

Vantix[™] Line Gas Furnaces







S921V

92% A.F.U.E.†

EcoNet® Enabled

Heating Stages: Single Stage Motor Type: Constant CFM

Input Rates: 40 to 115 kBTU [11.7 to 33.7 kW] Configuration Options: 4-Way Multi-Position











† A.F.U.E. (Annual Fuel Utilization Efficiency) calculated in accordance with Department of Energy test procedures.

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Features and Benefits

- Energy Efficiency: US South ENERGY STAR® certified, featuring 92% AFUE across all model sizes
- Diagnostics: With the Russell® By Rheem Contractor & EcoNet® Apps, built-in EcoNet® & Bluetooth®1 technology makes monitoring, troubleshooting and repairing the product easier than ever before
- Dip Switch Free Installation Commissioning via Bluetooth® Technology: Seamless final install step without DIP switch configuration using the Russell® By Rheem Contractor App
- Ignition System: Proven Direct Spark Ignition (DSI) for reliability and longevity
- Water Management System: Russell® By Rheem-exclusive patented block drain sensor that automatically shuts off the furnace when the drain is blocked, and also alerts the contractor via diagnostic code

- Constant CFM Motor: Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- Quieter Operation²: A fully insulated blower cabinet, solid bottom and truly variable speed airflow technology makes this furnace one of the quieter options available
- EcoNet® Enabled Furnace: The latest in sensor technology and the EcoNet® monitoring system provides a new level of protection, control and energy savings
- Allows on-the-go control and receipt of system alerts by the homeowner via the EcoNet® Smart Thermostat and EcoNet® App³

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²Based on manufacturer's furnace offering, and the product's heating stages, motor type and cabinet insulation. Sound levels are also dependent on furnace location and installation.

³Wifi broadband internet connection required. Download the EcoNet[®] App from the App Store[®] or Google Play[®] to set up your EcoNet[®] Smart Thermostat. Receipt of notifications depend on home WiFi set up. Amazon, Alex and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

<u>S</u> Brand	92 Furnace	<u>1</u> Stages of	<u>V</u> Motor Type	040 Heating Input	<u>3</u> AC Max.	<u>A</u> Major Series	<u>17</u> Width	M4 Position	<u>s</u> Nox	<u>C</u> Controls	<u>A</u> Minor Series	P Ontion Code
	Efficiency 92 - 92% AFUE	Heating		040 - 40K BTUH [11.7 kW]	Capacity	•						
By Rheem	0E 0E/07410E	Tonigio ciago		060 - 60K BTUH [17.6 kW] 070 - 70K BTUH [20.5 kW] 085 - 85K BTUH [24.9 kW] 100 - 100K BTUH [29.3 kW] 115 - 115K BTUH [33.7 kW]			21 - 21" Width 24 - 24.5" Width	4 Way	o otalidara	EcoNet®, Bluetooth®	77 136 331133	Grade

[] Designates Metric Conversions

AVAILABLE MODELS
S921V0403A17M4SCAP
S921V0603A17M4SCAP
S921V0703A17M4SCAP
S921V0705A21M4SCAP
S921V0855A21M4SCAP
S921V1005A21M4SCAP
S921V1155A24M4SCAP

STANDARD EQUIPMENT	
Condensate switch connection ¹	
100% safety lock out	
29-4C stainless steel secondary heat exchanger design	1
Adjustable cool fan off delay	
Aluminized steel primary heat exchanger design	
Blocked Drain Sensor	
Blower compartment door safety switch	
Bluetooth® diagnostics	
Bluetooth® setup	
Bluetooth® setup and diagnostics	
Completely assembled and wired	
Direct drive motor	
EcoNet® Thermostat connections	
Electronic on/off blower time control	
Fully insulated heat exchanger cabinet	
Humidistat terminal connection	
Induced draft motor	
Limit controls	
Low speed continuous fan option	
Manual shut-off valve	
Marked condensate hoses	
One hour automatic retry	
Power and self test diagnostics	
Pressure switch	
PWM Controlled constant torque electrically commutat	ted blower motor
Redundant main gas control	
Single stage heating thermostat connection	
Solid bottom	
Blower Insulation	
Two plus stage cooling thermostat connection ²	

