

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS' HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(f)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____

Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name Four Point Refrigeration

Address 3149 Rt 88

Brent Pleasant NJ. 08742

Telephone (732) 899 6704

Signature [Signature]

III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

**24ABB3
Base™ 13 Air Conditioner
with Puron® Refrigerant**



Turn to the Experts

Product Data

INDUSTRY LEADING FEATURES / BENEFITS

Efficiency

- 13.0 - 13.2 SEER/10.8- 11.0 EER (based on tested combinations)
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 75 dBA
- Sound level as low as 74 dBA with accessory sound blanket

Comfort

- System supports Edge® Thermostat™ or standard thermostat controls

Reliability

- Puron® refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Filter drier
- Balanced refrigeration system for maximum reliability

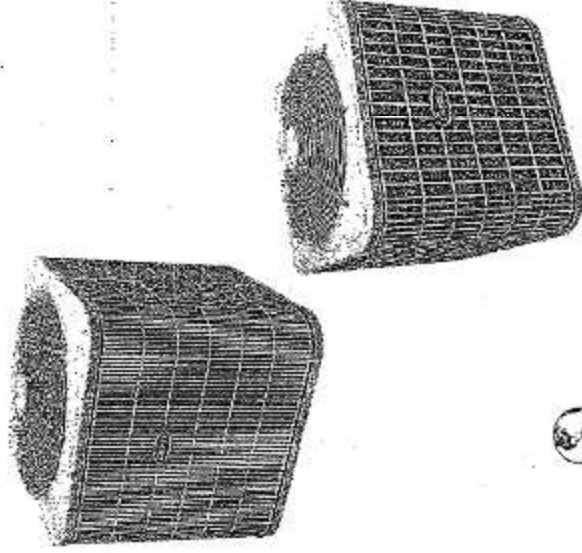
Durability

WeatherArmor™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard available
(3-phase units come standard with dense wire coil guard)
- Baked-on, complete outer coverage, powder paint

Applications

- Long-line - up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient (down to -20°F/-28.9°C)) with accessory kit



Carrier's Air Conditioners with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 24ABB has been designed utilizing Carrier's Puron refrigerant. The environmentally sound refrigerant allows you to make a responsible decision in the protection of the earth's ozone layer.

As an Energy Star® Partner, Carrier Corporation has determined that this product meets the Energy Star® guidelines for energy efficiency. Refer to the combination ratings in the Product Data for system combinations that meet Energy Star® guidelines.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

DIMENSIONS - ENGLISH

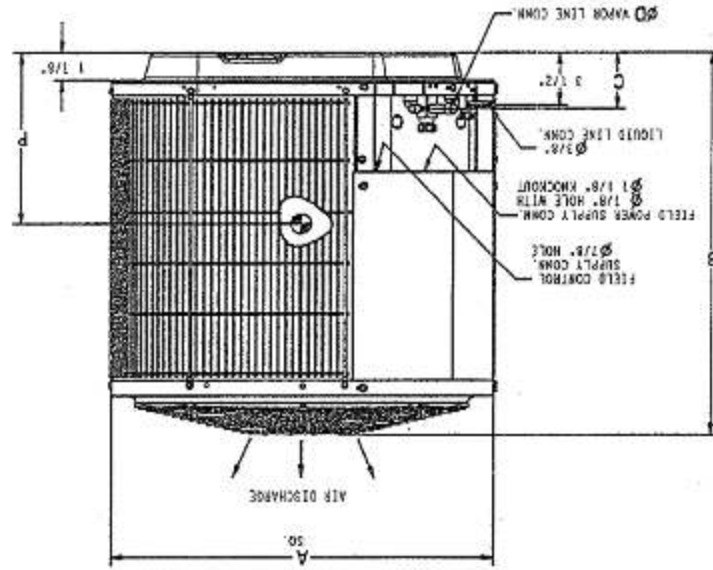
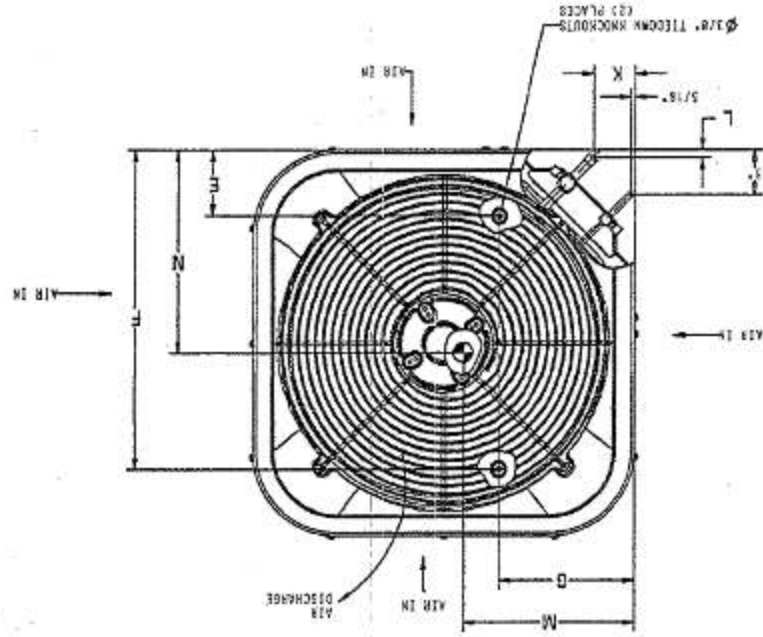
24ABBS

