M/N 24ABB348-005

24ABB3
Comfort™ 13 Air Conditioner with Puron® Refrigerant 1–1/2 to 5 Nominal Tons

Carrier
turn to the experts

Product Data

Puron

Comfort SERIES

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 non-ozone depleting Puron refrigerant.

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.

INDUSTRY LEADING FEATURES / BENEFITS

Efficiency

- 13 SEER/ up to 11 EER (based on tested combinations)
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 71 dBA

Comfort

- System supports Edge® Thermidistat™ or standard thermostat controls

Reliability

- Non-ozone depleting Puron® refrigerant
- 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
- 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

PHYSICAL DATA

UNIT SIZE SERIES	18–34	24–35	30–33	30–51	36–35	36–51, 61,11	42–30, 50,60	48–36	48–51, 61,11	60–34	60–52, 62,12
Compressor Type	Scroll										
REFRIGERANT	Puron® (R–410A)										
Control	TXV (Puron® Hard Shutoff)										
Charge lb (kg)	3.15 (1.4)	3.15 (1.43)	4.62 (2.10)	4.10 (1.9)	5.42 (2.46)	5.34 (2.4)	5.84 (2.65)	7.37 (3.34)	7.00 (3.2)	8.80 (4.0)	8.00 (3.6)
COND FAN	Propeller Type, Direct Drive										
Air Discharge	Vertical										
Air Qty (CFM)	1792	2218	2163	2218	3167	2954	3167	3365	3365	3365	3365
Motor HP	1/12	1/10	1/10	1/10	1/5	1/4	1/5	1/4	1/4	1/4	1/4
Motor RPM	1100	1100	1100	1100	1100	1100	1100	1100	1100	800	1100
COND COIL											
Face Area (Sq ft)	8.40	8.40	11.49	9.80	12.93	13.13	17.25	19.40	19.40	12.93	15.09
Fins per In.	20	25	25	25	25	25	25	25	25	20	20
Rows	1	1	1	1	1	1	1	1	1	2	2
Circuits	3	3	3	3	5	3	4	5	5	5	6
VALVE CONNECT. (In. ID)											
Vapor	3/4	3/4	3/4	3/4	7/8	7/8	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	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.

OUTDOOR UNIT CONNECTED TO A FACTORY APPROVED INDOOR UNIT

Check piston size shipped with indoor unit to see if it matches required indoor piston size. If it does not match, replace indoor piston with correct piston size in table below:

OUTDOOR UNIT SIZE – SERIES	FAN COIL	PISTON SIZE BY OUTDOOR MODEL
18–34	FB4CNF*	49
24–35	FB4CNF*	55
30–33	FB4CNF*	61
30–51	FB4CNF*	59
36–35	FB4CNF*	–
36–51, 61, 11	FB4CNF*	67
42–30, 50, 60	FB4CNF*	73
48–36	FB4CNF*	78
48–51, 61, 11	FB4CNF*	76

* 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.

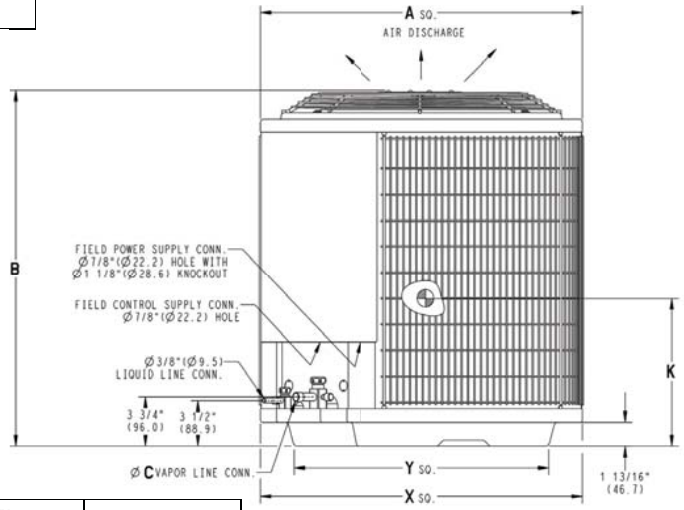
NOTE: Pistons shipped with outdoor units are only qualified and approved with the above listed fan coils. The piston included with the FFMANP* and FPMAN* fan coils are unique to those products and CANNOT be replaced with the piston shipped with outdoor unit. Refer to the AHRI directory (www.ahridirectory.org) to check if your combination can use a piston or requires an accessory TXV.

