



RGW037-061 Ultra Low NOx Single Packaged Rooftop

SINGLE PACKAGE ROOFTOP UNITS WITH X-VANE FAN TECHNOLOGY, ULTRA LOW NOX (14 NG/J) EMISSIONS, GAS HEAT/ELECTRIC COOLING, 3 TO 5 TON

The 3 to 5 ton RGW037-061 Ultra Low NOx rooftop units (RTU) with X-Vane Fan Technology and Ultra Low NOx Gas heating were designed by customers for customers and integrate new technology to provide value added benefits never seen in this type of equipment before.

New major design features include:

- Patented, industry's first efficient indoor fan system using Vane Axial fan technology with electronically commutated variable speed motor.
- Our exclusive Ultra Low NOx gas heat emissions burner box and heat exchanger design that provides 14 nanograms/joule (ng/j) operation.
- Reliable 2 stage scroll compressor on all sizes.
- Upgraded unit control board with intuitive indoor fan adjustment.
- Reliable copper tube/aluminum fin condenser coil with 5/16 in. tubing to help reduce refrigerant charge versus prior designs.
- New outdoor fan system with rugged — lightweight high impact composite fan blade.



RGW037-061 Ultra Low NOx

X-Vane Fan™

These RGW037-061 Ultra Low NOx units up to 5 tons are specifically designed to fit on our roof curbs that were installed back to 1989, which makes replacement easy and eliminates the need for curb adapters or changing utility connections.

Two-stage cooling capacity control delivers efficiencies of up to 17.4 SEER and 16.5 SEER2. All models are capable of either vertical or horizontal airflow.

The RGW037-061 Ultra Low NOx rooftop unit (RTU) was designed by customers for customers. With “no-strip” screw collars, handled access panels, and more, the unit is easy to install, easy to maintain, and easy to use. Your new 3 to 5 ton RGW037-061 Ultra Low NOx rooftop unit (RTU) provides optimum comfort and control from a packaged rooftop.

Installation ease

All RGW037-061 Ultra Low NOx units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected jobsite complications. Lighter units make for easy replacement. Simple, fast plug-in connections to the standard integrated unit control board (UCB). Clearly labeled connections points to reduce installation time. Also, a large control box provides room to work and room to mount our accessory controls.

Easy to maintain

With the new X-Vane vane axial fan system and direct drive ECM motor, there is no longer a need to adjust belts or pulleys as in past designs. This frees up maintenance and installation time.

Easy access handles provide quick and easy access to all normally serviced components. Our “no-strip” screw system has superior holding power and guides screws into position while preventing the screw from stripping the unit's metal.

Sloped, corrosion resistant composite drain pan sheds water; and won't rust.

Easy to use

The newly re-designed Unit Control Board puts all connections and troubleshooting points in one convenient place. Most low voltage connections are made to the same board and make it easy to access it. Setting up the fan is simple by an intuitive switch and rotary dial arrangement. Our rooftops have high and low pressure switches, a filter drier, and 2-in. filters standard. The new integrated gas control board operates an intelligent multi-speed gas heat inducer motor to help reduce the ultra-low NOx emissions.

NOTE: Units cannot operate with Liquid Propane (LP) gas.

NOTE: Units can operate from 0 to 2000 feet altitude only.

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Features/Benefits

Value-added features include:

- Optional Hot Gas Re-Heat dehumidification system for improved part load humidity performance.
- R-410A refrigerant.
- Single point gas and electrical connections.
- TXV refrigerant metering devices.
- 2 Stage Scroll compressors with internal line-break overload protection.
- Units come with an easy access tool-less filter door. Filter track tilts out for filter removal and replacement. All filters are the same size in each unit.

X-Vane Fan Technology

Direct drive X-Vane Fan Technology indoor fan system uses Vane Axial fan design and electrically commutated motors.

This new Vane Axial design over past belt drive systems has 75% fewer moving parts, uses up to 40% less energy and has no fan belts, blower bearings and shaft.

Streamlined control and integration

Our controllers make connecting RGW037-061 Ultra Low NOx rooftops into existing building automation systems easy. The units are compatible with conventional thermostat.

Operating efficiency and flexibility

The RGW037-061 Ultra Low NOx rooftops meet ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1-2016, IECC^{®1} (International Energy Conservation Code) IECC-2018 minimum efficiency requirements.

Field convertible airflow

All RGW037-061 Ultra Low NOx 3 to 5 ton units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected jobsite complications.

Comfort control

Our patented Hot Gas Re-Heat dehumidification system is an all-inclusive factory-installed option on gas heating/electric cooling and electric cooling/electric heat models. This system provides reliable, flexible operation to meet indoor part load sensible and latent requirements.

1. Third-party trademarks and logos are the property of their respective owners.

Model number nomenclature

RGW037-061 Ultra Low NOx Model Number Nomenclature

MODEL SERIES	R	G	W	0	6	1	L	G	D	A	0	A	A	A
Position Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14
R = Rooftop														
G = Gas Heat / Electric Cooling	Type													
W= 16 SEER Efficiency	High Efficiency													
037 = 36,000 BTUH = 3 Tons SEER2 049 = 48,000 BTUH = 4 Tons SEER2 061 = 60,000 BTUH = 5 Tons SEER2	Nominal Cooling Capacity													
K = 208/230-1-60 ¹ H = 208/230-3-60 L = 460-3-60	Voltage													
G = Ultra Low NOx, Low Heat H = Ultra Low NOx, Medium Heat	Heating Capacity													
D = Direct Drive X-Vane™ Fan – Standard Static E = Direct Drive X-Vane Fan – High Static F = Direct Drive X-Vane Fan – Medium Static G = Direct Drive X-Vane Fan – High Static with Hot Gas Re-Heat ²	Motor Option (Indoor Fan)													
A = None B = Economizer with Barometric relief, OA Temp sensor E = Economizer with Barometric relief + CO ₂ sensor, OA Temp sensor H = Economizer with Barometric relief, enthalpy sensor L = Economizer with Barometric relief + CO ₂ sensor, enthalpy sensor U = Temp Ultra Low Leak Economizer with Barometric relief W = Enthalpy Ultra Low Leak Economizer with Barometric relief	Outdoor Air Options / Control													
0A = No Options 4B = Non Fused Disconnect Switch ³ AA = Hinged Access Panels AT = Un-Powered Convenience Outlet BB = Powered Convenience Outlet BP = Return Air Smoke Detector BR = Supply Air Smoke Detector CJ = Condensate Overflow Switch	Factory Installed Options⁴													
A = Aluminum / Copper Cond & Evap Coil B = Precoat Alum/Copper Cond with Alum / Copper Evap (3 phase only) C = E-Coated Alum/Copper Cond with Alum / Copper Evap (3 phase only) D = E-Coated Alum / Copper Cond & Evap (3 phase only) E = Copper/Copper Cond & Alum/Copper Evap (3 phase only) F = Copper/Copper Cond & Evap (3 phase only)	Condenser / Evaporator Coil Configuration													
A = Standard Controls For All Field-Installed Economizers B = Factory-Installed EconoMi\$er® X with W7220 Economizer Controller C = Factory-Installed EconomizerONE with POL224 Economizer Controller	Economizer Control													

¹ Factory-installed options are NOT available on single phase models. This includes economizers.

