The 925SA Multipoise SEER Boost Condensing Gas Furnace features the single-stage Preferred™ System. The Boost ECM multiple-speed blower motor is at the heart of the electrical efficiency provided by this furnace. With an Annual Fuel Utilization Efficiency (AFUE) of 96.2%, the Preferred single-stage gas furnace provides added savings over standard gas furnaces. This Preferred Gas Furnace features 4-way multipoise installation flexibility, and is available in six model sizes. The 925SA can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. A Bryant Preferred Control and Preferred Air Conditioner or Heat Pump, can be used to form a complete Preferred Series System. All units meet California Air Quality Management District emission requirements. All sizes are design certified in Canada. All sizes are design certified for use in Manufactured Housing (Mobile Home) applications when used with factory-approved MH accessory kit.

**STANDARD FEATURES**

- Ideal height 35” (889 mm) cabinet: short enough for taller coils, but still allows enough room for service.
- Preferred Features—match with the Preferred Control for Preferred System benefits.
- Silicon Nitride Perfect Light™ Hot Surface Igniter.
- SmartEvap™ technology helps control humidity levels in the home when used with a compatible humidity control system.
- Fan On Plus™ technology allows control of continuous fan speed from a compatible thermostat.
- External Media Filter Cabinet included.
- 4-way multipoise design for upflow, downflow or horizontal installation, with unique vent elbow and optional through-the-cabinet downflow venting capability.
- Self-diagnostics.
- Adjustable blower speed for cooling, continuous fan, and dehumidification.
- Approved for Twinning applications with accessory kit (42060 through 66120 models, only).
- Approved for Manufactured Housing/Mobile Home applications with MH accessory kit.
- 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.

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

**Fan On Plus™ Technology** — Sometimes the constant fan setting on a standard furnace system can actually reduce homeowner comfort by providing too much or too little air! Fan On Plus 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, 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** — Bryant’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 Bryant’s tradition of technology leadership and innovation in providing a reliable and durable product.

**Boost ECM Blower Motor** — This basic ECM, or electronically commutated motor, can provide an efficiency enhancement for select Bryant 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 Bryant high efficiency air filter.

**4-Way Multiapoise 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** — This furnace can be installed as a 2-pipe (Direct Vent) furnace, in an optional ventilated combustion air application, or in single-pipe, non-direct vent applications. 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 heat exchanger section of the casing minimizes heat loss. The acoustical insulation in the blower compartment reduces air and motor noise for quiet operation.

**Monopole 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 20,000 BTU 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

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### Airflow Capacity and Blower Data

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### Direct-Drive Motor Type

- Electronically Commutated Motor (ECM)

### Air Filtration System

- Factory Supplied Media Cabinet
- Field Supplied Filter

### Electrical Data

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### Accessory Connections

- EAC (115vac); HUM (24vac); 1-stg AC (via Y/Y2)

* See Accessory List for part numbers available.
MODEL NUMBER NOMENCLATURE

Example of a Model Number

Not all families have these models.

FURNACE COMPONENTS
## ACCESSORIES

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<td>Use with PGAPXX1625</td>
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* = Used with the model furnace
## AIR DELIVERY - CFM (BOTTOM RETURN WITH FILTER)

<table>
<thead>
<tr>
<th>UNIT SIZE</th>
<th>RETURN-AIR CONNECTION</th>
<th>SPEED TAPS</th>
<th>EXTERNAL STATIC PRESSURE (IN. W.C.)</th>
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<td>Red</td>
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### NOTE:
1. A filter is required for each return–air inlet. Airflow performance includes a 3/4–in. (19 mm) washable filter media such as contained in a factory–authorized accessory filter rack. See accessory list. To determine airflow performance without this filter, assume an additional 0.1 in. w.c. available external static pressure.

2. **ADJUST THE BLOWER SPEED TAPS AS NECESSARY FOR THE PROPER AIR TEMPERATURE RISE FOR EACH INSTALLATION.**

3. Shaded areas indicate that this airflow range is **BELOW THE RANGE ALLOWED FOR HEATING OPERATION. THESE AIRFLOW RANGES MAY ONLY BE USED FOR COOLING.**

4. Airflows over 1800 CFM require bottom return, two–side return, or bottom and side return. A minimum filter size of 20" x 25" (508 x 635 mm) is required.

5. For upflow applications, air entering from one side into both the side of the furnace and a return air base counts as a side and bottom return.