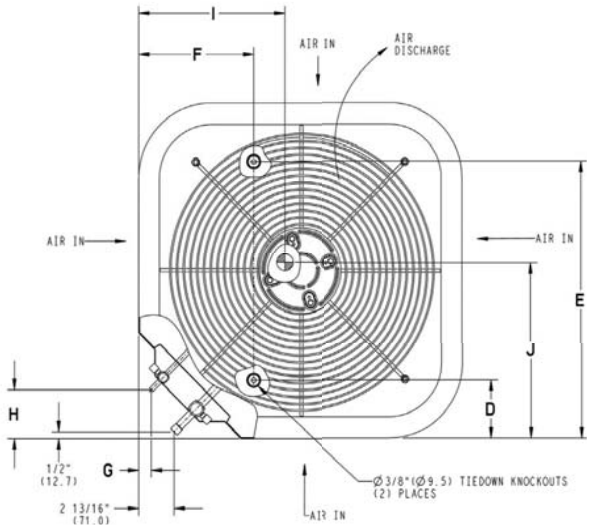
DIMENSIONS - ENGLISH

UNIT	SERIES	ELECTRICAL CHARACTERISTICS				A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT	
						INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM
24ABB318A	4	Y	N	N	N	23 1/8	587.3	25 5/16	642.9	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	16 1/2	419.1	15	381.0	12	304.8	107	48.5	130	59.0	25 1/4	641.5	29 3/4	755.8
24ABB324A	5	Y	N	N	N	23 1/8	587.3	25 5/16	642.9	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	12 1/2	317.5	11	279.4	12	304.8	107	48.5	127	57.6	25 1/4	641.5	29 3/4	755.8
24ABB330A	3	Y	N	N	N	25 3/4	654.0	28 11/16	728.7	3/4	19.1	4 7/16	113.0	21 1/4	539.9	9 1/8	231.3	5/16	7.9	3	76.2	14 1/2	368.3	15 1/2	393.7	12 1/2	317.5	126	57.2	149	67.6	27 7/8	708.2	33 3/16	843.1
24ABB330A	1	N	Y	N	N	23 1/8	587.3	28 11/16	729.3	3/4	19.1	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	5/16	7.9	3	76.2	16 1/2	419.1	15	381.0	14	355.6	111	50.3	136	61.7	25 1/4	641.5	33 3/16	843.1
24ABB336A	5	Y	N	N	N	31 3/16	792.5	25 5/16	642.4	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	15 9/16	395.3	16 1/2	419.1	10 1/4	260.4	134	60.8	151	68.5	33 5/16	846.6	29 3/4	755.8
24ABB336A	1	N	Y	Y	Y	25 3/4	654.0	32 1/16	815.1	7/8	22.2	4 7/16	113.0	21 1/4	539.9	9 1/8	231.3	5/16	7.9	3	76.2	14 1/4	362.0	10 1/2	266.7	16	406.4	141	64.0	170	77.1	27 7/8	708.2	36 5/8	929.5
24ABB342A	0	Y	Y	Y	N	31 3/16	792.5	32 1/16	815.1	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	15 3/4	400.1	16 1/4	412.8	13 3/4	349.3	190	86.2	218	98.9	33 5/16	846.6	36 5/8	929.5
24ABB348A	6	Y	N	N	N	31 3/16	792.5	35 1/2	901.4	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	15 3/4	400.1	16 3/8	415.9	15 5/8	396.9	175	79.4	205	93.0	33 5/16	846.6	40	1015.8
24ABB348A	1	N	Y	Y	Y	31 3/16	792.5	35 1/2	901.4	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	16 3/8	415.9	15 3/8	390.5	15 1/4	387.4	186	84.4	224	101.6	33 5/16	846.6	40	1015.8
24ABB360A	4	Y	N	N	N	31 3/16	792.5	28 11/16	728.7	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	16	406.4	15 1/2	393.7	12 3/4	323.9	199	90.3	232	105.2	33 5/16	846.6	33 3/16	843.1
24ABB360A	2	N	Y	Y	Y	31 3/16	792.5	28 11/16	728.7	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	5/16	7.9	3	76.2	16	406.4	15 1/2	393.7	12 3/4	323.9	198	89.8	230	104.3	33 5/16	846.6	33 3/16	843.1