² Hot Gas Re-Heat system includes Low Ambient controller.

³ Non-Fused Disconnect is not available for 460-3-60 voltage (-L voltage code) models.

⁴ Combinations of factory-installed options are available. Contact your sales representative for details.

Capacity ratings

RGW037-061K Ultra Low NOx 1-Phase AHRI Rating^{a,b,c,d}

UNIT	VOLTAGE	COOLING STAGES	NOMINAL CAPACITY (tons)	NET COOLING CAPACITY 2 (MBtuh)	TOTAL POWER (kW)	SEER2	EER2
RGW037K	208/230-1-60	2	3	35.0	2.9	16.0	12.0
RGW049K	208/230-1-60	2	4	46.5	3.9	16.0	12.0
RGW061K	208/230-1-60	2	5	59.0	4.9	16.5	12.0

NOTE(S):

- Rated in accordance with AHRI Standards 210/240.
- Rating are based on:
Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.
- Units comply with ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) and DOE-2023 (Department of Energy) Energy Standard for minimum SEER2 and EER2 requirements.
- RGW037-061 Ultra Low NOx units comply with US Energy Policy Act (2005). To evaluate code compliance requirements, refer to state and local codes.

RGW037-061(H/L) Ultra Low NOx 3-Phase AHRI Rating^{a,b,c,d}

UNIT	VOLTAGE	COOLING STAGES	NOMINAL CAPACITY (TONS)	NET COOLING CAPACITY (MBtuh)	TOTAL POWER (kW)	SEER	EER
RGW037(H/L)	208/230,460-3-60	2	3	36.0	2.8	17.4	12.8
RGW049(H/L)	208/230,460-3-60	2	4	48.0	3.8	17.4	12.8
RGW061(H/L)	208/230,460-3-60	2	5	59.5	4.6	17.4	12.8

UNIT	NET COOLING CAPACITY 2 (MBtuh)	TOTAL POWER 2 (kW)	SEER 2	EER2
RGW037(H/L)	35.0	2.9	16.0	12.0
RGW049(H/L)	46.5	3.9	16.0	12.0
RGW061(H/L)	59.0	4.9	16.5	12.0

NOTE(S):

- Rated in accordance with AHRI Standards 210/240.
- Rating are based on:
Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.
- Units comply with ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) requirements, as well as DOE-2018 (Department of Energy) Energy Standard for minimum SEER and EER requirements or DOE-2023 Energy Standards for minimum SEER2 and EER2 requirements.
- RGW037-061 Ultra Low NOx units comply with US Energy Policy Act (2005). To evaluate code compliance requirements, refer to state and local codes.

LEGEND

- AHRI** — Air-Conditioning, Heating and Refrigeration Institute
EER — Energy Efficiency Ratio
MBtuh — Btuh in thousands
SEER — Seasonal Energy Efficiency Ratio



Capacity ratings (cont)

Sound Ratings Table

UNIT	COOLING STAGES	OUTDOOR SOUND (dB) AT 60 Hz ^{a,b}								
		A-WEIGHTED ^c	63	125	250	500	1000	2000	4000	8000
RGW037	2	75.4	81.8	81.8	77.0	72.6	69.9	64.6	59.3	55.6
RGW049	2	79.0	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
RGW061	2	79.0	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3

NOTE(S):

- Outdoor sound data is measured in accordance with AHRI.
- Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environmental factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
- A-weighted sound ratings filter out very high and very low frequencies, to better approximate the response of "average" human ear. A-weighted measurements for our units are taken in accordance with AHRI.

LEGEND

dB — Decibel

Minimum - Maximum Airflow Ratings (cfm) — Natural Gas

UNIT	VOLTAGE	HEAT LEVEL	COOLING				ULTRA LOW NO _x HEATING	
			Minimum Airflow (cfm)	Minimum 2-Speed Airflow (low speed)	Minimum 2-Speed Airflow (high speed)	Maximum Airflow (cfm)	Minimum Cooling Airflow at 300 cfm/ton	Maximum Cooling Airflow at 500 cfm/ton
RGW037	1-phase	LOW	900	675	900	1500	900	1500
		MED					1030	1500
	3-phase	LOW	900	675	900	1500	900	1500
		MED					1030	1500
RGW049	1-phase	LOW	1200	900	1200	2000	1200	2000
		MED					1200	2000
	3-phase	LOW	1200	900	1200	2000	1200	2000
		MED					1200	2000
RGW061	1-phase	LOW	1500	1125	1500	2500	1500	2500
		MED					1500	2500
	3-phase	LOW	1500	1125	1500	2500	1500	2500
		MED					1500	2500

Heat Rating Table — Ultra Low NO_x Natural Gas

UNIT	NOM. V-Ph-Hz	HEAT LEVEL	SS HEAT EXCHANGER	TEMPERATURE RISE (°F)	THERMAL EFFICIENCY (%)	AFUE EFFICIENCY (%)
			INPUT/OUTPUT STAGE 1 (MBtuh)			
RGW037K	208/230-1-60	LOW	60/49	20-50	81	82
		MED	82/66	20-60	81	81
RGW049K	208/230-1-60	LOW	60/49	20-50	81	82
		MED	82/66	20-60	81	81
RGW061K	208/230-1-60	LOW	60/49	15-45	81	82
		MED	82/66	20-60	81	81
RGW037(H/L)	208/230-3-60, 460-3-60	LOW	60/49	20-50	81	—
		MED	82/66	20-60	81	81
RGW049(H/L)	208/230-3-60, 460-3-60	LOW	60/49	20-50	81	—
		MED	82/66	20-60	81	81
RGW061(H/L)	208/230-3-60, 460-3-60	LOW	60/49	15-45	81	—
		MED	82/66	20-60	81	81

