FORM NO. R11-827

PACKAGE UNITS

RKKB- SERIES STANDARD EFFICIENCY GAS HEAT / ELECTRIC COOLING PACKAGE UNITS

*Unit shown with optional louver panels installed.

Nominal Sizes 7.5-12.5 Tons [26.4-44.0 kW]

Scroll Inside

Accredited by the Dutch Council for Certification
ABS Quality Evaluations, Inc. Quality Assurance Certification
REGISTRAR ACCREDITATION BOARD
ISO 9002
Certificate Number: 30164

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EFFICIENCY RATING CERTIFIED ama

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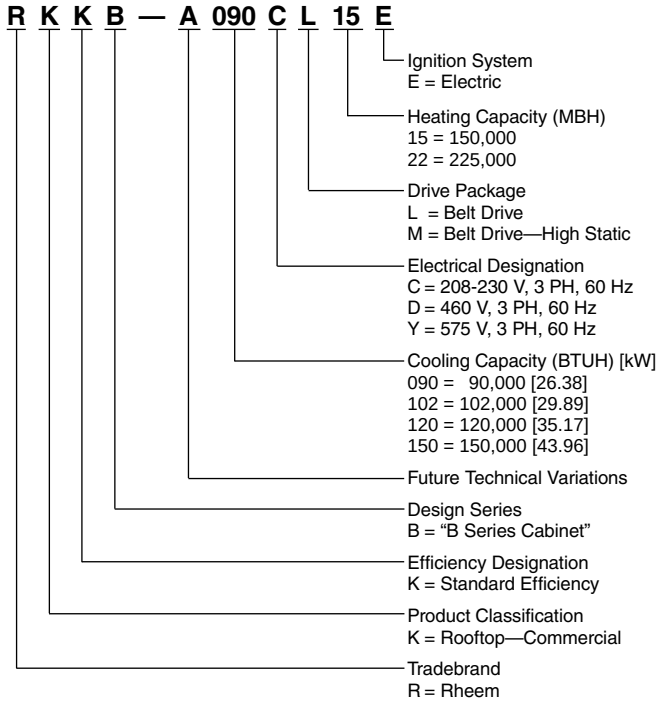
MODEL IDENTIFICATION



[ ] Designates Metric Conversions

BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.

GENERAL TERMS OF LIMITED WARRANTY*

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

Heat Exchanger .....Ten (10) Years

Condenser Coil and Evaporator Coil leaks caused by factory defects .....One (1) Year
Compressor.....Five (5) Years
Any Other Part.....One (1) Year

***For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.**

RHEEM'S NEW "B SERIES" IS HERE!

Rheem's new "B Series" rooftop unit has been designed from the ground up with a host of new standard features. Performance, Serviceability, and Reliability are fundamental to this all new *compact* design. Listed below are *standard* features found in the new "B Series" Rooftop.

PERFORMANCE FEATURES

Gas Heat

- Two-stage gas valve (50/100%) for superior comfort control at minimum operating cost
- Dual inducers allow for 81%. Steady state efficiency at high *and* low stage
- Rheem exclusive in-shot burners
- Solid state, direct spark ignition with remote flame sense and on-board diagnostics

Cooling

- Quiet, efficient, twin Copeland® Compliant Scroll® compressors
- Two-stage cooling for superior comfort control at minimum operating cost
- Belt-drive blower with optional drive to accommodate design conditions as high as 2.0 inches [.37 kPa] of external static pressure at nominal airflow

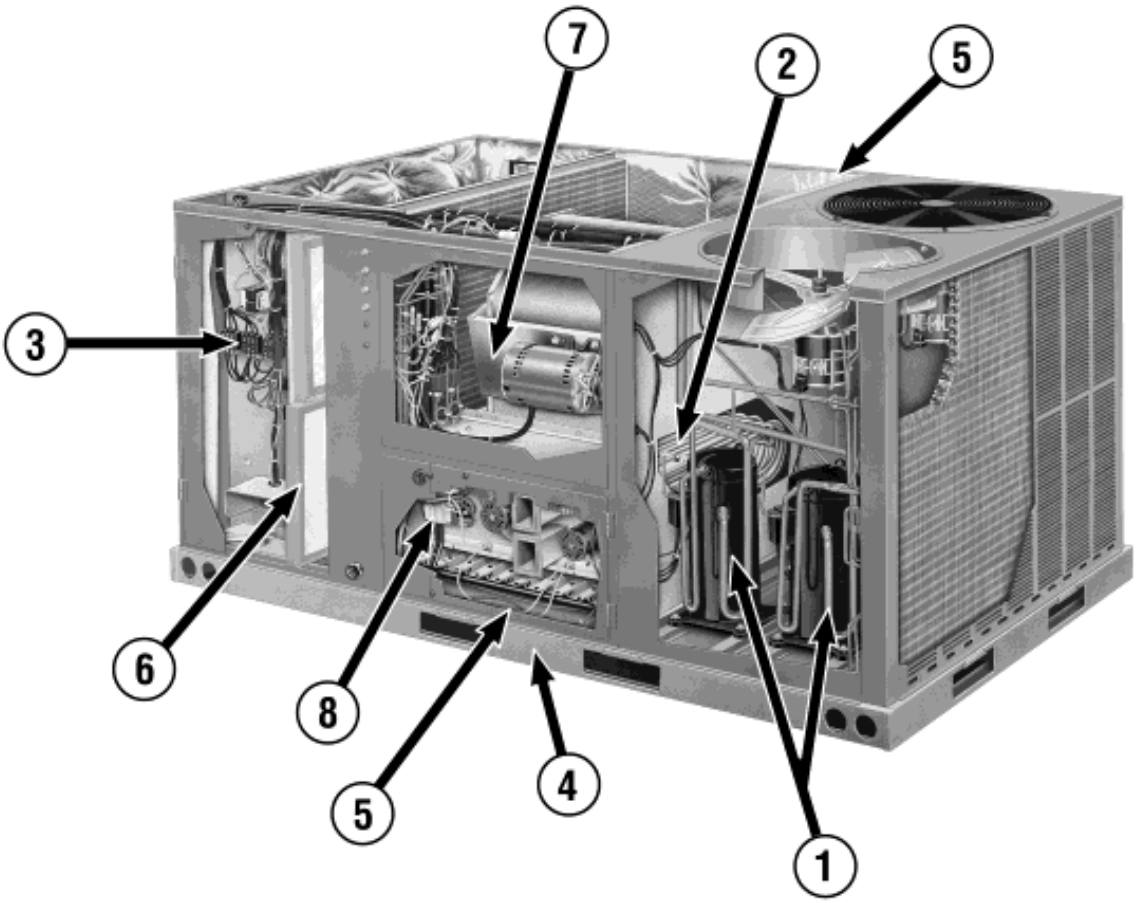
SERVICE FEATURES

- Hinged access panels for convenience
- Large control panel with numbered and color coded wiring for easy troubleshooting
- Front access, slide-out blower assembly for easy maintenance
- Convertible airflow for maximum flexibility
- Solid-state furnace controls with diagnostic L.E.D. for easy troubleshooting
- Factory-installed two-inch [50.8 mm], throw away filters. Accessible without tools
- Externally-mounted refrigerant gauge ports
- Side or base utility access minimizing roof penetrations
- Full perimeter, forkable, riggable baserails with protective forkboards for easy handling
- Plug-in electrical connections on outdoor fan assemblies
- Unit is prewired to accept slip-in economizer

RELIABILITY FEATURES

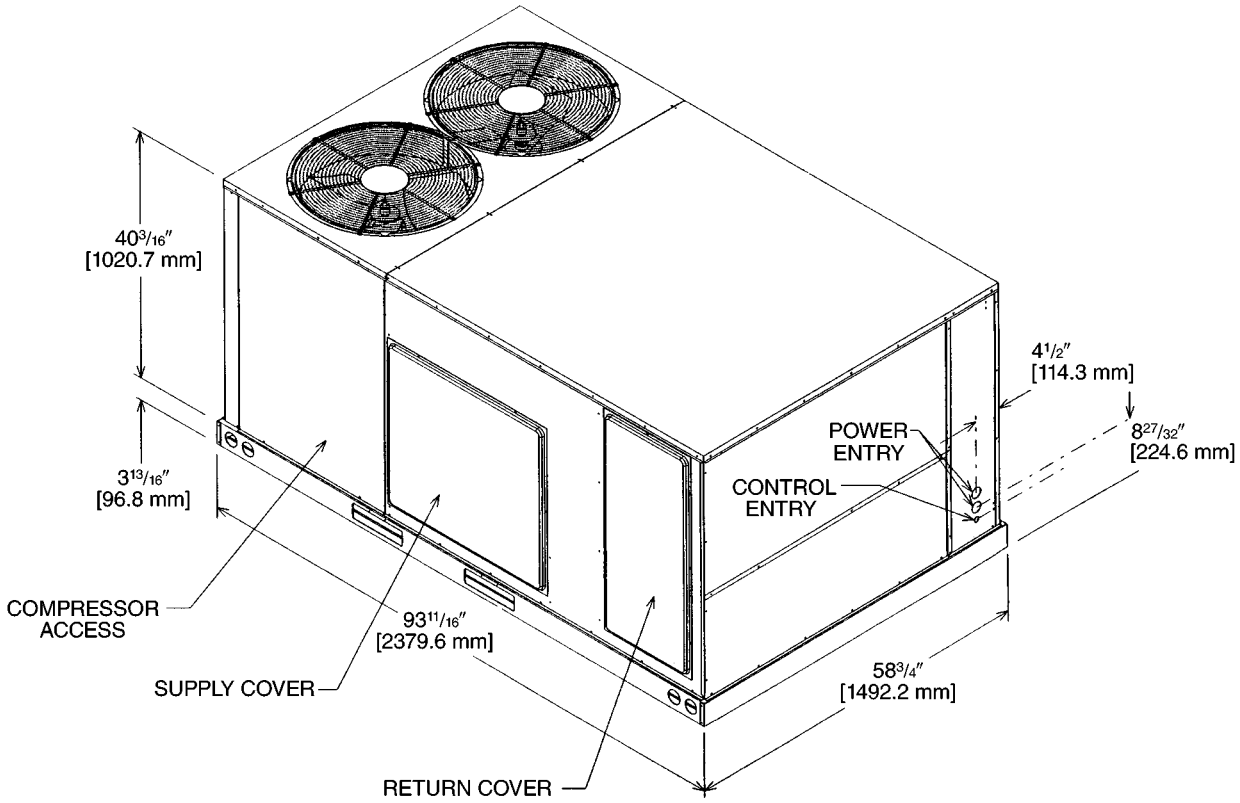
- One-piece top and base pan on indoor section. One-inch [25.4 mm] raised flanges on supply/return opening for superior water management
- Aluminized steel heat exchanger helps eliminate corrosion
- Base pan insulation mounted on bottom helps eliminate corrosion and improves indoor air quality
- Non-corrosive, sloped drain pan helps improve indoor air quality
- Insulation secured by adhesive *and* mechanical means
- Electrodeposition powder-coat paint process guards against extreme weather conditions and withstands 1000-hour salt-spray test

These quality features are included in the Rheem Gas Heat / Electric Cooling Package Unit

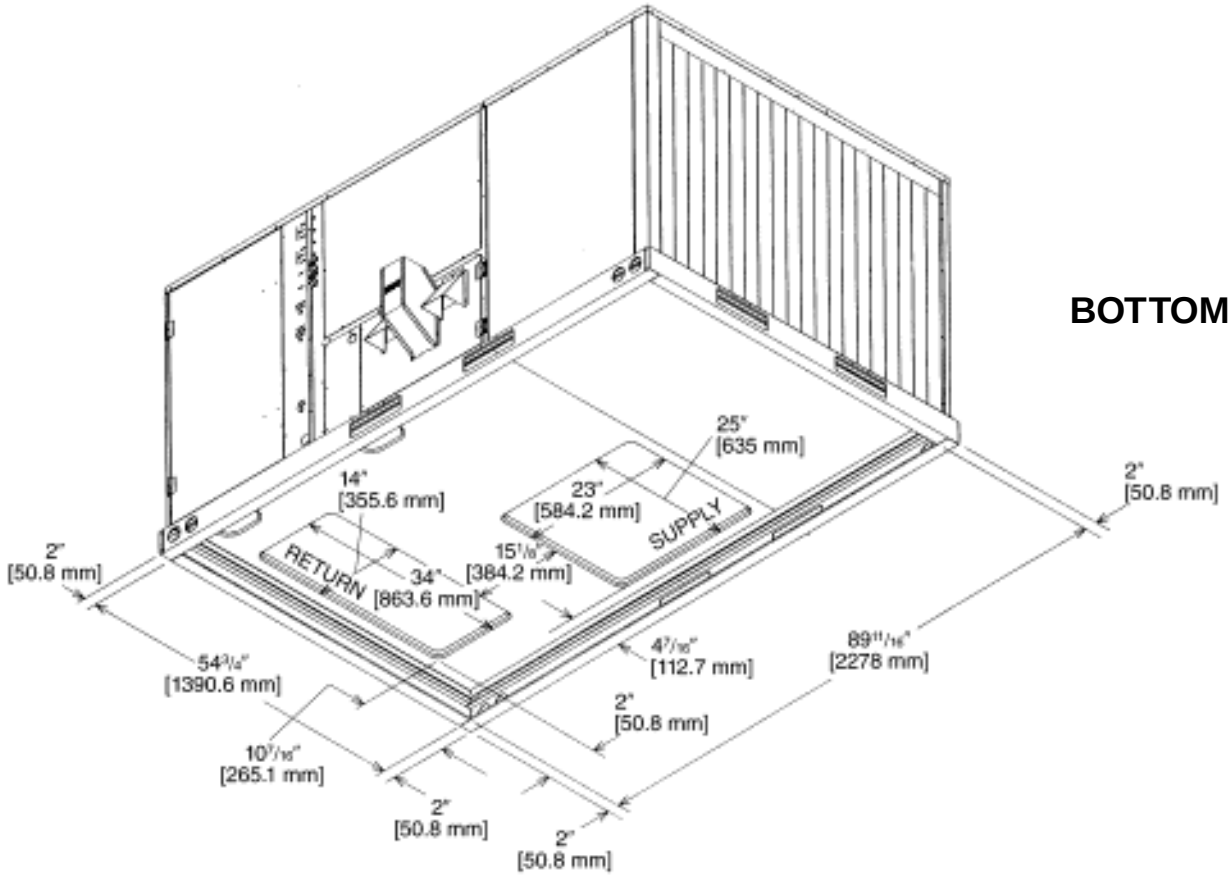


1. Twin Copeland Scroll Compressors for two-stage cooling
2. Tubular heat exchanger for long-life
3. Solid state furnace controls with on-board diagnostics
4. Forkable base rails for easy handling
5. One-piece top, one-piece drawn indoor base pan for superior water management
6. Easy access factory installed filters
7. Slide-out blower assembly for easy maintenance
8. Two-stage gas valve and direct spark ignition for efficiency and reliability

