



Russell[®]
By Rheem

PROJECT NAME _____
LOCATION _____
ARCHITECT _____
ENGINEER _____
CONTRACTOR _____
SUBMITTED BY _____ DATE _____

UNIT SUMMARY

| | | | | | | |
|---------------------|--|--|--|--|--|--|
| Quantity | | | | | | |
| Unit Designation | | | | | | |
| Model No. | | | | | | |
| Total Cooling | | | | | | |
| Sensible Cooling | | | | | | |
| Air Ent. Evaporator | | | | | | |
| Air Lvg. Evaporator | | | | | | |
| Heating Input | | | | | | |
| Heating Output | | | | | | |
| CFM/ESP | | | | | | |
| EER/SEER | | | | | | |
| Electrical | | | | | | |
| Minimum Ampacity | | | | | | |
| Min.-Max. Breaker | | | | | | |
| Net Unit Weight | | | | | | |
| Accessory | | | | | | |
| Catalog Form Number | | | | | | |

ACCESSORIES:

NOTES:

Vantix™ Line SA15AY iM Air Conditioners

Cooling Efficiencies up to: 16.0 SEER2 / 13.0 EER2

Nominal Sizes: 1.5 to 5 Tons [5.3 to 17.6 kW]

Cooling Capacities: 17.1 to 56.0 kBTU [5.0 to 16.4 kW]

Refrigerant Type: R-454B

JOB NAME _____ LOCATION _____

CONTRACTOR _____ ORDER NO. _____

ENGINEER _____ UNIT MODEL NO. _____

SUBMITTED FOR APPROVAL RECORD COIL MODEL NO. _____

DATE _____ AIR HANDLER MODEL NO. _____

UNIT DATA

COOLING PERFORMANCE

EFFICIENCY SEER

TOTAL CAPACITY* MBH [kW]

SENSIBLE CAPACITY* MBH [kW]

OUTDOOR DESIGN TEMP..... °F [°C] DB

TEMP. OF AIR ENTERING
EVAPORATOR COIL °F [°C] DB

..... °F [°C] WB

POWER INPUT REQUIREMENT kW
(*uses blower motor heat)

HEATING PERFORMANCE

EFFICIENCY HSPF

TOTAL CAPACITY* MBH [kW]

OUTDOOR DESIGN TEMP..... °F [°C] DB

TEMP. OF AIR ENTERING
EVAPORATOR COIL °F [°C] DB

SUPPLY AIR BLOWER PERFORMANCE

TOTAL AIR SUPPLY..... CFM [L/s]

TOTAL RESISTANCE EXTERNAL
TO UNIT IWG

BLOWER SPEED..... RPM

POWER OUTPUT REQUIREMENT BHP

MOTOR RATING HP [W]

POWER INPUT REQUIREMENT kW

ELECTRICAL DATA

POWER SUPPLY Hz

TOTAL UNIT AMPACITY..... AMPS

MINIMUM WIRE SIZE AWG

MAXIMUM OVERCURRENT DEVICE
FUSES/HACR BREAKER AMPS

CLEARANCES

ACCESS SIDE 24" [609.6 mm]

AIR INLETS 12" [304.8 mm]

ABOVE UNIT 60" [1524 mm]

FEATURES

- **7mm Condenser Copper Coil:** Requires less refrigerant allowing for a smaller and lighter footprint while enhancing reliability
- **Expanded Valve Space:** 3 in. – 4 in. – 5 in. service valve space – provides a minimum working area of 27-square inches for easier access
- **Triple Service Access:** 15 in. wide, industry leading corner service access, two fastener, removeable corner and individual louver panels – makes repairs easier and faster
- **Swept Wing Fan Technology¹:** Features quieter operation and improved unit acoustics.
- **Designing for Sustainability with Low GWP:** For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in heating and cooling systems. This new requirement will result in a 78%² lower GWP than previous-generation refrigerants — with only minimal changes to system installation. For us, this is another step toward our continued sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort
- **Refrigerant Detection System³:** An integrated one-box, patented design featuring the A2L sensor and mitigation board, offering easier commissioning with a single component and simplified wiring configuration, compatibility with any 24V thermostat application and system protection by automatically pausing outdoor unit operation — if excess refrigerant is detected

ACCESSORIES/OPTIONS

- Compressor Crankcase Heater
- Low Ambient Control
- Compressor Sound Cover
- Low Pressure Control
- High Pressure Control
- Liquid Line Solenoid (24 VAC, 50/60 Hz)
- Liquid Line Solenoid (120/240 VAC, 50/60 Hz)