UNIT	SERIES	ELECTRICAL CHARACTERISTICS												SHIPPING WEIGHT (lbs)		SHIPPING DIMENSIONS (L x W x H)	
24ABBS18	1/2	X	O	O	O	0	23 1/8"	25 5/16"	3 3/4"	3 3/4"	4 1/16"	18 1/16"	1 13/16"	12 1/2"	15 1/2"	24 1/4" x 21 3/8" x 35 1/2"	
24ABBS24	1	X	O	O	O	0	23 1/8"	25 5/16"	3 3/4"	3 3/4"	4 1/16"	18 1/16"	1 13/16"	12 1/2"	15 1/2"	24 1/4" x 21 3/8" x 35 1/2"	
24ABBS30	1	X	O	X	O	0	23 1/8"	25 5/16"	3 3/4"	3 3/4"	4 1/16"	18 1/16"	1 13/16"	12 1/2"	15 1/2"	24 1/4" x 21 3/8" x 35 1/2"	
24ABBS36	1	X	X	X	X	0	25 3/4"	27 5/16"	3 3/4"	3 3/4"	4 1/16"	21 1/4"	1 13/16"	12 1/2"	15 1/2"	26 7/8" x 30 1/8" x 35 15/16"	
24ABBS42	2	X	O	X	X	0	32 3/16"	32 5/16"	3 3/4"	3 3/4"	4 1/16"	24 11/16"	1 13/16"	12 1/2"	15 1/2"	32 3/8" x 35 1/2" x 35 15/16"	
24ABBS48	3	X	X	X	X	0	31 3/16"	35 3/4"	3 3/4"	3 3/4"	4 1/16"	24 11/16"	1 13/16"	12 1/2"	15 1/2"	32 3/8" x 35 1/2" x 39 3/8"	
24ABBS60	1,2	X	O	O	O	0	31 3/16"	35 3/4"	3 3/4"	3 3/4"	4 1/16"	24 11/16"	1 13/16"	12 1/2"	15 1/2"	32 3/8" x 35 1/2" x 32 9/16"	
24ABBS60	2	O	X	O	O	0	31 3/16"	35 3/4"	3 3/4"	3 3/4"	4 1/16"	24 11/16"	1 13/16"	12 1/2"	15 1/2"	32 3/8" x 35 1/2" x 32 9/16"	

X = YES
O = NO

208-230-460	575	208/230-3-60	460-3-60
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- NOTES:
1. ALLOW 24" CLEARANCE TO SERVICE END OF UNIT.
 2. ABOVE UNIT, 6" ON ONE SIDE, 12" ON REMAINING SIDE.
 3. AND 16" BETWEEN UNITS FOR PROPER AIRFLOW.
 4. MINIMUM OUTDOOR OPERATING AMBIENT IN COOLING MODE IS 55°F, MAX. 125°F.
 5. SERIES DESIGNATION IS THE 13TH POSITION OF THE UNIT MODEL NUMBER.
 6. CENTER OF GRAVITY.
 7. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED.



UNIT SIZE	MINIMUM MOUNTING PAD DIMENSIONS
18, 24, 30	23 1/2" x 23 1/2"
36	26" x 26"
42, 48	31 1/2" x 31 1/2"
-	35" x 35"

ELECTRICAL DATA

UNIT SIZE - VOLTAGE, SERIES	V/PH	OPER VOLTS*		COMPR		FAN	MCA	MIN WIRE SIZE†		MAX LENGTH ft. (m)†	MAX LENGTH ft. (m)†	MAX FUSE** or CKT BRK AMPS
		MAX	MIN	LRA	RLA			60° C	75° C			
18-31				48.0	9.0	0.5	11.8	14	14	67 (20.4)	83 (19.2)	20
24-31				58.3	13.5	0.77	17.6	14	14	45 (13.7)	43 (13.1)	25
30-31				64.0	12.8	0.77	16.8	14	14	47 (14.3)	45 (13.7)	25
36-31	208/230/1	253	197	77.0	15.3	1.4	21.5	12	12	58 (17.7)	55 (16.9)	30
42-30				112.0	17.9	1.1	23.5	12	12	53 (16.2)	51 (15.5)	40
48-31				109.0	19.9	1.4	26.2	10	10	78 (23.2)	73 (22.3)	40
60-32				134.0	28.4	1.2	34.2	8	10	91 (27.7)	86 (26.5)	50
30-51				58.0	8.3	0.77	11.2	14	14	61 (18.7)	77 (23.5)	20
36-51				71.0	10.5	1.4	14.5	14	14	63 (19.2)	60 (18.3)	20
42-50	208/230-3	253	197	88.0	13.5	1.1	18.0	14	14	51 (15.5)	48 (14.6)	30
48-51				83.1	13.1	1.4	17.8	10	10	130 (39.6)	123 (37.5)	30
60-52				110.0	16.0	1.4	21.4	12	12	67 (20.4)	64 (19.5)	30
36-61				38.0	5.6	0.7	7.7	14	14	236 (71.9)	225 (68.5)	15
42-60				44.0	6.0	0.8	8.1	14	14	225 (68.5)	214 (65.2)	15
48-61	460-3	506	414	41.0	6.1	0.7	6.3	14	14	219 (66.8)	208 (63.4)	15
60-62				52.0	7.8	0.7	10.5	14	14	173 (52.7)	165 (50.3)	15
36-11				36.5	3.6	0.5	5.3	14	14	343 (104.5)	326 (99.4)	15
48-11				33.0	4.4	0.5	6.0	14	14	303 (92.4)	288 (87.8)	15
60-12	575-3	532	518	38.9	5.7	0.5	7.6	14	14	239 (72.8)	228 (69.5)	15

* Permissible limits of the voltage range at which the unit will operate satisfactorily

† If wire is applied at ambient greater than 30°C, consult table 310-16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (NFPA 70) Article 336-26. If other than uncoated (no-plated), 60 or 75°C insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (NFPA 70).