UNIT DIMENSIONS
GAS HEAT / ELECTRIC
COOLING PACKAGE

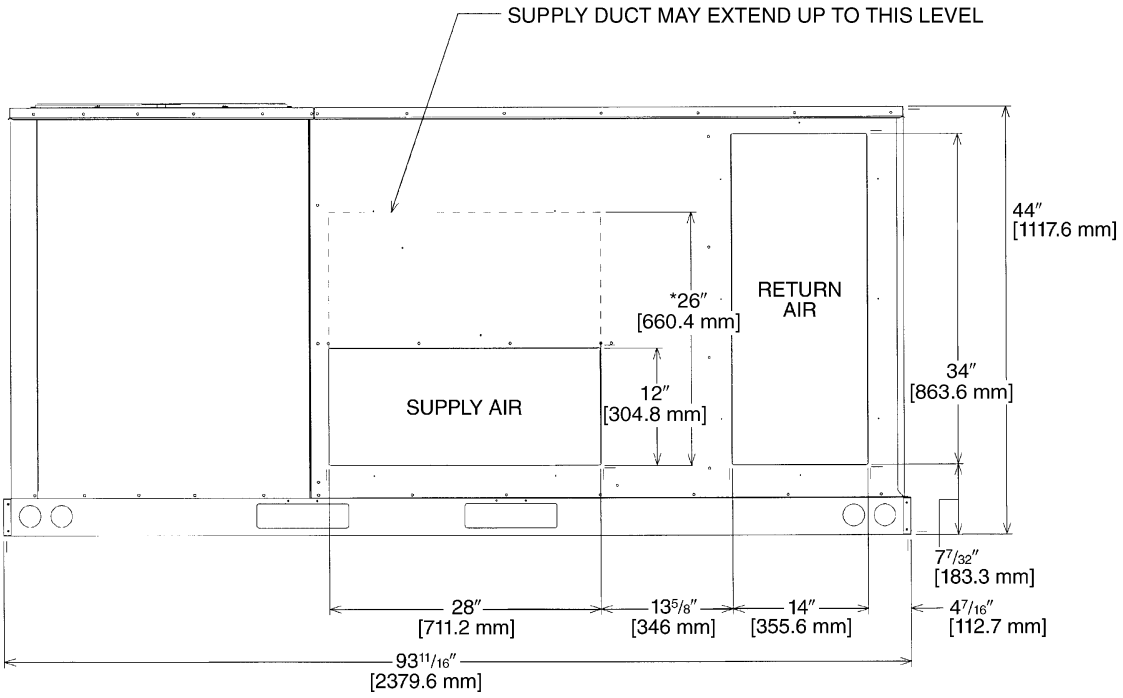


BOTTOM VIEW



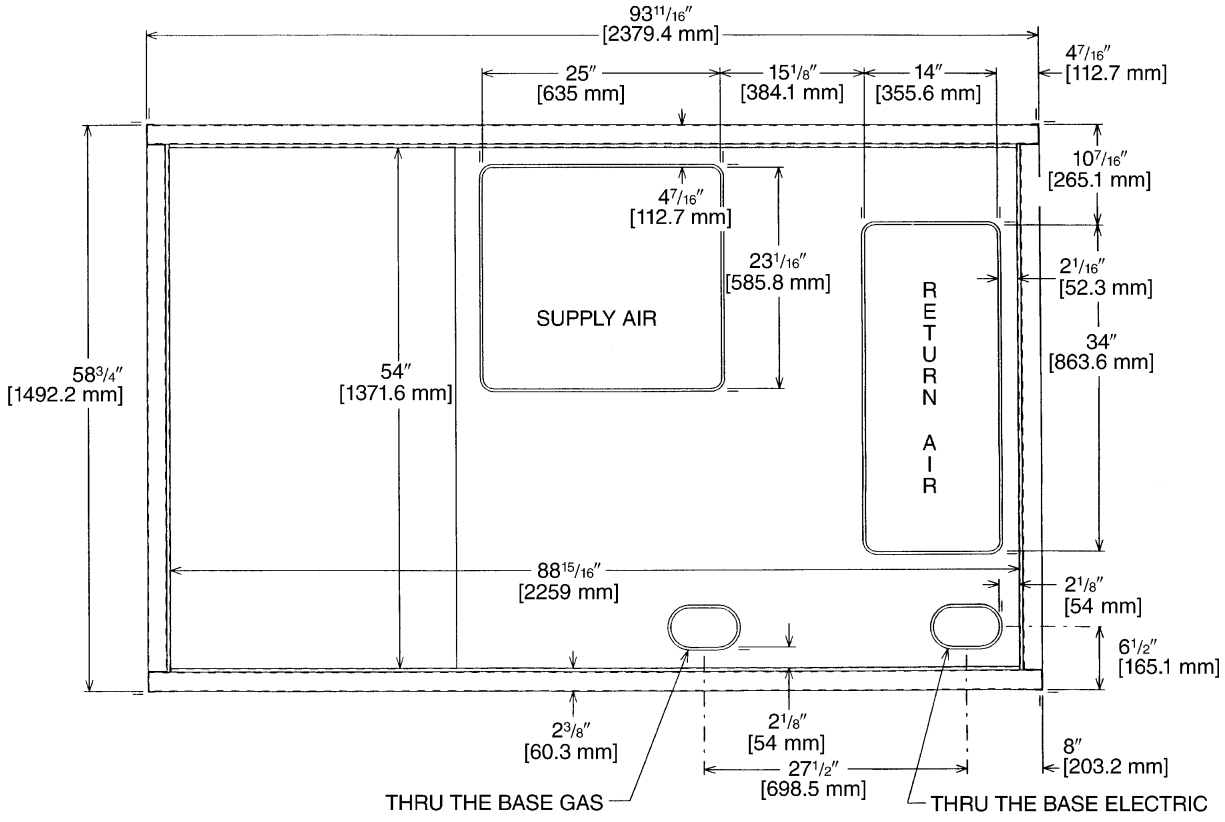
UNIT DIMENSIONS
GAS HEAT / ELECTRIC
COOLING PACKAGE

SUPPLY AND RETURN DIMENSIONS FOR HORIZONTAL APPLICATION



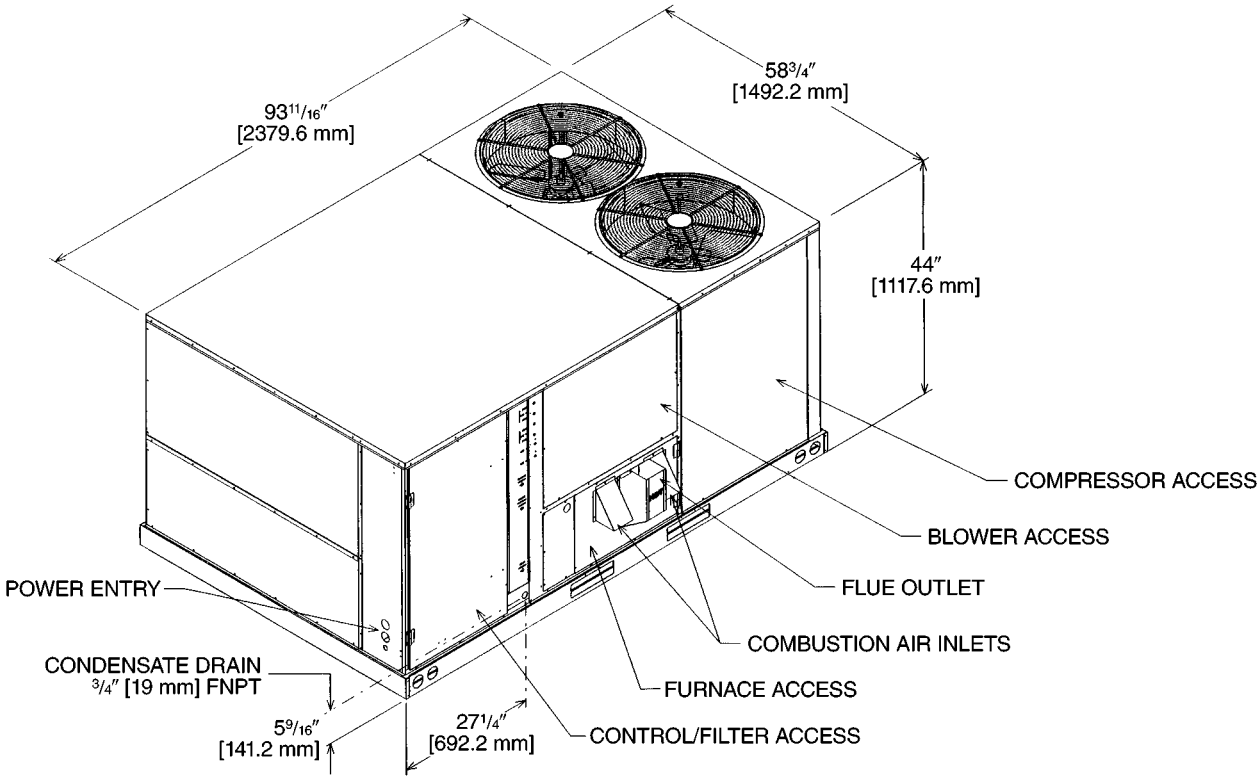
***RECOMMENDED DUCT DIMENSIONS ARE 26"**

SUPPLY RETURN DIMENSIONS FOR DOWNFLOW APPLICATIONS



[ ] Designates Metric Conversions

UNIT DIMENSIONS
GAS HEAT / ELECTRIC
COOLING PACKAGE

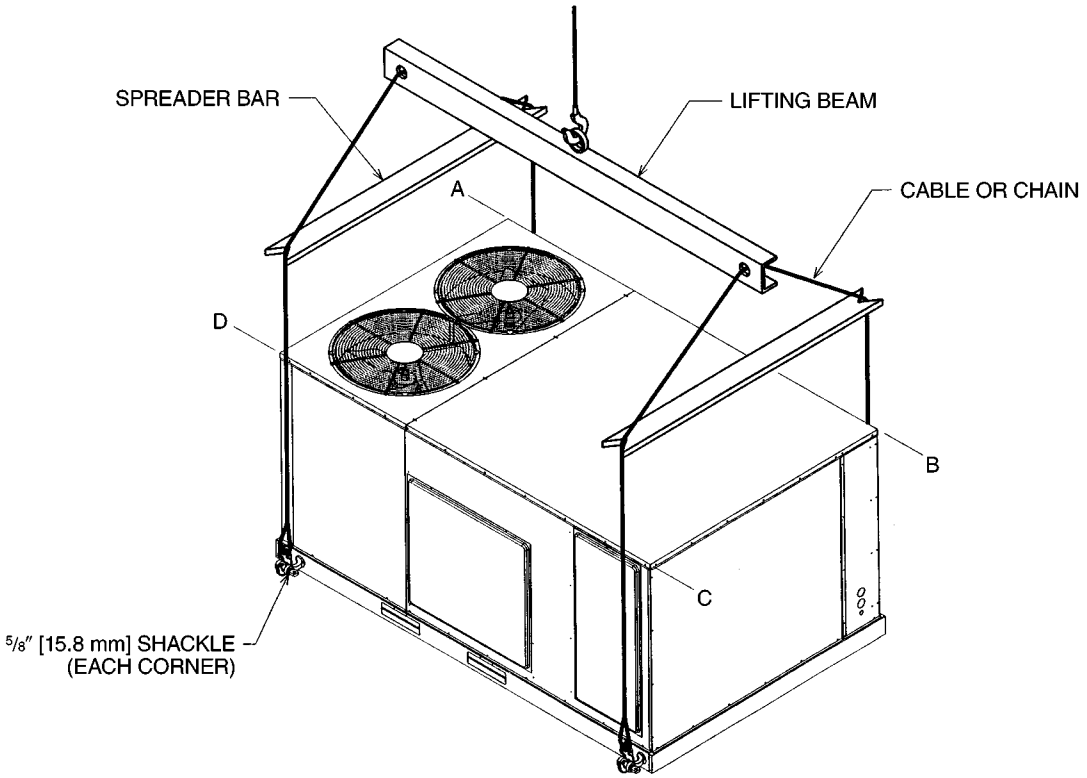


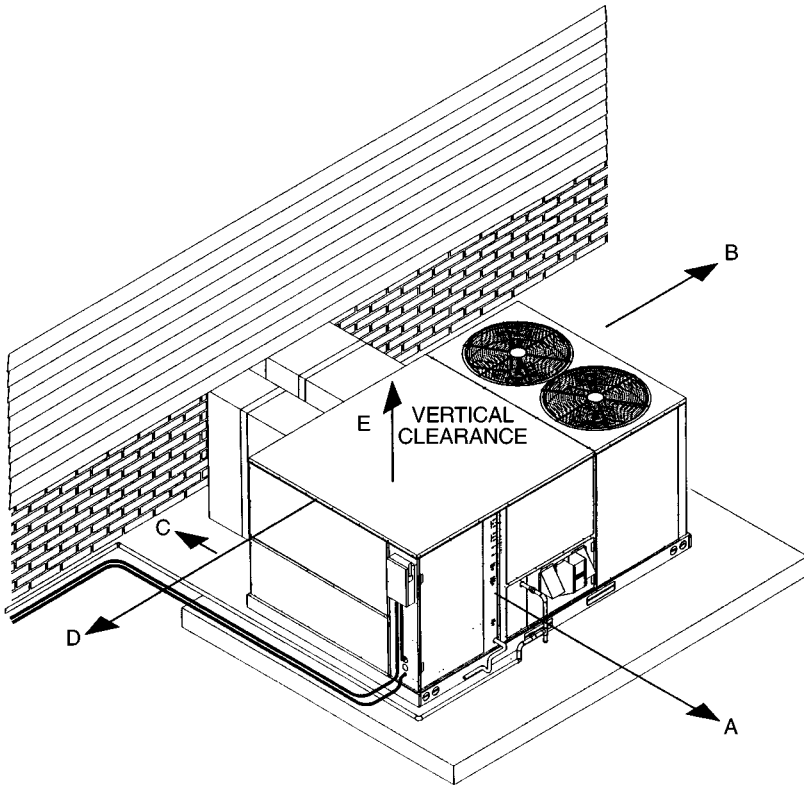
[ ] Designates Metric Conversions

WEIGHTS

Accessory	Shipping—lbs [kg]	Operating—lbs [kg]
Economizer	90 [40.82]	81 [36.70]
Power Exhaust	20 [9.07]	18 [8.16]
Fresh Air Damper (Manual)	26 [11.79]	21 [9.53]
Fresh Air Damper (Motorized)	43 [19.50]	38 [17.24]
Roof Curb 14"	90 [40.82]	85 [38.60]
Roof Curb 24"	140 [63.50]	135 [61.23]

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
7.5-10 [26.4-35.2]	33%	27%	17%	23%





CLEARANCES

The following minimum clearances must be observed for proper unit performance and serviceability.

Recommended Clearance In. [mm]	Location
48 [1219]	A - Front
18 [457]	B - Condenser Coil
18 [457]	C - Duct Side
18 [457]	D - Evaporator End
60 [1524]	E - Above
*Without Economizer. 48" [1219 mm] With Economizer	

[ ] Designates Metric Conversions

SELECTION PROCEDURE

To select an RKKB- Cooling and Heating unit to meet a job requirement, follow this procedure, with example, using data supplied in this specification sheet.

1. DETERMINE COOLING AND HEATING REQUIREMENTS AND SPECIFIC OPERATING CONDITIONS FROM PLANS AND SPECS.

Example:	Total cooling capacity—	106,000 BTUH [31.26 kW]
	Sensible cooling capacity—	82,000 BTUH [24.03 kW]
	Heating capacity—	150,000 BTUH [43.96 kW]
	*Condenser Entering Air—	95°F [35°C] DB
	*Evaporator Mixed Air Entering	65°F [18°C] WB; 78°F [26°C] DB
	*Indoor Air Flow (vertical)	3600 CFM [1699 L/s]
	*External Static Pressure	.40 in. WG

2. SELECT UNIT TO MEET COOLING REQUIREMENTS.

Since total cooling is within the range of a nominal 10 ton [35.2 kW] unit, enter cooling performance table at 95°F [35°C] DB condenser inlet air. Interpolate between 63°F [2°C] and 67°F [19°C] to determine total and sensible capacity and power input for 65°F [18°C] WB evap inlet air at 4000 CFM [1888 L/s] indoor air flow (table basis):

Total Capacity = 119,500 BTUH [35.02 kW]
Sensible Capacity = 101,200 BTUH [29.66 kW]
Power Input (Compressor and Cond. Fans) = 11,650 watts

Use formula in note ① to determine sensible capacity at 78°F [26°C] DB evaporator entering air:

Sensible Capacity = 94,230 BTUH [27.62 kW]

3. CORRECT CAPACITIES OF STEP 2 FOR ACTUAL AIR FLOW.

Select factors from airflow correction table at 3600 CFM [1699 L/s] and apply to data obtained in step 2 to obtain gross capacity:

Total Capacity, 119,500 x .98 = 117,110 BTUH [34.32 kW]
Sensible Capacity, 94,230 x .95 = 89,519 BTUH [26.24 kW]
Power Input 11,650 x .99 = 11,534 Watts

These are Gross Capacities, not corrected for blower motor heat or power.

4. DETERMINE BLOWER SPEED AND WATTS TO MEET SYSTEM DESIGN.

Enter Indoor Blower performance table at 3600 CFM [1699 L/s]. Total ESP (external static pressure) per the spec of .40 in. includes the system duct and grilles. Add from the table "Component Air Resistance," .076 for wet coil, .13 for vertical air flow, for a total selection static pressure of .606 (.6) inches of water, and determine:

RPM = 796
WATTS = 1,650
DRIVE = L (standard 2 H.P. motor)

5. CALCULATE INDOOR BLOWER BTUH HEAT EFFECT FROM MOTOR WATTS, STEP 4.

BTUH = 1,650 x 3.412 = 5,630

6. CALCULATE NET COOLING CAPACITIES, EQUAL TO GROSS CAPACITY, STEP 3, MINUS INDOOR BLOWER MOTOR HEAT.

Net Total Capacity = 117,110 – 5,630 = 111,480 BTUH [32.67 kW]
Net Sensible Capacity = 89,519 – 5,630 = 83,889 BTUH [24.59 kW]

7. CALCULATE UNIT INPUT AND JOB EER.

Total Power Input = 11,534 (step 3) + 1,650 (step 4) = 13,184 Watts

$$\text{EER} = \frac{\text{Net Total BTUH [kW] (step 6)}}{\text{Power Input, Watts (above)}} = \frac{111{,}480}{13{,}184} = 8.46$$

8. SELECT UNIT HEATING CAPACITY.

From Physical Data Table read that gas heating output (input rating x efficiency) is:

Heating Capacity = 182,300 BTUH [53.43 kW]

*NOTE: These operating conditions are typical of a commercial application in a 95°F/79°F [35°C/26°C] design area with indoor design of 76°F [24°C] DB and 50% RH and 10% ventilation air, with the unit roof mounted and centered on the zone it conditions by ducts.

[ ] Designates Metric Conversions

PERFORMANCE DATA—GAS HEAT/ELECTRIC COOLING PACKAGE UNIT (Three Phase)

Model No. RKKB-	ARI Cooling Performance						Heating Performance			
	Cooling Capacity Indoor Air 80°F [26.5°C] DB/67°F [19.5°C] WB Outdoor Air 95°F [35.0°C] DB Design Conditions						ANSI Z21			Rise Range °F [°C]
	Total Capacity BTU/H [kW]	Net Sens. BTU/H [kW]	Net Latent BTU/H [kW]	Three Phase		Indoor CFM [L/s]	High Input BTU/H [kW]	Heating Capacity BTU/H [kW]	S.S. Eff. %	
				EER	IPLV					
A090CL15E	87,000 [25.50]	68,000 [19.80]	19,000 [5.70]	9.20	10.50	3200 [1510]	150,000 [44.0]	121,500 [35.6]	81.0	25-55 [14.0-30.5]
A090CL22E	87,000 [25.50]	68,000 [19.80]	19,000 [5.70]	9.20	10.50	3200 [1510]	225,000 [65.9]	182,250 [53.4]	81.0	40-70 [22.0-39.0]
A090CM15E	87,000 [25.50]	68,000 [19.80]	19,000 [5.70]	9.20	10.50	3200 [1510]	150,000 [44.0]	121,500 [35.6]	81.0	25-55 [14.0-30.5]
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A090DL15E	87,000 [25.50]	68,000 [19.80]	19,000 [5.70]	9.20	10.50	3200 [1510]	150,000 [44.0]	121,500 [35.6]	81.0	25-55 [14.0-30.5]
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A102CL22E	100,000 [29.40]	76,000 [22.20]	24,000 [7.20]	9.40	10.50	3400 [1605]	225,000 [65.9]	182,250 [53.4]	81.0	40-70 [22.0-39.0]
A102CM15E	100,000 [29.40]	76,000 [22.20]	24,000 [7.20]	9.40	10.50	3400 [1605]	150,000 [44.0]	121,500 [35.6]	81.0	25-55 [14.0-30.5]
A102CM22E	100,000 [29.40]	76,000 [22.20]	24,000 [7.20]	9.40	10.50	3400 [1605]	225,000 [65.9]	182,250 [53.4]	81.0	40-70 [22.0-39.0]
A102DL15E	100,000 [29.40]	76,000 [22.20]	24,000 [7.20]	9.40	10.50	3400 [1605]	225,000 [65.9]	182,250 [53.4]	81.0	40-70 [22.0-39.0]
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A120CL15E	120,000 [35.10]	90,000 [26.40]	30,000 [8.70]	9.00	9.30	4000 [1890]	150,000 [44.0]	121,500 [35.6]	81.0	15-45 [8.5-25.0]
A120CL22E	120,000 [35.10]	90,000 [26.40]	30,000 [8.70]	9.00	9.30	4000 [1890]	225,000 [65.9]	182,250 [53.4]	81.0	25-55 [14.0-30.5]
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LEGEND: CFM = Cubic Feet Per Minute
L/s = Liters Per Second
BTUH = Thousands of BTU's Per Hour
kW = Kilowatts
EER = Energy Efficiency Ratio, BTU's Per Watt

[ ] Designates Metric Conversions

PERFORMANCE DATA—GAS HEAT/ELECTRIC COOLING PACKAGE UNIT (Three Phase) (cont.)

