



RussellTM
By Rheem

SUBMITTAL COVER SHEET

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						

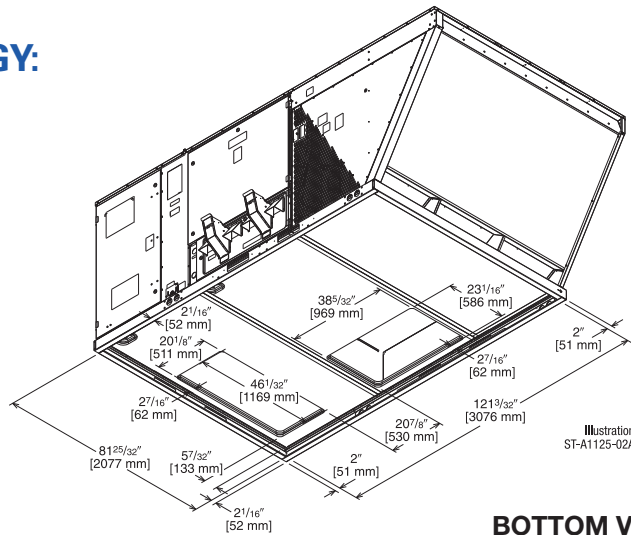
ACCESSORIES:

NOTES:

PACKAGE GAS ELECTRIC UNITS FEATURING HUMIDIDRY™ TECHNOLOGY:

RKNL-G Series
With ClearControl™
and VFD Technology
Nominal Sizes 15-25 Tons [52.8-87.9 kW]

JOB NAME _____
 CONTRACTOR _____
 ENGINEER _____
 LOCATION _____
 ORDER NO. _____
 SUBMITTED FOR APPROVAL RECORD
 SUBMITTED BY _____
 DATE _____
 UNIT DESIGNATION _____
 MODEL NO. _____



UNIT DATA

COOLING PERFORMANCE

TOTAL CAPACITY* MBH
 SENSIBLE CAPACITY* MBH
 EFFICIENCY (at AHRI) EER
 PART LOAD EFFICIENCY IEER
 AMBIENT DB TEMP °F
 ENTERING DB TEMP °F
 ENTERING WB TEMP °F
 LEAVING DB TEMP °F
 LEAVING WB TEMP °F
 POWER INPUT (w/o blower) kW
 ELEVATION FT
 SOUND POWER DBELS

HEATING PERFORMANCE

GAS HEAT INPUT BTU
 GAS HEAT OUTPUT BTU
 STEADY STATE EFFICIENCY %

SUPPLY AIR BLOWER PERFORMANCE

SUPPLY AIR CFM [L/s]
 OUTSIDE AIR CFM [L/s]
 EXTERNAL STATIC PRESSURE IWG
 DUCT CONNECTION LOCATION
 BLOWER SPEED RPM
 MOTOR RATING HP [W]
 BRAKE HORSEPOWER BHP
 POWER INPUT REQUIREMENT kW

ELECTRICAL DATA

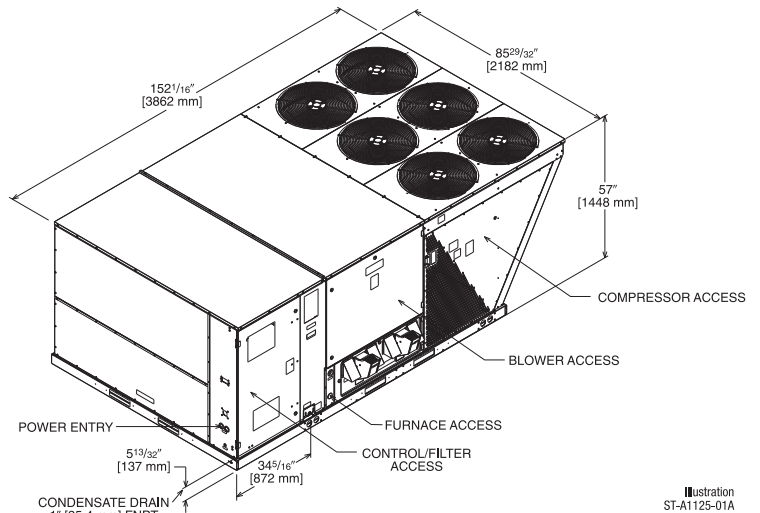
POWER SUPPLY Hz
 MINIMUM CIRCUIT AMPACITY AMPS
 MAXIMUM OVERCURRENT DEVICE
 FUSE SIZE AMPS
 HACR CIRCUIT BREAKER AMPS

