

SUBMITTAL

Project

COMMERCIAL REVIEW

<u>Date</u>

Thursday, November 1, 2018

<u>Dealer</u>

GARY ROACH

Rod Wells

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5 TON SPLIT

Submittal Cover Sheet Unit Report Performance Summary Report Acoustic Summary Certified Drawings Feature Sheet

Unit Report For 5 TON SPLIT



Outdoor Unit Parameters

Unit Model:	24ABB	
Unit Size:	5 Tons (Size 60)	
Voltage:	208/230-3-60	V-Ph-Hz

Outdoor Unit Dimensions and Weight	
Unit Length:	in
Unit Width:31.1875	in
Unit Height:28.6875	in
Unit Shipping Weight: 230.	lb



Indoor Coil Parameters

Unit Model:	CNPV
Unit Size:	
Cabinet Finish:	Painted
Cabinet Width:	24 inch
Refrigerant Type:	Puron

Indoor Coil Dimensions and Weight

Unit Length:		in
Unit Width:	24.5	in
Unit Height:	26.875	in
Unit Shipping Weight:		lb

RESIDENTIAL APPLICATIONS

This warranty is to the original purchasing owner and subsequent owners only to the extent and as stated in the Warranty Conditions and below. The limited warranty period in years, depending on the part and the claimant, is as shown in the table below.

Limited Warranty (Years)			
Item Original Owner Subsequent Owner			
Parts	10* (or 5)	5	
Compressor	10* (or 5)	5	

*If properly registered within 90 days of original installation, otherwise 5 years (except in California and Quebec and other jurisdictions that prohibit warranty benefits conditioned on registration). See Warranty Conditions below.

OTHER APPLICATIONS

The warranty period is five (5) years on the compressor, and one (1) year on all other parts. The warranty is the original owner only and is not available for subsequent owners.

Ordering Information

Part Number	Description	Quantity
Outdoor Unit		
24ABB360A005	24ABB Comfort Series Air Conditioner with Puron Refrigerant 5 Tons	1
	Cooling	
	13 SEER @ ARI Conditions	
	Dense Grille	
Indoor Coil		
CNPVP6024ALA	Cased Vertical N-Coil Evaporator Coil with Puron	1
	Painted	
	24 inch	
	Aluminum	
Furnace		
59SC2C120S2420	59SC2 Comfort +92 Single Stage Gas Furnace	1
	120,000 Btuh (Size 120)	
	Up to 2000 Clg CFM on Evap Coil	
	24.5 inches	



Furnace Parameters and Dimensions and Weight

Furnace:	Non-SEER Enhancing Furnace	
Furnace Model:		
	ncy: +92 AFUE	
Htg Capacity:	120,000 Btuh (Size 120)	
Airflow: Up	to 2000 Clg CFM on Evap Coil	
Unit Length:		in
Unit Width:		in
Unit Height:		in
Unit Shipping V	Veight:	lb

System Performance

System: 24ABB/CNPV	
System Quantity:1	
Altitude: 1000.0	ft
Furnace Type:Carrier Non-SEER Enhancing	
Linear Pipe Length:	ft
SEER @ ARI Conditions:	
EER @ ARI Conditions:11.0	

Actual Clg Airflow:	2022.0	CFM
Standard Clg Airflow:	.1950.0	CFM
Total Net Clg Capacity:	57.61	MBH
Net Sensible Clg Capacity:	42.46	MBH
Total System Power:		kW

System Parameters

Outdoor Unit Parameters

Unit Model:	24ABB360A005	
Unit Size (Nominal):	5 Tons (Size 60)	
Voltage:		V-Ph-Hz
Clg Ent Air DB Ambient:		°F

Indoor Coil Parameters

Unit Model:	CNPVP6024ALA	
Unit Size (Nominal):	5 Tons (Size 60)	
Ent Air DB:		°F
Ent Air WB:		°F
Ent Enthalpy:		BTU/lb
Lvg Air DB:		
Lvg Air WB:		°F
Lvg Enthalpy:		BTU/lb
Total External Static Pressur	e: 0.50	in wg

Furnace Ratings

Furnace:	59SC2C120S2420		
Furnace Efficiency:	+92 AFUE		
Input Max Heat:	120,000	BTU/hr	
Output Max Heat:		BTU/hr	

Furnace Performance

The customer must ensure the specified airflow and static pressure are within furnace capabilities.