208-230-1-60	208/230-3-60	460-3-60	575-3-60

Y=YES
N=NO





UNIT SIZE	"X" MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		"Y" MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	
18,24,30(3Ø)	23 1/8	587.3	17 7/8	454.6
30(1Ø),36(3Ø)	25 3/4	654.0	20 7/16	518.5
36(1Ø),42,48,60	31 3/16	792.5	22 15/16	583.2
-	35	889.0	26 3/4	679.7

NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. EXPORT CLASSIFICATION: EAR99

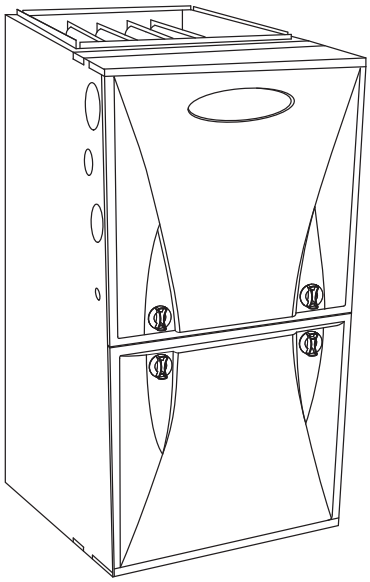
SD5416-4 REV. C

M/N 59SP5A080E21

59SP5A
Performance™ Boost, Single−Stage 4−Way Multipoise Condensing Gas Furnace
Series 1 and 2

Carrier
turn to the experts

Product Data



A11263

The 59SP5A Multipoise Performance™ Boost Condensing Gas Furnace features SEER-boosting year-round electrical efficiency when paired with a compatible condensing unit. Energy efficiency is at the heart of this furnace with up to 96.5% AFUE gas efficiency and the electrically-efficient basic ECM blower motor. This gas furnace also features 4-way multipoise installation flexibility, and is available in nine model sizes. All sizes except the 26,000 BTUH model can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. The 26,000 BTUH model can use the same 2-pipe venting system using outside air for combustion, but is not considered direct-vent. All units meet California Air Quality Management District emission requirements, are design certified in Canada, and are certified for mobile/manufactured home use.

STANDARD FEATURES

- Quiet operation. Compare for yourself at HVACpartners.com.
- All sizes meet ENERGY STAR® Version 4.1 criteria for gas furnaces: 95+ AFUE; ECM blower motor; 2% or less cabinet airflow leakage.
- High-efficiency basic ECM multiple-speed blower motor for electrically efficient operation all year long in heating, cooling and continuous fan operation.
- Humidistat™ Control compatible; dehumidification input for better comfort.
- SmartEvap™ technology helps control humidity levels in the home when used with a compatible humidity control system.
- ComfortFan™ technology allows control of continuous fan speed from a compatible thermostat.
- Ideal height 35” (889 mm) cabinet: short enough for taller coils, but still allows enough room for service.
- Silicon Nitride Power Heat™ Hot Surface Igniter.
- External Media Filter Cabinet included.
- 4-way multipoise design for upflow, downflow or horizontal installation, with unique vent elbow and optional venting through-the-cabinet downflow venting capability.
- Single-speed inducer motor, and single-stage gas valve.
- Self diagnostics with SuperBrite LED.
- Approved for Twinning applications with accessory kit (060-12 through 120-22 models, only).
- Approved for Manufactured Housing/Mobile Home applications with MH accessory kit. (40-10 through 120-22 models, only).
- Adjustable blower speed for heating, cooling and continuous fan
- Aluminized-steel primary heat exchanger.
- Stainless-steel condensing secondary heat exchanger.
- Propane convertible (see Accessory list).
- Factory-configured ready for upflow applications.
- Fully-insulated casing including blower section.
- Convenient Air Purifier and Humidifier connections.
- Direct-vent/sealed combustion, single-pipe venting or ventilated combustion air.
- Installation flexibility: (sidewall or vertical vent).
- Residential installations may be eligible for consumer financing through the Retail Credit Program.
- Certified to leak 2% or less of nominal air conditioning CFM delivered when pressurized to 1-in. water column with all present air inlets, air outlets, and condensate drain port(s) sealed.