6. The “--” entry indicates an unstable operating condition.
### MAXIMUM ALLOWABLE EXPOSED VENT LENGTHS INSULATION TABLE

Table 1 – Maximum Allowable Exposed Vent Length in Unconditioned Space - Ft.

<table>
<thead>
<tr>
<th>Winter Design Temp °F</th>
<th>Unit Size 40,000 BTUH</th>
<th>38-in. Insulation</th>
<th>1/2-in. Insulation</th>
<th>Unit Size 60,000 BTUH</th>
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### Maximum Allowable Exposed Vent Length in Unconditioned Space (M)

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<th>1/2-in. Insulation</th>
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### Table 2 – Maximum Equivalent Vent Length - Ft.

**NOTE:** Maximum Equivalent Vent Length (MEVL) includes standard and concentric vent termination and does NOT include elbows.

Use Table 3 - Deductions from Maximum Equivalent Vent Length to determine allowable vent length for each application.

#### Maximum Equivalent Vent Length - Meters

#### ELBOW CONFIGURATIONS

- Long
- Medium
- Mitered

#### VENT TERMINAL CONFIGURATIONS

- Standard 2-in., 3-in., or optional 4-in. termination.

#### Table 3 – Deductions from Maximum Equivalent Vent Length - Ft. (M)
Venting System Length Calculations

The Total Equivalent Vent Length (TEVL) for EACH combustion air or vent pipe equals the length of the venting system, plus the equivalent length of elbows used in the venting system from Table 3.

Standard vent terminations or factory accessory concentric vent terminations count for zero deduction.

See vent system manufacturer’s data for equivalent lengths of flexible vent pipe or other termination systems. DO NOT ASSUME that one foot of flexible vent pipe equals one foot of straight PVC/ABS DWV vent pipe.

Compare the Total Equivalent Vent Length to the Maximum Equivalent Vent Lengths in Tables 2.

Example 1

A direct-vent 60,000 Btuh furnace installed at 2100 ft. (640 M). Venting system includes, FOR EACH PIPE, 100 feet (30 M) of vent pipe, 95 feet (28 M) of combustion air inlet pipe, (3) 90° long radius elbows, (2) 45° long radius elbows and a factory accessory concentric vent kit.

Can this application use 2-in. (50 mm ND) PVC/ABS DWV vent piping?

| Measure the required linear length of air inlet and vent pipe; insert the longest of the two here: | 100 ft | Use length of the longer of the vent or air inlet piping system |
| Add equiv length of (3) 90° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe) | 3 x 3 ft = 9 ft. From Table 3 |
| Add equiv length of (2) 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe) | 2 x 1.5 ft = 3 ft. From Table 3 |
| Add equiv length of vent termination | 0 ft. From Table 3 |
| Add correction for flexible vent pipe, if any | 0 ft. From Vent Manufacturer’s instructions; zero for PVC/ABS DWV |
| Total Equivalent Vent Length (TEVL) | 112 ft. Add all of the above lines |
| Maximum Equivalent Vent Length (MEVL) | 127 ft. For 2” pipe from Table 2 |
| Is TEVL less than MEVL? | YES Therefore, 2” pipe may be used |

Example 2

A direct-vent 60,000 Btuh furnace installed at 2100 ft. (640 M). Venting system includes, FOR EACH PIPE, 100 feet (30 M) of vent pipe, 95 feet (28 M) of combustion air inlet pipe, (3) 90° long radius elbows, and a polypropylene concentric vent kit. Also includes 20 feet (6.1 M) of flexible polypropylene vent pipe, included within the 100 feet (30 M) of vent pipe.

Assume that one meter of flexible 60 mm or 80 mm polypropylene pipe equals 1.8 meters of PVC/ABS pipe. VERIFY FROM VENT MANUFACTURER’S INSTRUCTIONS.

Can this application use 60 mm (O.D.) polypropylene vent piping? If not what size piping can be used?

| Measure the required linear length of air inlet and vent pipe; insert the longest of the two here: | 100 ft | Use length of the longer of the vent or air inlet piping system |
| Add equiv length of (3) 90° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe) | 3 x 3 ft = 9 ft. From Vent Manufacturer’s instructions |
| Add equiv length of (2) 45° long-radius elbows (use the highest number of elbows for either the vent or inlet pipe) | 0 x 0 ft. From Vent Manufacturer’s instructions |
| Add equiv length of vent termination | 9 M x 3 ft/M = 18 ft. From Vent Manufacturer’s instructions |
| Add correction for flexible vent pipe, if any | 1.8 x 20 ft = 36 ft. From Vent Manufacturer’s instructions |
| Total Equivalent Vent Length (TEVL) | 163 ft. Add all of the above lines |
| Maximum Equivalent Vent Length (MEVL) | 127 ft. For 2” pipe from Table 2 |
| Is TEVL less than MEVL? | NO Therefore, 60mm pipe may NOT be used; try 80 mm |

| Maximum Equivalent Vent Length (MEVL) | 250 ft. For 3” pipe from Table 2 |
| Is TEVL less than MEVL? | YES Therefore, 80 mm pipe may be used |