Model No. RKKB-	ARI Cooling Performance						Heating Performance			
	Cooling Capacity Indoor Air 80°F [26.5°C] DB/67°F [19.5°C] WB Outdoor Air 95°F [35.0°C] DB Design Conditions						ANSI Z21			Rise Range °F [°C]
	Total Capacity BTU/H [kW]	Net Sens. BTU/H [kW]	Net Latent BTU/H [kW]	Three Phase		Indoor CFM [L/s]	High Input BTU/H [kW]	Heating Capacity BTU/H [kW]	S.S. Eff. %	
				EER	IPLV					
A150CL15E	144,000 [42.00]	108,000 [31.80]	36,000 [10.20]	9.00	9.30	4800 [2265]	150,000 [44.0]	121,500 [35.6]	81.0	15-45 [8.5-25.0]
A150CL25E	144,000 [42.00]	108,000 [31.80]	36,000 [10.20]	9.00	9.30	4800 [2265]	252,000 [73.9]	204,000 [59.8]	81.0	15-45 [8.5-25.0]
A150CM15E	144,000 [42.00]	108,000 [31.80]	36,000 [10.20]	9.00	9.30	4800 [2265]	150,000 [44.0]	121,500 [35.6]	81.0	15-45 [8.5-25.0]
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A150YL25E	144,000 [42.00]	108,000 [31.80]	36,000 [10.20]	9.00	9.30	4800 [2265]	252,000 [73.9]	204,000 [59.8]	81.0	15-45 [8.5-25.0]
A150YM15E	144,000 [42.00]	108,000 [31.80]	36,000 [10.20]	9.00	9.30	4800 [2265]	150,000 [44.0]	121,500 [35.6]	81.0	15-45 [8.5-25.0]
A150YM25E	144,000 [42.00]	108,000 [31.80]	36,000 [10.20]	9.00	9.30	4800 [2265]	252,000 [73.9]	204,000 [59.8]	81.0	25-55 [14.0-30.5]

LEGEND: CFM = Cubic Feet Per Minute
L/s = Liters Per Second
BTUH = Thousands of BTU's Per Hour
kW = Kilowatts
EER = Energy Efficiency Ratio, BTU's Per Watt

[ ] Designates Metric Conversions

ELECTRICAL & PHYSICAL DATA

Model No. RKKB-	ELECTRICAL								PHYSICAL							
	Phase Frequency (Hz) Voltage (Volts)	Compressor		Full Load Amperes (FLA)		Minimum Circuit Ampacity Amperes	Fuse or HACR Circuit Breaker		Drive Type	Filter Recommended No. and Size [mm x mm x mm]	Outdoor Coil			R22 Oz. [g]	Weight	
		Rated Load Amperes (RLA)	Locked Rotor Amperes (LRA)	Fan Motor	Blower Motor		Minimum Amperes	Maximum Amperes			Area Sq. Ft. [Sq. m]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Ship Lbs. [kg]
A090CL15E	3-60-208-230	14.0/14.0	88	3.0	8.0	43/43	50/50	50/50	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1015 [460.4]	1078 [489.0]
A090CL22E	3-60-208-230	14.0/14.0	88	3.0	8.0	43/43	50/50	50/50	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1035 [469.5]	1098 [498.0]
A090CM15E	3-60-208-230	14.0/14.0	88	3.0	13.0	48/48	50/50	60/60	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1023 [464.0]	1086 [492.6]
A090CM22E	3-60-208-230	14.0/14.0	88	3.0	13.0	48/48	50/50	60/60	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1043 [473.1]	1106 [501.7]
A090DL15E	3-60-460	10.0	44	2.0	4.0	29	35/35	35/35	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1015 [460.4]	1078 [489.0]
A090DL22E	3-60-460	10.0	44	2.0	4.0	29	35/35	35/35	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1035 [469.5]	1098 [498.0]
A090DM15E	3-60-460	10.0	44	2.0	7.0	32	35/35	40/40	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1023 [464.0]	1086 [492.6]
A090DM22E	3-60-460	10.0	44	2.0	7.0	32	35/35	40/40	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1043 [473.1]	1106 [501.7]
A090YL15E	3-60-575	6.0	34	1.0	4.0	19	20/20	20/20	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1015 [460.4]	1078 [489.0]
A090YL22E	3-60-575	6.0	34	1.0	4.0	19	20/20	20/20	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1035 [469.5]	1098 [498.0]
A090YM15E	3-60-575	6.0	34	1.0	7.0	22	20/20	25/25	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1023 [464.0]	1086 [492.6]
A090YM22E	3-60-575	6.0	34	1.0	7.0	22	20/20	25/25	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	67 [1899]	1043 [473.1]	1106 [501.7]
A102CL22E	3-60-208-230	15.0/15.0	91	3.0	8.0	48/48	60/60	60/60	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1066 [483.5]	1129 [512.1]
A102CM15E	3-60-208-230	15.0/15.0	91	3.0	13.0	53/53	60/60	60/60	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1054 [478.1]	1117 [506.7]
A102CM22E	3-60-208-230	15.0/15.0	91	3.0	13.0	53/53	60/60	60/60	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1074 [487.2]	1137 [515.7]
A102DL15E	3-60-460	7.0	50	2.0	4.0	24	30/30	30/30	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1046 [474.5]	1109 [503.0]
A102DL22E	3-60-460	7.0	50	2.0	4.0	24	30/30	30/30	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1066 [483.5]	1129 [512.1]
A102DM15E	3-60-460	7.0	50	2.0	13.0	27	30/30	30/30	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1054 [478.1]	1117 [506.7]
A102DM22E	3-60-460	7.0	50	2.0	13.0	27	30/30	30/30	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1074 [487.2]	1137 [515.7]

[ ] Designates Metric Conversions

ELECTRICAL & PHYSICAL DATA (cont.)

Model No. RKKB-	ELECTRICAL								PHYSICAL							
	Phase Frequency (Hz) Voltage (Volts)	Compressor		Full Load Amperes (FLA)		Minimum Circuit Ampacity Amperes	Fuse or HACR Circuit Breaker		Drive Type	Filter Recommended No. and Size [mm x mm x mm]	Outdoor Coil			R22 Oz. [g]	Weight	
		Rated Load Amperes (RLA)	Locked Rotor Amperes (LRA)	Fan Motor	Blower Motor		Minimum Amperes	Maximum Amperes			Area Sq. Ft. [Sq. m]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Ship Lbs. [kg]
A102YL15E	3-60-575	6.0	37	1.0	4.0	20	25/25	25/25	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1046 [474.5]	1109 [503.0]
A102YL22E	3-60-575	6.0	37	1.0	4.0	20	25/25	25/25	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1066 [483.5]	1129 [512.1]
A102YM15E	3-60-575	6.0	37	1.0	4.0	23	25/25	25/25	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1058 [479.9]	1117 [506.7]
A102YM22E	3-60-575	6.0	37	2.0	7.0	23	25/25	25/25	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	11.3 [1.050]	2.00	4000 [1888]	68 [1928]	1074 [487.2]	1137 [515.7]
A120CL15E	3-60-208-230	20.0/20.0	128	6.0	8.0	59/59	65/65	70/70	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1051 [476.7]	1114 [505.3]
A120CL22E	3-60-208-230	20.0/20.0	128	6.0	8.0	59/59	65/65	70/70	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1051 [476.7]	1114 [505.3]
A120CM15E	3-60-208-230	20.0/20.0	128	6.0	13.0	64/64	70/70	80/80	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1059 [480.4]	1122 [508.9]
A120CM22E	3-60-208-230	20.0/20.0	128	6.0	13.0	64/64	70/70	80/80	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1059 [480.4]	1122 [508.9]
A120DL15E	3-60-460	11.0	63	4.0	4.0	33/33	35/35	40/40	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1051 [476.7]	1114 [505.3]
A120DL22E	3-60-460	11.0	63	4.0	4.0	33/33	35/35	40/40	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1051 [476.7]	1114 [505.3]
A120DM15E	3-60-460	11.0	63	4.0	7.0	36	40/40	50/50	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1059 [480.4]	1122 [508.9]
A120DM22E	3-60-460	11.0	63	4.0	7.0	36	60/60	45/45	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1059 [480.4]	1122 [508.9]
A120YL15E	3-60-575	9.0	49	2.0	4.0	27	30/30	35/35	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1051 [476.7]	1114 [505.3]
A120YL22E	3-60-575	9.0	49	2.0	4.0	27	30/30	35/35	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1051 [476.7]	1114 [505.3]
A120YM15E	3-60-575	9.0	49	2.0	7.0	30	30/30	35/35	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1059 [480.4]	1122 [508.9]
A120YM22E	3-60-575	9.0	49	2.0	7.0	30	30/30	35/35	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1059 [480.4]	1122 [508.9]
A150CL15E	3-60-208-230	24.0/24.0	156	3.0	13.0	73/73	90/90	90/90	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1125 [510.3]	1162 [527.1]
A150CL25E	3-60-208-230	24.0/24.0	156	3.0	13.0	73/73	90/90	90/90	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1125 [510.3]	1162 [527.1]
A150CM15E	3-60-208-230	20.0/20.0	128	6.0	15.0	64/64	70/70	80/80	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	80 [2268]	1059 [480.4]	1122 [508.9]
A150CM25E	3-60-208-230	24.0/24.0	156	3.0	15.0	75/75	90/90	90/90	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1151 [522.1]	1188 [538.9]

[ ] Designates Metric Conversions

ELECTRICAL & PHYSICAL DATA (cont.)

Model No. RKKB-	ELECTRICAL								PHYSICAL								
	Phase Frequency (Hz) Voltage (Volts)	Compressor		Full Load Amperes (FLA)		Minimum Circuit Ampacity Amperes	Fuse or HACR Circuit Breaker		Drive Type	Filter Recommended No. and Size [mm x mm x mm]	Outdoor Coil			R22 Oz. [g]	Weight	
		Rated Load Amperes (RLA)	Locked Rotor Amperes (LRA)	Fan Motor	Blower Motor		Minimum Amperes	Maximum Amperes			Area Sq. Ft. [Sq. m]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Ship Lbs. [kg]
A150DL15E	3-60-460	12.0	70	2.0	7.0	38	50	50	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1125 [510.3]	1162 [527.1]
A150DL25E	3-60-460	12.0	70	2.0	7.0	38	50	50	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1125 [510.3]	1162 [527.1]
A150DM15E	3-60-460	12.0	70	2.0	10.0	41	50	50	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1151 [522.1]	1188 [538.9]
A150DM25E	3-60-460	12.0	70	2.0	10.0	41	50	50	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1151 [522.1]	1188 [538.9]
A150YL15E	3-60-575	10.0	54	1.0	8.0	33	40	40	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1125 [510.3]	1162 [527.1]
A150YL25E	3-60-575	10.0	54	1.0	8.0	33	40	40	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1125 [510.3]	1162 [527.1]
A150YM15E	3-60-575	10.0	54	1.0	8.0	30	40	40	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1151 [522.1]	1188 [538.9]
A150YM25E	3-60-575	10.0	54	1.0	8.0	30	40	40	Belt	(6) 2 x 18 x 18 [51 x 457 x 457]	13.5 [1.254]	2.00	8000 [3776]	179 [5075]	1151 [522.1]	1188 [538.9]

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE—7.5 TON [26.4 kW]

Air Flow CFM [L/s]	Capacity 7.5 Ton [26.4 kW]																																	
	External Static Pressure—Inches of Water [kPa]																																	
	0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
2400 [1133]	—	—	—	—	—	—	—	—	711	890	740	952	770	1014	799	1076	828	1138	857	1200	887	1261	929	1538	958	1623	987	1709	1017	1794	1046	1879	1075	1965	1105	2050
2500 [1180]	—	—	—	—	—	—	691	888	720	950	749	1012	778	1074	808	1136	837	1198	866	1260	895	1322	936	1602	965	1687	995	1773	1024	1858	1053	1944	1083	2029	1112	2114
2600 [1227]	—	—	—	—	—	—	699	948	729	1010	758	1072	787	1134	816	1196	846	1258	875	1320	914	1581	943	1666	972	1751	1002	1837	1031	1922	1061	2008	1090	2093	1119	2178
2700 [1274]	—	—	—	—	—	—	708	1009	737	1070	766	1132	796	1194	825	1256	854	1318	883	1380	921	1645	950	1730	980	1816	1009	1901	1038	1986	1068	2072	1097	2157	1127	2243
2800 [1321]	—	—	—	—	—	—	717	1069	746	1131	775	1192	804	1254	834	1316	863	1378	892	1440	928	1709	958	1794	987	1880	1016	1965	1046	2050	1075	2136	1104	2221	1134	2307
2900 [1369]	—	—	—	—	—	—	725	1129	755	1191	784	1253	813	1315	842	1376	872	1438	906	1688	936	1773	965	1858	994	1944	1024	2029	1053	2115	1082	2200	1112	2285	1141	2371
3000 [1416]	—	—	—	—	705	1127	734	1189	763	1251	792	1313	822	1375	851	1437	880	1498	913	1752	943	1837	972	1923	1002	2008	1031	2093	1060	2179	1090	2264	1119	2350	1148	2435
3100 [1463]	—	—	—	—	713	1187	743	1249	772	1311	801	1373	830	1435	860	1497	889	1559	921	1816	950	1901	979	1987	1009	2072	1038	2157	1068	2243	1097	2328	1126	2414	1156	2499
3200 [1510]	—	—	693	1185	722	1247	751	1309	781	1371	810	1433	839	1495	868	1557	898	1619	928	1880	957	1965	987	2051	1016	2136	1045	2222	1075	2307	1104	2392	1134	2478	1163	2563
3300 [1557]	—	—	701	1246	731	1307	760	1369	789	1431	818	1493	848	1555	877	1617	906	1859	935	1944	965	2029	994	2115	1023	2200	1053	2286	1082	2371	1111	2456	1141	2542	1170	2627
3400 [1605]	681	1244	710	1306	739	1368	769	1430	798	1491	827	1553	856	1615	886	1677	913	1923	943	2008	972	2094	1001	2179	1031	2264	1060	2350	1089	2435	1119	2521	1148	2606	1178	2691
3500 [1652]	690	1304	719	1366	748	1428	777	1490	807	1552	836	1613	865	1675	894	1737	920	1987	950	2072	979	2158	1009	2243	1038	2328	1067	2414	1097	2499	1126	2585	1155	2670	1185	2756
3600 [1699]	698	1364	728	1426	757	1488	786	1550	815	1612	844	1674	874	1735	903	1797	928	2051	957	2136	986	2222	1016	2307	1045	2393	1075	2478	1104	2563	1133	2649	1163	2734	1192	2820

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package	L						M					
Motor H.P. [W]	2.0 [1491.4]						3.0 [2237.1]					
Blower Sheave	BK90						BK65					
Motor Sheave	1VP-44						1VP-44					
Turns Open	1	2	**3**	4	5	6	1	2	3	4	5	**6**
RPM	869	838	**806**	774	742	710	1157	1106	1056	1005	954	**904**

NOTES: 1. Factory sheave settings are shown in bold print.
2. Re-adjustment of sheave required to achieve rated airflow at ARI minimum E.S.P.
3. Do not operate above blower RPM shown as motor overloading will occur.
4. Do not set motor sheave below one turn open.

AIRFLOW CORRECTION FACTORS 7.5 TON [26.4 kW]

ACTUAL—CFM [L/s]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1605]	3600 [1699]	3800 [1793]
TOTAL MBH	0.97	0.98	0.99	1.00	1.01	1.02	1.03
SENSIBLE MBH	0.91	0.94	0.97	1.00	1.02	1.05	1.08
POWER kW	0.99	0.99	0.99	1.00	1.00	1.01	1.02

NOTES: 1. Multiply correction factor times gross performance data.
2. Resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

COMPONENT AIR RESISTANCE, IWC 7.5, 8.5, & 10 TONS [26.4, 29.9, & 35.2 kW]

Component	Standard Indoor Airflow—CFM [L/s]												
	2400 [1133]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1605]	3600 [1699]	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2077]	4600 [2171]	4800 [2265]
	Resistance—Inches Water [kPa]												
Wet Coil	.047	.051	.055	.060	.065	.071	.076	.082	.087	.093	.099	.105	.110
Economizer R.A. Damper Open	.05	.06	.07	.08	.09	.10	.11	.12	.13	.14	.15	.16	.17
Concentric Grille & Transition	.13	.15	.17	.19	.21	.24	.28	.33	.38	.41	.44	.51	.58

NOTE: Add component resistance to duct resistance to determine total external static pressure.

AIRFLOW PERFORMANCE—8.5 TON [29.9 kW]

Air Flow CFM [L/s]	Capacity 8.5 Ton [29.9 kW]																																					
	External Static Pressure—Inches of Water [kPa]																																						
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
2700 [1274]	—	—	—	—	—	—	—	—	—	—	708	1009	737	1070	766	1132	796	1194	825	1256	854	1318	883	1380	921	1645	950	1730	980	1816	1009	1901	1038	1966	1068	2072	1097	2157	1127	2243
2800 [1321]	—	—	—	—	—	—	—	—	—	—	717	1069	748	1131	775	1192	804	1254	834	1316	863	1378	892	1440	928	1709	958	1794	987	1880	1016	1965	1046	2050	1075	2136	1104	2221	1134	2307
2900 [1369]	—	—	—	—	—	—	—	—	—	—	725	1129	755	1191	784	1253	813	1315	842	1376	872	1438	906	1688	936	1773	965	1858	994	1944	1024	2029	1053	2115	1082	2200	1112	2285	1141	2371
3000 [1416]	—	—	—	—	—	—	—	—	705	1127	734	1189	763	1251	792	1313	822	1375	851	1437	880	1498	913	1752	943	1837	972	1923	1002	2008	1031	2093	1060	2179	1090	2264	1119	2350	1148	2435
3100 [1463]	—	—	—	—	—	—	—	—	713	1187	743	1249	772	1311	801	1373	830	1435	860	1497	889	1559	921	1816	950	1961	979	987	1009	2072	1038	2157	1068	2243	1097	2328	1126	2414	—	—
3200 [1510]	—	—	—	—	—	—	693	1185	722	1247	761	1309	781	1371	810	1433	839	1495	868	1557	898	1619	928	1880	937	1965	987	2051	1018	2136	1045	2222	1075	2307	1104	2392	1134	2478	—	—
3300 [1557]	—	—	—	—	—	—	701	1246	731	1307	760	1369	789	1431	818	1493	848	1555	877	1617	906	1856	935	1944	968	2029	994	2115	1023	2200	1053	2286	1082	2371	1111	2456	1141	2542	—	—
3400 [1605]	—	—	—	—	681	1244	710	1306	739	1368	769	1430	798	1491	827	1553	856	1615	886	1677	913	1923	943	2008	972	2094	1001	2179	1031	2264	1060	2350	1089	2435	1119	2521	1148	2606	—	—
3500 [1652]	—	—	673	1270	690	1304	719	1366	748	1428	777	1490	807	1552	836	1613	865	1675	894	1737	920	1987	950	2072	979	2158	1009	2243	1038	2328	1067	2414	1097	2499	1126	2585	—	—	—	—
3600 [1699]	—	—	686	1352	698	1364	728	1426	757	1488	786	1550	815	1612	844	1674	874	1735	903	1797	928	2051	957	2136	986	2222	1016	2307	1045	2393	1071	2478	1104	2563	1133	2649	—	—	—	—
3700 [1746]	672	1361	700	1435	727	1510	755	1584	782	1659	810	1733	837	1808	865	1882	933	1896	953	1956	973	2070	993	2183	1002	2297	1030	2410	1054	2524	1075	2637	1111	2751	1140	2864	—	—	—	—
3800 [1793]	686	1443	713	1518	741	1592	768	1667	796	1741	823	1816	851	1890	878	1965	940	2003	960	2075	981	2189	1001	2302	1016	2416	1043	2529	1062	2643	1082	2756	1119	2870	1147	2983	—	—	—	—
3900 [1841]	699	1526	727	1601	754	1675	782	1750	809	1824	837	1899	864	1973	927	2015	948	2080	968	2194	988	2307	1008	2421	1029	2534	1057	2648	1069	2761	1090	2875	1127	2988	—	—	—	—	—	—
4000 [1888]	713	1609	740	1683	768	1758	795	1832	823	1907	850	1981	878	2056	935	2085	955	2199	975	2312	996	2426	1016	2539	1043	2653	1070	2767	1077	2880	1097	2994	1135	3107	—	—	—	—	—	—
4100 [1935]	726	1692	754	1766	781	1841	809	1915	836	1990	864	2064	922	2091	942	2204	963	2318	983	2431	1003	2545	1024	2658	1056	2772	1084	2885	1084	2999	1105	3112	1144	3226	—	—	—	—	—	—

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package	L						M					
Motor H.P. [W]	2.0 [1491.4]						3.0 [2237.1]					
Blower Sheave	BK90						BK65					
Motor Sheave	1VP-44						1VP-44					
Turns Open	1	**2**	3	4	5	6	1	2	3	4	5	**6**
RPM	860	**824**	791	757	723	690	1148	1098	1049	999	949	**899**

NOTES: 1. Factory sheave settings are shown in bold print.
2. Re-adjustment of sheave required to achieve rated airflow at ARI minimum E.S.P.
3. Do not operate above blower RPM shown as motor overloading will occur.
4. Do not set motor sheave below one turn open.

AIRFLOW CORRECTION FACTORS 8.5 TON [29.9 kW]

ACTUAL—CFM [L/s]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1605]	3600 [1699]	3800 [1793]	4000 [1888]	4200 [1982]
TOTAL MBH	0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04
SENSIBLE MBH	0.88	0.91	0.94	0.97	1.00	1.03	1.05	1.07	1.09
POWER kW	0.99	0.99	0.99	1.00	1.00	1.01	1.01	1.02	1.03

NOTES: 1. Multiply correction factor times gross performance data.
2. Resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

COMPONENT AIR RESISTANCE, IWC 7.5, 8.5, & 10 TONS [26.4, 29.9, & 35.2 kW]

Component	Standard Indoor Airflow—CFM [L/s]												
	2400 [1133]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1605]	3600 [1699]	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2077]	4600 [2171]	4800 [2265]
	Resistance—Inches Water [kPa]												
Wet Coil	.047	.051	.055	.060	.065	.071	.076	.082	.087	.093	.099	.105	.110
Economizer R.A. Damper Open	.05	.06	.07	.08	.09	.10	.11	.12	.13	.14	.15	.16	.17
Concentric Grille & Transition	.13	.15	.17	.19	.21	.24	.28	.33	.38	.41	.44	.51	.58

NOTE: Add component resistance to duct resistance to determine total external static pressure.