‡ Length shown is as measured one way along wire path between unit and service panel for voltage drop not to exceed 2%.

** Time-Delay fuse.

FLA - Full Load Amps

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps

RLA - Rated Load Amps

NOTE: Control circuit is 24-V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2007 requirements of ASHRAE Standards 90.1

A-WEIGHTED SOUND POWER LEVEL

UNIT SIZE	STANDARD RATING dBA	TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment)							
		125	250	500	1000	2000	4000	8000	
18-31	72	53.5	59.5	63.5	67.0	63.5	59.0	52.5	
24-31	76	55.0	61.5	67.0	71.5	69.0	61.0	55.0	
30-31, 51	74	55.0	63.5	68.5	68.5	66.5	61.0	54.0	
36-31, 51, 62, 12	75	59.5	63.0	68.5	70.0	65.5	61.5	53.5	
42-30, 50, 60	78	57.5	65.0	71.0	73.0	70.5	67.5	62.5	
48-31, 51, 62, 12	80	58.5	67.5	73.5	75.0	70.5	67.5	64.5	
60-32	78	59.0	67.5	71.5	73.5	69.0	66.0	63.5	
60-52, 62, 12	78	59.5	69.5	72.5	73.5	71.0	68.0	63.5	

NOTE: Tested in accordance with ARI Standard 270-2008 (not listed in ARII).

A-WEIGHTED SOUND POWER LEVEL WITH SOUND SHIELD

UNIT SIZE	STANDARD RATING dBA	TYPICAL OCTAVE BAND SPECTRUM (dBA, without tone adjustment)							
		125	250	500	1000	2000	4000	8000	
18-31	71	55.5	60.5	64.0	66.0	63.0	58.5	52.0	
24-31	74	55.5	60.5	66.5	70.0	67.0	61.0	53.5	
30-31, 51	73	55.5	64.0	68.0	67.0	64.0	60.0	52.5	
36-31, 51, 62, 12	74	59.5	63.0	68.0	69.5	65.0	60.5	50.5	
42-30, 50, 60	77	57.5	65.0	70.5	72.0	70.0	67.0	62.0	
48-31, 51, 62, 12	79	60.5	67.5	73.5	74.5	71.0	68.0	63.0	
60-32	78	59.0	68.0	70.5	72.5	68.0	67.0	63.0	
60-52, 62, 12	78	60.5	69.5	72.5	73.0	71.0	67.5	61.5	

NOTE: Tested in accordance with ARI Standard 270-2008 (not listed in ARII).

CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

UNIT SIZE - VOLTAGE & SERIES	REQUIRED SUBCOOLING °F (°C)	
	18-31	10 (5.6)
24-31	24-31	10 (5.6)
30-31, 51	30-31, 51	10 (5.6)
36-31, 51, 62, 12	36-31, 51, 62, 12	14 (7.8)
42-30, 50, 60	42-30, 50, 60	10 (5.6)
48-31, 51, 62, 12	48-31, 51, 62, 12	15 (8.3)
60-32	60-32	13 (7.2)
60-52, 62, 12	60-52, 62, 12	10 (5.6)