Performance SERIES

ENERGY STAR

Certified System ISO 9001

CERTIFIED

DESIGN CERTIFIED

AHRI CERTIFIED

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.

SAP ORDERING NO.	CASING DIMENSIONS (IN.)			RATED HEATING OUTPUT† BTUH	AFUE		ENERGY STAR®	HEATING AIRFLOW		COOLING CFM @ 0.5 ESP (in. W.C.)	MOTOR HP SPEED	MEDIA CABINET SUPPLIED (IN.)
	H	D	W		UPFLOW/ HORIZON-TAL	DOWN-FLOW		HEATING CFM	HEATING ESP (in. W.C.)			
59SP5A026E14--10	35	29.5	14.2	25,000	96.0%	95.0%	YES	605	0.1	895	1/3 - 5	16
59SP5A040E14--10	35	29.5	14.2	39,000	96.5%	95.0%	YES	695	0.1	925	1/2 - 5	16
59SP5A040E17--12	35	29.5	17.5	39,000	96.5%	95.0%	YES	705	0.1	1085	1/2 - 5	16
59SP5A060E14--12	35	29.5	14.2	58,000	95.5%	95.0%	YES	940	0.12	1090	1/2 - 5	16
59SP5A060E17--14	35	29.5	17.5	58,000	96.5%	95.0%	YES	1000	0.12	1505	3/4 - 5	16
59SP5A080E17--16	35	29.5	17.5	78,000	96.5%	95.0%	YES	1360	0.15	1610	3/4 - 5	16
59SP5A080E21--20	35	29.5	21.0	78,000	96.5%	95.0%	YES	1360	0.15	2015	1 - 5	20
59SP5A100E21--20	35	29.5	21.0	97,000	96.3%	95.0%	YES	1700	0.2	2110	1 - 5	20
59SP5A120E24--22	35	29.5	24.0	117,000	96.5%	95.0%	YES	2125	0.2	2055	1 - 5	24

† Capacity in accordance with DOE test procedures. Ratings are position dependent. See rating plate.
‡ Heating CFM at factory default blower motor heating tap settings.
ESP – External Static Pressure

FEATURES AND BENEFITS

SmartEvap™ Technology — When paired with a compatible thermostat, this dehumidification feature overrides the cooling blower off-delay when there is a call for dehumidification. By deactivating the blower off-delay, SmartEvap technology prevents condensate that remains on the coil after a dehumidification cycle from re-humidifying throughout the home. This results in reduced humidity and a more comfortable indoor environment for the homeowner.

Unlike competitive systems, SmartEvap technology only overrides the cooling blower off-delay when humidity control is needed. Once humidity is back in control, SmartEvap re-enables the energy-saving cooling blower off-delay.

ComfortFan™ Technology —Sometimes the constant fan setting on a standard furnace system can actually reduce homeowner comfort by providing too much or too little air! Comfort Fan technology improves comfort all year long by allowing the homeowner to select the continuous fan speed of their choice using a compatible thermostat.

HYBRID HEAT® Dual Fuel System — This system can provide more control over your monthly energy bills by automatically selecting the most economical method of heating. With HYBRID HEAT components, our system automatically switches between the gas furnace and the electric heat pump as outside temperatures change to maintain greater efficiency and comfort than with any traditional single-source heating system. The heat pump also delivers high-efficiency cooling in the summer.

Power Heat™ Igniter — Carrier's unique SiN igniter is not only physically robust but it is also electrically robust. It is capable of running at line voltage and does not require complex voltage regulators as do other brands. This unique feature further enhances the gas furnace reliability and continues Carrier's tradition of technology leadership and innovation in providing a reliable and durable product.

Performance™ ECM Blower Motor — This basic ECM, or electronically commutated motor, can provide an efficiency enhancement for select Carrier air conditioner or heat pump systems. It uses less electrical power than its PSC counterpart and also has a wider range of speeds

Reliable Heat Exchanger Design — The aluminized steel, clam shell primary heat exchanger was re-engineered to achieve greater efficiency out of a smaller size. The first two passes of the heat exchanger are based on the current 80% product, a design with more than ten years of field-proven performance and success. These innovations, paired with the continuation of a crimped, no-weld seam create an efficient, robust design for this essential component.