LEGEND

AFUE — Annual Fuel Utilization Efficiency

MBtuh — Btuh in thousands

Physical data

RGW037/049/061 Ultra Low NOx — 3 to 5 Ton Physical Data

UNIT	RGW037* (G/H)(D/E/F)	RGW037(H/L) (G/H)G	RGW049* (G/H)(D/E/F)	RGW049(H/L) (G/H)G	RGW061* (G/H)(D/E/F) ^a	RGW061(H/L) (G/H)G ^a
NOMINAL TONS	3	3	4	4	5	5
BASE UNIT OPERATING WT (lb)^b	513	513	555	555	600	600
REFRIGERATION SYSTEM						
Number of Circuits / Number of Comp. / Type	1 / 1 / 2-Stage Scroll	1 / 1 / 2-Stage Scroll	1 / 1 / 2-Stage Scroll	1 / 1 / 2-Stage Scroll	1 / 1 / 2-Stage Scroll	1 / 1 / 2-Stage Scroll
R-410A Charge A/B (lb-oz)	8-4	—	9-0	—	11-0	—
Hot Gas Re-Heat R-410A Charge A/B (lb-oz)	—	11-3	—	12-12	—	18-0
Metering Device	TXV	—	TXV	—	TXV	—
Hot Gas Re-Heat Metering Device	—	TXV	—	TXV	—	TXV
High-Pressure Trip / Reset (psig)	630 / 505	630 / 505	630 / 505	630 / 505	630 / 505	630 / 505
Low-Pressure Trip / Reset (psig)	54 / 117	27 / 44	54 / 117	27 / 44	54 / 117	27 / 44
EVAPORATOR COIL						
Material (Tube / Fin)	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al
Coil Type (in. RTPF)	3/8	3/8	3/8	3/8	3/8	3/8
Rows / FPI	2 / 15	2 / 15	4 / 15	4 / 15	4 / 15	4 / 15
Total Face Area (ft ²)	5.5	5.5	5.5	5.5	7.3	7.3
Condensate Drain Connection Size (in.)	3/4	3/4	3/4	3/4	3/4	3/4
CONDENSER COIL						
Material (Tube / Fin)	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al	Cu/Al
Coil Type (in. RTPF)	5/16	5/16	5/16	5/16	5/16	5/16
Rows / FPI	2 / 18	2 / 18	2 / 18	2 / 18	2 / 18	2 / 18
Total Face Area (ft ²)	11.7	11.7	15.9	15.9	18.8	18.8
HOT GAS RE-HEAT COIL						
Material (Tube / Fin)	—	Cu/Al	—	Cu/Al	—	Cu/Al
Coil Type (in. RTPF)	—	3/8	—	3/8	—	3/8
Rows / FPI	—	1 / 17	—	2 / 17	—	2 / 17
Total Face Area (ft ²)	—	4.1	—	4.1	—	5.5
EVAPORATOR FAN / MOTOR						
Standard Static						
Motor Qty / Drive Type	1 / Direct	—	1 / Direct	—	1 / Direct	—
Max Cont bhp	0.44	—	0.72	—	1.06	—
Rpm Range	189 - 1890	—	190 - 1900	—	215 - 2150	—
Fan Qty / Type	1 / Vane Axial	—	1 / Vane Axial	—	1 / Vane Axial	—
Fan Diameter (in.)	16.6	—	16.6	—	16.6	—
Medium Static						
Motor Qty / Drive Type	1 / Direct	—	1 / Direct	—	1 / Direct	—
Max Cont bhp	0.71	—	1.06	—	1.44	—
Rpm Range	219 - 2190	—	217 - 2170	—	239 - 2390	—
Fan Qty / Type	1 / Vane Axial	—	1 / Vane Axial	—	1 / Vane Axial	—
Fan Diameter (in.)	16.6	—	16.6	—	16.6	—
High Static						
Motor Qty / Drive Type	1 / Direct	1 / Direct	1 / Direct	1 / Direct	1 / Direct	1 / Direct
Max Cont bhp	1.07	1.07	1.53 / 1.96 ^c	1.96	2.43	2.43
Rpm Range	249 - 2490	249 - 2490	266 - 2660	266 - 2660	284 - 2836	284 - 2836
Fan Qty / Type	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial
Fan Diameter (in.)	16.6	16.6	16.6	16.6	16.6	16.6

Physical data (cont)

RGW037/049/061 Ultra Low NOx — 3 to 5 Ton Physical Data (cont)

UNIT	RGW037* (G/H)(D/E/F)	RGW037(H/L) (G/H)G	RGW049* (G/H)(D/E/F)	RGW049(H/L) (G/H)G	RGW061* (G/H)(D/E/F) ^a	RGW061(H/L) (G/H)G ^a
CONDENSER FAN / MOTOR						
Qty / Motor Drive Type	1 / Direct	1 / Direct	1 / Direct	1 / Direct	1 / Direct	1 / Direct
Motor hp / rpm	1/3 / 1000/800	1/3 / 1000/800	1/3 / 1000/800	1/3 / 1000/800	1/3 / 1000/1000	1/3 / 1000/1000
Low Ambient rpm (<35°F)	250	250	250	250	250	250
Hot Gas Re-Heat rpm (>55°F/ <50°F)	—	1000 / 250	—	1000 / 250	—	1000 / 250
Fan Diameter (in.)	23.0	23.0	23.0	23.0	23.0	23.0
FILTERS						
Return Air Filter Number / size (in.)	2 / 16 x 25 x 2	2 / 16 x 25 x 2	2 / 16 x 25 x 2	2 / 16 x 25 x 2	4 / 16 x 16 x 2	4 / 16 x 16 x 2
Outside Air Inlet Screen Number / size (in.)	1 / 20 x 24 x 1	1 / 20 x 24 x 1	1 / 20 x 24 x 1	1 / 20 x 24 x 1	1 / 20 x 24 x 1	1 / 20 x 24 x 1

NOTE(S):

- For size 061, high static is not available for single-phase units.
- Base unit operating weight does not include weight of options.
- The left value applies to units with single-phase voltage, and the right value applies to units with three-phase voltage.