NOTES:
1. Use only the smallest diameter pipe possible for venting. Over-sizing may cause flame disturbance or excessive vent terminal icing or freeze-up.
2. NA – Not allowed. Pressure switch will not close, or flame disturbance may result.
3. Total equivalent vent lengths under 10’ for 40,000 BTUH furnaces from 0 to 2000 ft. (0 to 610 M) above sea level require use of an outlet choke plate.
4. Failure to use an outlet choke when required may result in flame disturbance or flame sense lockout.
5. Not all furnace families include 140,000 BTUH input models.
6. Size both the combustion air and vent pipe independently, then use the larger size for both pipes.
7. Assume the two 45° elbows equal one 90° elbow. Wide radius elbows are desirable and may be required in some cases.
8. Elbow and pipe sections within the furnace casing and at the vent termination should not be included in vent length or elbow count.
9. The minimum pipe length is 5 ft. (2 M) linear feet (meters) for all applications.
10. Use 3-in. (76 mm) diameter vent termination kit for installations requiring 4-in. (102 mm) diameter pipe.
RETURN AIR TEMPERATURE

This furnace is designed for continuous return-air minimum temperature of 60°F (15°C) db or intermittent operation down to 55°F (13°C) db such as when used with a night setback thermometer. Return-air temperature must not exceed 80°F (27°C) db. Failure to follow these return air limits may affect reliability of heat exchangers, motors and controls.

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

<table>
<thead>
<tr>
<th>POSITION</th>
<th>CLEARANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear</td>
<td>0 (0 mm)</td>
</tr>
<tr>
<td>Front (Combustion air openings in furnace and in structure)</td>
<td>1 in. (25 mm)</td>
</tr>
<tr>
<td>Required for service**</td>
<td>24 in. (610 mm)*</td>
</tr>
<tr>
<td>All Sides of Supply Plenum**</td>
<td>1 in. (25 mm)</td>
</tr>
<tr>
<td>Sides</td>
<td>0 (0 mm)</td>
</tr>
<tr>
<td>Vent</td>
<td>0 (0 mm)</td>
</tr>
<tr>
<td>Top of Furnace</td>
<td>1 in. (25 mm)</td>
</tr>
</tbody>
</table>

* Recommended
**Consult your local building codes

COMBUSTION-AIR PIPE FOR NON-DIRECT (1-PIPE) VENT APPLICATION

NOTE: See Installation Instructions for specific venting configurations.
**Downflow Subbase**

A97427

FACTORY-SUPPLIED FIELD-INSTALLED INSULATION

**Concentric Vent Kit**

A83086

A concentric vent kit allows vent and combustion-air pipes to terminate through a single exit in a roof or side wall. One pipe runs inside the other allowing venting through the inner pipe and combustion air to be drawn in through the outer pipe.

**Dimensions (In. / mm)**

<table>
<thead>
<tr>
<th>Furnace Casing Width</th>
<th>Furnace in Downflow Application</th>
<th>Plenum Opening*</th>
<th>Floor Opening</th>
<th>HOLE NO. FOR WIDTH ADJUSTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 – 3/16 (360)</td>
<td>Furnace with or without Cased Coil Assembly or Coil Box</td>
<td>11 – 3/16 (322)</td>
<td>19 (483)</td>
<td>13 – 7/16 (341)</td>
</tr>
<tr>
<td>17 – 1/2 (445)</td>
<td>Furnace with or without Cased Coil Assembly or Coil Box</td>
<td>15 – 1/8 (384)</td>
<td>19 (483)</td>
<td>16 – 3/4 (426)</td>
</tr>
<tr>
<td>21 (533)</td>
<td>Furnace with or without Cased Coil Assembly or Coil Box</td>
<td>18 – 5/8 (396)</td>
<td>19 (483)</td>
<td>20 – 1/4 (514)</td>
</tr>
<tr>
<td>24 – 1/2 (622)</td>
<td>Furnace with or without Cased Coil Assembly or Coil Box</td>
<td>22 – 1/8 (562)</td>
<td>19 (483)</td>
<td>23 – 3/4 (603)</td>
</tr>
</tbody>
</table>

*The plenum should be constructed 1/4-in. (6 mm) smaller in width and depth than the plenum dimensions shown above.