The condensing heat exchanger, a stainless steel fin and tube design, is positioned in the furnace to extract additional heat. Stainless steel coupling box componentry between heat exchangers has exceptional corrosion resistance in both natural gas and propane applications.

Media Filter Cabinet — Enhanced indoor air quality in the home is made easier with our media filter cabinet—a standard accessory on all deluxe furnaces. When installed as a part of the system, this cabinet allows for easy and convenient addition of a Carrier high efficiency air filter.

4-Way Multipoise Design — One model for all applications – there is no need to stock special downflow or horizontal models when one unit will do it all. The new heat exchanger design allows these units to achieve the certified AFUE in all positions.

Direct or Single-pipe Venting, or Optional Ventilated Combustion Air — All sizes except the 26,000 BTUH model can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. The 26,000 BTUH model can use the same 2-pipe venting system using outside air for combustion, but is not considered direct-vent. This provides added flexibility to meet diverse installation needs.

Sealed Combustion System — This furnace brings in combustion air from outside the furnace, which results in especially quiet operation. By sealing the entire combustion vestibule, the entire furnace can be made quieter, not just the burners.

Insulated Casing — Foil-faced insulation in the heat exchanger section of the casing minimizes heat loss. The acoustical insulation in the blower compartment reduces air and motor noise for quiet operation.

Monoport Burners — The burners are specially designed and finely tuned for smooth, quiet combustion and economical operation.

Bottom Closure — Factory-installed for side return; easily removable for bottom return. The multi-use bottom closure can also serve for roll-out protection in horizontal applications, and act as the bottom closure for the optional return air base accessory.

Blower Access Panel Switch — Automatically shuts off 115-v power to furnace whenever blower access panel is opened.

Quality Registration — Our furnaces are engineered and manufactured under an ISO 9001 registered quality system.

Certifications — This furnace is CSA (AGA and CGA) design certified for use with natural and propane gases. The furnace is factory-shipped for use with natural gas. A CSA listed gas conversion kit is required to convert furnace for use with propane gas. The efficiency is AHRI efficiency rating certified. This furnace meets California Air Quality Management District emission requirements.

SPECIFICATIONS

The furnace should be sized to provide 100 percent of the design heating load requirement plus any margin that occurs because of furnace model size capacity increments. None of the furnace model sizes can be used if the heating load is 12,000 BTUH or lower. Use Air Conditioning Contractors of America (Manual J and S); American Society of Heating, Refrigerating, and Air-Conditioning Engineers; or other approved engineering method to calculate heating load estimates and select the furnace. Excessive oversizing of the furnace may cause the furnace and/or vent to fail prematurely, customer discomfort and/or vent freezing.

Failure to follow these guidelines is considered faulty installation and/or misapplication of the furnace; and resulting failure, damage, or repairs may impact warranty coverage.

Heating Capacity and Efficiency		**026-10**	**040-10**	**040-12**	**060-12**	**060-14**	**080-16**	**080-20**	**100-20**	**120-22**
Input	High Heat (BTUH)	26,000	40,000	40,000	60,000	60,000	80,000	80,000	100,000	120,000
Output	High Heat (BTUH)	25,000	39,000	39,000	58,000	58,000	78,000	78,000	97,000	117,000
Certified Temperature Rise Range °F (°C)	High Heat	25 - 55 (14 - 31)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	45 - 75 (25 - 42)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)	40 - 70 (22 - 39)

Airflow Capacity and Blower Data		**026-10**	**040-10**	**040-12**	**060-12**	**060-14**	**080-16**	**080-20**	**100-20**	**120-22**
Rated External Static Pressure (in. w.c.)	Heating	0.10	0.10	0.10	0.12	0.12	0.15	0.15	0.20	0.20
	Cooling	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Airflow Delivery @ Rated ESP (CFM)	High Heat	605	695	705	940	1000	1360	1360	1700	2125
	Cooling	895	925	1085	1090	1505	1610	2015	2110	2055
Cooling Capacity (tons) @ 400, 350 CFM/ton	CFM/ton	2	2	2.5	2.5	3.5	4	5	5	5
	CFM/ton	2.5	2.5	3	3	4	4.5	5.5	6	6
Direct-Drive Motor Type		Electronically Commutated Motor (ECM)								
Direct-Drive Motor HP		1/3	1/2	1/2	1/2	3/4	3/4	1	1	1
Motor Full Load Amps		4.4	6.8	6.8	6.8	9.9	9.3	12.3	12.6	11.1
RPM Range		400 - 1200	600 - 1200							
Speed Selections		5								
Blower Wheel Dia x Width	in.	11 x 7	11 x 7	11 x 8	11 x 7	11 x 8	11 x 8	11 x 10	11 x 10	11 x 11
Air Filtration System		Factory Supplied Media Cabinet Field Supplied Filter								
Filter Used for Certified Watt Data		KGAWF1506UFR								