LEGEND

bhp	—	Brake Horsepower
FPI	—	Fins Per Inch
OA	—	Outdoor Air
RA	—	Return Air

Physical data (cont)

RGW037/049/061K Ultra Low NOx — 3 to 5 Ton Gas Heat Data — 1-Phase Units

UNIT	RGW037K(G/H)	RGW049K(G/H)	RGW061K(G/H)
GAS CONNECTION			
No. of Gas Valves	1	1	1
Natural Gas Supply Line Pressure (in. wg [psig])	5-13 [0.18-0.47]	5-13 [0.18-0.47]	5-13 [0.18-0.47]
HEAT ANTICIPATOR SETTING (AMPS)			
	0.14	0.14	0.14
NATURAL GAS HEAT			
LOW			
No. of Stages / No. of Burners (total)	1 / 1	1 / 1	1 / 1
Connection Size	1/2-in. NPT	1/2-in. NPT	1/2-in. NPT
Burner Thermal Switch Opens / Closes (°F)	350 / 301	350 / 301	350 / 301
Temperature Rise (°F)	20-50	20-50	15-45
MEDIUM			
No. of Stages / No. of Burners (total)	1 / 1	1 / 1	1 / 1
Connection Size	1/2-in. NPT	1/2-in. NPT	1/2-in. NPT
Burner Thermal Switch Opens / Closes (°F)	350 / 301	350 / 301	350 / 301
Temperature Rise (°F)	20-60	20-60	20-60

RGW037/049/061(H/L) Ultra Low NOx — 3 to 5 Ton Gas Heat Data — 3-Phase Units

UNIT	RGW037(H/L)(G/H)	RGW049(H/L)(G/H)	RGW061(H/L)(G/H)
GAS CONNECTION			
No. of Gas Valves	1	1	1
Natural Gas Supply Line Pressure (in. wg [psig])	5-13 [0.18-0.47]	5-13 [0.18-0.47]	5-13 [0.18-0.47]
HEAT ANTICIPATOR SETTING (AMPS)			
	0.14	0.14	0.14
NATURAL GAS HEAT			
LOW			
No. of Stages / No. of Burners (total)	1 / 1	1 / 1	1 / 1
Connection Size	1/2-in. NPT	1/2-in. NPT	1/2-in. NPT
Burner Thermal Switch Opens / Closes (°F)	350 / 301	350 / 301	350 / 301
Temperature Rise (°F)	20-50	20-50	15-45
MEDIUM			
No. of Stages / No. of Burners (total)	1 / 1	1 / 1	1 / 1
Connection Size	1/2-in. NPT	1/2-in. NPT	1/2-in. NPT
Burner Thermal Switch Opens / Closes (°F)	350 / 301	350 / 301	350 / 301
Temperature Rise (°F)	20-60	20-60	20-60

Options and accessories

ITEM	FACTORY-INSTALLED OPTION	FIELD-INSTALLED ACCESSORY
GAS HEAT — ULTRA LOW NOx WITH STAINLESS STEEL HEAT EXCHANGER		
Flue Discharge Deflector		X
CABINET		
Thru-the-Base Electrical or Gas-Line Connections		X
Hinged Access Panels	X	
COIL OPTIONS		
Cu/Cu Indoor and/or Outdoor Coils ^a	X	
Pre-Coated Outdoor Coils ^a	X	
Premium, E-coated Outdoor Coils ^a	X	
HUMIDITY CONTROL		
Hot Gas Re-Heat Dehumidification System ^a	X	
CONDENSER PROTECTION		
Condenser Coil Hail Guard (louvered design) ^a		X
CONTROLS		
Thermostats, Temperature Sensors, and Subbases		X
Smoke Detector (supply and/or return air)	X	
Horn Strobe Annunciator ^b		X
Time Guard II Compressor Delay Control Circuit		X
Phase Monitor		X
Condensate Overflow switch	X	X
FILTERS		
MERV-13 Return Air Filters		X
ECONOMIZERS AND OUTDOOR AIR DAMPERS		
EconomizerONE for Electromechanical Controls, complies with FDD (Standard and Ultra Low Leak damper models) ^{a,c}	X	X
Wi-Fi Stick for EconomizerONE (optional)		X
Motorized Two-Position Outdoor-Air Damper ^a		X
Manual Outdoor-Air Damper (25% and 50%)		X
Barometric Relief ^d	X	X
Power Exhaust — Prop Design		X

ITEM	FACTORY-INSTALLED OPTION	FIELD-INSTALLED ACCESSORY
ECONOMIZER SENSORS AND IAQ DEVICES		
Single Dry Bulb Temperature Sensors ^e	X	X
Differential Dry Bulb Temperature Sensors ^e		X
Single Enthalpy Sensors ^e	X	X
Differential Enthalpy Sensors ^e		X
CO ₂ Sensor (wall, duct, or unit mounted) ^e	X	X
INDOOR MOTOR AND DRIVE		
Multiple Motor and Drive Packages	X	
LOW AMBIENT CONTROL		
Winter Start Kit ^f		X
Low Ambient Controller to -20°F (-29°C) ^f		X
POWER OPTIONS		
Convenience Outlet (powered) ^a	X	
Convenience Outlet (unpowered)	X	X
Non-Fused Disconnect ^{g,h}	X	
ROOF CURBS		
Roof Curb 14 in. (356 mm)		X
Roof Curb 24 in. (610 mm)		X

NOTE(S):

- a. Not available as a factory-installed option on single-phase (-K voltage code) models. Use field-installed accessory where available.
- b. Requires a field-supplied 24-v transformer for each application. Contact your sales representative for details.
- c. FDD (Fault Detection and Diagnostic) capability per California Title 24 section 120.2.
- d. Included with economizer.
- e. Sensors used to optimize economizer performance.
- f. See application data for assistance.
- g. Non-fused disconnect switch cannot be used when unit electrical rating exceeds: 208/230-1-60 and 208/230-3-60 = 80 amps (FLA). Our equipment selection program automatically selects the amp limitations.
- h. Non-fused disconnect is not available on 460-3-60 voltage models.

Options and accessories (cont)

Factory-installed options

Economizer (dry-bulb or enthalpy)

Economizers save money. They bring in fresh, outside air for ventilation; and provide cool, outside air to cool your building. This is the preferred method of low-ambient cooling. When coupled to CO₂ sensors, economizers can provide even more savings by coupling the ventilation air to only that amount required.

Economizers are available, installed and tested by the factory, with either enthalpy or dry-bulb temperature inputs. Additional sensors are available as accessories to optimize the economizers. Economizers include a powered exhaust system to help equalize building pressures.

Economizers include gravity controlled barometric relief that helps equalize building pressure and ambient air pressures. This can be a cost effective solution to prevent building pressurization. Economizers are available in Ultra Low Leak and standard low leak versions. Economizers can be factory-installed or easily field-installed.

Unit mounted CO₂ sensor

The CO₂ sensor works with the economizer to intake only the correct amount of outside air for ventilation. As occupants fill your building, the CO₂ sensor detects their presence through increasing CO₂ levels, and opens the economizer appropriately. When the occupants leave, the CO₂ levels decrease, and the sensor appropriately closes the economizer. This intelligent control of the ventilation air, called demand controlled ventilation (DCV), reduces the overall load on the rooftop, saving money. It is also available as a field-installed accessory.

