.)	1355 480700 650 †1400 650 0.5 1650 600700 875 †1750	1315 C17 700 1480 700 0.6 1645 C21 925 1850	740 1600 740 0.7 1615	800 800 800 0.8 1570	875 875 0.9 1520	925 925 1 1475	975	1000	1050

AIR DELIVERY—CFM (With Filter)* (Continued)

					480900	C17							
Available Cooling Airflow	400	450	488	525	555	600	650	700	740	800	875	925	975
Settings (CFM)	1000	*1050	1138	1200	1225	1300	†1400	1480	1600				
Available Constant Fan	[‡] 400	450	488	525	555	600	650	700	740	800	875	925	975
Airflow Settings (CFM)	1000	1050	1138	020	333	000	000	700	740	000	0/3	323	373
		low		n. w.c.)									
Airflow reduces by 2% -		00	,	.9									
3% per 0.1 of ESP above		00	_	.7									
the noted static for these	14		0	.5									
airflow settings	16	00	0	.1									
Max Cooling ESP	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1			
*Max Cooling CFM	1595	1560	1525	1490	1455	1420	1385	1340	1280	1220			
		· L	Į.	Į.			!						
					600900	C21							
Available Cooling Airflow	650	700	740	800	875	925	975	1000	1050	1138	1200	1225	*1300
Settings (CFM)	1400	1480	1600	1625	†1750	1850	1911	2000	2100	2179	2200		
Available Constant Fan												4005	4000
Available Constant Fan Airflow Settings (CFM)	[‡] 650	700	740	800	875	925	975	1000	1050	1138	1200	1225	1300
Airilow Settings (Crivi)	1400	1480	1600	n \									
Airflow reduces by 2% -		Setting 00	•	n. w.c.)									
3% per 0.1 of ESP above		00	_	.8 .7									
the noted static for these	21			.6									
airflow settings	22			.5									
Max Cooling ESP	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1			
9	2290				2270		_	2130	2070	-			
**Max Cooling CFM	2290	2290	2290	2285	2270	2230	2185	2130	2070	2015			
					004400	204							
					601100								*
Available Cooling Airflow	650	700	740	800	875	925	975	1000	1050	1138	1200	1225	^1300
Settings (CFM)	1400	1480	1600	1625	†1750	1850	1911	2000	2100	2179	2200		
Available Constant Fan	[‡] 650	700	740	800	875	925	975	1000	1050	1138	1200	1225	1300
Airflow Settings (CFM)	1400	1480	1600										
Airflow reduces by 20/	Airflow	Setting	ESP (i	n. w.c.)									
Airflow reduces by 2% - 3% per 0.1 of ESP above	20	00	0	.9									
the noted static for these	21			.7									
airflow settings	21			.6									
_	22	:00	0	.5									
Max Cooling ESP	0.1	0.2	0.3	0.4	0.5	0.6	0.7	8.0	0.9	1			
**Max Cooling CFM	2270	2270	2270	2270	2245	2200	2150	2100	2050	1995			
					661350								
Available Cooling Airflow	550	600	650	700	740	800	875	925	975	1000	1050	1138	1200
Settings (CFM)	1225	1300	*1400	1480	1600	1625	1750	1850	†1911	2000	2100	2179	
Available Constant Fan	[‡] 550	600	650	700	740	800	875	925	975	1000	1050	1138	1200
Airflow Settings (CFM)	1225	1300	1400										
Aluflanous de la CCC		Setting	ESP (i	n. w.c.)									
Airflow reduces by 2% -	19)11		.9									
3% per 0.1 of ESP above	20	00	0	.7									
the noted static for these		00	_	.6									
	21	00	U	.0									
airflow settings	21 22			.4									
					0.5	0.6	0.7 2135	0.8	0.9	1			