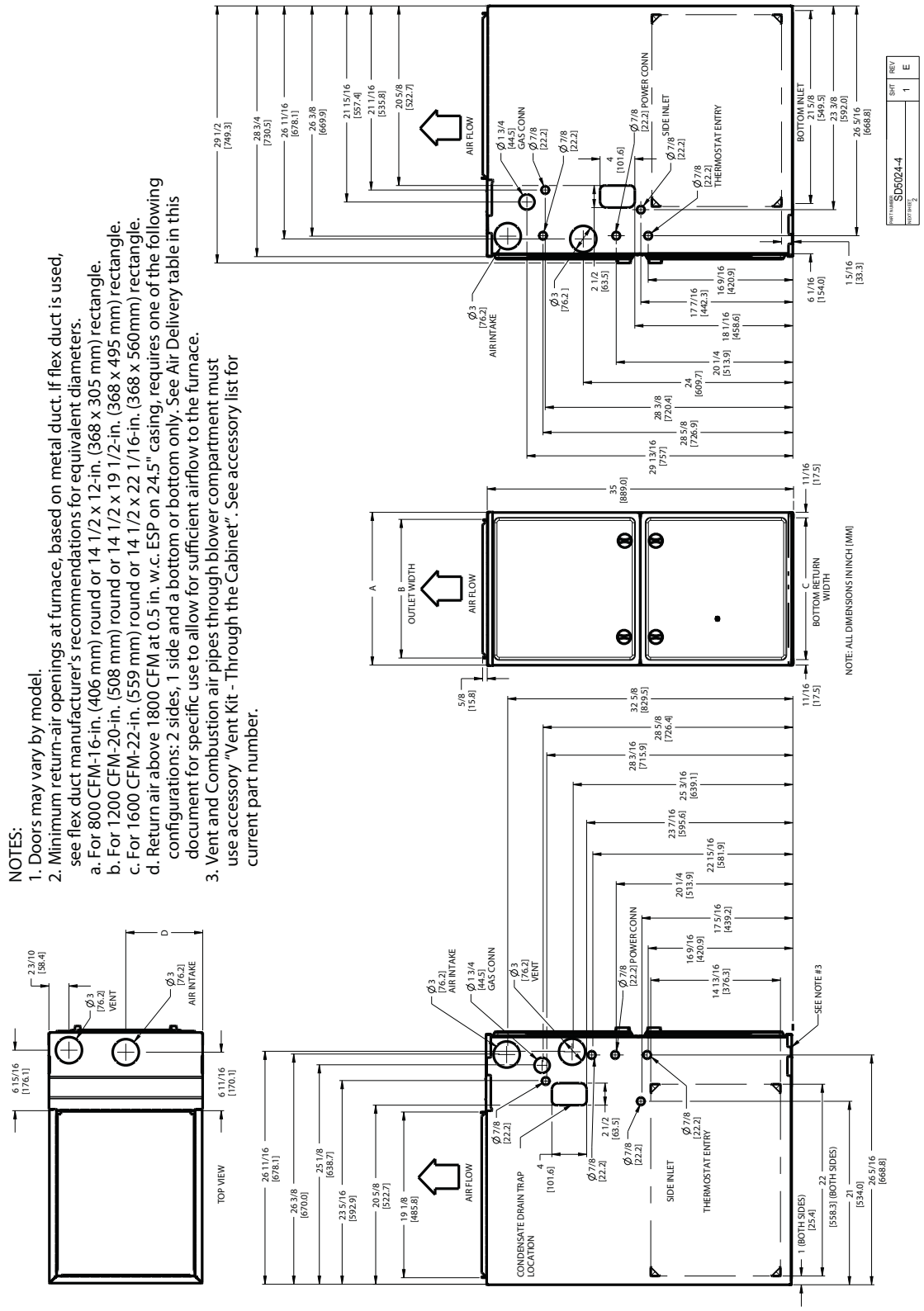
Electrical Data		**026-10**	**040-10**	**040-12**	**060-12**	**060-14**	**080-16**	**080-20**	**100-20**	**120-22**
Input Voltage	Volts-Hertz-Phase	115-60-1								
Operating Voltage Range	Min-Max	104-127								
Maximum Input Amps	Amps	5.1	7.4	7.4	7.5	10.6	10.0	13.0	13.4	11.9
Unit Ampacity	Amps	7.3	10.3	10.3	10.4	14.2	13.5	17.2	17.7	15.8
Minimum Wire Size	AWG	14	14	14	14	14	14	12	12	12
Maximum Wire Length @ Minimum Wire Size	Feet	51	36	36	35	26	27	33	32	36
	(M)	(15.5)	(11.0)	(11.0)	(10.7)	(7.9)	(8.2)	(10.1)	(9.8)	(11.0)
Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended)	Amps	15	15	15	15	15	15	20	20	20
Transfomer Capacity (24vac output)		40 VA								
External Control Power Available	Heating	27.9 VA								
	Cooling	34.6 VA								