Smoke detector (supply and/or return air)

Smoke detectors make your application safer and your job easier. Our smoke detectors immediately shut down the rooftop unit when smoke is detected. They are available, installed by the factory, for supply air, return air, or both.

Optional Hot Gas Re-Heat dehumidification system

Our Hot Gas Re-Heat dehumidification system is an all-inclusive factory-installed option that can be ordered with any RGW037-061(H/L) Ultra Low NOx 3-phase rooftop units.

This system expands the envelope of operation of RGW037-061(H/L) Ultra Low NOx rooftop products to provide unprecedented flexibility to meet year round comfort conditions.

The Hot Gas Re-Heat dehumidification system has a unique dual operational mode setting. It provides greater dehumidification of the occupied space by 2 modes of dehumidification operations in addition to its normal design cooling mode.

The RGW037-061(H/L) Ultra Low NOx rooftop coupled with the Hot Gas Re-Heat dehumidification system is capable of operating in normal design cooling mode, sub-cooling mode, and hot gas reheat mode.

Normal design cooling mode is when the unit will operate under its normal sequence of operation by cycling compressors to maintain comfort conditions.

Sub-cooling mode will operate to satisfy part load type conditions when the space requires combined sensible and a higher proportion of latent load control.

Hot Gas Reheat mode will operate when outdoor temperatures diminish and the need for latent capacity is required for sole humidity control. Hot Gas Reheat mode will provide neutral air for maximum dehumidification operation.

NOTE: The Hot Gas Re-Heat dehumidification system includes Low Ambient controller.

Hinged access panels

Allows access to unit's major components with specifically designed hinged access panels. Panels are filter, control box access indoor fan motor access.

Cu/Cu (indoor) coils

Copper fins and copper tubes are mechanically bonded to copper tubes and copper tube sheets. A polymer strip prevents coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.

E-coated (outdoor and indoor) coils

A flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation of tubes, fins and headers.

Pre-coated outdoor coils

A durable epoxy-phenolic coating to provide protection in mildly corrosive coastal environments. The coating minimizes galvanic action between dissimilar metals. Coating is applied to the aluminum fin stock prior to the fin stamping process to create an inert barrier between the aluminum fin and copper tube.

Single enthalpy sensor

Prevents the wheel from rotating if the outside air conditions are acceptable for free cooling. Both exhaust and supply blowers will remain on.

Stainless steel heat exchanger (standard on all models)

The stainless steel heat exchanger provides the tubular heat exchanger be made out of a minimum 20 gauge type 409 stainless steel for applications where the mixed air to the heat exchanger is expected to drop below 45°F (7°C). Stainless steel may be specified on applications where the presence of airborne contaminants require its use (applications such as paper mills) or in area with very high outdoor humidity that may result in severe condensation in the heat exchanger during cooling operation.

Convenience outlet (powered or unpowered)

Reduce service and/or installation costs by including a convenience outlet in your specification. We will install this service feature at our factory. Provides a convenient, 15 amp, 115-v GFCI receptacle with "Wet in Use" cover. The "powered" option allows the installer to power the outlet from the line side of the disconnect or load side as required by code. The "unpowered" option is to be powered from a separate 115/120-v power source.

Options and accessories (cont)

The unpowered convenience outlet is available as a 15 amp factory-installed option or a 20 amp field-installed accessory.

Non-fused disconnect

This OSHA-compliant, factory-installed, safety switch allows a service technician to locally secure power to the rooftop. When selecting a factory-installed non-fused disconnect, note they are sized for the unit as ordered from the factory. The sizing of these do not accommodate field-installed items such as power exhaust devices, etc. If field installing electric heat with factory-installed, non-fused disconnect switch, a single point kit may or may not be required.

NOTE: Non-fused disconnect is not available for 460-3-60 voltage models.

Condensate overflow switch

This sensor and related controller monitors the condensate level in the drain pan and shuts down compression operation when overflow conditions occur. It includes:

- Indicator light — solid red (more than 10 seconds on water contact — compressors disabled), blinking red (sensor disconnected)
- 10-second delay to break — eliminates nuisance trips from splashing or waves in pan (sensor needs 10 seconds of constant water contact before tripping)
- Disables the compressor(s) operation when condensate plug is detected, but still allows fans to run for economizer.

Low ambient controller

The low ambient controller is a head pressure controller kit that is designed to maintain the unit's condenser head pressure during periods of low ambient cooling operation. This device should be used as an alternative to economizer free cooling when economizer usage is either not appropriate or desired. The low ambient controller will either cycle the outdoor fan motors or operate them at reduced speed to maintain the unit operation, depending on the model. This controller allows cooling operation down to -20°F (-29°C) ambient conditions.

Power exhaust with barometric relief

Superior internal building pressure control. This field-installed accessory may eliminate the need for costly, external pressure control fans.

Field-installed accessories

Filter maintenance indicator

When the optional factory-installed filter maintenance indicator is used, a factory-installed differential pressure switch measures pressure drop across the outside air filter and activates a field-supplied dry contact indicator when the pressure differential exceeds the adjustable switch setpoint.

Condenser coil hail guard

Sleek, louvered panels protect the condenser coil from hail damage, foreign objects, and incidental contact. This can be purchased as a factory-installed option or as a field-installed accessory.

Differential enthalpy sensor

The differential enthalpy sensor is comprised of an outdoor and return air enthalpy sensors to provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.

Wall or duct mounted CO₂ sensor

The IAQ sensor shall be available in duct or wall mount. The sensor provides demand ventilation indoor air quality (IAQ) control.

Flue discharge deflector

The flue discharge deflector is a useful accessory when flue gas recirculation is a concern. By venting the flue discharge upwards, the deflector minimizes the chance for a neighboring unit to intake the flue exhaust.

MERV-13 return air filters

This field-installed accessory upgrades the return air filters from standard unit filters to high efficiency MERV-13 filters. Non-woven MERV-13 filter media with high strength, moisture-resistant frame. Filter media is securely fastened inside the filter frame on all 4 sides.

Phase monitor protection

The Phase Monitor Control will monitor the sequence of 3-phase electrical system to provide a phase reversal protection; and monitor the 3-phase voltage inputs to provide a phase loss protection for the 3-phase device. It will work on either a Delta or Wye power connection.

Thru-the-base connections

Thru-the-base connections, available as a field-installed accessory, ensure a proper connection and seal when routing wire and piping through the rooftop's basepan and curb. These couplings eliminate roof penetration and should be considered for gas lines, main power lines, as well as control power.