AIRFLOW PERFORMANCE—10 TON [35.2 kW]

Air Flow CFM [L/s]	Capacity 10 Ton [35.2 kW]																																							
	External Static Pressure—Inches of Water [kPa]																																							
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]		2.1 [.52]		2.2 [.55]		2.3 [.57]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
3200 [1510]	—	—	—	—	—	—	657	1170	715	1245	742	1319	770	1394	797	1468	825	1543	852	1617	880	1692	956	1698	976	1703	996	1817	1017	1930	1037	2044	1057	2157	1077	2271	1098	2384	1118	2498	1138	2611	1159	2725	1179	2838
3300 [1557]	—	—	—	—	673	1179	701	1253	728	1328	756	1402	783	1477	811	1551	838	1626	866	1700	943	1705	963	1708	948	1822	976	1935	1024	2049	1044	2162	1065	2276	1085	2390	1105	2503	1125	2617	1146	2730	1166	2844	1186	2957
3400 [1605]	—	—	—	—	687	1261	714	1336	742	1410	769	1485	797	1559	824	1634	852	1708	879	1763	950	1811	971	1827	962	1941	989	2054	1032	2168	1052	2281	1072	2395	1092	2508	1113	2622	1133	2735	1153	2849	1174	2962	1194	3076
3500 [1652]	—	—	673	1270	700	1344	728	1419	755	1493	783	1588	810	1642	838	1717	865	1791	938	1813	958	1832	978	1946	975	2059	1003	2173	1039	2286	1059	2400	1080	2513	1100	2627	1120	2740	1141	2854	1161	2968	1181	3081	—	—
3600 [1699]	—	—	686	1352	714	1427	741	1501	769	1576	796	1650	824	1725	851	1799	879	1874	945	1892	966	1951	986	2065	989	2178	1016	2292	1047	2405	1067	2519	1087	2632	1108	2746	1128	2859	1148	2973	1168	3086	1189	3200	—	—
3700 [1746]	672	1361	700	1435	727	1510	755	1584	782	1659	810	1733	837	1808	865	1882	933	1896	953	1956	973	2070	993	2183	1002	2297	1030	2410	1054	2524	1075	2637	1095	2751	1115	2864	1135	2978	1156	3091	1176	3205	1196	3318	—	—
3800 [1793]	686	1443	713	1518	741	1592	768	1667	796	1741	823	1818	861	1890	878	1965	940	2003	960	2075	981	2189	1001	2302	1016	2416	1043	2529	1062	2643	1082	2756	1102	2870	1123	2983	1143	3097	1163	3210	1183	3324	—	—	—	—
3900 [1841]	699	1526	727	1601	754	1675	782	1750	809	1824	837	1899	864	1973	927	2015	948	2080	968	2194	988	2307	1008	2421	1029	2534	1057	2648	1069	2761	1090	2875	1110	2988	1130	3102	1150	3215	1171	3329	1191	3442	—	—	—	—
4000 [1888]	713	1609	740	1683	768	1758	795	1832	823	1907	850	1961	878	2056	935	2085	955	2199	975	2312	996	2426	1016	2539	1043	2653	1070	2767	1077	2880	1097	2994	1117	3107	1138	3221	1158	3334	1178	3448	1199	3561	—	—	—	—
4100 [1935]	726	1692	754	1766	781	1841	809	1915	836	1990	864	2064	922	2091	942	2204	963	2318	983	2431	1003	2545	1024	2658	1056	2772	1084	2885	1084	2999	1105	3112	1125	3226	1145	3339	1166	3453	1186	3566	—	—	—	—	—	—
4200 [1982]	740	1774	767	1849	795	1923	822	1998	850	2072	877	2147	930	2209	950	2323	970	2438	990	2550	1011	2663	1031	2777	1070	2890	1097	3004	1092	3117	1112	3231	1133	3345	1153	3458	1173	3572	1193	3685	—	—	—	—	—	—
4300 [2029]	753	1857	781	1932	808	2006	836	2081	853	2155	917	2215	937	2328	957	2442	978	2555	998	2669	1018	2782	1039	2896	1083	3009	1111	3123	1099	3236	1120	3350	1140	3453	1160	3577	1181	3690	—	—	—	—	—	—	—	—
4400 [2077]	767	1940	794	2014	822	2089	849	2163	877	2238	924	2333	945	2447	965	2560	985	2674	1006	2787	1026	2901	1046	3014	1097	3128	1124	3241	1107	3355	1127	3468	1148	3582	1168	3695	1188	3809	—	—	—	—	—	—	—	—
4500 [2124]	780	2023	808	2097	835	2172	863	2248	912	2338	932	2452	952	2585	973	2679	993	2793	1013	2906	1033	3020	1054	3133	1110	3247	1138	3360	1115	3474	1135	3587	1155	3701	1175	3814	1196	3928	—	—	—	—	—	—	—	—
4600 [2171]	794	2105	821	2180	840	2254	876	2329	919	2457	940	2571	960	2684	980	2798	1000	2911	1021	3025	1041	3138	1061	3252	1124	3365	1151	3479	1122	3592	1142	3706	1163	3819	1183	3933	—	—	—	—	—	—	—	—	—	—
4700 [2218]	807	2188	835	2263	862	2337	906	2462	927	2576	947	2689	967	2803	988	2916	1008	3030	1028	3143	1048	3257	1069	3371	1137	3484	1165	3598	1130	3711	1150	3825	1170	3938	1190	4052	—	—	—	—	—	—	—	—	—	—
4800 [2265]	821	2271	848	2345	876	2420	914	2581	934	2695	955	2808	975	2922	995	3035	1015	3149	1036	3262	1056	3376	1076	3489	1151	3603	1178	3716	1137	3830	1157	3943	1178	4057	1198	4170	—	—	—	—	—	—	—	—	—	—

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package	L						M					
Motor H.P. [W]	2.0 [1491.4]						3.0 [2237.1]					
Blower Sheave	BK90						BK65					
Motor Sheave	1VP-44						1VP-44					
Turns Open	**1**	2	3	4	5	6	1	2	3	4	5	**6**
RPM	**845**	810	775	739	704	669	1138	1089	1041	992	943	**894**

NOTES: 1. Factory sheave settings are shown in bold print.
2. Re-adjustment of sheave required to achieve rated airflow at ARI minimum E.S.P.
3. Do not operate above blower RPM shown as motor overloading will occur.
4. Do not set motor sheave below one turn open.

AIRFLOW CORRECTION FACTORS 10 TON [35.2 kW]

ACTUAL—CFM [L/s]	3200 [1510]	3400 [1605]	3600 [1699]	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2077]	4600 [2171]	4800 [2265]
TOTAL MBH	0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04
SENSIBLE MBH	0.91	0.93	0.95	0.97	1.00	1.02	1.05	1.07	1.09
POWER kW	0.98	0.98	0.99	0.99	1.00	1.00	1.01	1.01	1.01

NOTES: 1. Multiply correction factor times gross performance data.
2. Resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

COMPONENT AIR RESISTANCE, IWC 7.5, 8.5, & 10 TONS [26.4, 29.9, & 35.2 kW]

Component	Standard Indoor Airflow—CFM [L/s]												
	2400 [1133]	2600 [1227]	2800 [1321]	3000 [1416]	3200 [1510]	3400 [1605]	3600 [1699]	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2077]	4600 [2171]	4800 [2265]
	Resistance—Inches Water [kPa]												
Wet Coil	.047	.051	.055	.060	.065	.071	.076	.082	.087	.093	.099	.105	.110
Economizer R.A. Damper Open	.05	.06	.07	.08	.09	.10	.11	.12	.13	.14	.15	.16	.17
Concentric Grille & Transition	.13	.15	.17	.19	.21	.24	.28	.33	.38	.41	.44	.51	.58

NOTE: Add component resistance to duct resistance to determine total external static pressure.

AIRFLOW PERFORMANCE—12.5 TON [44 kW]

Air Flow CFM [L/s]	Capacity 12.5 Ton [44 kW]																																	
	External Static Pressure—Inches of Water [kPa]																																	
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
3800 [1793]	—	—	—	—	—	—	—	—	—	—	—	—	902	1649	922	1762	941	1875	961	1989	980	2102	1000	2215	1019	2328	1039	2442	1058	2555	1078	2668	1097	2781	1117	2895	1136	3008	1156	3121
4000 [1888]	—	—	—	—	—	—	—	—	—	—	907	1761	926	1874	946	1987	965	2101	985	2214	1004	2327	1024	2440	1043	2554	1063	2667	1082	2780	1102	2894	1121	3007	1140	3120	1160	3233	1179	3347
4100 [1935]	—	—	—	—	—	—	—	—	900	1769	919	1882	939	1996	958	2109	978	2222	997	2335	1016	2449	1036	2562	1055	2675	1075	2788	1094	2902	1114	3015	1133	3128	1153	3242	1172	3355	1192	3468
4200 [1982]	—	—	—	—	—	—	—	—	912	1897	932	2010	951	2123	971	2236	990	2350	1010	2463	1029	2576	1049	2689	1068	2803	1088	2916	1107	3029	1127	3143	1146	3256	1166	3369	1185	3482	1205	3596
4300 [2029]	—	—	—	—	—	—	906	1917	925	2030	945	2144	964	2257	984	2370	1003	2483	1023	2597	1042	2710	1062	2823	1081	2937	1101	3050	1120	3163	1140	3276	1159	3390	1179	3503	1198	3616	1218	3729
4400 [2077]	—	—	—	—	900	1944	919	2057	939	2170	958	2284	978	2397	997	2510	1017	2624	1036	2737	1056	2850	1075	2963	1095	3077	1114	3190	1133	3303	1153	3417	1172	3530	1192	3643	1211	3756	1231	3870
4500 [2124]	—	—	—	—	913	2091	933	2204	952	2317	972	2430	991	2544	1011	2657	1030	2770	1050	2884	1069	2997	1089	3110	1108	3223	1128	3337	1147	3450	1167	3563	1188	3678	1206	3790	1225	3903	1245	4016
4600 [2171]	—	—	908	2131	927	2244	947	2357	966	2470	986	2584	1005	2697	1025	2810	1044	2924	1064	3037	1083	3150	1103	3263	1122	3377	1142	3490	1161	3603	1181	3717	1200	3830	1220	3943	1239	4056	1258	4170
4700 [2218]	903	2178	922	2291	941	2404	961	2517	980	2631	1000	2744	1019	2857	1039	2970	1058	3084	1078	3197	1097	3310	1117	3424	1136	3537	1156	3650	1175	3763	1195	3877	1214	3990	1234	4103	1253	4216	1273	4330
4800 [2265]	917	2345	937	2458	956	2571	976	2684	995	2798	1014	2911	1034	3024	1053	3138	1073	3251	1092	3364	1112	3477	1131	3591	1151	3704	1170	3817	1190	3930	1209	4044	1229	4157	1248	4270	1266	4384	1287	4497
4900 [2313]	932	2519	951	2632	971	2745	990	2859	1010	2972	1029	3085	1049	3199	1068	3312	1088	3425	1107	3538	1127	3652	1146	3765	1166	3878	1185	3991	1205	4105	1224	4218	1244	4331	1263	4445	1283	4558	1302	4671
5000 [2360]	947	2700	967	2814	986	2927	1006	3040	1025	3153	1045	3267	1064	3380	1083	3493	1103	3607	1122	3720	1142	3833	1161	3946	1181	4060	1200	4173	1220	4286	1239	4399	1259	4513	1278	4626	1298	4739	1317	4853
5100 [2407]	963	2889	982	3002	1002	3116	1021	3229	1041	3342	1060	3456	1079	3569	1099	3682	1118	3795	1138	3909	1157	4022	1177	4135	1196	4249	1216	4362	1235	4475	1255	4588	1274	4702	1294	4815	1313	4928	—	—
5200 [2454]	978	3086	998	3199	1017	3312	1037	3425	1056	3539	1076	3652	1095	3765	1115	3879	1134	3992	1154	4105	1173	4218	1193	4332	1212	4445	1232	4558	1251	4672	1271	4785	1290	4898	1310	5011	—	—	—	—
5300 [2501]	994	3290	1014	3403	1033	3516	1053	3630	1072	3743	1092	3856	1111	3969	1131	4083	1150	4196	1170	4309	1189	4423	1209	4536	1228	4649	1248	4762	1267	4876	1287	4989	—	—	—	—	—	—	—	—
5400 [2549]	1011	3502	1030	3615	1050	3728	1069	3842	1089	3955	1108	4068	1128	4181	1147	4295	1167	4408	1186	4521	1206	4635	1225	4748	1245	4861	1264	4974	—	—	—	—	—	—	—	—	—	—	—	—
5500 [2596]	1028	3722	1047	3835	1066	3948	1086	4062	1105	4175	1125	4288	1144	4401	1164	4515	1183	4628	1203	4741	1222	4855	1242	4968	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5600 [2643]	1045	3950	1064	4063	1083	4176	1103	4290	1122	4403	1142	4516	1161	4630	1181	4743	1200	4856	1220	4969	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5700 [2690]	1062	4186	1081	4300	1101	4413	1120	4526	1140	4639	1159	4753	1179	4866	1198	4979	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5800 [2737]	1079	4431	1099	4544	1118	4658	1138	4771	1157	4884	1177	4998	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTE: L-Drive left of bold line, M-Drive right of bold line.

Drive Package	L						M					
Motor H.P. [W]	3.0 [2237.1]						5.0 [3728.5]					
Blower Sheave	BK65						BK65					
Motor Sheave	1VP-44						1VM-50					
Turns Open	1	2	**3**	4	5	6	1	2	**3**	4	5	6
RPM	1135	1087	**1038**	990	942	894	1283	1231	**1178**	1126	1074	1022

NOTES: 1. Factory sheave settings are shown in bold print.
2. Re-adjustment of sheave required to achieve rated airflow at ARI minimum E.S.P.
3. Do not operate above blower RPM shown as motor overloading will occur.
4. Do not set motor sheave below one turn open.

AIRFLOW CORRECTION FACTORS 12.5 TON [44 kW]

ACTUAL—CFM [L/s]	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2077]	4600 [2171]	4800 [2265]	5000 [2360]	5200 [2454]	5400 [2549]	5600 [2643]	5800 [2737]
TOTAL MBH	0.95	0.96	0.97	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05
SENSIBLE MBH	0.85	0.88	0.91	0.94	0.97	1.00	1.03	1.05	1.07	1.09	1.11
POWER kW	0.98	0.98	0.99	0.99	0.99	1.00	1.00	1.01	1.02	1.02	1.03

NOTES: 1. Multiply correction factor times gross performance data.
2. Resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

COMPONENT AIR RESISTANCE, IWC 12.5 TON [44 kW]

Component	Standard Indoor Airflow—CFM [L/s]										
	3800 [1793]	4000 [1888]	4200 [1982]	4400 [2077]	4600 [2171]	4800 [2265]	5000 [2360]	5200 [2454]	5400 [2549]	5600 [2643]	5800 [2737]
	Resistance—Inches Water [kPa]										
Wet Coil	.082	.087	.093	.099	.105	.110	.115	.120	.125	.131	.136
Economizer R.A. Damper Open	.12	.13	.14	.15	.16	.17	.18	.19	.20	.21	.22
Concentric Grille & Transition	.33	.38	.43	.48	.53	.58	.63	.68	.73	.78	.83

NOTE: Add component resistance to duct resistance to determine total external static pressure.

GROSS SYSTEMS PERFORMANCE DATA—RKKB-A090

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			3840 [1812]	3200 [1510]	2560 [1208]	3840 [1812]	3200 [1510]	2560 [1208]	3840 [1812]	3200 [1510]	2560 [1208]
DR ①			.15	.11	.07	.15	.11	.07	.15	.11	.07
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	103.7 [30.39]	100.4 [29.42]	97.1 [28.46]	102.9 [30.16]	99.6 [29.19]	96.3 [28.22]	99.3 [29.10]	96.0 [28.13]	92.7 [27.17]
		Sens BTUH [kW]	66.2 [19.40]	59.5 [17.44]	52.9 [15.50]	81.6 [23.91]	74.9 [21.95]	68.2 [19.99]	92.2 [27.02]	85.5 [25.06]	78.8 [23.09]
		Power	7.0	6.9	6.8	6.9	6.8	6.7	6.9	6.7	6.6
	80 [26.7]	Total BTUH [kW]	99.1 [29.04]	95.8 [28.08]	92.5 [27.11]	98.3 [28.81]	95.0 [27.84]	91.7 [26.87]	94.7 [27.75]	91.4 [26.79]	88.1 [25.82]
		Sens BTUH [kW]	64.5 [18.90]	57.8 [16.94]	51.1 [14.98]	79.8 [23.39]	73.1 [21.42]	66.4 [19.46]	90.4 [26.49]	83.8 [24.56]	77.1 [22.60]
		Power	7.5	7.3	7.2	7.4	7.2	7.1	7.3	7.1	7.0
	85 [29.4]	Total BTUH [kW]	96.6 [28.31]	93.3 [27.34]	90.0 [26.38]	95.8 [28.08]	92.5 [27.11]	89.2 [26.14]	92.2 [27.02]	88.9 [26.05]	85.6 [25.09]
		Sens BTUH [kW]	63.5 [18.61]	56.8 [16.65]	50.2 [14.71]	78.9 [23.12]	72.2 [21.16]	65.5 [19.20]	89.5 [26.23]	82.8 [24.27]	76.2 [22.33]
		Power	7.9	7.7	7.6	7.8	7.6	7.5	7.7	7.5	7.4
	90 [32.2]	Total BTUH [kW]	95.4 [27.96]	92.1 [26.99]	88.8 [26.02]	94.5 [27.70]	91.3 [26.76]	88.0 [25.79]	91.0 [26.67]	87.7 [25.70]	84.4 [24.74]
		Sens BTUH [kW]	63.1 [18.49]	56.4 [16.53]	49.7 [14.57]	78.4 [22.98]	71.7 [21.01]	65.1 [19.08]	89.0 [26.08]	82.4 [24.15]	75.7 [22.19]
		Power	8.3	8.1	8.0	8.2	8.0	7.9	8.1	7.9	7.8
	95 [35]	Total BTUH [kW]	94.6 [27.72]	91.3 [26.76]	88.0 [25.79]	93.7 [27.46]	90.5 [26.52]	87.2 [25.56]	90.2 [26.44]	86.9 [25.47]	83.6 [24.50]
		Sens BTUH [kW]	62.8 [18.40]	56.1 [16.44]	49.5 [14.51]	78.1 [22.89]	71.5 [20.95]	64.8 [18.99]	88.8 [26.02]	82.1 [24.06]	75.4 [22.10]
		Power	8.7	8.5	8.4	8.6	8.4	8.3	8.5	8.4	8.2
	100 [37.8]	Total BTUH [kW]	93.3 [27.34]	90.1 [26.41]	86.8 [25.44]	92.5 [27.11]	89.2 [26.14]	85.9 [25.17]	89.0 [26.08]	85.7 [25.12]	82.4 [24.15]
		Sens BTUH [kW]	62.3 [18.26]	55.7 [16.32]	49.0 [14.36]	77.7 [22.77]	71.0 [20.81]	64.3 [18.84]	88.3 [25.88]	81.6 [23.91]	75.0 [21.98]
		Power	9.1	9.0	8.8	9.0	8.9	8.7	8.9	8.8	8.6
	105 [40.6]	Total BTUH [kW]	90.8 [26.61]	87.5 [25.64]	84.2 [24.68]	90.0 [26.38]	86.7 [25.41]	83.4 [24.44]	86.4 [25.32]	83.2 [24.38]	79.9 [23.42]
		Sens BTUH [kW]	61.3 [17.97]	54.7 [16.03]	48.0 [14.07]	76.7 [22.48]	70.0 [20.51]	63.3 [18.55]	86.4 [25.32]	80.6 [23.62]	74.0 [21.69]
		Power	9.5	9.4	9.2	9.4	9.3	9.1	9.3	9.2	9.0
	110 [43.3]	Total BTUH [kW]	86.2 [25.26]	82.9 [24.30]	79.6 [23.33]	85.3 [25.00]	82.1 [24.06]	78.8 [23.09]	81.8 [23.97]	78.5 [23.01]	75.2 [22.04]
		Sens BTUH [kW]	59.5 [17.44]	52.8 [15.47]	46.1 [13.51]	74.8 [21.92]	68.1 [19.96]	61.5 [18.02]	81.8 [23.97]	78.5 [23.01]	72.1 [21.13]
		Power	9.9	9.8	9.6	9.8	9.7	9.5	9.7	9.6	9.4
	115 [46.1]	Total BTUH [kW]	78.5 [23.01]	75.3 [22.07]	72.0 [21.10]	77.7 [22.77]	74.4 [21.80]	71.1 [20.84]	74.2 [21.75]	70.9 [20.78]	67.6 [19.81]
		Sens BTUH [kW]	56.4 [16.53]	49.7 [14.57]	43.0 [12.60]	71.7 [21.01]	65.1 [19.08]	58.4 [17.12]	74.2 [21.75]	70.9 [20.78]	67.6 [19.81]
		Power	10.3	10.2	10.0	10.2	10.1	9.9	10.1	10.0	9.9