¹When used with EcoNet® Smart Thermostat only

WARNING

THIS FURNACE IS NOT APPROVED
OR RECOMMENDED
FOR USE IN MOBILE HOMES

 $^{^2\}mbox{When}$ connected to three-speed or modulating AC/HP product

Physical Data and Specifications—U.S. Models

MODEL NUMBERS	S921V0403 A17M4SCAP	S921V0603 A17M4SCAP	S921V0703 A17M4SCAP	S921V0705 A21M4SCAP	S921V0855 A21M4SCAP	S921V1005 A21M4SCAP	S921V1155 A24M4SCAP
HIGH FIRE INPUT BTU/HR [kW] ①	42,000 [12.30]	56,000 [16.41]	70,000 [20.51]	70,000 [20.51]	84,000 [24.61]	98,000 [28.72]	112,000 [32.82]
HEATING CAPACITY BTU/HR [kW]	39,900 [11.69]	53,200 [15.59]	66,500 [19.49]	66,500 [19.49]	79,800 [23.39]	93,100 [27.28]	106,400 [31.18]
HIGH ALTITUDE OUTPUT 10% DERATE [kW] ②	35,910 [10.52]	47,880 [14.03]	59,850 [17.54]	59,850 [17.54]	71,820 [21.05]	83,790 [24.56]	95,760 [28.06]
BLOWER (D x W) [mm]	11 x 7 [279 x 178]	11 x 8 [279 x 203]	11 x 8 [279 x 203]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]	11 x 11 [279 x 279]
MOTOR H.P. [W]-TYPE	1/2 [373] VS-CT(ECM)	1/2 [373] VS-CT(ECM)	1/2 [373] VS-CT(ECM)	1 [746] VS-CT(ECM)	1 [746] VS-CT(ECM)	1 [746] VS-CT(ECM)	1 [746] VS-CT(ECM)
MIN. CIRCUIT AMPACITY	10	10	10	17	17	18	17
MIN. OVERLOAD PROTECTION DEVICE	15	15	15	20	20	25	20
MAX. OVERLOAD PROTECTION DEVICE	15	15	15	25	25	25	25
Motor Full Load Amps	6.1	6.1	6.1	12.4	12.4	12.4	12.4
MAXIMUM EXT. STATIC PRESSURE (IN. W.C.) [kPa]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]	1.0 [0.25]
HEATING CFM [L/s]	990 [468]	1100 [520]	1200 [566]	1375 [649]	1735 [819]	1440 [680]	1650 [779]
MAX Cooling CFM [L/s]	1240 [585]	1240 [585]	1240 [585]	1980 [934]	1980 [934]	1980 [934]	1980 [934]
MIN Cooling CFM [L/s]	300 [142]	300 [142]	300 [142]	500 [236]	500 [236]	500 [236]	500 [236]
Fan CFM [L/s]	600 [283]	600 [283]	600 [283]	1000 [472]	1000 [472]	1000 [472]	1000 [472]
TEMPERATURE RISE-HIGH FIRE RANGE IN DEGREES °F [°C]	20 - 50 [11 - 28]	30 - 60 [17 - 33]	40 - 70 [22 - 39]	30 - 60 [17 - 33]	40 - 70 [23 - 39]	40 - 70 [22 - 39]	45 - 75 [25 - 42]
APPROX. SHIPPING WEIGHT (LBS.) [kg]	123 [56]	128 [58]	133.5 [61]	146.5 [66]	150 [68]	155 [70]	190 [86.2]
AFUE ③	92.00%	92.00%	92.00%	92.00%	92.00%	92.00%	92.00%

NOTES: All models are 115V, 60HZ, 1 phase Gas connection size for all models is 1/2" [13 mm] N.P.T.

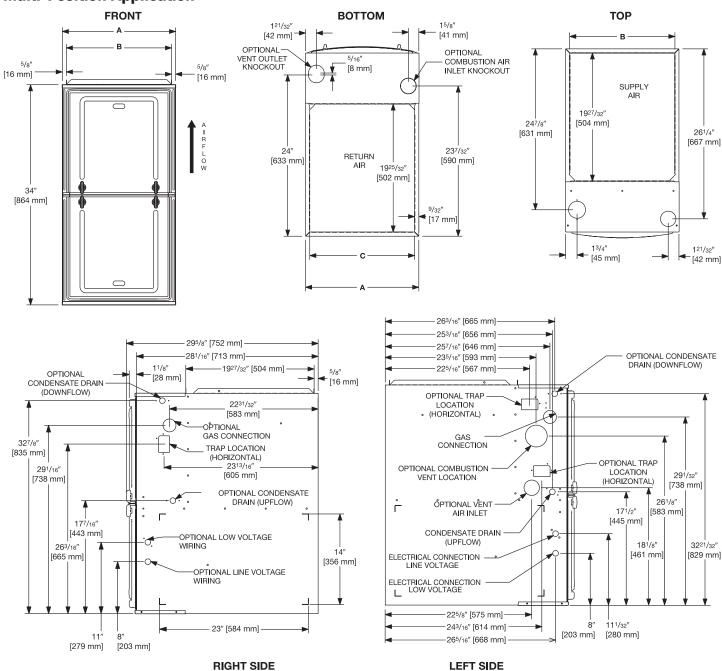
- ① Installation instructions for high altitude derate.
- ② Canadian installations only.
- $\ensuremath{\,^{\Large \mbox{\tiny }}}$ In accordance with D.O.E. test procedures.