Winter start kit

The winter start kit extends the low ambient limit of your rooftop to 25°F (-4°C). The kit bypasses the low pressure switch, preventing nuisance tripping of the low pressure switch. Other low ambient precautions may still be prudent.

Low ambient controller

The low ambient controller is a head pressure controller kit that is designed to maintain the unit's condenser head pressure during periods of low ambient cooling operation. This device should be used as an alternative to economizer free cooling when economizer usage is either not appropriate or desired. The low ambient controller will either cycle the outdoor fan motors or operate them at reduced speed to maintain the unit operation, depending on the model. This controller allows cooling operation down to -20°F (-29°C) ambient conditions.

Roof curb (14 in./356 mm or 24 in./610 mm)

Full perimeter roof curb with exhaust capability provides separate air streams for energy recovery from the exhaust air without supply air contamination.

Options and accessories (cont)

Condenser coil hail guard

Sleek, louvered panels protect the condenser coil from hail damage, foreign objects, and incidental contact.

Filter status indicator accessory

Monitors static pressure across supply and exhaust filters and provides indication when filters become clogged.

Power exhaust

Superior internal building pressure control. This field-installed accessory may eliminate the need for costly, external pressure control fans.

Manual OA damper

Manual outdoor air dampers are an economical way to bring in ventilation air. The dampers are available in 25% and 50% versions.

Motorized two-position damper

The two-position, motorized outdoor air damper admits up to 100% outside air. Using reliable, gear-driven technology, the two-position damper opens to allow ventilation air and closes when the rooftop stops, stopping unwanted infiltration.

Time Guard II control circuit

This accessory protects your compressor by preventing short-cycling in the event of some other failure, prevents the

compressor from restarting for 30 seconds after stopping. Not required with authorized commercial thermostats.

Wi-Fi Stick for EconomizerONE (optional)

The accessory Wi-Fi/WLAN stick can be connected to the EconomizerONE POL224 economizer controller via the USB host interface. The Wi-Fi stick enables a wireless connection to be made between a smartphone and the economizer controller via the Climatix™¹ mobile application for commissioning, troubleshooting, and maintenance operations. The Wi-Fi stick is required to utilize the mobile application.

Climatix™ mobile application

The Climatix™ mobile application offers a best-in-class user interface and a simple step-by-step commissioning workflow using a mobile device. The user interface walks users through the setup of the controller and allows users to view the operating mode and parameters. Users can adjust setpoints, initiate damper tests, and save the final configuration as a favorite to expedite setup in the future.

The application is available on Android™¹ and Apple iOS®¹ platforms. The Wi-Fi stick for the EconomizerONE is required to join the Siemens-WiFi-Stick network and setup the controller on a smartphone.

1. Third-party trademarks and logos are the property of their respective owners.

Options and accessories (cont)

Options and Accessory Weights^a

OPTION / ACCESSORY NAME	RGW037-061 Ultra Low NOx UNIT WEIGHT					
	037		049		061	
	lb	kg	lb	kg	lb	kg
Hot Gas Re-Heat Dehumidification System ^b	15	7	15	7	15	7
Power Exhaust — Vertical	51	23	51	23	51	23
Power Exhaust — Horizontal	39	18	39	18	39	18
EconomizerONE	51	23	51	23	51	23
Two-Position Damper	39	18	39	18	39	18
Manual Damper	12	5	12	5	12	5
Hail Guard (louvered)	13	6	13	6	13	6
Cu/Cu Condenser Coil	37	17	74	34	74	34
Cu/Cu Condenser and Evaporator Coils	75	34	112	51	112	51
Roof Curb (14 in. curb)	95	43	95	43	95	43
Roof Curb (24 in. curb)	150	68	150	68	150	68
CO ₂ Sensor	2	1	2	1	2	1
Flue Discharge Deflector	7	3	7	3	7	3
Optional Indoor Motor/Drive	10	5	10	5	10	5
Low Ambient Controller	9	4	9	4	9	4
Winter Start Kit	5	2	5	2	5	2
Return Air Smoke Detector	7	3	7	3	7	3
Supply Air Smoke Detector	7	3	7	3	7	3
Fan Filter Switch	2	1	2	1	2	1
Non-Fused Disconnect	15	7	15	7	15	7
Powered Convenience Outlet	36	16	36	16	36	16
Unpowered Convenience Outlet	4	2	4	2	4	2
Enthalpy Sensor	2	1	2	1	2	1
Differential Enthalpy Sensor	3	1	3	1	3	1

NOTE(S):

- a. Where multiple variations are available, the heaviest combination is listed.
- b. For Hot Gas Re-Heat dehumidification system, add Low Ambient controller weight.

RGW037/049/061 Base Unit Dimensions

NOTES:

1. DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE IN MILLIMETERS.
2. CENTER OF GRAVITY
3. DIRECTION OF AIR FLOW
4. ALL VIEW DRAWN USING 3RD ANGLE

UNIT	J	K
RGW036-G/H	33 3/8 [847]	18 5/8 [472]
RGW048-G/H	33 3/8 [847]	14 7/8 [377]
RGW060-G/H	41 3/8 [1051]	18 5/8 [472]



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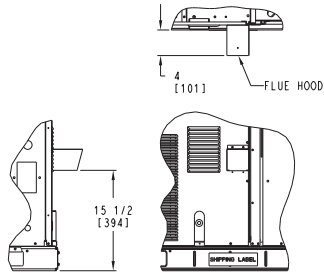
SUBMISSION OF THESE DRAWINGS OR DOCUMENTS DOES NOT CONSTITUTE PART PERFORMANCE OR ACCEPTANCE OF CONTRACT.

CONNECTION SIZES	
A	1 3/8" [35] DIA FIELD POWER SUPPLY HOLE
B	2" [50] DIA POWER SUPPLY KNOCKOUT
C	1 3/4" [51] DIA GAUGE ACCESS PLUG
D	7/8" [22] DIA FIELD CONTROL WIRING HOLE
E	3/4" -14 NPT CONDENSATE DRAIN
F	1/2" -14 NPT GAS CONNECTION
G	2 1/2" [64] DIA POWER SUPPLY KNOCK-OUT