GROSS SYSTEMS PERFORMANCE DATA—RKKB-A102

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			4080 [1926]	3400 [1605]	2720 [1284]	4080 [1926]	3400 [1605]	2720 [1284]	4080 [1926]	3400 [1605]	2720 [1284]
DR ①			.15	.11	.07	.15	.11	.07	.15	.11	.07
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	117.6 [34.47]	113.8 [33.35]	110.0 [32.24]	115.4 [33.82]	111.6 [32.71]	107.8 [31.59]	110.5 [32.38]	106.8 [31.30]	103.0 [30.19]
		Sens BTUH [kW]	75.5 [22.13]	68.1 [19.96]	60.6 [17.76]	91.1 [26.70]	83.6 [24.50]	76.1 [22.30]	103.6 [30.36]	96.1 [28.16]	88.6 [25.97]
		Power	8.1	8.0	7.8	8.1	8.0	7.8	7.9	7.8	7.6
	80 [26.7]	Total BTUH [kW]	116.8 [34.23]	113.0 [33.12]	109.2 [32.00]	114.6 [33.59]	110.8 [32.47]	107.0 [31.36]	109.8 [32.18]	106.0 [31.07]	102.2 [29.95]
		Sens BTUH [kW]	75.0 [21.98]	67.5 [19.78]	60.0 [17.58]	90.6 [26.55]	83.1 [24.35]	75.6 [22.16]	103.0 [30.19]	95.5 [27.99]	88.1 [25.82]
		Power	8.6	8.4	8.3	8.6	8.4	8.2	8.4	8.2	8.1
	85 [29.4]	Total BTUH [kW]	115.3 [33.79]	111.5 [32.68]	107.7 [31.56]	113.1 [33.15]	109.3 [32.03]	105.5 [30.92]	108.2 [31.71]	104.4 [30.60]	100.7 [29.51]
		Sens BTUH [kW]	74.2 [21.75]	66.7 [19.55]	59.3 [17.38]	89.8 [26.32]	82.3 [24.12]	74.8 [21.92]	102.3 [29.98]	94.8 [27.78]	87.3 [25.59]
		Power	9.0	8.9	8.7	9.0	8.8	8.7	8.8	8.7	8.5
	90 [32.2]	Total BTUH [kW]	113.0 [33.12]	109.2 [32.00]	105.4 [30.89]	110.8 [32.47]	107.0 [31.36]	103.3 [30.27]	106.0 [31.07]	102.2 [29.95]	98.4 [28.84]
		Sens BTUH [kW]	73.3 [21.48]	65.8 [19.28]	58.3 [17.09]	88.9 [26.05]	81.4 [23.86]	73.9 [21.66]	101.3 [29.69]	93.9 [27.52]	86.4 [25.32]
		Power	9.5	9.3	9.2	9.5	9.3	9.1	9.3	9.1	8.9
	95 [35]	Total BTUH [kW]	110.2 [32.30]	106.5 [31.21]	102.7 [30.10]	108.1 [31.68]	104.3 [30.57]	100.5 [29.45]	103.2 [30.24]	99.4 [29.13]	95.7 [28.05]
		Sens BTUH [kW]	72.2 [21.16]	64.7 [18.96]	57.2 [16.76]	87.8 [25.73]	80.3 [23.53]	72.8 [21.34]	100.5 [29.45]	92.7 [27.17]	85.3 [25.00]
		Power	9.9	9.8	9.6	9.9	9.7	9.6	9.7	9.5	9.4
	100 [37.8]	Total BTUH [kW]	107.0 [31.36]	103.2 [30.24]	99.4 [29.13]	104.8 [30.71]	101.0 [29.60]	97.2 [28.49]	100.0 [29.31]	96.2 [28.19]	92.4 [27.08]
		Sens BTUH [kW]	70.9 [20.78]	63.4 [18.58]	55.9 [16.38]	86.5 [25.35]	79.0 [23.15]	71.5 [20.95]	98.8 [28.96]	91.5 [26.82]	84.0 [24.62]
		Power	10.4	10.2	10.0	10.3	10.2	10.0	10.2	10.0	9.8
	105 [40.6]	Total BTUH [kW]	103.4 [30.30]	99.7 [29.22]	95.9 [28.11]	101.3 [29.69]	97.5 [28.57]	93.7 [27.46]	96.4 [28.25]	92.6 [27.14]	88.8 [26.02]
		Sens BTUH [kW]	69.5 [20.37]	62.0 [18.17]	54.5 [15.97]	85.1 [24.94]	77.6 [22.74]	70.1 [20.54]	96.4 [28.25]	90.1 [26.41]	82.6 [24.21]
		Power	10.8	10.6	10.5	10.8	10.6	10.5	10.6	10.4	10.3
	110 [43.3]	Total BTUH [kW]	99.6 [29.19]	95.9 [28.11]	92.1 [26.99]	97.5 [28.57]	93.7 [27.46]	89.9 [26.35]	92.6 [27.14]	88.8 [26.02]	85.0 [24.91]
		Sens BTUH [kW]	68.0 [19.93]	60.5 [17.73]	53.0 [15.53]	83.6 [24.50]	76.1 [22.30]	86.6 [25.38]	92.6 [27.14]	88.5 [25.94]	81.1 [23.77]
		Power	11.3	11.1	10.9	11.2	11.1	10.9	11.0	10.9	10.7
	115 [46.1]	Total BTUH [kW]	95.7 [28.05]	91.9 [26.93]	88.2 [25.85]	93.5 [27.40]	89.8 [26.32]	86.0 [25.20]	88.7 [26.00]	84.9 [24.88]	81.1 [23.77]
		Sens BTUH [kW]	66.3 [19.43]	58.9 [17.26]	51.4 [15.06]	81.9 [24.00]	74.4 [21.80]	66.9 [19.61]	88.7 [26.00]	84.9 [24.88]	79.4 [23.27]
		Power	11.7	11.5	11.4	11.7	11.5	11.4	11.5	11.3	11.2

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power—KW input

NOTES:
① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

GROSS SYSTEMS PERFORMANCE DATA—RKKB-A120

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			4800 [2265]	4000 [1888]	3200 [1510]	4800 [2265]	4000 [1888]	3200 [1510]	4800 [2265]	4000 [1888]	3200 [1510]
DR ①			.15	.12	.08	.15	.12	.08	.15	.12	.08
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	138.4 [40.56]	133.9 [39.24]	129.3 [37.89]	137.0 [40.15]	132.4 [38.80]	127.9 [37.48]	125.8 [36.87]	121.2 [35.52]	116.7 [34.20]
		Sens BTUH [kW]	84.7 [24.82]	75.8 [22.21]	67.0 [19.64]	105.2 [30.83]	96.3 [28.22]	87.4 [25.61]	117.4 [34.41]	108.5 [31.80]	99.6 [29.19]
		Power	9.8	9.6	9.4	9.7	9.5	9.3	9.4	9.2	9.1
	80 [26.7]	Total BTUH [kW]	138.2 [40.50]	133.7 [39.18]	129.1 [37.84]	136.8 [40.09]	132.2 [38.74]	127.7 [37.43]	125.6 [36.81]	121.0 [35.46]	116.5 [34.14]
		Sens BTUH [kW]	85.5 [25.06]	76.7 [22.48]	67.8 [19.87]	106.0 [31.07]	97.1 [28.46]	88.2 [25.85]	118.1 [34.61]	109.3 [32.03]	100.4 [29.42]
		Power	10.4	10.2	10.0	10.3	10.1	9.9	10.0	9.8	9.6
	85 [29.4]	Total BTUH [kW]	136.9 [40.12]	132.4 [38.80]	127.8 [37.45]	135.5 [39.71]	130.9 [38.36]	126.4 [37.04]	124.2 [36.40]	119.7 [35.08]	115.1 [33.73]
		Sens BTUH [kW]	85.6 [25.09]	76.7 [22.48]	67.8 [19.87]	106.0 [31.07]	97.1 [28.46]	88.3 [25.88]	118.4 [34.70]	109.4 [32.06]	100.5 [29.45]
		Power	10.9	10.7	10.5	10.8	10.6	10.4	10.6	10.4	10.2
	90 [32.2]	Total BTUH [kW]	134.5 [39.42]	130.0 [38.10]	125.4 [36.75]	133.1 [39.01]	128.5 [37.66]	124.0 [36.34]	121.8 [35.70]	117.3 [34.38]	112.7 [33.03]
		Sens BTUH [kW]	84.9 [24.88]	76.0 [22.27]	67.2 [19.69]	105.3 [30.86]	96.5 [28.28]	87.6 [25.67]	117.8 [34.52]	108.7 [31.86]	99.8 [29.25]
		Power	11.5	11.3	11.1	11.4	11.2	11.0	11.1	10.9	10.7
	95 [35]	Total BTUH [kW]	131.1 [38.42]	126.6 [37.10]	122.0 [35.75]	129.7 [38.01]	125.1 [36.66]	120.6 [35.34]	118.5 [34.73]	113.9 [33.38]	109.4 [32.06]
		Sens BTUH [kW]	83.6 [24.50]	74.7 [21.89]	65.8 [19.28]	104.0 [30.48]	95.1 [27.87]	86.2 [25.26]	116.2 [34.05]	107.3 [31.45]	98.5 [28.87]
		Power	12.0	11.8	11.6	12.0	11.8	11.6	11.7	11.5	11.3
	100 [37.8]	Total BTUH [kW]	126.8 [37.16]	122.3 [35.84]	117.7 [34.49]	125.4 [36.75]	120.8 [35.40]	116.3 [34.08]	114.1 [33.44]	109.6 [32.12]	105.0 [30.77]
		Sens BTUH [kW]	81.6 [23.91]	72.7 [21.31]	63.9 [18.73]	102.1 [29.92]	93.2 [27.31]	84.3 [24.71]	114.1 [33.44]	105.4 [30.89]	96.5 [28.28]
		Power	12.6	12.4	12.2	12.5	12.3	12.1	12.3	12.1	11.9
	105 [40.6]	Total BTUH [kW]	121.7 [35.67]	117.1 [34.32]	112.6 [33.00]	120.2 [35.23]	115.7 [33.91]	111.1 [32.56]	109.0 [31.94]	104.4 [30.60]	99.9 [29.28]
		Sens BTUH [kW]	79.1 [23.18]	70.3 [20.60]	61.4 [17.99]	99.6 [29.19]	90.7 [26.58]	81.8 [23.97]	109.0 [31.94]	102.9 [30.16]	94.0 [27.55]
		Power	13.2	13.0	12.8	13.1	12.9	12.7	12.8	12.6	12.4
	110 [43.3]	Total BTUH [kW]	115.7 [33.91]	111.2 [32.59]	106.6 [31.24]	114.3 [33.50]	109.8 [32.18]	105.2 [30.83]	103.1 [30.22]	98.5 [28.87]	94.0 [27.55]
		Sens BTUH [kW]	76.2 [22.33]	67.3 [19.72]	58.4 [17.12]	96.6 [28.31]	87.7 [25.70]	78.8 [23.09]	103.1 [30.22]	98.5 [28.87]	91.1 [26.70]
		Power	13.7	13.5	13.3	13.6	13.4	13.3	13.4	13.2	13.0
	115 [46.1]	Total BTUH [kW]	109.1 [31.97]	104.6 [30.66]	100.0 [29.31]	107.7 [31.56]	103.2 [30.24]	98.6 [28.90]	96.5 [28.28]	91.9 [26.93]	87.4 [25.61]
		Sens BTUH [kW]	72.8 [21.34]	63.9 [18.73]	55.0 [16.12]	93.2 [27.31]	84.3 [24.71]	75.4 [22.10]	96.5 [28.28]	91.9 [26.93]	87.4 [25.61]
		Power	14.3	14.1	13.9	14.2	14.0	13.8	13.9	13.7	13.5

GROSS SYSTEMS PERFORMANCE DATA—RKKB-A150

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
CFM [L/s]			5760 [2718]	4800 [2265]	3840 [1812]	5760 [2718]	4800 [2265]	3840 [1812]	5760 [2718]	4800 [2265]	3840 [1812]
DR ①			.13	.10	.05	.13	.10	.05	.13	.10	.05
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	167.1 [48.97]	161.5 [47.33]	156.0 [45.72]	165.7 [48.56]	160.1 [46.92]	154.5 [45.28]	154.4 [45.25]	148.9 [43.64]	143.3 [42.00]
		Sens BTUH [kW]	108.4 [31.77]	97.5 [28.57]	86.6 [25.38]	128.8 [37.75]	117.9 [34.55]	107.0 [31.36]	141.1 [41.35]	130.2 [38.16]	119.3 [34.96]
		Power	11.5	11.3	11.0	11.4	11.2	11.0	11.1	10.9	10.7
	80 [26.7]	Total BTUH [kW]	166.9 [48.91]	161.4 [47.30]	155.8 [45.66]	165.5 [48.50]	159.9 [46.86]	154.4 [45.25]	154.3 [45.22]	148.7 [43.58]	143.1 [41.94]
		Sens BTUH [kW]	109.2 [32.00]	98.3 [28.81]	87.4 [25.61]	129.7 [38.01]	118.8 [34.82]	107.9 [31.62]	141.9 [41.59]	131.0 [38.39]	120.1 [35.20]
		Power	12.0	11.8	11.6	12.0	11.7	11.5	11.7	11.5	11.3
	85 [29.4]	Total BTUH [kW]	165.6 [48.53]	160.0 [46.89]	154.5 [45.28]	164.1 [48.09]	158.6 [46.48]	153.0 [44.84]	152.9 [44.81]	147.4 [43.20]	141.8 [41.56]
		Sens BTUH [kW]	109.3 [32.03]	98.4 [28.84]	87.5 [25.64]	129.7 [38.01]	118.8 [34.82]	107.9 [31.62]	141.9 [41.59]	131.0 [38.39]	120.1 [35.20]
		Power	12.6	12.4	12.2	12.5	12.3	12.1	12.3	12.0	11.8
	90 [32.2]	Total BTUH [kW]	163.2 [47.83]	157.6 [46.19]	152.1 [44.58]	161.7 [47.39]	156.2 [45.78]	150.6 [44.14]	150.5 [44.11]	145.0 [42.50]	139.4 [40.85]
		Sens BTUH [kW]	108.6 [31.83]	97.7 [28.63]	86.8 [25.44]	129.0 [37.81]	118.1 [34.61]	107.2 [31.42]	141.2 [41.38]	130.3 [38.19]	119.4 [34.99]
		Power	13.2	12.9	12.7	13.1	12.9	12.6	12.8	12.6	12.4
	95 [35]	Total BTUH [kW]	159.8 [46.83]	154.2 [45.19]	148.7 [43.58]	158.3 [46.39]	152.8 [44.78]	147.2 [43.14]	147.1 [43.11]	141.6 [41.50]	136.0 [39.86]
		Sens BTUH [kW]	107.3 [31.45]	96.4 [28.25]	85.5 [25.06]	127.7 [37.43]	116.8 [34.23]	105.9 [31.04]	139.9 [41.00]	129.0 [37.81]	118.1 [34.61]
		Power	13.7	13.5	13.3	13.7	13.4	13.2	13.4	13.2	12.9
	100 [37.8]	Total BTUH [kW]	155.5 [45.57]	149.9 [43.93]	144.4 [42.32]	154.0 [45.13]	148.5 [43.52]	142.9 [41.88]	142.8 [41.85]	137.3 [40.24]	131.7 [38.60]
		Sens BTUH [kW]	105.3 [30.86]	94.4 [27.67]	83.5 [24.47]	125.8 [36.87]	114.9 [33.67]	103.9 [30.45]	138.0 [40.44]	127.1 [37.25]	116.2 [34.05]
		Power	14.3	14.1	13.9	14.2	14.0	13.8	14.0	13.7	13.5
	105 [40.6]	Total BTUH [kW]	150.3 [44.05]	144.8 [42.44]	139.2 [40.80]	148.9 [43.64]	143.3 [42.00]	137.8 [40.39]	137.7 [40.36]	132.1 [38.71]	126.6 [37.10]
		Sens BTUH [kW]	102.8 [30.13]	91.9 [26.93]	81.0 [23.74]	123.3 [36.14]	112.4 [32.94]	101.5 [29.75]	135.5 [39.71]	124.6 [36.52]	113.7 [33.32]
		Power	14.9	14.6	14.4	14.8	14.6	14.3	14.5	14.3	14.1
	110 [43.3]	Total BTUH [kW]	144.4 [42.32]	138.9 [40.71]	133.3 [39.07]	143.0 [41.91]	137.4 [40.27]	131.9 [38.66]	131.8 [38.63]	126.2 [36.99]	120.6 [35.34]
		Sens BTUH [kW]	99.9 [29.28]	89.0 [26.08]	78.1 [22.89]	120.3 [35.26]	109.4 [32.06]	98.5 [28.87]	131.8 [38.63]	121.6 [35.64]	110.7 [32.44]
		Power	15.4	15.2	15.0	15.3	15.1	14.9	15.1	14.9	14.6
	115 [46.1]	Total BTUH [kW]	137.8 [40.39]	132.3 [38.77]	126.7 [37.13]	136.4 [39.97]	130.8 [38.33]	125.3 [36.72]	125.2 [36.69]	119.6 [35.05]	114.0 [33.41]
		Sens BTUH [kW]	96.5 [28.28]	85.6 [25.09]	74.7 [21.89]	116.9 [34.26]	106.0 [31.07]	95.1 [27.87]	125.2 [36.69]	118.2 [34.64]	107.3 [31.45]
		Power	16.0	15.8	15.5	15.9	15.7	15.5	15.6	15.4	15.2

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power—KW input

NOTES:
① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

FIELD INSTALLED ACCESSORY EQUIPMENT

Accessory	Model Number	Shipping Weight Lbs. [kg]	Installed Weight Lbs. [kg]	Factory Installation Available?
Economizer w/Outdoor Air	RXRD-EDCM2	89 [40.4]	80 [36.3]	Yes
Economizer w/Single Enthalpy	RXRD-EDCM3	90 [40.8]	81 [36.7]	Yes
Economizer w/Dual Enthalpy	RXRD-EDCM4	91 [41.3]	82 [37.2]	Yes
Horizontal Economizer Adapter Kit	RXRX-AS01	90 [40.8]	75 [34.0]	No
Carbon Dioxide Sensor	RXRX-AR01	3 [1.4]	2 [1.0]	No
Power Exhaust	RXRX-BFF02 (C,D,Y)	43 [19.5]	38 [17.2]	Yes
Manual Fresh Air	RXRF-FDA1	26 [11.8]	21 [9.5]	No
Motorized Fresh Air	RXRF-FDB1	43 [19.5]	38 [17.2]	No
Roofcurb, 14"	RXKG-BAE14	90 [40.8]	85 [38.5]	No
Roofcurb, 24"	RXKG-BAE24	140 [63.5]	135 [61.2]	No
Roofcurb Adapters	—	—	—	—
-076 to -090	RXRX-CDCE50	300 [136.1]	290 [131.5]	No
-075, -100 to -090, -120	RXRX-CFCE54	325 [147.4]	315 [142.9]	No
-125 to -150	RXRX-CFCE56	350 [158.8]	340 [154.2]	No
Concentric Diffuser (Step-Down, 18 x 28)	RXRN-AA61	200 [90.7]	185 [83.9]	No
Concentric Diffuser (Step-Down, 18 x 32)	RXRN-AA66	247 [112.0]	227 [103.0]	No
Concentric Diffuser (Flush, 18 x 28)	RXRN-AA71	170 [77.1]	155 [70.3]	No
Concentric Diffuser (Flush, 18 x 32)	RXRN-AA76	176 [79.8]	161 [73.0]	No
Downflow Transition (Rect. to Round)	RXMC-CD04	15 [6.8]	13 [5.9]	No
Downflow Transition (Rect. to Rect., 18 x 28)	RXMC-CE05 ①	18 [8.2]	16 [7.3]	No
Downflow Transition (Rect. to Rect., 18 x 32)	RXMC-CF06 ②	20 [9.1]	18 [8.2]	No
Compressor Time-Delay Relay Kit	RXMD-A04	2 [1.0]	1 [.5]	Yes
Low-Ambient Control Kit	RXRZ-A90	3 [1.4]	2 [1.0]	Yes
High/Low Pressure Switch Kit	RXRX-AK01	5 [2.3]	4 [1.8]	Yes
Freeze-Stat Kit	RXRX-AM01	1 [.5]	0.5 [.2]	Yes
Outdoor Coil Louver Kit	RXRX-AAD01C	29 [11.3]	26 [11.8]	Yes

NOTES: ① Used with RXRN-AA61 and RXRN-AA71 concentric diffusers.
② Used with RXRN-AA66 and RXRN-AA76 concentric diffusers.