^{*.} Low Cooling Default

^{†.} High Cooling Default

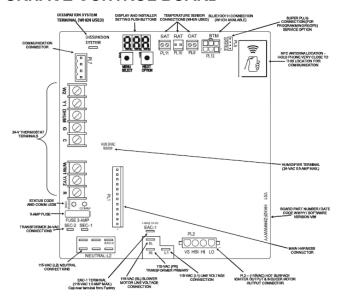
†. Constant Fan Default Not Recommended

**. Max Cooling values are test CFM all other airflows are standard CFM

TYPICAL WIRING SCHEMATIC

---- FIELD 24-VOLT WIRING ---- FIELD 115-, 208/230-, 460-VOLT WIRING ---- FACTORY 24-VOLT WIRING ---- FACTORY 115-VOLT WIRING NOTE 2 1-STAGE THERMOSTAT TERMINALS (W) (D) (Y) FIELD-SUPPLIED FUSED DISCONNECT FIVE WIRE THREE-WIRE 208/230- OR 460-VOLT ONLY PHASE (W2) (001) WWI 208/230 VOLT SINGLE PHASE NOTE 1 ≑GND (1/12) 115-VOLT FIELD-SUPPLIED FUSED JUNCTION BOX R CONTROL CONDENSING DISCONNECT BOX 24-VOLT TERMINAL NOTES: 1. Connect Y/Y2-terminal as shown for proper operation. 2. Some thermostats require a "C" terminal connection as shown. 3. If any of the original wire, as supplied, must be replaced, use BLOCK FURNACE same type or equivalent wire. A95236

FURNACE CONTROL BOARD

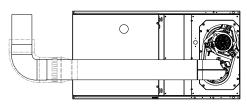


A230451

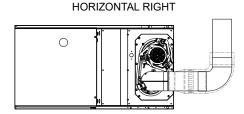
A02065

A02067

VENTING CONFIGURATIONS

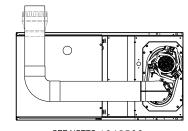


SEE NOTES: 1,2,4,5,7,8,9

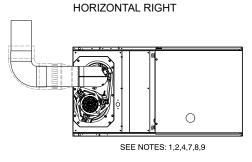


HORIZONTAL RIGHT

SEE NOTES: 1,2,4,7,8,9



SEE NOTES: 1,2,4,5,7,8,9



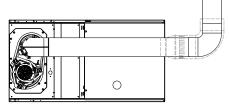
HORIZONTAL LEFT

A02068

A02069

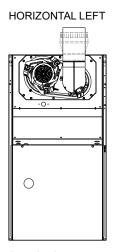
A02070





SEE NOTES: 1,2,4,5,7,8,9

SEE NOTES: 1,2,4,5,7,8,9

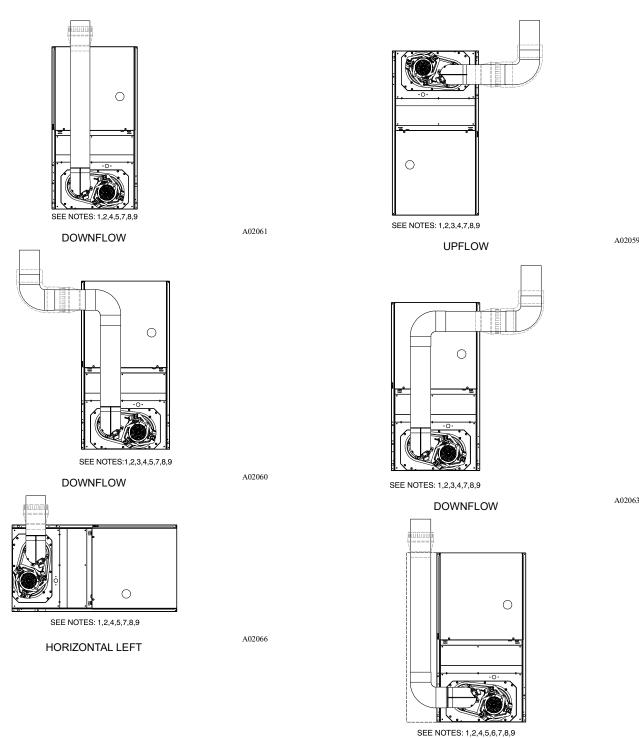


SEE NOTES: 1,2,4,7,8,9

UPFLOW

A02058

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



VENTING NOTES

 For common vent, vent connector sizing and vent material: United States, latest edition of the National Fuel Gas Code (NFGC), ANSI Z223.1/NFPA 54.