PHYSICAL DATA

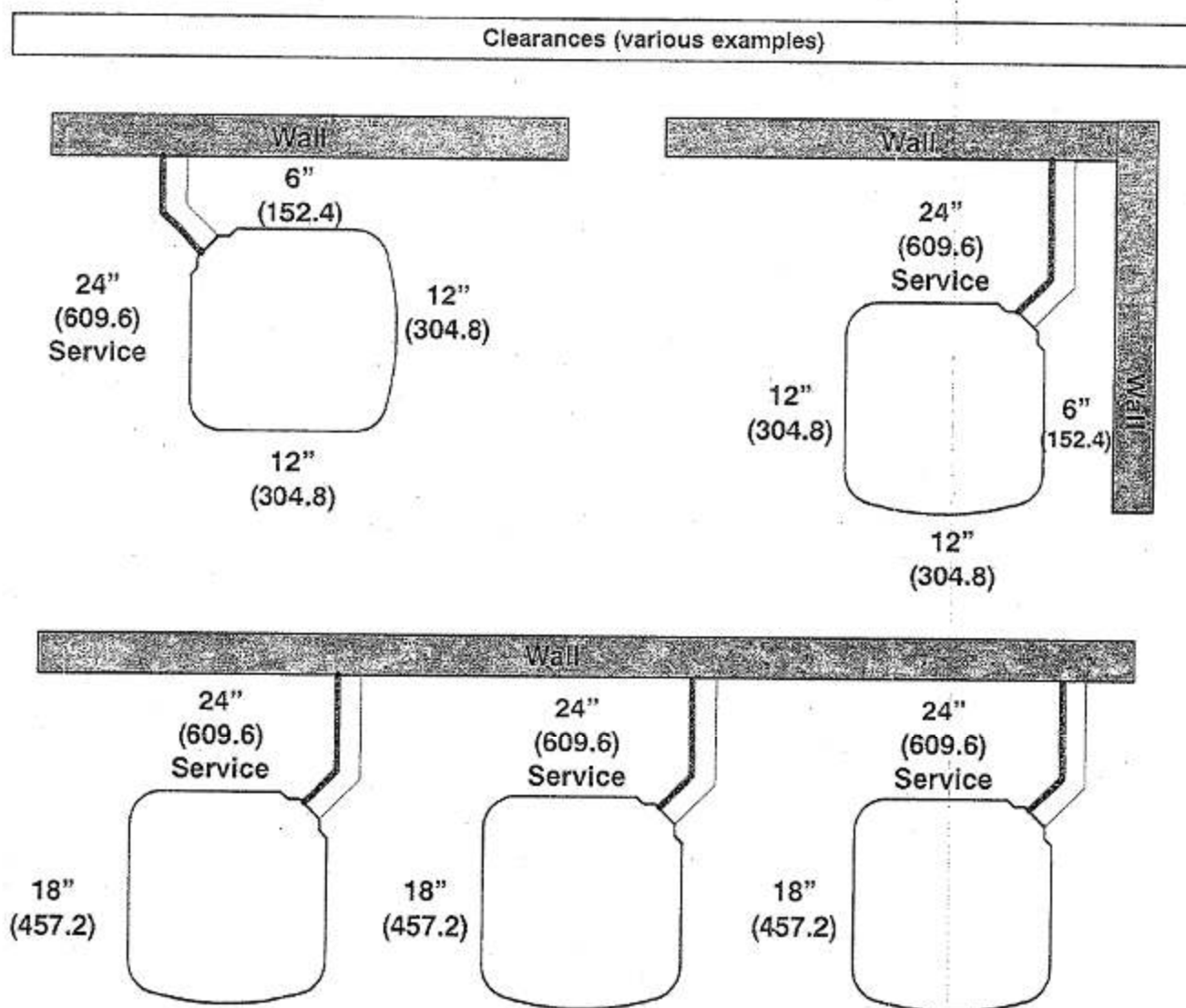
UNIT SIZE SERIES	18-31	24-31	30-31,51	36-31,51,61	42-30,50,60	48-31,51,61,11	60-32	60-52,62,12
Operating Weight lb (kg)	107 (48.5)	110 (50.0)	111 (50.3)	141 (64.0)	190 (86.2)	186 (84.4)	190 (86.2)	215 (97.5)
Shipping Weight lb (kg)	130 (60.0)	134 (60.8)	136 (61.7)	170 (77.1)	218 (98.9)	224 (101.6)	228 (102.5)	250 (113.4)
Compressor Type	Scroll							
REFRIGERANT	Puron® (R-410A)							
Control	TXV (Puron® Hard Shut-off)							
Charge lb (kg)	3.50 (1.6)	3.80 (1.7)	4.10 (1.9)	5.34 (2.4)	5.84 (2.7)	7.00 (3.2)	8.19 (3.7)	8.00 (3.6)
COND FAN	Propeller Type, Direct Drive							
Air Discharge	Vertical							
Air Qty (CFM)	1792	2218	2218	2054	3167	3365	3365	3366
Motor HP	1/12	1/10	1/10	1/4	1/5	1/4	1/4	1/4
Motor RPM	1100	1100	1100	1100	1100	1100	800	1100
COND COIL								
Face Area (Sq ft)	8.40	8.40	9.80	13.13	17.25	19.40	12.93	15.09
Fins per In.	20	25	25	25	25	25	20	20
Rows	1	1	1	1	1	1	2	2
Circuits	3	3	3	3	4	5	5	6
VALVE CONNECT. (In. ID)								
Vapor	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8
Liquid	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
REFRIGERANT TUBES* (In. OD)								
Rated Vapor*	3/4				7/8		1-1/8	
Max Liquid Line†	3/8							

* Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

Note: See unit installation instruction for proper installation.

† See Liquid Line Sizing For Cooling Only Systems with Puron Refrigerant tables.

CLEARANCES



Note: Numbers in () = mm

IMPORTANT: When installing multiple units in an alcove, roof well, or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

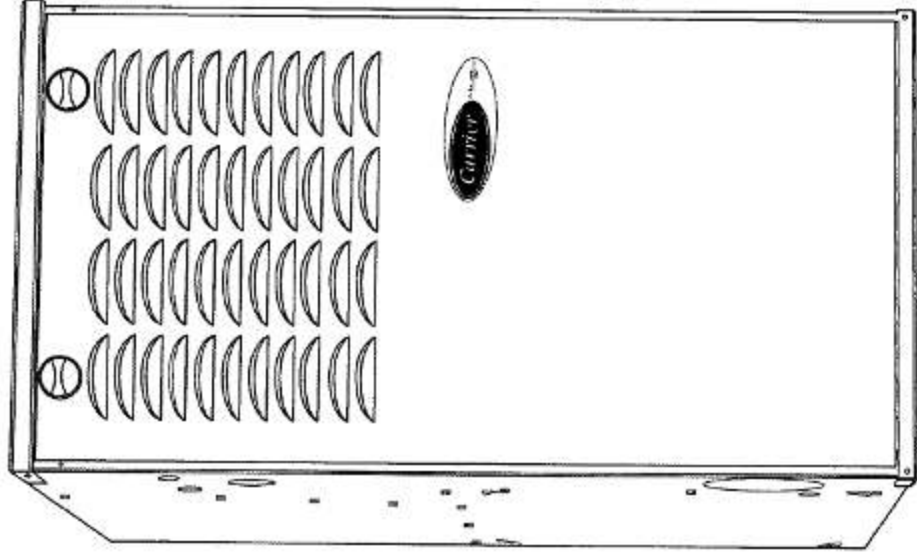
58CTA/CTX

**PERFORMANCE™ 80 TWO-STAGE 4-WAY
MULTIPOISE INDUCED-COMBUSTION GAS FURNACE**
Input Capacities: 45,000 thru 155,000 Btuh
Series 140