Electrical Data

Outdoor Electrical Data

Unit Voltage:	208/230-3-60	V-Ph-Hz
Fan Motor FLA:		Amps
MCA:		Amps
Max Fuse:		Amps
Operating Range Min:		V
Operating Range Max:		V
Compressor RLA:		Amps
Compressor LRA:		Amps

Furnace Electrical Data

Unit Voltage:	 V-Ph-Hz
Unit MCA:	Amps
Unit MOCP:	 Amps

Outdoor Unit Parameters:

Unit Model:	24ABB
Unit Size:	5 Tons (Size 60)
Variations:	Dense Grille

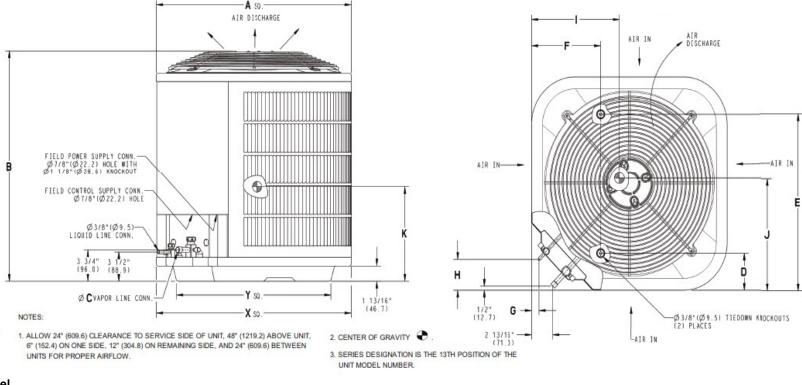
Octave Band Center Frequency, Hz	125	250	500	1k	2k	4k	8k	dBA
Sound Power,dB	59.0	67.5	71.5	73.5	69.0	66.0	63.5	
A-Weighted Sound Power, dBA								78.0

Indoor Coil Parameters:

Unit Model:	CNPV
Unit Size:	5 Tons (Size 60)
Cabinet Finish:	Painted
Cabinet Width:	24 inch

No Indoor sound data available.

Certified Drawing For 5 TON SPLIT



Outdoor Model

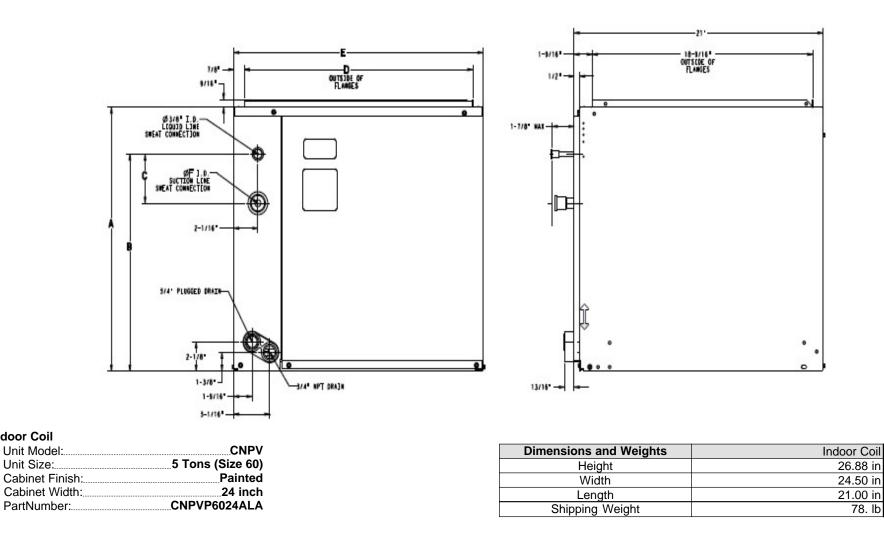
Unit Model:	24ABB	
Unit Size:	5 Tons (Size 60)	
Voltage:	208/230-3-60	V-Ph-Hz
SEER:		
PartNumber:	24ABB360A005	