A02062

DOWNFLOW

- 2. Immediately increase to 5-in. (127 mm) vent connector outside furnace casing when 5-in. (127 mm) vent connector required, refer to Note 1.
- 3. Side outlet vent for upflow and downflow installations must use Type B vent immediately after exiting the furnace, except when Downflow Vent Guard is used in downflow position.
- 4. Type B vent where required, refer to Note 1.
- 5. 4-in. (102 mm) single wall vent must be used inside furnace casing and the Downflow Vent Guard Kit.
- 6. Accessory Downflow Vent Guard Kit required in downflow installations with bottom vent configuration.
- 7. Chimney Adapter Kit required for exterior masonry chimney applications. Refer to Chimney Adapter Kits for sizing and complete application details.
- 8. Secure vent connector to furnace elbow with (2) corrosion-resistant sheet metal screws, space approximately 180 apart.
- 9. Secure all other single wall vent connector joints with (3) corrosion-resistant screws spaced approximately 120 apart. Secure Type B vent connectors per vent connector manufacturer's recommendations.

ACCESSORIES

PART NUMBER	DESCRIPTION	36045C17	36070C14	48070C17	60070C21
ACG1425NCB [*]	External Filter Rack, 14-1/2 x 25"	-	Х	-	-
ACG1625NCF [*]	External Filter Rack, 16 x 25"	X	-	Х	-
ACG2025NCJ*	External Filter Rack, 20 x 25"*	-	-	-	Х
325531-402 [*]	Washable filter, 3/4" x 16" x 25"*	Х	Х	Х	-
325531-403 [*]	Washable filter, 3/4" x 21" x 25"*	-	-	-	Х
KGACA02014FC	Chimney Adapter Kit, up to or equal to 110K BTUh	X	Х	Х	Х
KGAFE0112UPH	Flue Extension	Х	Х	Х	Х
KGAVE0101DNH	Vent Extension Kit	X	Х	Х	Х
KGASB0201ALL	Combustible Floor Base (Not required when evaporator coil case is used for downflow)	Х	Х	Х	Х
KGBVG0101DFG	Downflow Vent Guard (Not required when vent is routed through cabinet)	Х	Х	Х	Х
AGAGC8NPS01B*	Natural-to-Propane Conversion Kit [†]	X	Х	Х	Х
AGAGC8PNS01B*	Propane-to-Natural Conversion Kit*	Х	Х	Х	Х
KGAHA5801PSW	High Altitude Pressure Switch Kit	X	Х	Х	Х
SYSTXBB	Evolution®; Evolution® Zoning	Х	Х	X	Х

PART NUMBER	DESCRIPTION	48090C17	60090C21	60110C21	66135C24
ACG1625NCF*	External Filter Rack, 16 x 25"	Х	-	-	-
ACG2025NCJ*	External Filter Rack, 20 x 25"*	-	Х	Х	-
ACG2424NCL*	External Filter Rack, 24-1/2 x 24"*	-	-	-	Х
325531-402 [*]	Washable filter, 3/4" x 16" x 25"*	Х	-	-	-
325531-403 [*]	Washable filter, 3/4" x 21" x 25"*	-	Х	Х	-
325531-404 [*]	Washable filter, 3/4" x 24" x 25"*	-	-	-	Х
KGACA02014FC	Chimney Adapter Kit, up to or equal to 110K BTUh	X	X	X	-
KGACA02015FC	Chimney Adapter Kit, greater than or equal to 135K BTUh	-	-	-	X
KGAFE0112UPH	Flue Extension	X	X	X	X
KGAVE0101DNH	Vent Extension Kit	Х	Х	Х	X
KGASB0201ALL	Combustible Floor Base (Not required when evaporator coil case is used for downflow)	Х	Х	Х	Х
KGBVG0101DFG	Downflow Vent Guard (Not required when vent is routed through cabinet)	Х	Х	Х	Х
AGAGC8NPS01B*	Natural-to-Propane Conversion Kit*	Х	Х	Х	Х
AGAGC8PNS01B*	Propane-to-Natural Conversion Kit*	Х	Х	Х	Х
KGAHA5801PSW	High Altitude Pressure Switch Kit	Х	Х	Х	Х
SYSTXBB	Evolution®; Evolution® Zoning	Х	X	Х	Х

^{*.} Factory-authorized and field installed. Fuel conversion kits are CSA (formerly AGA/CGA) recognized. X = Accessory

^{*.} Purchased through Replacement Components
†. Factory-authorized and field installed. Fuel conversion kits are CSA (formerly AGA/CGA) recognized.