DIMENSIONS & WEIGHT

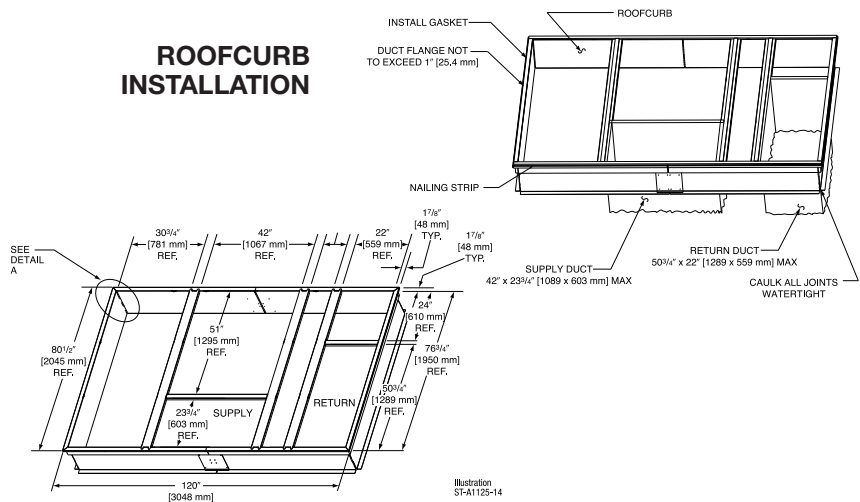
HEIGHT _____ IN WIDTH _____ IN DEPTH _____ IN
 TOTAL WEIGHT LBS [kg]
 (including factory options)

CLEARANCES

FRONT	80" [2032 mm]	BACK	18" [457 mm]
BOTTOM	0"	TOP	60" [1524 mm]
LEFT SIDE	18" [457 mm]		36" [914 mm]
RIGHT SIDE (condenser end)			18" [457 mm]



ROOFCURB INSTALLATION



[] Designates Metric Conversions



FEATURES FOR GAS/ELECTRIC ROOFTOP UNITS RKNL-G 15 THRU 25 NOMINAL TONS [52.8 THRU 87.9 kW]

- R-410A HFC refrigerant.
- Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- Dual stage compressors.
- Convertible airflow – vertical downflow or horizontal sideflow.
- TXV refrigerant metering system on each circuit.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- Solid Core liquid line filter drier on each circuit.
- Single slab, single pass designed evaporator and condenser coils facilitate easy cleaning for maintaining high efficiencies.
- Cooling operation up to 125 degree F ambient.
- Foil faced insulation encapsulated throughout entire unit minimizes airborne fibers from the air stream.
- Hinged major access door with heavy-duty gasketing, 1/4 turn latches and door retainers.
- Slide Out Indoor fan assembly for added service convenience.
- Powder Paint Finish meets ASTM B117 steel coated on each side for maximum protection. G90 galvanized.
- Base pan with drawn supply and return opening for superior water management.
- Forkable base rails for easy handling and lifting.
- Single point electrical connections.
- Internally sloped slide out condensate pan conforms to ASHRAE 62 standards.
- High performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser and gas heat inducer motors.
- Condenser motors are internally protected, totally enclosed with shaft down design.
- 2 inch filter standard with slide out design.
- Two stage gas valve, direct spark ignition, and induced draft for efficiency and reliability.
- Tubular heat exchange for long life and induced draft for efficiency and reliability.
- Solid state furnace control with on board diagnostics.
- 24 volt control system with resettable circuit breakers.
- Colored and labeled wiring.
- Copper tube/Aluminum Fin coils.
- Factory Installed ClearControl™ Direct Digital Control (DDC) and sensors which can connect to LonWorks™ or BACnet® BAS systems for remote monitoring and control.
- Variable Frequency Drive (VFD).
- HumidiDry™ Dehumidification System.

[] Designates Metric Conversions

ACCESSORIES

Factory Installed

- Oversized Blower motor
- Stainless Steel Gas Heat Exchanger.....
- Disconnect w/Non-Powered Convenience
 Outlet.....
- Low Ambient w/Comfort Alert® Control.....
- Single Enthalpy Economizer
 w/Barometric Relief and DDC.....
- Single Enthalpy Economizer w/Barometric Relief,
 Smoke Detector and DDC

Field Installed

- Disconnect w/Non-Powered Convenience
 Outlet.....
- Low Ambient Control
- Comfort Alert® Control
- Natural Gas High Altitude Kit
- Propane Conversion Kit
- 14" Full Perimeter Roofcurb.....
- Roofcurb Adapter.....
- Concentric Diffuser.....
- Manual Outside Air Intake Damper.....
- Motorized Outside Air Intake Damper
- Motorized Outside Air Intake Damper
 w/DDC Feedback
- Single Enthalpy Economizer
 w/Barometric Relief and DDC.....
- Single Enthalpy Economizer w/Barometric
 Relief, Smoke Detector and DDC
- Horizontal Single Enthalpy Economizer
 w/Barometric Relief and DDC.....
- Dual Enthalpy Adapter
- Power Exhaust.....
- CO₂ Sensor (wall mount with LCD)



Russell™ By Rheem

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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.