[ ] Designates Metric Conversions

AVAILABLE FACTORY INSTALLED OPTIONS
For Rheem's New "B Series" Rooftop

- **High/Low Pressure Switch**—Factory-brazed and wired high *and* low pressure switches on *each* refrigerant circuit. This option protects the compressors against overcharging, refrigerant leaks and outdoor fan failures.
- **Hail Guards**—Factory-installed painted louvers protect the outdoor coil from hail and debris. The louvers are aesthetically pleasing as well.
- **Low Ambient Controls**—Factory-wired low ambient controls are installed on each refrigerant circuit. This cycles the outdoor fan to maintain system pressure, allowing for operation as low as 0° F.
- **Time Delay Relay**—Factory-installed timing relays are installed on each compressor control circuit. These relays prevent the compressor from restarting for 5 minutes, following a shutdown.
- **Freeze Stat**—Factory-installed thermostat located on the evaporator coil. This "Freeze Stat" stops the compressor if the coil temperature nears freezing, preventing possible ice build-up on the coil.
- **Convenience Outlet**—Factory-installed Ground Fault Interruptor. Convenience Outlet is rated @ 115V and allows for convenient electrical connection of service tools. The outlet is unwired and should be connected to a dedicated circuit.
- **Disconnect Switch**—A Service Disconnect Switch is installed for convenience. This switch is for visual indication only and offers no overcurrent protection.
- **Economizers/Power Exhaust**—A variety of Gear Driven, Fully Modulating Economizers with or without power exhaust are available, factory-installed. A break-down, field assembled hood ships inside the unit. See page 25 for further details.

Instructions for Factory Installed Option(s) Selection

Note: Three characters following the model number will be utilized to designate a factory-installed option or combination of options. ***If no factory option(s) is required, nothing follows the model number.***

Step 1. After a basic rooftop model is selected, choose a *two-character* option code from the FACTORY INSTALLED OPTION SELECTION TABLE shown on page 23.

Proceed to Step 2 *only if a factory-installed economizer is required.*

Step 2. The last option code character is utilized for factory-installed economizers and power exhaust only. Choose a character from the FACTORY INSTALLED ECONOMIZER SELECTION TABLE shown on page 24.

Examples:

RKKB-A120CL22E.....this unit has no factory installed options.

RKKB-A120CL22E**AD** .....this unit is equipped with *high and low pressure switches and hail guards.*

RKKB-A120CL22E**DS** .....this unit is equipped with a *convenience outlet and service disconnect.*

RKKB-A120CL22E**DSF** .....this unit is equipped as above *and* includes an *Economizer with indoor enthalpy sensor.*

RKKB-A120CL22E**AAJ** .....this unit is equipped with an *Economizer with dual enthalpy sensor.*

FACTORY INSTALLED OPTION SELECTION TABLE

Use to Select Factory Installed Options Only

Option Code	High/Low Pressure	Hail Guard	Low Ambient	Time Delay	Freeze Stat	Unwired Convenience Outlet (GFI)	Unfused Service Disconnect Switch
AA							
AB	x						
AC		x					
AD	x	x					
AE			x				
AF	x		x				
AG		x	x				
AH	x	x	x				
AI				x			
AJ	x			x			
AK		x		x			
AL	x	x		x			
AM			x	x			
AN	x		x	x			
AO		x	x	x			
AP	x	x	x	x			
AQ					x		
AR	x				x		
AS		x			x		
AT	x	x			x		
AU			x		x		
AV	x		x		x		
AW		x	x		x		
AX	x	x	x		x		
AY				x	x		
AZ	x			x	x		
BA		x		x	x		
BB	x	x		x	x		
BC			x	x	x		
BD	x		x	x	x		
BE		x	x	x	x		
BF	x	x	x	x	x		
BG						x	
BH	x					x	
BI		x				x	
BJ	x	x				x	
BK			x			x	
BL	x		x			x	
BM		x	x			x	
BN	x	x	x			x	
BO				x		x	
BP	x			x		x	
BQ		x		x		x	
BR	x	x		x		x	
BS			x	x		x	
BT	x		x	x		x	
BU		x	x	x		x	
BV	x	x	x	x		x	
BW					x	x	
BX	x				x	x	
BY		x			x	x	
BZ	x	x			x	x	
CA			x		x	x	
CB	x		x		x	x	
CC		x	x		x	x	
CD	x	x	x		x	x	
CE				x	x	x	
CF	x			x	x	x	
CG		x		x	x	x	
CH	x	x		x	x	x	
CI			x	x	x	x	
CJ	x		x	x	x	x	
CK		x	x	x	x	x	
CL	x	x	x	x	x	x	
	High/Low Pressure	Hail Guard	Low Ambient	Time Delay	Freeze Stat	Unwired Convenience Outlet (GFI)	Unfused Service Disconnect Switch

Option Code	High/Low Pressure	Hail Guard	Low Ambient	Time Delay	Freeze Stat	Unwired Convenience Outlet (GFI)	Unfused Service Disconnect Switch
CM							x
CN	x						x
CO		x					x
CP	x	x					x
CQ			x				x
CR	x		x				x
CS		x	x				x
CT	x	x	x				x
CU				x			x
CV	x			x			x
CW		x		x			x
CX	x	x		x			x
CY			x	x			x
CZ	x		x	x			x
DA		x	x	x			x
DB	x	x	x	x			x
DC					x		x
DD	x				x		x
DE		x			x		x
DF	x	x			x		x
DG			x		x		x
DH	x		x		x		x
DI		x	x		x		x
DJ	x	x	x		x		x
DK				x	x		x
DL	x			x	x		x
DM		x		x	x		x
DN	x	x		x	x		x
DO			x	x	x		x
DP	x		x	x	x		x
DQ		x	x	x	x		x
DR	x	x	x	x	x		x
DS						x	x
DT	x					x	x
DU		x				x	x
DV	x	x				x	x
DW			x			x	x
DX	x		x			x	x
DY		x	x			x	x
DZ	x	x	x			x	x
EA				x		x	x
EB	x			x		x	x
EC		x		x		x	x
ED	x	x		x		x	x
EE			x	x		x	x
EF	x		x	x		x	x
EG		x	x	x		x	x
EH	x	x	x	x		x	x
EI					x	x	x
EJ	x				x	x	x
EK		x			x	x	x
EL	x	x			x	x	x
EM			x		x	x	x
EN	x		x		x	x	x
EO		x	x		x	x	x
EP	x	x	x		x	x	x
EQ				x	x	x	x
ER	x			x	x	x	x
ES		x		x	x	x	x
ET	x	x		x	x	x	x
EU			x	x	x	x	x
EV	x		x	x	x	x	x
EW		x	x	x	x	x	x
EX	x	x	x	x	x	x	x
	High/Low Pressure	Hail Guard	Low Ambient	Time Delay	Freeze Stat	Unwired Convenience Outlet (GFI)	Unfused Service Disconnect Switch

"x" indicates factory installed option.

FACTORY INSTALLED ECONOMIZER SELECTION TABLE

Use to Select Factory Installed Options Only

Option Code	Economizer with Outdoor Air	Economizer with Single Enthalpy	Economizer with Dual Enthalpy	Power Exhaust 208-230V	Power Exhaust 460V	Power Exhaust 575V
A						
B	x					
C	x			x		
D	x				x	
E	x					x
F		x				
G		x		x		
H		x			x	
I		x				x
J			x			
K			x	x		
L			x		x	
M			x			x

"x" indicates factory installed option.

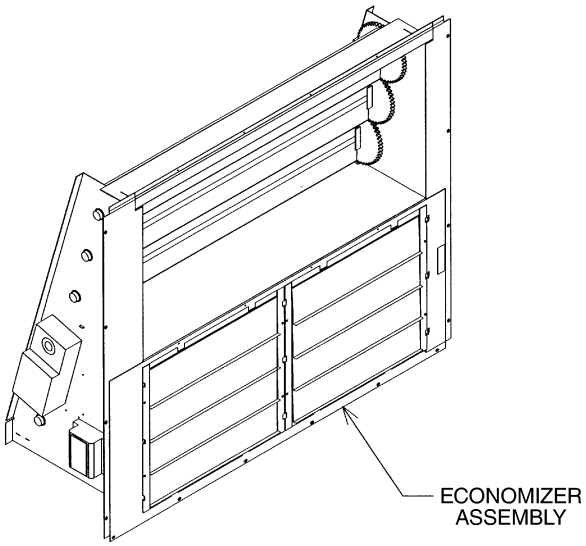
NOTES:

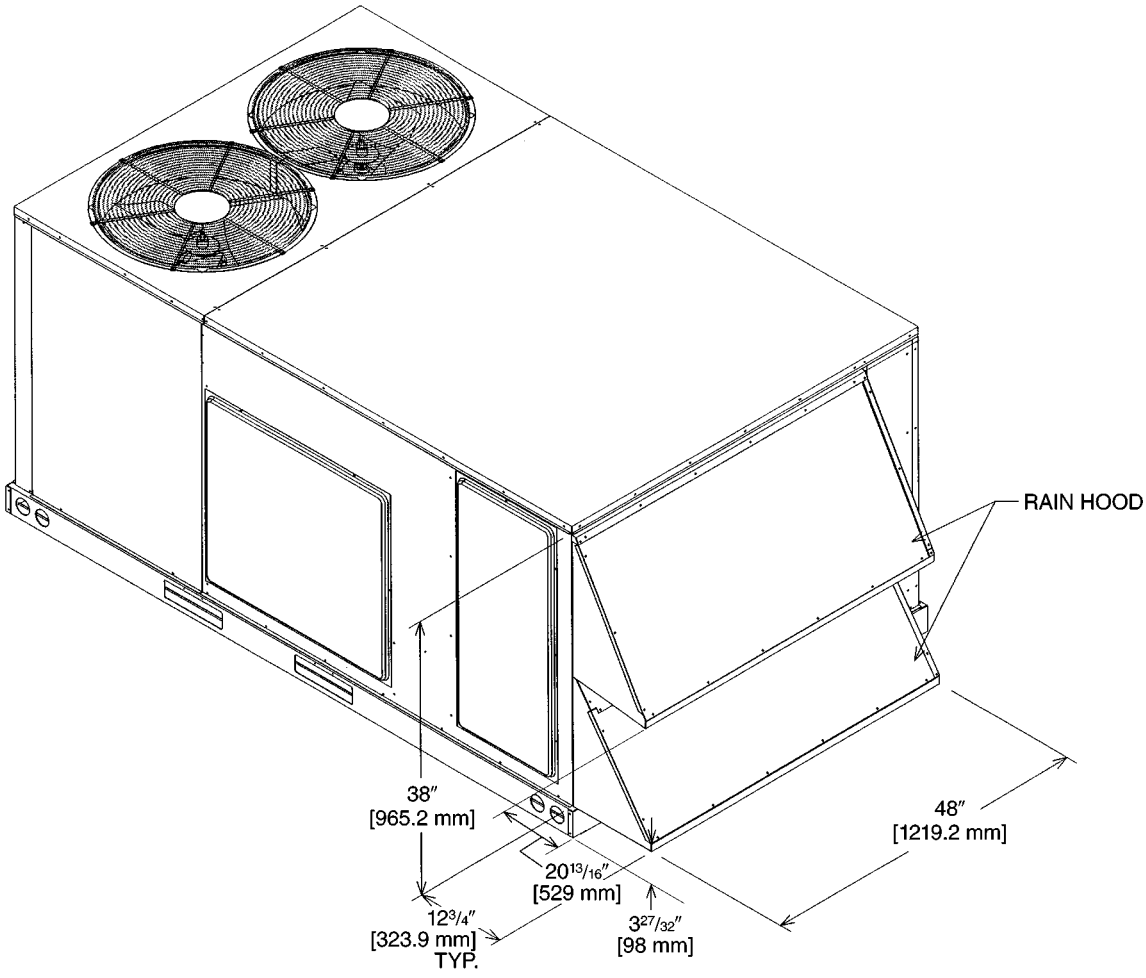
ECONOMIZERS

Use to Select Factory Installed Options Only

RXRD-EDCM2—Outdoor Air
RXRD-EDCM3—Single Enthalpy (Outdoor)
RXRD-EDCM4—Dual Enthalpy (Outdoor & Indoor)
Optional CO_2 Sensor

- Features **Johnson Controls** Digital Controller
- Available Factory Installed or Field Accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Slip-In Design for Easy Installation
- Plug-In Polarized 12-pin Electrical Connections
- Self-configuring—No Field Adjustments Necessary
- Standard Barometric Relief Damper Provided
- Dry Bulb, Single Enthalpy, Dual Enthalpy, Models Available with or without Power Exhaust
- CO_2 Input Sensor Available
- Field Assembled Hood Ships with Economizer
- Economizer Ships Complete for Downflow Duct Application. **For Horizontal Duct Applications, RXRX-AS01 Adapter Kit (See Drawing) Must Be Used.**



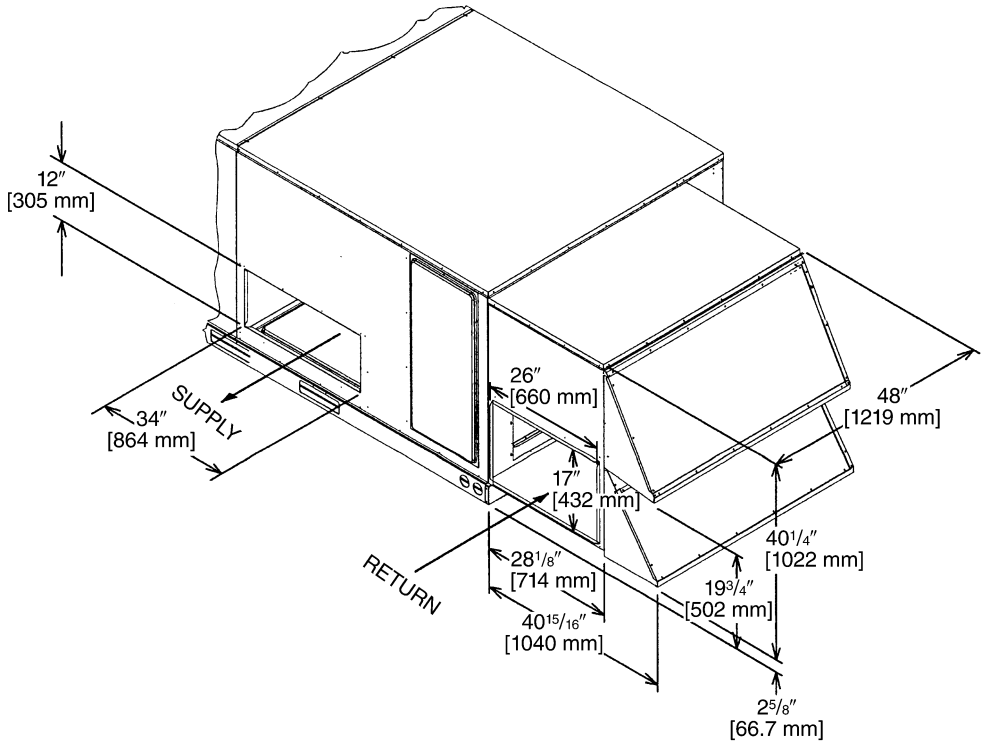


[ ] Designates Metric Conversions

ECONOMIZERS

RXRX-AS01—Economizer Adapter Kit for Horizontal Duct Installation

- Must Be Used with RXRD-EDCM- Series Economizers.
- Allows Standard Economizer to be Used in Horizontal Duct Applications.
- Adapter Kit is Shipped Unassembled. Approximate Assembly Time is One Hour.
- Unit Must be Elevated 12 Inches [305 mm] Above Any Restrictions, (i.e. Snow), for Proper Exhaust Operation.

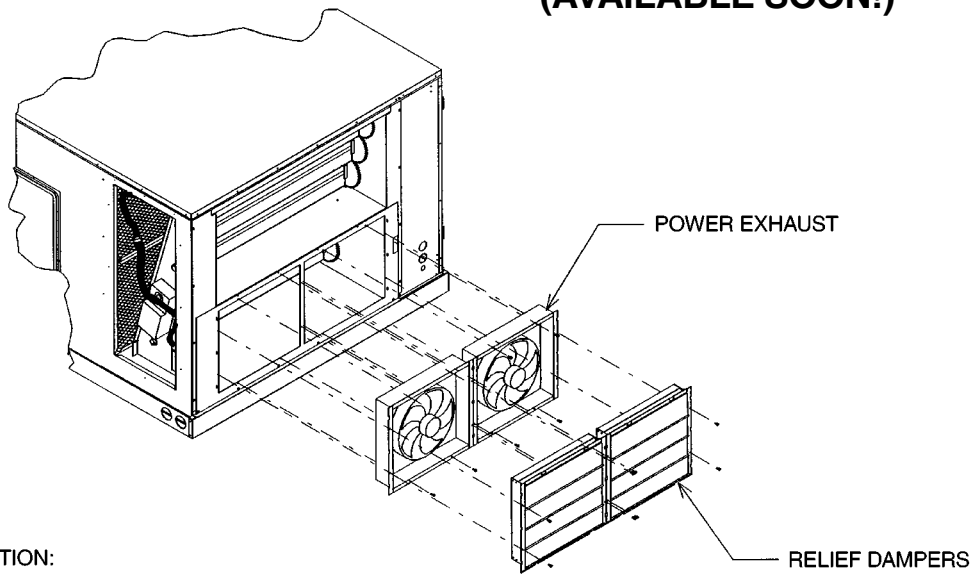


[ ] Designates Metric Conversions

ECONOMIZER WITH INTEGRAL POWER EXHAUST

RXRX-BFF02 (C, D, or Y)

(AVAILABLE SOON!)