**Downflow Subbase**

A88202

One base fits all furnace sizes. The base is designed to be installed between the furnace and a combustible floor when no coil box is used or when a coil box other than a Bryant cased coil is used. It is CSA design certified for use with Bryant branded furnaces when installed in downflow applications.
MEDIA FILTER CABINET

NOTE: Media cabinet is matched to the bottom opening on furnace. May also be used for side return.

A12428

TYPICAL WIRING SCHEMATIC

NOTE 1

NOTE 2

FIELD-SUPPLIED DISCONNECT

CONDENSING UNIT

TWO WIRE

FURNACE

208/230- OR 460-V THREE PHASE

208/230-V SINGLE PHASE

NOTE 1. Connect Y-terminal in furnace as shown for proper blower operation.
2. Some thermostats require a "C" terminal connection as shown.
3. If any of the original wire, as supplied, must be replaced, use same type or equivalent wire.

A11387
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.
GUIDE SPECIFICATIONS

General

System Description
Furnish a ______________________ 4-way multipoise gas-fired condensing furnace for use with natural gas or propane (factory-authorized conversion kit required for propane); furnish external media cabinet for use with accessory media filter or standard filter.

Quality Assurance
Unit will be designed, tested and constructed to the current ANSI Z21.47/CSA 2.3 design standard for gas-fired central furnaces.
Unit will be third party certified by CSA to the current ANSI Z21.47/CSA 2.3 design standard for gas-fired central furnaces. Unit will carry the CSA Blue Star® and Blue Flame® labels. Unit efficiency testing will be performed per the current DOE test procedure as listed in the Federal Register.
Unit will be certified for capacity and efficiency and listed in the latest AHRI Consumer’s Directory of Certified Efficiency Ratings.
Unit will carry the current Federal Trade Commission Energy Guide efficiency label.

Delivery, Storage, and Handling
Unit will be shipped as single package only and is stored and handled per unit manufacturer’s recommendations.

Warranty (for inclusion by specifying engineer)
U.S. and Canada only. Warranty certificate available upon request.

Equipment
Blower Wheel and ECM Blower Motor
Galvanized blower wheel shall be centrifugal type, statically and dynamically balanced. Blower motor of ECM type shall be permanently lubricated with sealed ball bearings, of ______hp, and have multiple speeds from 600-1200 RPM operating only when 24-VAC motor inputs are provided. Blower motor shall be direct drive and soft mounted to the blower housing to reduce vibration transmission.

Filters
Furnace shall have reusable-type filters. Filter shall be ______ in. (mm) X ________ in. (mm). An accessory highly efficient Media Filter is available as an option. ___________ Media Filter.

Casing
Casing shall be of .030 in. thickness minimum, pre-painted steel.

Draft Inducer Motor
Draft inducer motor shall be single-speed PSC design.

Primary Heat Exchangers
Primary heat exchangers shall be 3-Pass corrosion-resistant aluminized steel of fold-and-crimp sectional design and applied operating under negative pressure.

Secondary Heat Exchangers
Secondary heat exchangers shall be of a stainless steel flow-through of fin-and-tube design and applied operating under negative pressure.

Controls
Controls shall include a micro-processor-based integrated electronic control board with at least 16 service troubleshooting codes displayed via diagnostic flashing LED light on the control, a self-test feature that checks all major functions of the furnace, and a replaceable automotive-type circuit protection fuse. Multiple operational settings available, including blower speeds for high heat, low cooling, high cooling. Continuous fan speed may be adjusted from the thermostat.

Operating Characteristics
Heating capacity shall be _________________ Btuh input; ____________ Btuh output capacity.
Fuel Gas Efficiency shall be __________AFUE.
Air delivery shall be ________________ cfm minimum at 0.50 in. wc. external static pressure.
Dimensions shall be: depth__________ in. (mm); width __________ in. (mm); height___________ in. (mm) (casing only).
Height shall be _________in. (mm) with A/C coil and __________________ in. (mm) overall with plenum.

Electrical Requirements
Electrical supply shall be 115 volts, 60 Hz, single-phase (nominal). Minimum wire size shall be ________AWG; maximum fuse size of HACR-type designated circuit breaker shall be _________ amps.

Special Features
Refer to section of the product data identifying accessories and descriptions for specific features and available enhancements.