X = Accessory

ACCESSORIES (continued)

	ORIFICES	
Gas Orifice Kit - #42 (Nat Gas)	LH32DB207	
Gas Orifice Kit - #43 (Nat Gas)	LH32DB202	
Gas Orifice Kit - #44 (Nat Gas)	LH32DB200	
Gas Orifice Kit - #45 (Nat Gas)	LH32DB205	
Gas Orifice Kit - #46 (Nat Gas)	LH32DB208	
Gas Orifice Kit - #47 (Nat Gas)	LH32DB078	See Installation Instructions for model, altitude,
Gas Orifice Kit - #48 (Nat Gas)	LH32DB076	and heat value usages.
Gas Orifice Kit - #54 (LP)	LH32DB203	
Gas Orifice Kit - #55 (LP)	LH32DB201	
Gas Orifice Kit - #56 (LP)	LH32DB206	
Gas Orifice Kit - 1.25mm (LP)	LH32DB209	
Gas Orifice Kit - 1.30mm (LP)	LH32DB210	

DESCRIPTION	ACCESSORY
HUMIDIFIER	Model HUM
HEAT RECOVERY VENTILATOR	Model HRV
ENERGY RECOVERY VENTILATOR	Model ERV
UV LIGHTS	Model UVL

• Bryant has a wide variety of thermostats for your system, please visit www.Bryant.com to see all thermostat and IAQ products.

DESCRIPTION	ACCESSORY	14"	17"	21"	24"
Bryant Carbon Monoxide Alarm (10 pack)t	COALMBBNRB02-A10	Х	Х	Х	Х
Bryant Evolution Air Purifier - 16x25 (407x635 mm)	DGAPAXX1625	Х	Х	-	-
Bryant Evolution Air Purifier - 20x25 (508x635 mm)	DGAPAXX2025	-	-	Х	Х
Bryant Evolution Air Purifier Repl. Filter- 16x25 (407x635 mm)	GAPBBCAR1625-A05	Х	Х	-	-
Bryant Evolution Air Purifier Repl. Filter- 20x25 (508x635 mm)	GAPBBCAR2025-A05	-	-	Х	Х
Cartridge Media Filter - 16" (407 mm) (MERV 11)	FILXXCAR0116	Х	Х	-	-
Cartridge Media Filter - 16" (407 mm) (MERV 8)	FILXXCAR0016	Х	Х	-	-
Cartridge Media Filter - 20" (508 mm) (MERV 8)	FILXXCAR0020	-	-	Х	-
Cartridge Media Filter - 20" (508 mm) (MERV11)	FILXXCAR0120	-	-	Х	-
Cartridge Media Filter - 24" (610 mm) (MERV 8)	FILXXCAR0024	-	-	-	Х
Cartridge Media Filter - 24" (610 mm) (MERV11)	FILXXCAR0124	-	-	-	Х
EZ Flex Cabinet Side or Bottom - 16"	EZXCABCR0016	X	Х	-	-
EZ Flex Cabinet Side or Bottom - 20"	EZXCABCR0020	-	-	Х	Х
EZ Flex Replacement Filters 16" MERV 10	EXPXXFIL0016	Х	Х	-	-
EZ Flex Replacement Filters 16" MERV 13	EXPXXFIL0316	X	Х	-	-
EZ Flex Replacement Filters 20" MERV 10	EXPXXFIL0020	-	-	Х	-
EZ Flex Replacement Filters 20" MERV 13	EXPXXFIL0320	-	-	Х	-
EZ Flex Replacement Filters 24" MERV 10	EXPXXFIL0024	-	-	-	Х
EZ Flex Replacement Filters 24" MERV 13	EXPXXFIL0324	-	-	-	Х
EZ-Flex Filter with End Caps - 16" (407 mm) (MERV 10)	EXPXXUNV0016	Х	Х	-	-
EZ-Flex Filter with End Caps - 16" (407 mm) (MERV 13)	EXPXXUNV0316	X	Х	-	-
EZ-Flex Filter with End Caps - 20" (508 mm) (MERV 10)	EXPXXUNV0020	-	-	Х	-
EZ-Flex Filter with End Caps - 20" (508 mm) (MERV 13)	EXPXXUNV0320	-	-	Х	-
EZ-Flex Filter with End Caps - 24" (610 mm) (MERV 10)	EXPXXUNV0024	-	-	-	Х
EZ-Flex Filter with End Caps - 24" (610 mm) (MERV 13)	EXPXXUNV0324	-	-	-	Х
Media Filter Cabinet - 20"	FILCABXL0020	-	-	Х	-
Media Filter Cabinet - 24"	FILCABXL0024	-	-	-	Х
Media Filter Cabinet -16"	FILCABXL0016	X	Х	-	-

880TB/881TB: Product Data

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