Controls	**026-10**	**040-10**	**040-12**	**060-12**	**060-14**	**080-16**	**080-20**	**100-20**	**120-22**
Gas Connection Size		1/2" - NPT							
Burners (Monoport)	2	2	2	3	3	4	4	5	6
Gas Valve (Redundant) Manufacturer	White Rodgers								
Minimum Inlet Gas pressure (in. wc)	4.5								
Maximum Inlet Gas pressure (in. wc)	13.6								
Manufactured (Mobile) Home Kit	See Accessory Listing								
Ignition Device	Silicon Nitride								
Limit Control	220	165	180	165	180	170	200	180	160
Heating Blower Control (Heating Off-Delay)	Adjustable: 90, 120, 150, 180 seconds								
Cooling Blower Control (Time Delay Relay)	90 seconds								
Communication System	*none*								
Thermostat Connections	Com 24V, R, W, G, Y/Y2, DHUM, Y1								
Accessory Connections	EAC (115vac); HUM (24vac); 1-stg AC (via Y/Y2)								

* See Accessory List for part numbers available.

DIMENSIONAL DRAWING

NOTES:
1. Doors may vary by model.
2. Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.
   a. For 800 CFM-16-in. (406 mm) round or 14 1/2 x 12-in. (368 x 305 mm) rectangle.
   b. For 1200 CFM-20-in. (508 mm) round or 14 1/2 x 19 1/2-in. (368 x 495 mm) rectangle.
   c. For 1600 CFM-22-in. (559 mm) round or 14 1/2 x 22 1/16-in. (368 x 560mm) rectangle.
   d. Return air above 1800 CFM at 0.5 in. w.c. ESP on 24.5" casing, requires one of the following configurations: 2 sides, 1 side and a bottom or bottom only. See Air Delivery table in this document for specific use to allow for sufficient airflow to the furnace.
3. Vent and Combustion air pipes through blower compartment must use accessory "Vent Kit - Through the Cabinet". See accessory list for current part number.



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59SP5 FURNACE SIZE	A CABINET WIDTH	B OUTLET WIDTH	C BOTTOM INLET WIDTH	D AIR INTAKE	SHIP WT. LB (KG)
026–10	14–3/16 (361)	12–1/2 (319)	12–9/16 (322)	7–1/8 (181)	118.0 (53.5)
040–10	14–3/16 (361)	12–1/2 (319)	12–9/16 (322)	7–1/8 (181)	120.0 (54.5)
060–12	14–3/16 (361)	12–1/2 (319)	12–9/16 (322)	7–1/8 (181)	131.0 (59.4)
040–12	17–1/2 (445)	15–7/8 (403)	16 (406)	8–3/4 (222)	130.5 (59.2)
060–14					141.0 (64.0)
080–16					151.0 (68.6)
080–20	21 (533)	19–3/8 (492)	19–1/2 (495)	10–1/2 (267)	155.5 (70.7)
100–20					165.5 (75.2)
120–22	24–1/2 (622)	22–7/8 (581)	23 (584)	12–1/4 (311)	189.5 (86.1)