NOTE: Standard model complies with California low nox requirements up to 40ng/J.

This furnace does not meet air district requirements of 14 ng/J NOx emissions limit, and thus is subject to a mitigation fee of up to \$450.

This furnace is to be installed for propane firing only in air districts requiring 14 ng/J NOx emission limits. Operating in natural gas mode is in violation of these Rules.

Multi-Position Application



Unit Dimensions (Clearance To Combustibles)

MODEL	LEFT		MINIMUM	CLEARANCE	(IN.) [mm]		SHIP	FLANGE DIMENSIONS		
S921V	SIDE	RIGHT SIDE	BACK	ТОР	FRONT	VENT	WGTS.	A	В	С
040	0	0	0	1 [25]	2 [51]	0	123.5 [56]	17 ¹ /2 [445]	16 ¹⁷ /64 [413]	16 ¹³ /64 [412]
060	0	0	0	1 [25]	2 [51]	0	128 [58]	171/2 [445]	16 ¹⁷ /64 [413]	16 ¹³ /64 [412]
070	0	0	0	1 [25]	2 [51]	0	132 [60]	171/2 [445]	16 ¹⁷ /64 [413]	16 ¹³ /64 [412]
070 (wide)	0	0	0	1 [25]	2 [51]	0	147.5 [67]	21 [533]	1949/64 [502]	1945/64 [500]
085	0	0	0	1 [25]	2 [51]	0	147.5 [67]	21 [533]	19 ⁴⁹ / ₆₄ [502]	1945/64 [500]
100	0	0	0	1 [25]	2 [51]	0	152 [69]	21 [533]	1949/64 [502]	1945/64 [500]
115	0	0	0	1 [25]	2 [51]	0	165 [75]	241/2 [662]	2317/64 [591]	2313/64 [589]

^{*}A service clearance of at least 24" is recommended in front of all furnaces Supply and return depicted as upflow configuration.

Flange configuration will vary depending on installation orientation.

Blower Performance Data

TARGET GAS HEATING AIRFLOWS								
	S921V0403 A17M4SCAP	S921V0603 A17M4SCAP	S921V0703 A17M4SCAP	S921V0705 A21M4SCAP	S921V0855 A21M4SCAP	S921V1005 A21M4SCAP	S921V1155 A24M4SCAP	
Furnace Hi Heat CFM A (factory)	990 [468]	1100 [520]	1200 [566]	1375 [649]	1735 [819]	1440 [680]	1650 [779]	
Furnace Hi Heat CFM B (side return)	990 [468]	1188 [561]	1296 [612]	1550 [732]	1874 [884]	1691 [798]	1800 [850]	
Furnace Hi Heat CFM C (Approx. +7°F)	891 [421]	990 [468]	1080 [510]	1238 [584]	1562 [737]	1296 [612]	1485 [701]	
Furnace Hi Heat CFM D (Approx. +12°F)	822 [388]	913 [431]	996 [470]	1141 [539]	1440 [680]	1195 [564]	1370 [647]	

Vent Termination Kits: =

RXGY-E02: Vertical/Horizontal Concentric Vent Termination Kit 2" Pipe (US Only)

RXGY-E02A: Vertical/Horizontal Concentric Vent Termination Kit 2" Pipe (US & Canadian)

RXGY-E03: Vertical/Horizontal Concentric Vent Termination Kit 3" Pipe (US Only)

RXGY-E03A: Vertical/Horizontal Concentric Vent Termination Kit

3" Pipe (US & Canadian)

RXGY-G02: Direct Vent Furnace Side Wall Vent 2" or 3" (US Only)

RXGY-D05: Combustion Air Drain Kit 2" **RXGY-D06:** Combustion Air Drain Kit 3"

NEUTRALIZER KIT: RXGY-A01

(Replacement Cartridge 54-22120-01)

EXTERNAL BOTTOM FILTER (UPFLOW/HORIZONTAL) RACK:

RXGF-CB

EXTERNAL SIDE (UPFLOW) FILTER RACK: RXGF-CD EXTERNAL (DOWNFLOW) FILTER RACK: RXGF-CC

	FILTER RACK FILTER SIZES* INCHES [mm]								
MODEL	RXGF-CB (UPFLOW/ Horizontal)	RXGF-CD (UPFLOW)	RXGF-CC (DOWNFLOW)						
S921V(-)040	15 ³ / ₄ x 25	15 ³ / ₄ x 25	14 x 20						
	[400 x 635]	[400 x 635]	[356 x 508]						
S921V(-)060	15 ³ / ₄ x 25	15 ³ / ₄ x 25	14 x 20						
	[400 x 635]	[400 x 635]	[356 x 508]						
S921V(-)070	15 ³ / ₄ x 25	15 ³ / ₄ x 25	14 x 20						
	[400 x 635]	[400 x 635]	[356 x 508]						
S921V(-)070	19¹/4 x 25	15 ³ / ₄ x 25	12 x 20						
(wide)	[489 x 635]	[400 x 635]	[305 x 508]						
S921V(-)085	19¹/4 x 25	15 ³ / ₄ x 25	14 x 20						
	[489 x 635]	[400 x 635]	[356 x 508]						
S921V(-)100	19¹/4 x 25	15 ³ / ₄ x 25	14 x 20						
	[489 x 635]	[400 x 635]	[356 x 508]						
S921V(-)115	22 ³ /4 x 25	15 ³ / ₄ x 25	14 x 20						
	[578 x 635]	[400 x 635]	[356 x 508]						

Indoor Coil Casings

MODEL Number
RXBC-D17A1
RXBC-D21A1
RXBC-D21B1
RXBC-D24A1

For High Altitudes:

NOTE: For Canadian installations only, an optional derate (manifold gas pressure reduction) method may be used to adjust the furnace for altitude. See Installation Instructions for more information. This optional method may **NOT** be used for U.S. installations. See installation instructions as appropriate orifice change is required.

L.P. CONVERSION KIT: RXGJ-FP38

CONDENSATE PUMP KIT: PROSTOCK & 1PCB151TUL

DOWNFLOW/HORIZONTAL CONVERSION KIT: RXGY-CK

DOWNFLOW/HORIZONTAL LEFT ZERO CLEARANCE
CONVERSION KIT: RXGY-ZK

COMBUSTIBLE FLOOR BASE: RXGC-B17

RXGC-B21 RXGC-B24

Integrated Controls



EcoNet® is smart, technology that allows Heating and Cooling, products to communicate with each other on one integrated network.

THE ECONET® SMART THERMOSTAT

BUILT-IN WIFI

4.3" LCD TOUCH SCREEN

LOCAL WEATHER - Current conditions plus 6-day forecast

5 OPERATING MODES - Heat, Cool, Auto, Emergency Heat and Fan Only

7-DAY PROGRAMMABLE SCHEDULE - Offers comfort without thought

ONE-TOUCH AWAY – Quickly switch to your energy-saving away preferences

VACATION SCHEDULING - Allows you to save while you're away and come home to comfort

STANDBY SCREEN - Displays indoor temperature and current weather



CETST800SYS

OPERATIONAL FEATURES

AUTOMATIC CHANGEOVER - Transitions between heating and cooling automatically to keep the house comfortable

INTEGRATED WATER CONTROL – Enables easy water heater management

SMOOTH ARRIVAL - Prompts the system to start ahead of schedule to ensure the home is at the desired temperature at the scheduled time

HUMIDITY CONTROL – Supports humidifier accessories or over-cool based dehumidification

DETAILED OPERATING STATUS – View pertinent equipment status information and run times

CONTINUOUS FAN – Offers 5 speeds (Low, Medium Low, Medium, Medium High, High)

SHORT-CYCLE PROTECTION - Avoids damage to equipment from short run cycles

MONITORING & REMOTE CONTROL FEATURES

ACTIVE MONITORING – Alerts to problems that need immediate attention

REMOTE CONTROL – Allows adjusting of comfort and settings from anywhere using a mobile device

SERVICE ALERTS – Sends routine maintenance reminders

AIR FILTER MONITORING - Detects when it's time to replace the air filter

ALARM HISTORY – Displays time-stamped alarm codes with clear descriptions



GENERAL TERMS OF LIMITED WARRANTY*

Russell® by Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.

Conditional Parts (Registration Required)......Ten (10) Years Heat ExchangerLimited Lifetime

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

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