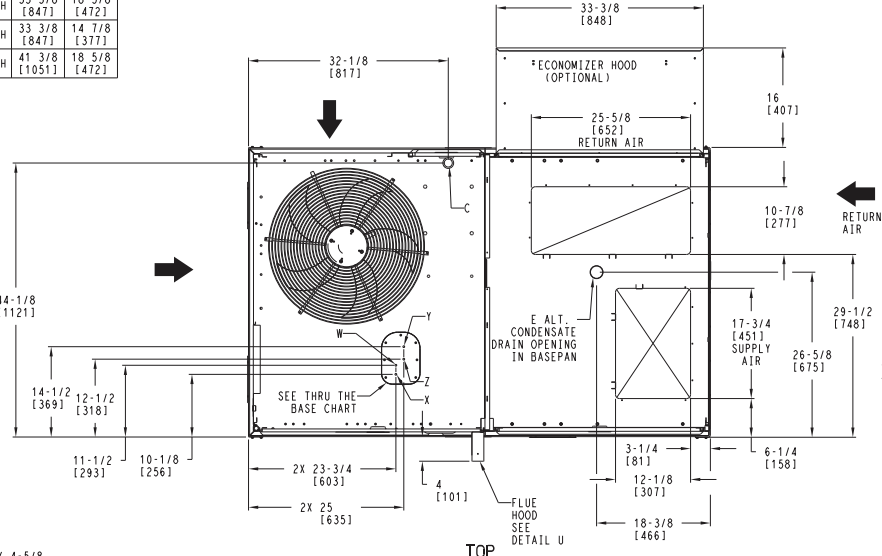
THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTMPWRO08A00, 009A00			
	THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
W	1/2"	115V	7/8" [22.2]
X	1/2"	24V	7/8" [22.2]
Y	3/4"	POWER	1-1/8" [28.6]
Z*	(009A00) 1/2" FPT	GAS	1-1/8" [28.6]

FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED

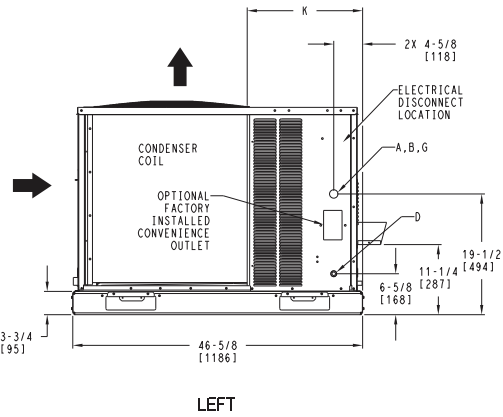
* (008A00) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING.



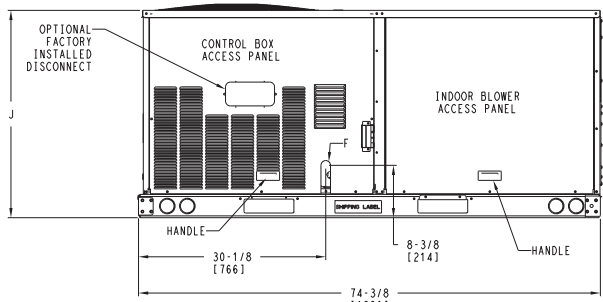
DETAIL U
FLUE HOOD OPENING FOR
ULTRA LOW NOX UNITS ONLY
SCALE 1:8



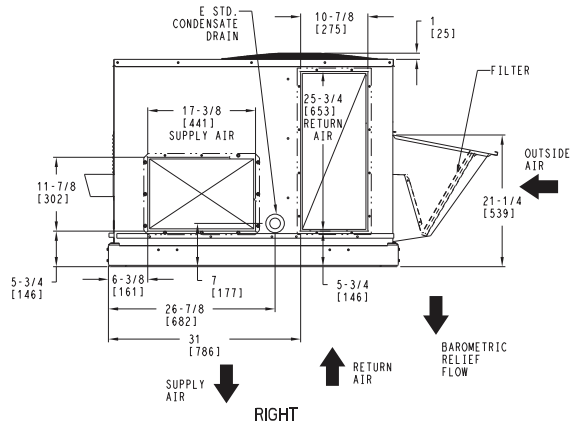
TOP



LEFT



FRONT



RIGHT

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	RGW 036-060-G/H SINGLE PACKAGE	48TC003103
U.S. ECCN:NSR	1 OF 3	11/17/20	04/02/19	ELECTRICAL COOLING WITH GAS HEAT	

NOTE: Dimensions and drawings for size 036 also apply to 037; for size 048 also apply to 049; for size 060 also apply to 061.

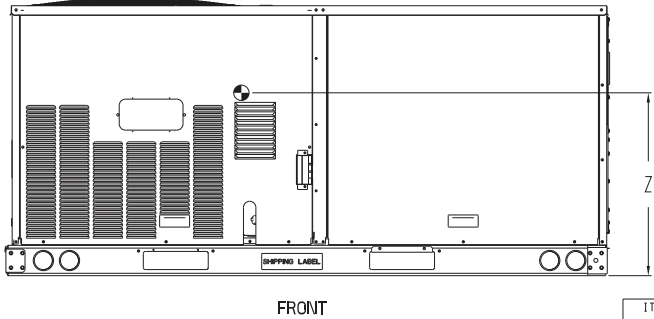
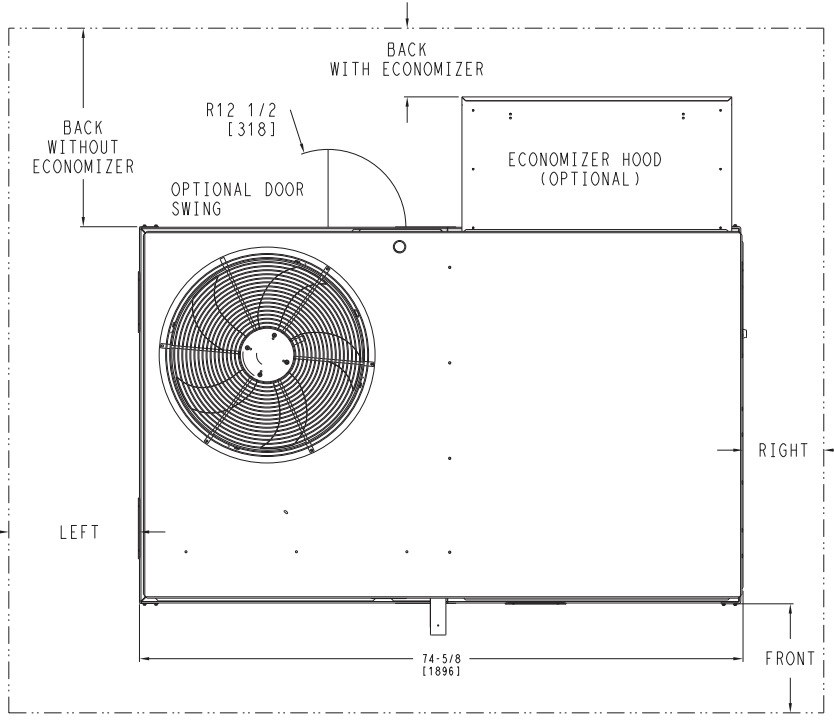
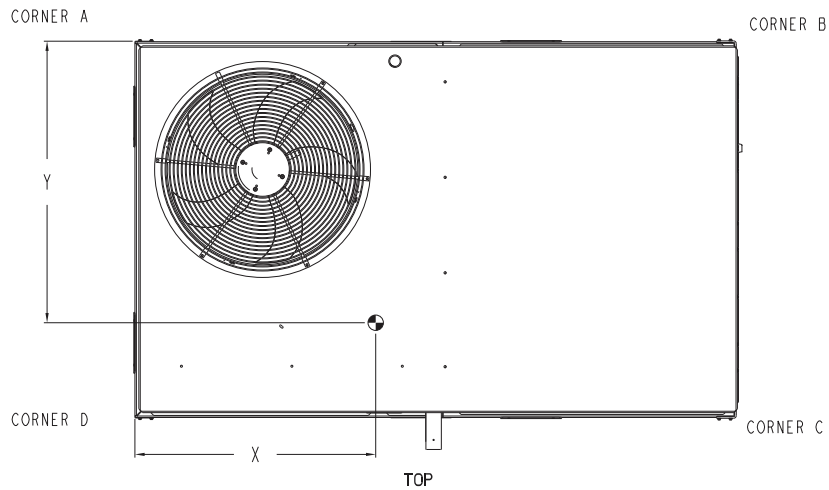
RGW037/049/061 Base Unit Dimensions (cont)