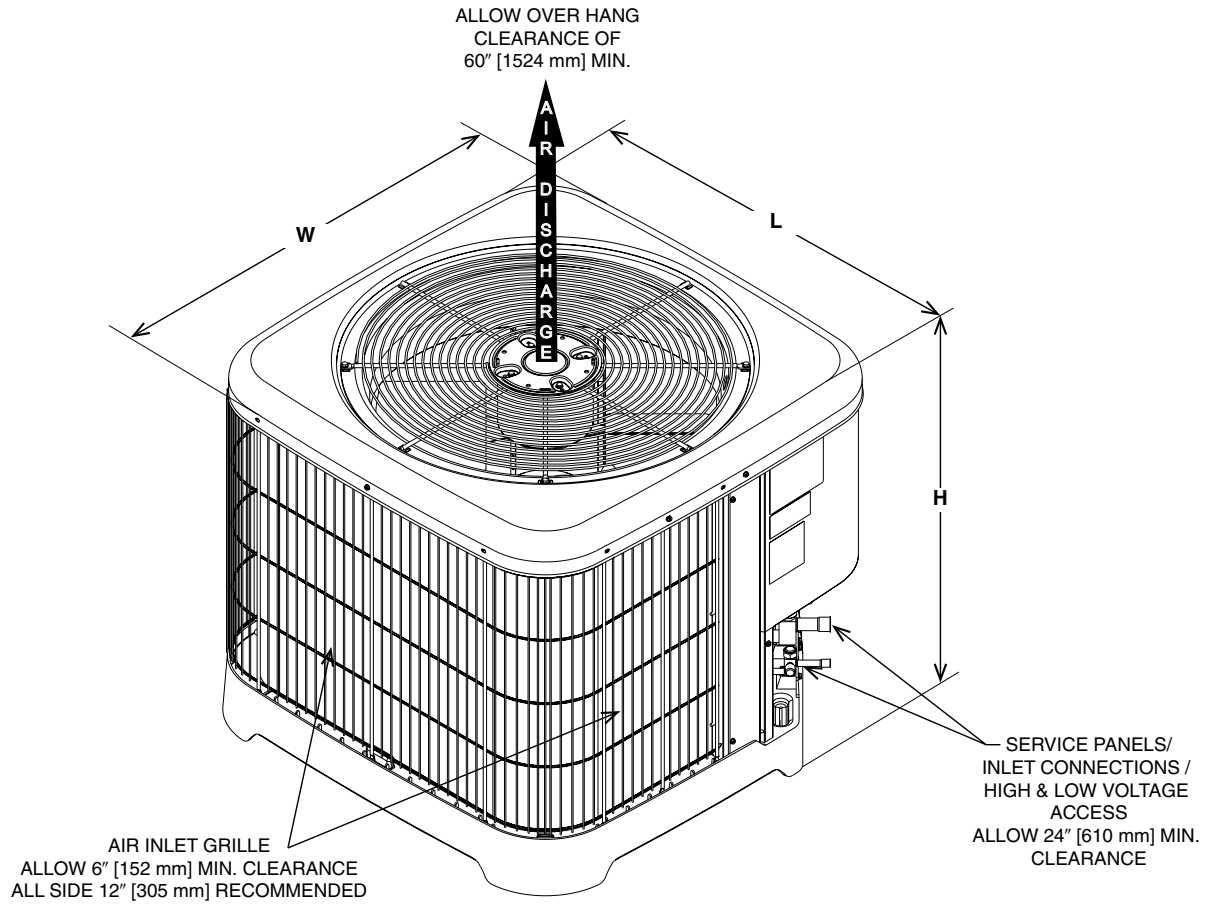
¹Does not apply to 1.5 and 2 ton models

²When comparing the GWP of R-454B to R-410A refrigerant

³Factory or field installed in the furnace coil or air handler and is applicable to the complete heating and cooling system featuring Low GWP Refrigerant (A2L)



SA15AY



ST-A1226-24-00

Unit Dimensions

| Model No. | OPERATING | | | | | | SHIPPING | | | | | |
|-----------|------------|------|------------|-----|-----------|-----|------------|------|------------|-----|-----------|-----|
| | H (Height) | | L (Length) | | W (Width) | | H (Height) | | L (Length) | | W (Width) | |
| | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm |
| SA15AY18 | 25.00 | 635 | 29.75 | 756 | 29.75 | 756 | 26.50 | 673 | 32.38 | 822 | 32.38 | 822 |
| SA15AY24 | 25.00 | 635 | 33.75 | 857 | 33.75 | 857 | 26.50 | 673 | 36.38 | 924 | 36.38 | 924 |
| SA15AY30 | 27.00 | 686 | 33.75 | 857 | 33.75 | 857 | 28.50 | 724 | 36.38 | 924 | 36.38 | 924 |
| SA15AY36 | 31.00 | 787 | 33.75 | 857 | 33.75 | 857 | 32.50 | 826 | 36.38 | 924 | 36.38 | 924 |
| SA15AY42 | 35.00 | 889 | 33.75 | 857 | 33.75 | 857 | 36.50 | 927 | 36.38 | 924 | 36.38 | 924 |
| SA15AY48 | 35.00 | 889 | 33.75 | 857 | 33.75 | 857 | 36.50 | 927 | 36.38 | 924 | 36.38 | 924 |
| SA15AY60 | 45.00 | 1143 | 35.75 | 908 | 35.75 | 908 | 46.50 | 1181 | 38.38 | 975 | 38.38 | 975 |

[] Designates Metric Conversions

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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