Carrier

turn to the experts

Product Data



A10249

THE PERFORMANCE 80 GAS FURNACE

The 58CTA/CTX Two-Stage, 4-way Multipoise Gas Furnaces offer unmatched comfort in their class with ComfortHeat™ technology in an 80% AFUE gas furnace. You get the benefits of a ComfortHeat™ technology furnace: reduced drafts, reduced sound levels, longer cycles, less temperature swings between cycles, and less temperature differences between rooms. Its exclusive, intelligent microprocessor control adapts to the heating needs of

the home by automatically adjusting high and low heat times to maximize comfort. The 58CTA/CTX furnaces are approved for use with natural or propane gas, and the 58CTX is approved for use in Low NOx Air Quality Management Districts.

STANDARD FEATURES

- ComfortHeat™ Technology Intelligent microprocessor control
- Two-stage heating with single-stage thermostat with patented Adaptive Control Technology
- Very low operating sound through low-stage operation and QuietTech™ system
- SmartEvap™ - Humidity control when using a Thermidstat™ control
- Comfort Fan™ adjustable constant fan speed from the thermostat
- Microprocessor based control center
 - Enhanced diagnostics with LED and reflective sight glass
 - Stores fault codes during power outages
 - Adjustable heating air temperature rise
 - Adjustable cooling airflow
- 4-way Multipoise furnace, 13 vent applications
- Compact design - only 33-1/3 in. (847 mm) tall
- Power Heat™ Igniter
- Draft Safeguard switch to ensure proper furnace venting
- Insulated blower compartment
- Inner door for tighter sealing
- Certified to leak 2 percent or less of its nominal air conditioning CFM delivered when pressurized to 1-In. Water Gauge with all present air inlets, air outlets, and condensate drain port(s) sealed.
- HYBRID HEAT® Dual Fuel System compatible
- All models are Chimney Friendly when used with accessory vent kit
- Twinning in Upflow, Downflow and Horizontal
- Residential installations eligible for consumer financing through the Retail Credit Program

PHYSICAL DATA

UNIT SIZE	045		070		090	
	06	12	08	12	14	20
OUTPUT CAPACITY BTUH* (Nonweatherized ICS) †	All 58CTA; 58CTX Upflow		55,000	36,000	54,000	71,000
	Low		23,000	23,000	36,000	47,000
	All 58CTX Downflow/ Horizontal		34,000	34,000	51,000	68,000
	Low		23,000	23,000	36,000	47,000
INPUT BTUH*	All 58CTA; 58CTX Upflow		44,000	44,000	66,000	88,000
	Low		29,000	29,000	43,500	58,000
	All 58CTX Downflow/ Horizontal		42,000	42,000	63,000	84,000
	Low		29,000	29,000	43,500	58,000
AFUE † *	Nonweatherized ICS		80.0	80.0	80.0	80.0
SHIPPING WEIGHT - LB (KG)	104 (47)		111 (50)	115 (52)	127 (58)	146 (66)
CERTIFIED TEMP RISE RANGE - °F (°C)	High		30-60 (17-33)	20-50 (11-28)	30-60 (17-33)	30-60 (17-33)
	Low		20-50 (11-28)	15-45 (8-25)	30-60 (17-33)	25-55 (14-30)
CERTIFIED EXT STATIC PRESSURE	Heating		0.10	0.10	0.12	0.15
	Cooling		0.50	0.50	0.50	0.50
AIRFLOW CFM‡	Heating High/Low		820/725	1030/860	895/695	1570/1045
	Cooling		895	1175	965	1385
LIMIT CONTROL	SPST		1385	1605	1755	2005

Solid-State Time Operation						
HEATING BLOWER CONTROL						
BURNERS (Monoport)	2	2	3	3	4	4
GAS CONNECTION SIZE	1/2-in. NPT					
GAS VALVE (Redundant) Manufacturer	White-Rodgers					
Minimum Inlet Pressure (in. W.C.)	4.5 (Natural Gas)					
Maximum Inlet Pressure (in. W.C.)	13.6 (Natural Gas)					
IGNITION DEVICE	Hot Surface					

* Gas input ratings are certified for elevations to 2000 ft. (610 M). 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 Z223.1-2009 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 air delivery above 1800 CFM, see Air Delivery Table for other options. A filter is required for each return-air supply.