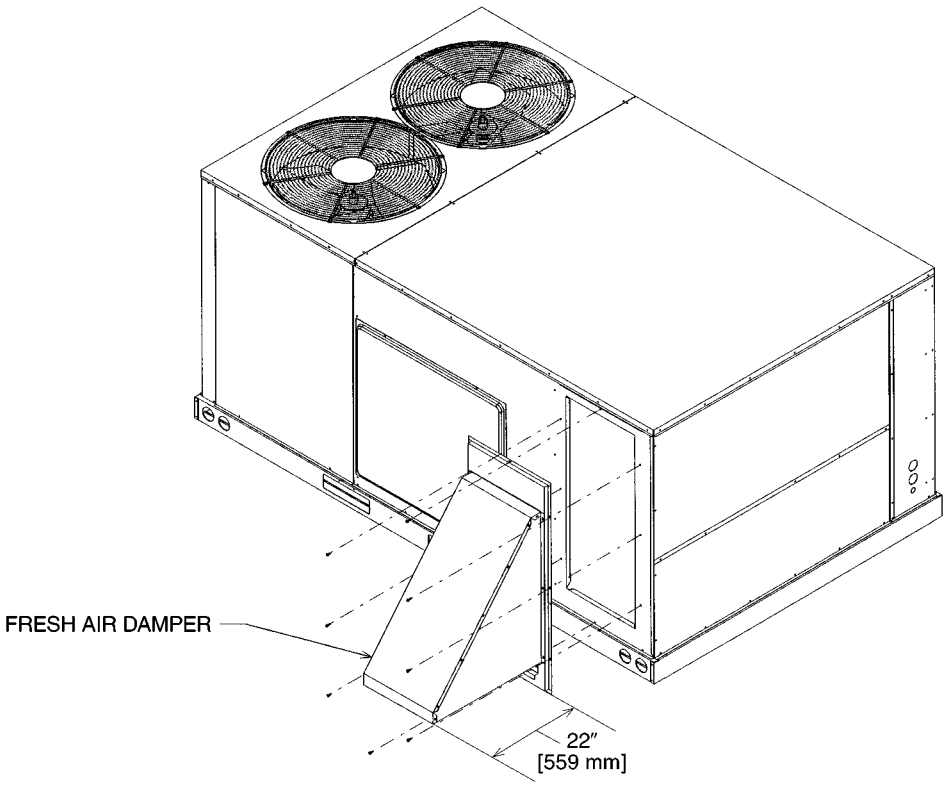


INSTALLATION:

1) REMOVE RELIEF DAMPERS FROM ECONOMIZER.
2) INSTALL POWER EXHAUSTS.
3) REINSTALL RELIEF DAMPERS.
4) CONNECT POWER & CONTROL WIRING.

FRESH AIR DAMPER

RXRF-FDA1 (Manual)
RXRF-FDB1 (Motorized)

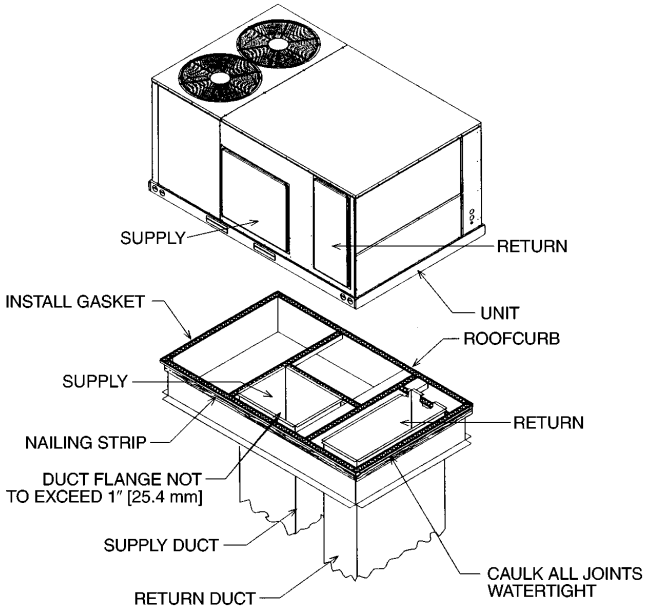


ROOFCURBS (Full Perimeter)

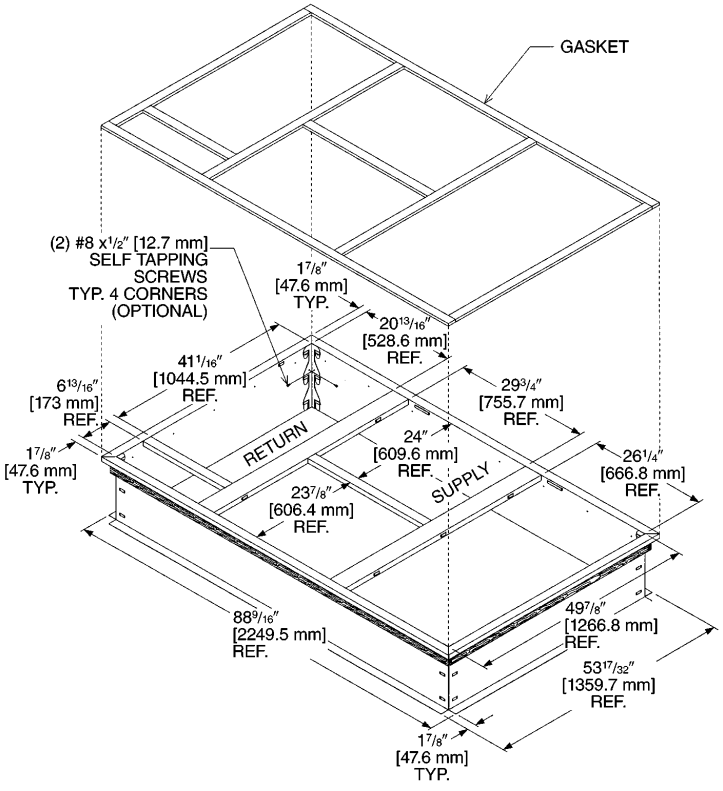
- Rheem's new roofcurb design can be utilized on 7.5 and 10 ton [26.4 and 35.2 kW] models.
- Two available heights (14" [356 mm] and 24" [610 mm]) for ALL models.
- Quick assembly corners for simple and fast assembly.
- Opening provided in bottom pan to match the "Thru the Curb" electrical connection opening provided on the unit base pan.
- 2" [51 mm] x 4" [102 mm] Nailer provided.
- Insulating panels not required because of insulated outdoor base pan.
- Sealing gasket (28" [711 mm]) provided with Roofcurb.
- Packaged for easy field assembly.

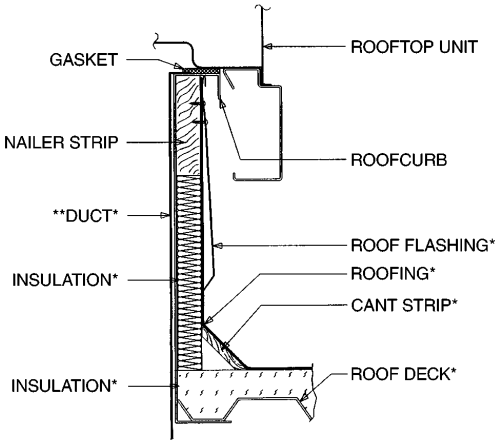
Roofcurb Model	Height of Curb
RXKG-BAE14	14" [356 mm]
RXKG-BAE24	24" [610 mm]

TYPICAL INSTALLATION



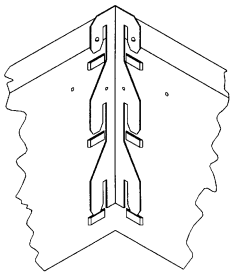
ROOFCURB INSTALLATION





*BY CONTRACTOR

**FOR INSTALLATION OF DUCT AS SHOWN, USE RECOMMENDED DUCT SIZES FROM ROOFCURB INSTALLATION INSTRUCTIONS. FOR DUCT FLANGE ATTACHMENT TO UNIT, SEE UNIT INSTALLATION INSTRUCTIONS FOR RECOMMENDED DUCT SIZES.



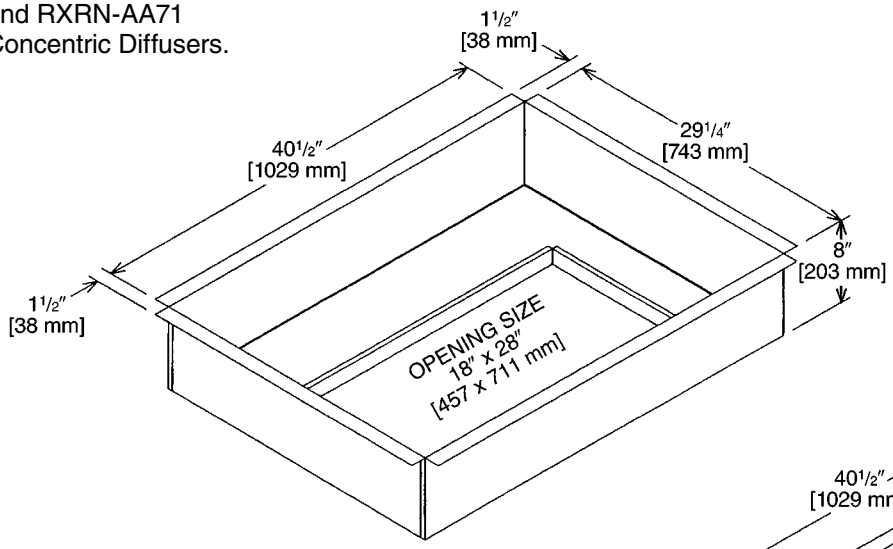
CORNER DETAIL

[ ] Designates Metric Conversions

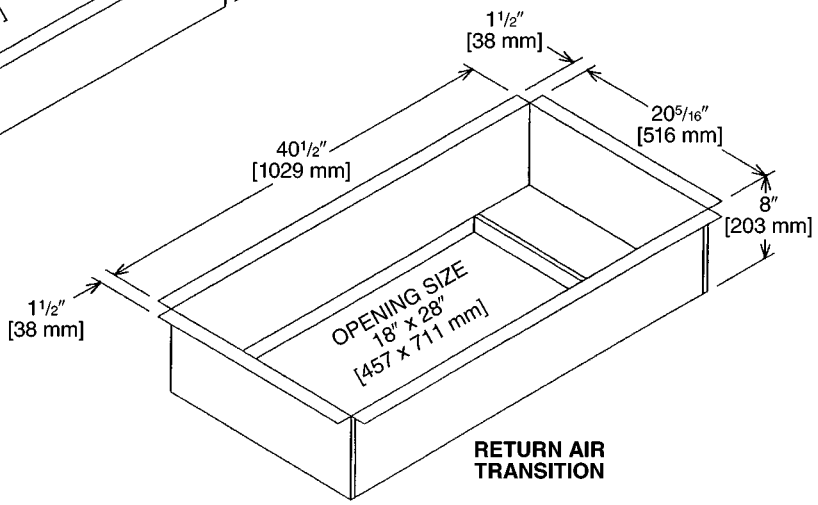
DOWNFLOW TRANSITION DRAWINGS

RXMC-CE05

- Used with RXRN-AA61 and RXRN-AA71 Concentric Diffusers.



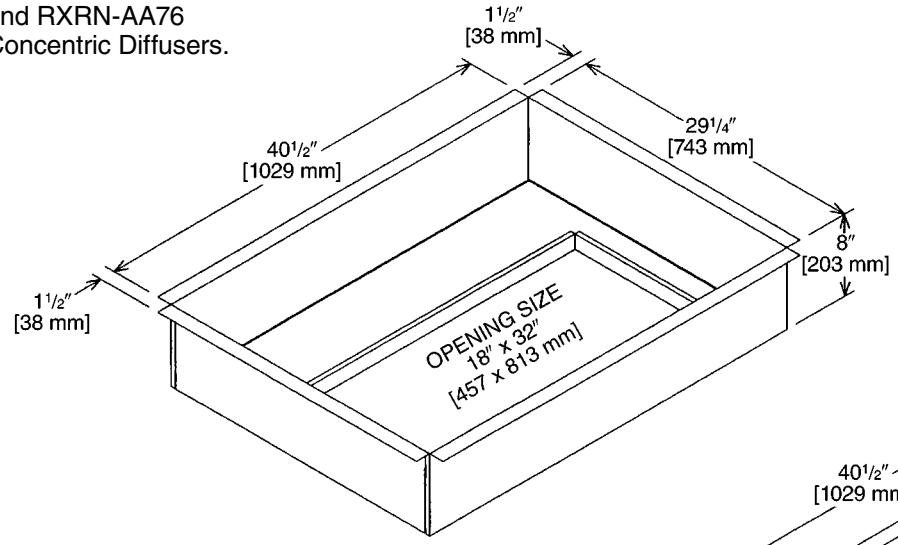
SUPPLY AIR TRANSITION



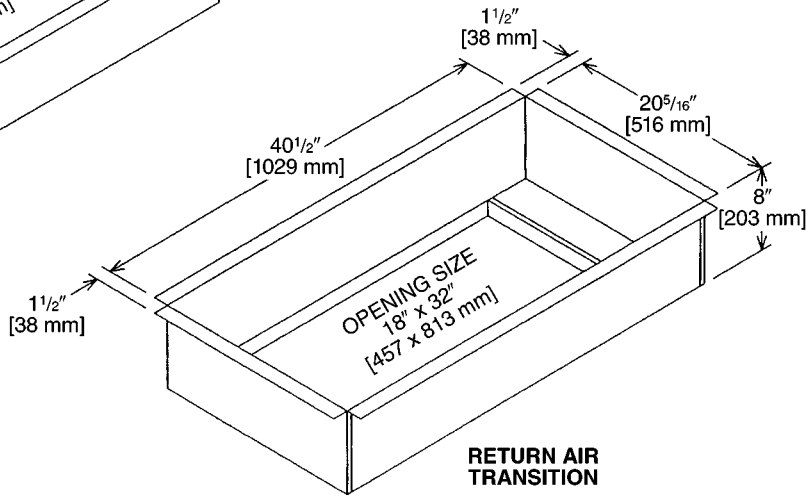
RETURN AIR TRANSITION

RXMC-CF06

- Used with RXRN-AA66 and RXRN-AA76 Concentric Diffusers.

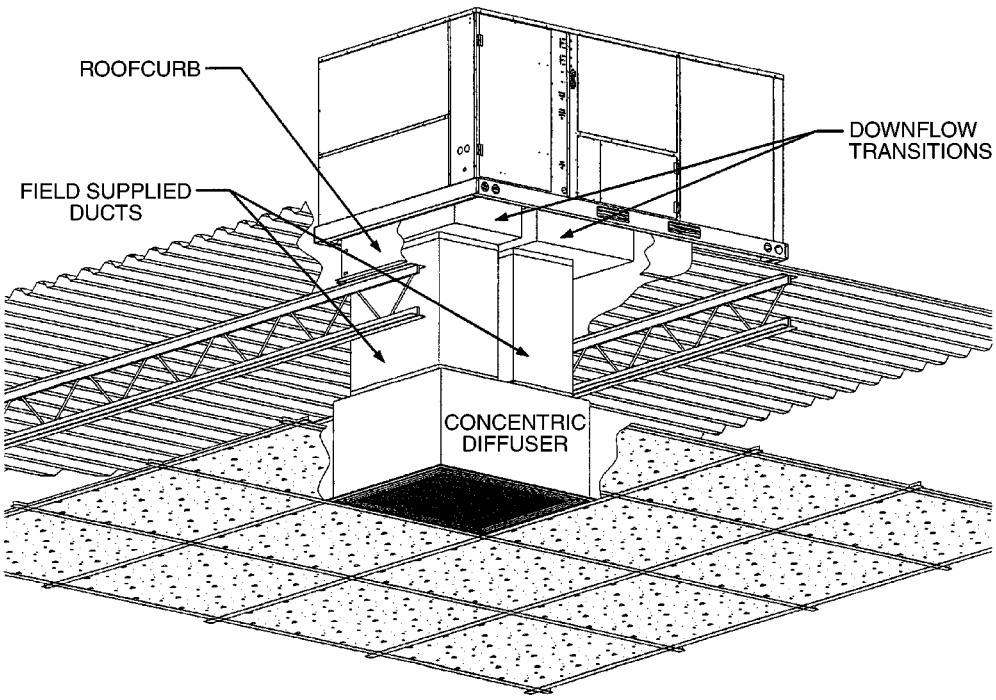


SUPPLY AIR TRANSITION



RETURN AIR TRANSITION

CONCENTRIC DIFFUSER APPLICATION

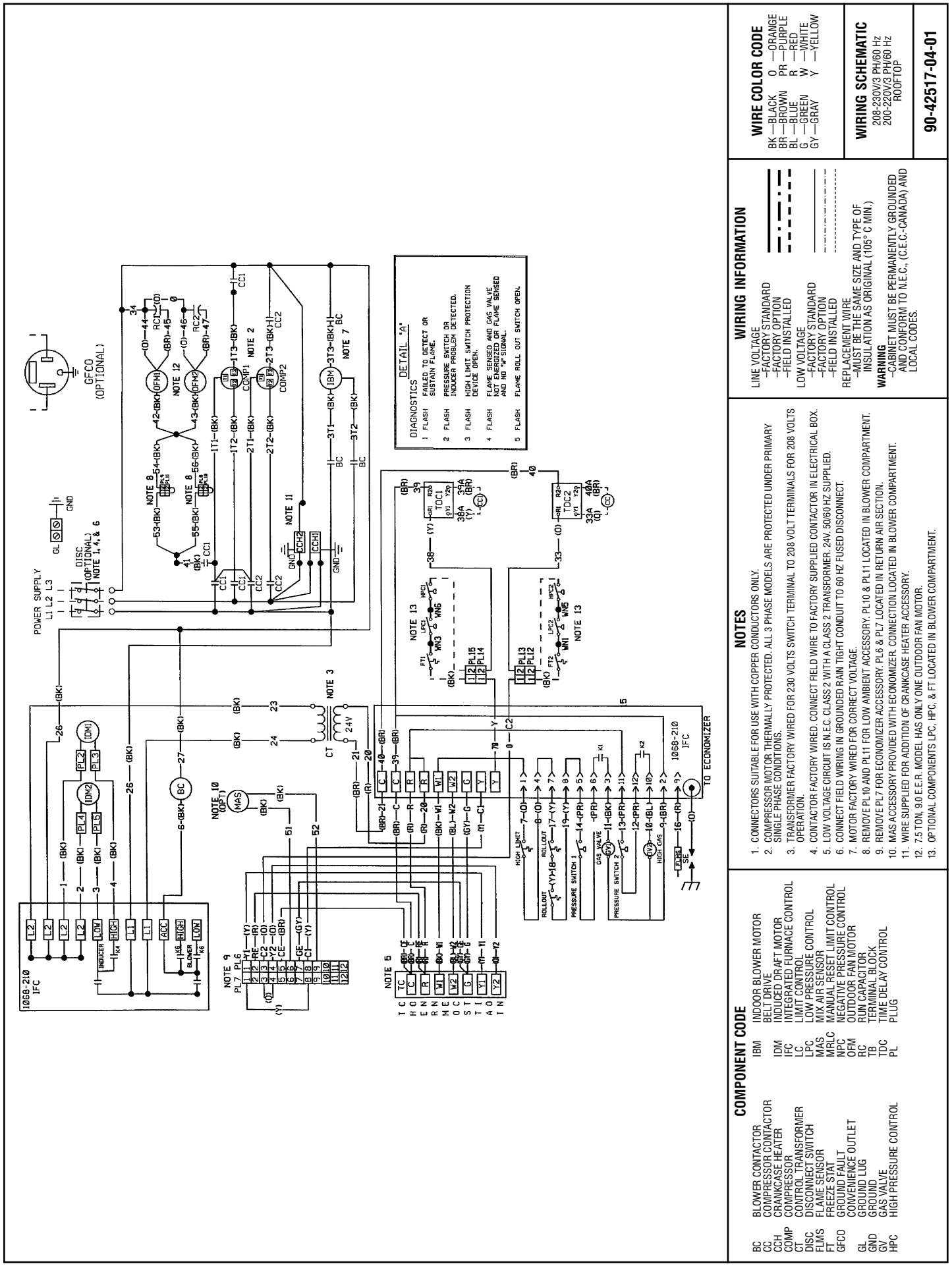


ROOFCURB ADAPTERS

Old Models	OLD CURB MODEL	ROOFCURB ADAPTER	NEW MODEL
COMMERCIAL PACKAGE UNIT (7.5 TON [26 kW]) (-)RCF, (-)REF, (-)RGF-076	RXRK-E50	RXRX-CDCE50	(-)JKB, (-)KKB, (-)LKB-A090
COMMERCIAL PACKAGE UNIT (8.5 TON [29.5 kW]) (-)RCF, (-)REF, (-)RGF-085	RXRK-E54	RXRX-CFCE54	(-)KKB, (-)LKB-A102
COMMERCIAL PACKAGE UNIT (10.0 TON [34.7 kW]) (-)RCF, (-)REF, (-)RGF-100	RXRK-E54	RXRX-CFCE54	(-)JKB, (-)KKB, (-)LKB-A120
COMMERCIAL PACKAGE UNIT (12.5 TON [43.3 kW]) (-)RCF, (-)REF, (-)RGF-125	RXRK-E56	RXRX-CFCE56	(-)KKB, (-)LKB-A150