Shipping Dimensions and Weights	Outdoor Unit
Height	33.19 in
Width	33.31 in
Length	33.31 in
Operating Weight	198. lb
Shipping Weight	230. lb

Dimensions										
A	В	С	D	E	F	G	Н	I	J	K
31.19 in	28.69 in	0.88 in	6.56 in	24.69 in	9.13 in	0.31 in	3.00 in	16.00 in	15.50 in	12.75 in

Certified Drawing For 5 TON SPLIT

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Dimensions							
A	В	С	D	E	F		
26.88 in	17.94 in	3.56 in	22.75 in	24.50 in	0.88 in		

The Product and Ratings Data in this program is subject to change at any time and without notice. Please refer to the latest product literature and the AHRI directory at www.ahridirectory.org for the most up-to-date information.

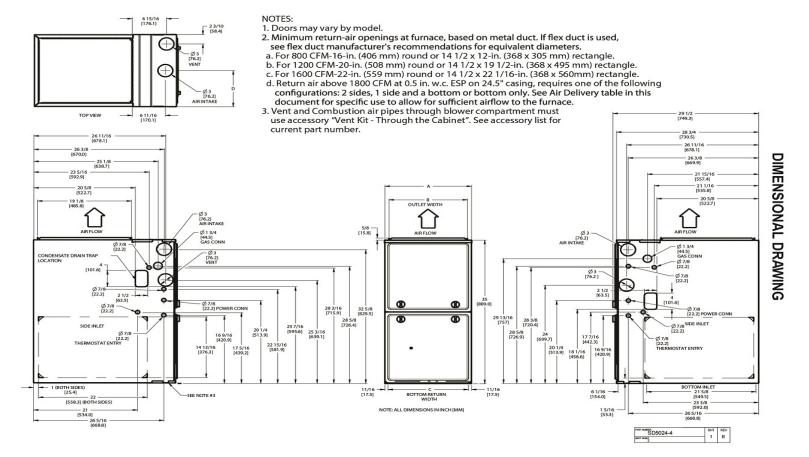
Residential Carrier Products Bldr 1.29j

Indoor Coil

Unit Size:

Certified Drawing For 5 TON SPLIT

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Furnace Model:	
Furnace Efficiency:	+92 AFUE
Htg Capacity:	120,000 Btuh (Size 120)

Dimensions						
A	В	С	D	Shipping Wgt		
24.50 in	22.88 in	23.00 in	12.25 in	184.00 in		

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



Product Data







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

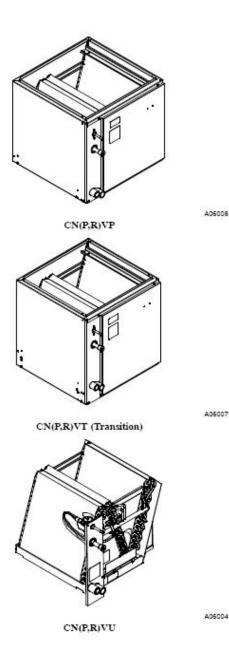
Applications

- 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

CNPVP, CNRVP, CNPVT, CNRVT, CNPVU, CNRVU Evaporator Coil N Coil – Cased and Uncased Upflow, Downflow



Product Data



This vertical design N-coil is a furnace coil designed to provide the highest standards of reliability and durability. The coils are available for use in Puron®, R-410A refrigerant and R-22 systems.