ICS - Isolated Combustion System

BLOWER PERFORMANCE DATA

UNIT SIZE	045		070		090	
	06	12	08	12	14	20
DIRECT-DRIVE MOTOR Hp (PSC)	1/5	1/3	1/5	1/3	1/3	3/4
MOTOR FULL LOAD AMPS	2.8	5.1	2.8	5.1	5.2	11.0
RPM (Nominal) - Speeds	1075-4	1075-5	1075-4	1075-5	1075-4	1075-5
BLOWER WHEEL DIAMETER x WIDTHS - In. (mm)	10 x 6 (254 x 152)	10 x 8 (254 x 152)	10 x 6 (254 x 152)	10 x 8 (279 x 203)	10 x 8 (254 x 203)	11 x 11 (279 x 279)

PSC - Permanent Split Capacitor

PHYSICAL DATA

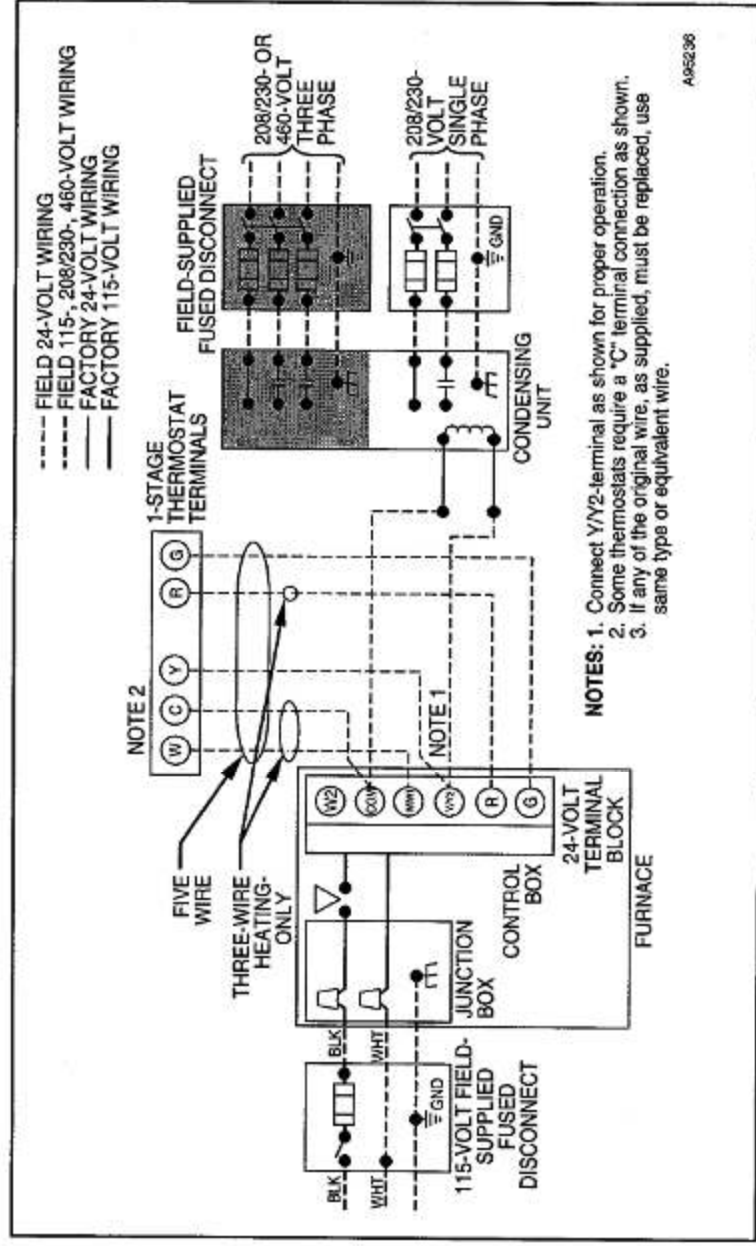
UNIT SIZE		110				135				155	
		12	16	22	16	22	22	20			
OUTPUT CAPACITY BTUH* (Nonweatherized ICS) †	All 58CTA; 58CTX Upflow	High	88,000	89,000	89,000	107,000	107,000	107,000	125,000		
		Low	59,000	59,000	59,000	70,000	70,000	70,000	82,000		
	All 58CTX Downflow/ Horizontal	High	85,000	85,000	85,000	102,000	102,000	102,000	119,000		
		Low	59,000	59,000	59,000	70,000	70,000	70,000	82,000		
INPUT BTUH*	All 58CTA; 58CTX Upflow	High	110,000	110,000	110,000	132,000	132,000	132,000	154,000		
		Low	72,500	72,500	72,500	87,000	87,000	87,000	101,500		
	All 58CTX Downflow/ Horizontal	High	105,000	105,000	105,000	126,000	126,000	126,000	147,000		
		Low	72,500	72,500	72,500	87,000	87,000	87,000	101,500		
AFUE † *	Nonweatherized ICS		80.0	80.0	80.0	80.0	80.0	80.0	80.0		
SHIPPING WEIGHT – LB. (KG)			135 (61)	146 (66)	152 (68)	149 (68)	163 (74)	170 (77)	170 (77)		
CERTIFIED TEMP RISE RANGE – °F (°C)			High	50–80 (17–33)	30–60 (17–33)	50–80 (17–33)	40–70 (17–33)	45–75 (17–33)	45–75 (17–33)		
			Low	30–60 (17–33)	25–55 (14–30)	20–50 (11–28)	30–60 (17–33)	25–55 (14–30)	30–60 (17–33)	30–60 (17–33)	
CERTIFIED EXT STATIC PRESSURE	Heating	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20		
	Cooling	0.50	0.50	0.80	0.50	0.50	0.50	0.50	0.50		
AIRFLOW CFM#	Heating High/Low	1335/1180	1290/1045	1555/1295	1525/1320	1665/1640	1790/1565	1790/1565	1790/1565		
	Cooling	1355	1695	2200	1710	2110	2230	2230	2230		
LIMIT CONTROL			SPST								

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BLOWER PERFORMANCE DATA

UNIT SIZE	110				135			
	12	16	22	28	16	22	28	35
DIRECT-DRIVE MOTOR Hp (PSC)								
MOTOR FULL LOAD AMPS								
RPM (Nominal) - Speeds								
BLOWER WHEEL DIAMETER X WIDTHS - In. (mm)								
PSC-Permanent Split Capacitor								