[ ] Designates Metric Conversions

TYPICAL WIRING SCHEMATICS



COMPONENT CODE

BC	BLOWER CONTACTOR	IBM INDOOR BLOWER MOTOR
CC	COMPRESSOR CONTACTOR	BELT DRIVE
CCH	CRANKCASE HEATER	IDM INDUCED DRAFT MOTOR
COMP	COMPRESSOR	IFC INTEGRATED FURNACE CONTROL
CT	CONTROL TRANSFORMER	LC LIMIT CONTROL
DISC	DISCONNECT SWITCH	LPC LOW PRESSURE CONTROL
FLMS	FLAME SENSOR	MAS MIX AIR SENSOR
FT	FREEZE STAT	MRLC MANUAL RESET LIMIT CONTROL
GFCO	GROUND FAULT	NPC NEGATIVE PRESSURE CONTROL
	CONVENIENCE OUTLET	OFM OUTDOOR FAN MOTOR
GL	GROUND LUG	RC RUN CAPACITOR
GND	GROUND	TB TERMINAL BLOCK
GV	GAS VALVE	TDC TIME DELAY CONTROL
HPC	HIGH PRESSURE CONTROL	PL PLUG

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3. TRANSFORMER FACTORY WIRED FOR 230 VOLTS SWITCH TERMINAL TO 208 VOLT TERMINALS FOR 208 VOLTS OPERATION.
4. CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
5. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER. 24V, 50/60 HZ SUPPLIED.
6. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
7. MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
8. REMOVE PL10 AND PL11 FOR LOW AMBIENT ACCESSORY. PL10 & PL11 LOCATED IN BLOWER COMPARTMENT.
9. REMOVE PL7 FOR ECONOMIZER ACCESSORY. PL6 & PL7 LOCATED IN RETURN AIR SECTION.
10. MAS ACCESSORY PROVIDED WITH ECONOMIZER. CONNECTION LOCATED IN BLOWER COMPARTMENT.
11. WIRE SUPPLIED FOR ADDITION OF CRANKCASE HEATER ACCESSORY.
12. 7.5 TON, 9.0 E.E.R. MODEL HAS ONLY ONE OUTDOOR FAN MOTOR.
13. OPTIONAL COMPONENTS LPC, HPC, & FT LOCATED IN BLOWER COMPARTMENT.

WIRING INFORMATION

LINE VOLTAGE
–FACTORY STANDARD
–FACTORY OPTION
–FIELD INSTALLED

LOW VOLTAGE
–FACTORY STANDARD
–FACTORY OPTION
–FIELD INSTALLED

REPLACEMENT WIRE
–MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105° C MIN.)

WARNING
–CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C., (C.E.C.: CANADA) AND LOCAL CODES.

WIRE COLOR CODE

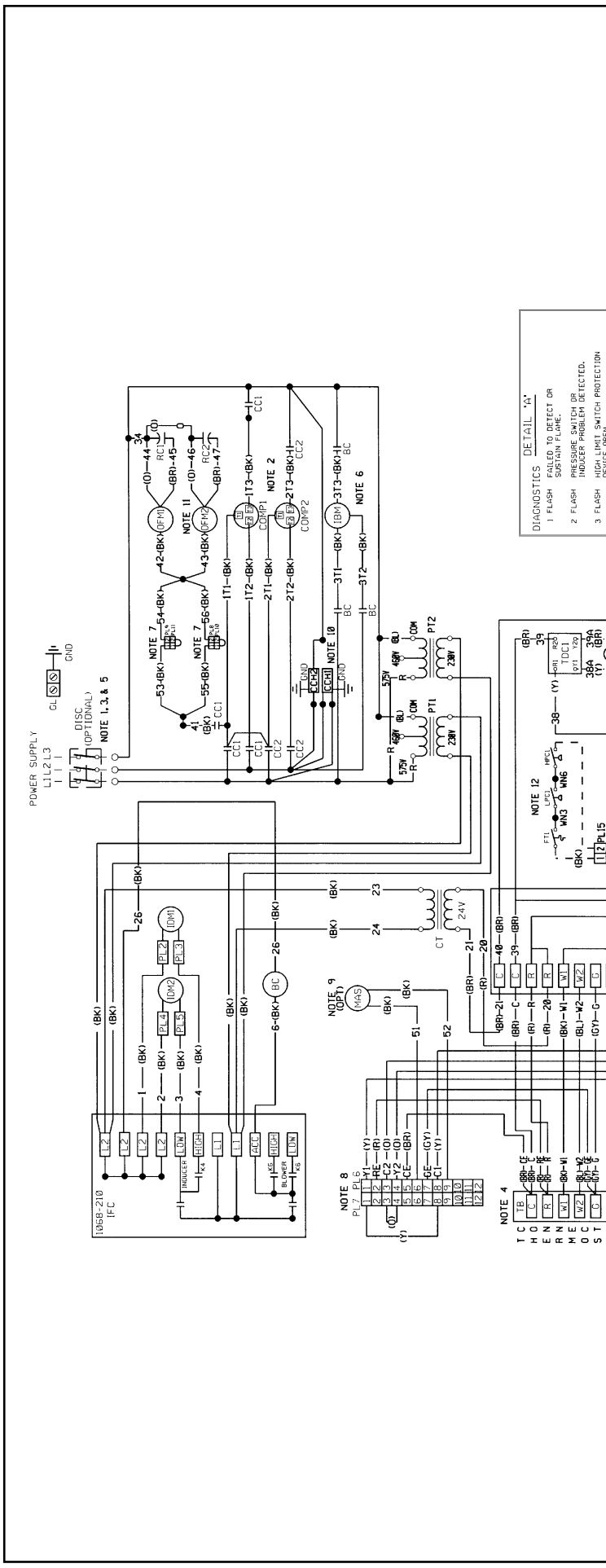
BK	—BLACK	O	—ORANGE
BR	—BROWN	PR	—PURPLE
BL	—BLUE	R	—RED
G	—GREEN	W	—WHITE
GY	—GRAY	Y	—YELLOW

WIRING SCHEMATIC

208-230V/3 PH/60 Hz
200-220V/3 PH/60 Hz
ROOFTOP

90-42517-04-01

TYPICAL WIRING SCHEMATICS



COMPONENT CODE

BC	BLOWER CONTACTOR	IBM INDOOR BLOWER MOTOR
CC	COMPRESSOR CONTACTOR	BELT DRIVE
CCH	CRANKCASE HEATER	IDM INDUCED DRAFT MOTOR
COMP	COMPRESSOR	IFC INTEGRATED FURNACE CONTROL
CT	CONTROL TRANSFORMER	LC LIMIT CONTROL
DISC	DISCONNECT SWITCH	LPC LOW PRESSURE CONTROL
FLMS	FLAME SENSOR	MAS MIX AIR SENSOR
FT	FREEZE STAT	MRLC MANUAL RESET LIMIT CONTROL
GFCO	GROUND FAULT CONVENIENCE OUTLET	NPC NEGATIVE PRESSURE CONTROL
GL	GROUND LUG	OFM OUTDOOR FAN MOTOR
GND	GROUND	RC RUN CAPACITOR
GV	GAS VALVE	TB TERMINAL BLOCK
HPC	HIGH PRESSURE CONTROL	TDC TIME DELAY CONTROL
		PL PLUG

NOTES

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3. CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
4. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER. 24V, 50/60 HZ SUPPLIED.
5. CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
6. MOTOR FACTORY WIRED FOR CORRECT VOLTAGE.
7. REMOVE PL10 AND PL11 FOR LOW AMBIENT ACCESSORY. PL10 & PL11 LOCATED IN BLOWER COMPARTMENT.
8. REMOVE PL7 FOR ECONOMIZER ACCESSORY. PL6 & PL7 LOCATED IN RETURN AIR SECTION.
9. MAS ACCESSORY PROVIDED WITH ECONOMIZER. CONNECTION LOCATED IN BLOWER COMPARTMENT.
10. WIRE SUPPLIED FOR ADDITION OF CRANKCASE HEATER ACCESSORY.
11. 75 TON, 9.0 E.E.R. MODEL HAS ONLY ONE OUTDOOR FAN MOTOR.
12. OPTIONAL COMPONENTS LPC, HPC, & FT LOCATED IN BLOWER COMPARTMENT.
13. ON 380/415 VOLT UNITS, P11 & P12 ARE WIRED FOR 415 VOLT OPERATION. USE 380V PRIMARY LEAD FOR 380V OPERATION.

WIRING INFORMATION

LINE VOLTAGE
–FACTORY STANDARD
–FACTORY OPTION
–FIELD INSTALLED

LOW VOLTAGE
–FACTORY STANDARD
–FACTORY OPTION
–FIELD INSTALLED

REPLACEMENT WIRE
–MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105° C MIN.)

WARNING
–CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C., (C.E.C.-CANADA) AND LOCAL CODES.

WIRE COLOR CODE

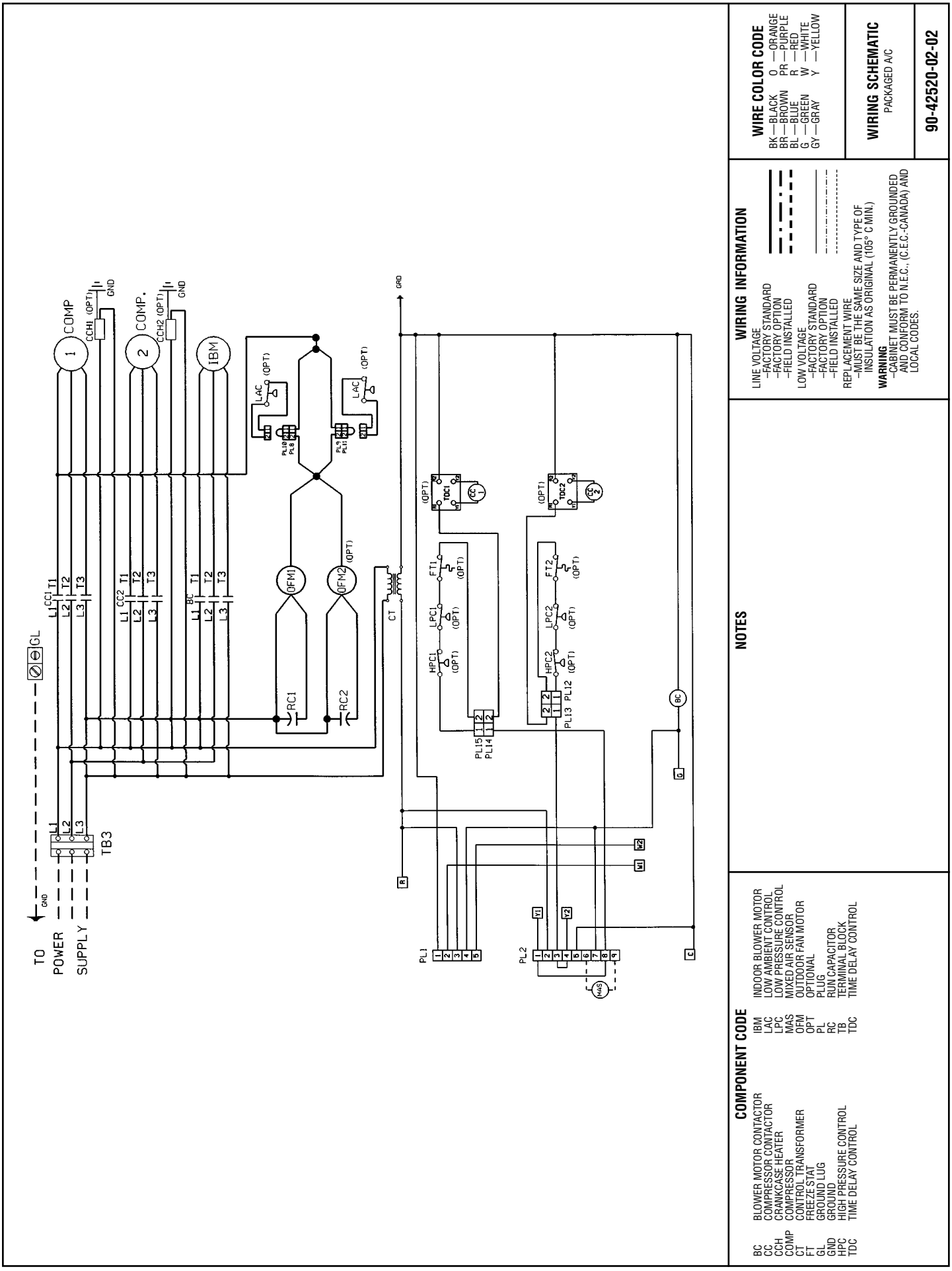
BK	—BLACK	O	—ORANGE
BR	—BROWN	PR	—PURPLE
BL	—BLUE	R	—RED
G	—GREEN	W	—WHITE
GY	—GRAY	Y	—YELLOW

WIRING SCHEMATIC

460V/3 PH/60 Hz
575V/3 PH/60 Hz
380-415V/3 PH/50 Hz
ROOFTOP

90-42517-06-02

TYPICAL WIRING SCHEMATICS



COMPONENT CODE

BC	BLOWER MOTOR CONTACTOR	IBM	INDOOR BLOWER MOTOR
CC	COMPRESSOR CONTACTOR	LAC	LOW AMBIENT CONTROL
CCH	CRANKCASE HEATER	LPC	LOW PRESSURE CONTROL
COMP	COMPRESSOR	MAS	MIXED AIR SENSOR
CT	CONTROL TRANSFORMER	OFM	OUTDOOR FAN MOTOR
FT	FREEZE STAT	OPT	OPTIONAL
GL	GROUND LUG	PL	PLUG
GND	GROUND	RC	RUN CAPACITOR
HPC	HIGH PRESSURE CONTROL	TB	TERMINAL BLOCK
TDC	TIME DELAY CONTROL	TDC	TIME DELAY CONTROL

NOTES

WIRING INFORMATION

LINE VOLTAGE
–FACTORY STANDARD
–FACTORY OPTION
–FIELD INSTALLED

LOW VOLTAGE
–FACTORY STANDARD
–FACTORY OPTION
–FIELD INSTALLED

REPLACEMENT WIRE
–MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105° C MIN.)

WARNING
–CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C., (C.E.C.-CANADA) AND LOCAL CODES.

WIRE COLOR CODE

BK	BLACK	O	ORANGE
BR	BROWN	PR	PURPLE
BL	BLUE	R	RED
G	GREEN	W	WHITE
GY	GRAY	Y	YELLOW

WIRING SCHEMATIC
PACKAGED A/C

90-42520-02-02

THERMOSTATS GAS/ELECTRIC

RECOMMENDED THERMOSTATS WITH AND W/O ECONOMIZER

Two Stage Cool/Two Stage Heat	Part No.
Robertshaw – Model #09710	41-32971-01
Honeywell – Model #T874D1959	41-21444-01
White Rodgers – Model #1F91-7	41-21015-04

SAMPLE SPECIFICATIONS

Unit shall be completely factory assembled and performance tested to provide the required cooling and heating functions suitable for outdoor installations. Unit shall be UL/cUL listed and rated in accordance to ARI Standard 210/240.

CABINET
Unit casing, outdoor base pan and framework shall be manufactured of galvanized sheet metal primed and finished with powder paint capable of withstanding a 1000-hour salt spray test per ASTM B 117. Unit interior cabinet surfaces shall be insulated with a minimum 1/2-inch thick foil faced insulation. Access panels shall be easily removable providing access to the blower, filter, heating compartment, compressor and control box. Unit base rails shall be provided with fork insertion slots and rigging holes. Condensate drain pan shall be of sloped design to conform to ASHRAE 62. Unit shall be supplied ready for vertical airflow and be easily convertible to horizontal airflow at or before installation.

COMPRESSOR(S)
Unit shall be provided with two (2) fully hermetic scroll compressors with internally protected safety controls. Two stage cooling shall be provided.

COILS
The evaporator and condenser coils shall be fabricated of copper tubes with mechanically bonded aluminum plate fins. They shall be pressure tested prior to assembly into the unit, and electronically leak tested after assembly.

CONDENSER FAN(S)
Direct drive propeller fan(s) shall discharge air vertically upward. The fan motor(s) shall be permanently lubricated and have built-in overload protection.

EVAPORATOR BLOWER
A single, double inlet, centrifugal wheel shall rotate in permanently lubricated ball bearings. The wheel shall be made from steel with corrosion resistant finish and shall be statically and dynamically balanced.

HEATING SECTION
Heat exchanger shall be of the tubular type made of aluminized steel. Burners shall be of the in-shot type. Unit shall be equipped with an integrated direct spark ignition control board with built-in diagnostics feature. Safeties to include limit, lockout, and flame roll-out switches. 81% A.F.U.E., steady state efficiency at high and low burn shall be provided.

TESTING
All rooftop units shall be fully run-tested at the factory prior to shipment. This run-test procedure shall include stage 1 and stage 2 operation of cooling and heating modes. All factory wiring shall be fully verified.

ACCESSORIES

ROOF CURB
Curb shall be full perimeter type, complying with the standards of the National Roofing Contractors Association. Design shall provide for drop-in of supply and return ducts prior to setting unit.

ECONOMIZER
Economizer shall be completely assembled for field installation. Unit shall include all controls and dampers including the barometric relief damper. Shall be offered for vertical applications.

MANUAL FRESH AIR DAMPER
Damper shall consist of damper and rainhood which is manually preset to admit up to 35% of outside air for field installation.

MOTORIZED FRESH AIR DAMPER
Damper shall consist of motor, damper, and rainhood which can admit up to 35% of outside air for field installation.

PRESSURE CONTROLS
High and low pressure controls shall be included for field or factory installation.

LOW AMBIENT CONTROL
Low ambient control shall be provided to cycle the condenser fan in response to condensing pressure and allow operation to 0 degrees F. The option shall be field or factory installed.

TIME DELAY CONTROL
Time delay control shall be provided to prevent the compressor from restarting 5 minutes after shutdown. The control shall be field or factory installed.

LOUVER PANEL KITS
Field or factory installed louver kits shall be provided for condenser coil protection against hail or flying debris.

NOTES

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.

RHEEM
AIR CONDITIONING
DIVISION

5600 Old Greenwood Road, Fort Smith, Arkansas 72908

"In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice."

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