Both designs have a painted case and come with factory-installed thermostatic expansion valves (TXV). The coils are offered in different width configurations for use in multiple installation applications. Additionally, they are offered in a transition configuration, a design which simplifies making field-supplied transition duct configurations. Easy maintenance is provided as the coil slides out of the cabinet after removing the access door and service panel. The coils are available in sizes 018 through 061 (1-1/2 to 5 tons).

Transition coil models CNPVT and CNRVT are designed for use with one size smaller width furnaces without field modifications.

CN(P,R)V(P,T) and CNPVU are available in tin-plated copper coil models. These coils are built with special hairpins which are tin-plated to resist both general pitting corrosion and excessive indoor corrosion-formicary corrosion. (Formicary corrosion is an industry phenomenon.)

STANDARD FEATURES

Water Management — These coil designs do an excellent job of water management. The coils are designed to avoid water blow-off into the ducts by directing condensate away from the fins and into the drain pan.

Durable Condensate Pan — Each coil is equipped with a corrosion-resistant condensate drain pan. The condensate drain pan is designed with a slope to help ensure proper drainage, improved moisture removal, and home comfort.

Compact Design — Unique design offers as much as 2 to 4 in. (51 to 102 mm) less in height to aid in tight installations.

Brass Inserts — Every condensate pan features two 3/4 in. female threaded brass insert connections. The unique brass inserts provide for a leak-free condensate line connection to prevent water damage.

Refrigerant Connections — The coils are provided with proven sweat-connections for leak-free operation maintaining system reliability.

Burst Pressures — These coils meet or exceed burst pressure of 2100 psi which is at least three to five times the pressure they will see in actual application.

Thermostatic Expansion Valves (TXV) — All Carrier® coils have refrigerant-specific factory-installed TXVs.

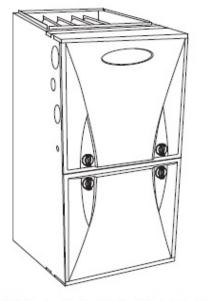
Teflon Ring — The ring, installed inside the liquid line connection at the TXV, is the best option for preventing refrigerant leaks and future service calls. Teflon works with both Puron, R-410A, the environmentally friendly refrigerant and R-22 refrigerants.

Protective Tube Sheets — Protect the durable copper tubing from being damaged during the manufacturing and installation process.

59SC2C ALL 59SC2B SIZE 04080 ONLY Comfort™ Series Single–Stage 4–Way Multipoise Condensing Gas Furnace Series 1



Product Data



A11263

The 59SC2 Multipoise Comfort Series Condensing Gas Furnace features energy efficiency of 92.1% AFUE gas efficiency and workhorse PSC blower motor. This gas furnace also features 4-way multipoise installation flexibility, and is available in eight model sizes. The 59SC2 can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. 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

· 4-Way multipoise design for upflow, downflow or horizontal installation.

- Installation flexibility with a 360-degree rotating elbow.
- More than twelve different venting options, including optional through-the cabinet downflow and horizontal venting.
- · Ideal condensing furnace height 35" cabinet: short enough for taller coils, but still allows enough room for service.
- Silicon Nitride Power Heat[™] Hot Surface Igniter.
- Aluminized-steel primary heat exchanger.
- Stainless steel condensing secondary heat exchanger.
- High-quality corrosion-resistant prepainted steel cabinet with hemmed edges for safety.
- Factory-configured ready for upflow applications.
- Direct-vent/sealed combustion, single-pipe venting or ventilated combustion air.
- PSC blower motor, single-speed inducer motor, and single-stage gas valve.
- Self-diagnostics with SuperBrite LED.
- Approved for Twinning applications (060-12 through 120-20 sizes, only)
- Propane convertible (see accessory list).
- Approved for Manufactured Housing/Mobile Home applications with MH accessory kit.
- Convenient Air Purifier and Humidifier electrical connections.
- 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.







manufacturer's participation in the program. For verification of certification for individual product