TYPICAL WIRING SCHEMATIC



ELECTRICAL DATA

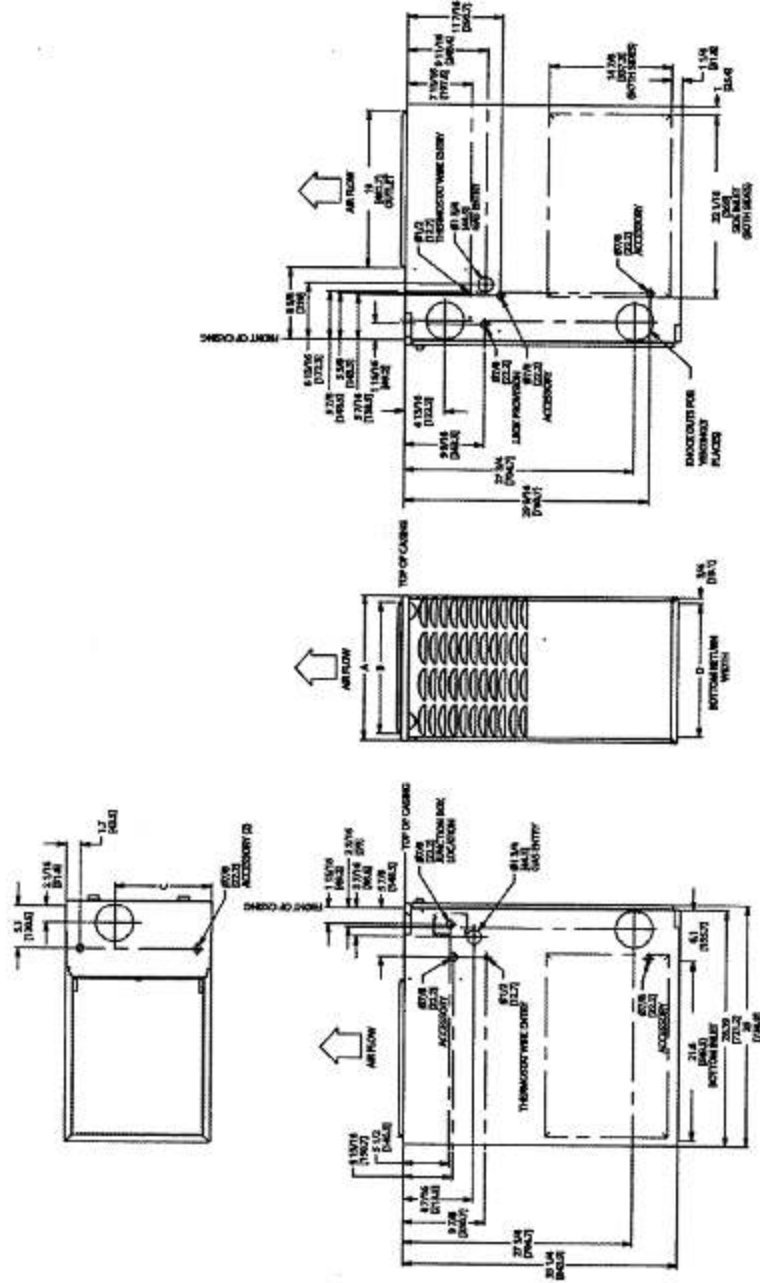
58CTA/CTX UNIT SIZE	VOLTS HERTZ PHASE	OPERATING VOLTAGE RANGE		MAXIMUM UNIT AMPS	MAXIMUM WIRE LENGTH - FT. (M)†	MAXIMUM FUSE OR CKT. BKR. AMPS‡	MINIMUM WIRE GAGE
		Maximum*	Minimum*				
046-08	115-60-1	127	104	5.3	49 (14.9)	15	14
046-12	115-60-1	127	104	7.1	38 (11.5)	15	14
070-08	115-60-1	127	104	5.2	51 (15.5)	15	14
070-12	115-60-1	127	104	7.3	37 (11.2)	15	14
070-16	115-60-1	127	104	10.1	27 (8.2)	15	14
090-14	115-60-1	127	104	8.2	34 (10.3)	15	14
090-16	115-60-1	127	104	9.9	28 (8.5)	15	14
090-20	115-60-1	127	104	12.9	34 (10.3)	20	12
110-12	115-60-1	127	104	8.2	34 (10.3)	15	14
110-16	115-60-1	127	104	10.1	28 (8.5)	15	14
110-22	115-60-1	127	104	13.7	32 (9.7)	20	12
135-16	115-60-1	127	104	10.2	27 (8.2)	15	14
135-22	115-60-1	127	104	14.5	30 (9.1)	20	12
155-20	115-60-1	127	104	15.0	29 (8.8)	20	12

* Permissible limits of the voltage range at which unit operates satisfactorily.

† Time-delay type is recommended.

‡ Length shown is as measured 1 way along wire path between unit and service panel for maximum 2 percent voltage drop.

DIMENSIONS



NOTES:

- Two additional 7/8-in. (22 mm) diameter holes are located in the top plate.
- Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.
 - For 800 CFM-16-in. (406 mm) round or 14 1/2 x 12-in. (368 x 305 mm) rectangle.
 - For 1200 CFM-20-in. (508 mm) round or 14 1/2 x 19 1/2-in. (368 x 495 mm) rectangle.
 - For 1600 CFM-22-in. (559 mm) round or 14 1/2 x 22 1/16-in. (368 x 560 mm) rectangle.
 - For airflow requirements above 1800 CFM, see Air Delivery table in Product Data literature for specific use of single side inlets. The use of both side inlets, a combination of 1 side and the bottom, or the bottom only will ensure adequate return air openings for airflow requirements above 1800 CFM.

FURNACE SIZE	A CABINET WIDTH IN (mm)	B OUTLET WIDTH IN (mm)	C TOP AND BOTTOM FLUE COLLAR IN (mm)	D BOTTOM INLET WIDTH IN (mm)	VENT CONNECTION SIZE IN (mm)	SHIP WT. LB (KG)	ACCESSORY MEDIA CABINET SIZE IN (mm)
045-08	14-3/16 (360)	12-9/16 (319)	9-5/16 (237)	12-11/16 (322)	4 (102)	104 (47)	16 (406)
045-12	14-3/16 (360)	12-9/16 (319)	9-5/16 (237)	12-11/16 (322)	4 (102)	107 (49)	16 (406)
070-08	14-3/16 (360)	12-9/16 (319)	9-5/16 (237)	12-11/16 (322)	4 (102)	111 (50)	16 (406)
070-12	14-3/16 (360)	12-9/16 (319)	9-5/16 (237)	12-11/16 (322)	4 (102)	115 (52)	16 (406)
070-16	17-1/2 (445)	15-7/8 (403)	11-9/16 (294)	16-1/8 (410)	4 (102)	126 (57)	16 (406)
090-14	17-1/2 (445)	15-7/8 (403)	11-9/16 (294)	16-1/8 (410)	4 (102)	127 (58)	16 (406)
090-16	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	140 (64)	20 (508)
090-20	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	146 (66)	20 (508)
110-12	17-1/2 (445)	15-7/8 (403)	11-9/16 (294)	16-1/8 (410)	4 (102)	135 (61)	16 (406)
110-16	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	146 (66)	20 (508)
110-22	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)	152 (69)	20 (508)
135-16	21 (533)	19-3/8 (492)	13-5/16 (338)	19-1/2 (495)	4 (102)*	149 (68)	20 (508)
135-22	24-1/2 (622)	22-7/8 (581)	15-1/16 (383)	23 (584)	4 (102)*	163 (74)	24 (610)
155-20	24-1/2 (622)	22-7/8 (581)	15-1/16 (383)	23 (584)	4 (102)*	170 (77)	24 (610)

*135 and 155 size furnaces 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.

WARNING

FIRE, EXPLOSION, ASPHYXIATION HAZARD

Improper adjustment, alteration, service, maintenance, or installation can cause serious injury or death.

Read and follow instructions and precautions in User's Information Manual provided with this furnace. Installation and service must be performed by a qualified service agency or the gas supplier.

CAUTION

Check entire gas assembly for leaks after lighting this appliance.

INSTALLATION

1. This furnace must be installed in accordance with the manufacturer's instructions and local codes. In the absence of local codes, follow the National Fuel Gas Code ANSI Z223.1 / NFPA54 or CSA B-149, 1 Gas Installation Code.
2. This furnace must be installed so there are provisions for combustion and ventilation air. See manufacturer's installation information provided with this appliance.

OPERATION

This furnace is equipped with manual reset limit switch(es) in burner compartment to protect against overheating conditions that can result from inadequate combustion air supply or blocked vent conditions.

1. Do not bypass limit switches.
2. If a limit opens, call a qualified serviceman to correct the condition and reset limit switch.

INSTALLATION

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

This forced air furnace is equipped for use with natural gas at altitudes 0 - 10,000 ft (0 - 3,050m).

An accessory kit, supplied by the manufacturer, shall be used to convert to propane gas use or may be required for some natural gas applications.

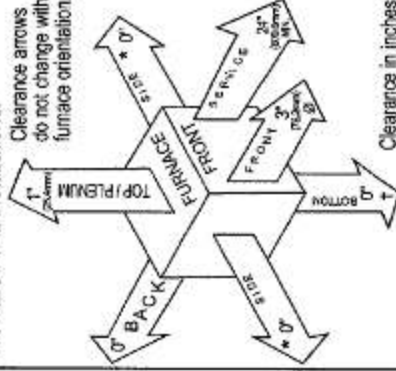
This furnace is for indoor installation in a building constructed on site.

This furnace may be installed on combustible flooring in alcove or closet at minimum clearance as indicated by the diagram from combustible material.

This furnace may be used with a Type B-1 Vent and may be vented in common with other gas fired appliances.

This furnace is approved for UPFLOW, DOWNFLOW, and HORIZONTAL installations.

Clearance arrows do not change with furnace orientation.



Clearance in inches

Vent Clearance to combustibles:

For Single Wall vents 6 inches (6 in).
For Type B-1 vent type 1 inch (1 in).

MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION

DOWNFLOW POSITIONS:

† Installation on non-combustible floors only.

For Installation on combustible flooring only when installed on special base, Part No. KGASB0201ALL or NAHA01101SB, Coll Assembly, Part No. CAR, CAP, CNPV, CNRV, END4X, ENW4X, WENC, WTNC, WENW OR WTNW.

Ø 18 inches front clearance required for alcove.

* Indicates supply or return sides when furnace is in the horizontal position. Line contact only permissible between lines formed by intersections of the Top and two Sides of the furnace jacket, and building joists, studs or framing.



336996-101 REV. C



ISO 9001
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