THIS TABLE IS FOR "ULTRA LOW NOX" UNITS ONLY

UNIT	STD. UNIT WEIGHT **		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		HEIGHT	
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z	
RGW036-G/H	543	247	139	63	133	60	133	60	139	63	36 3/8 [924]	23 3/8 [594]	18	[457]
RGW048-G/H	585	266	149	68	143	65	143	65	149	68	36 3/8 [924]	23 3/8 [594]	18	[457]
RGW060-G/H	630	286	168	76	157	71	147	69	158	72	35 7/8 [911]	22 5/8 [575]	19 1/4	[489]

** - STANDARD UNIT WEIGHT IS WITHOUT PACKAGING.
FOR OTHER OPTINS AND ACCESSORIES REFER TO THE PRODUCT DATA CATALOG.

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NOTES:

1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

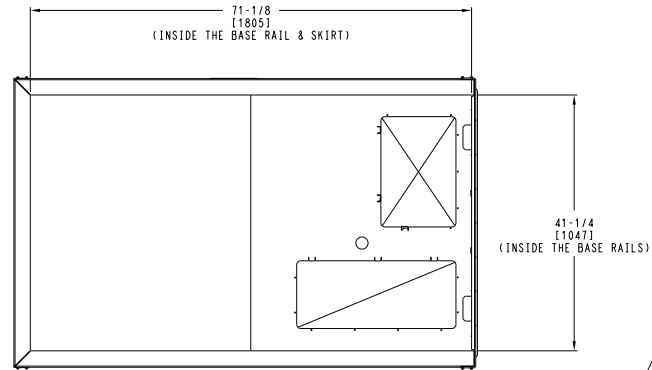
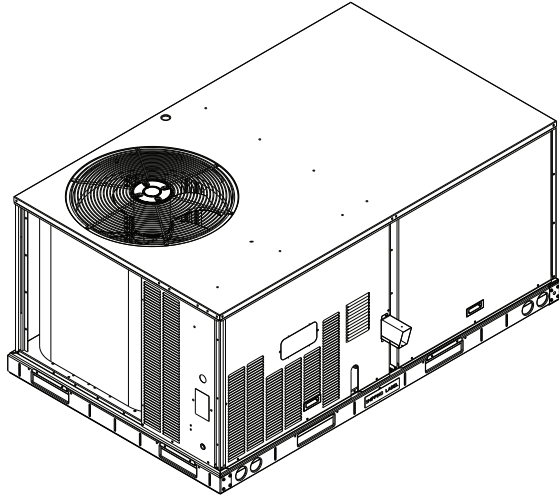
SURFACE	CLEARANCE		OPERATING CLEARANCE
	SERVICE WITH CONDUCTIVE BARRIER	SERVICE WITH NONCONDUCTIVE BARRIER	
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/O HOOD	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/HOOD	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]

ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	RGW 036-060-G/H SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003103
U.S. ECCN:NSR	2 OF 3	11/17/20	04/02/19		

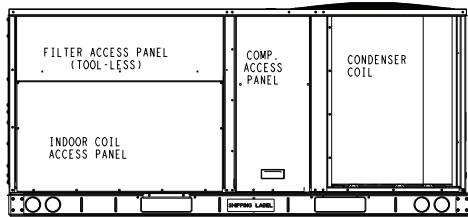
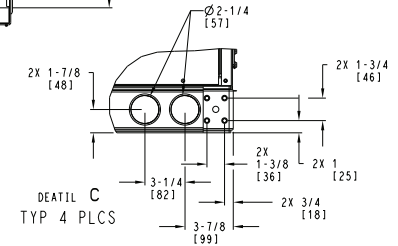
NOTE: Dimensions and drawings for size 036 also apply to 037; for size 048 also apply to 049; for size 060 also apply to 061.

RGW037/049/061 Base Unit Dimensions (cont)

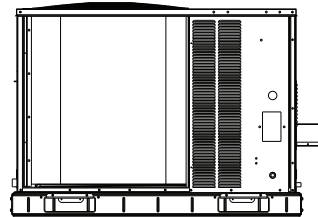
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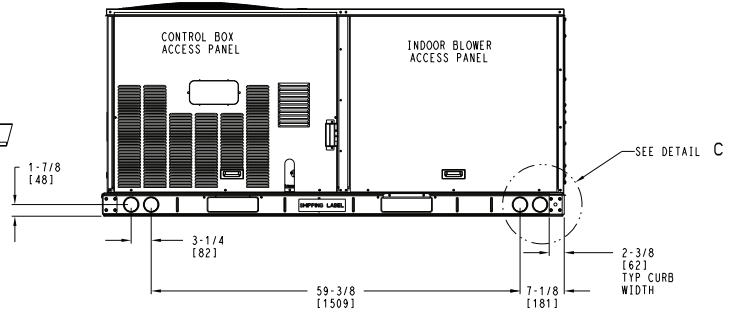
INSIDE BASERAIL DIMENSIONS
BOTTOM



BACK



LEFT



FRONT

ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 3 OF 3	DATE 11/17/20	SUPERCEDES 04/02/19	RGW 036-060-G/H SINGLE PACKAGE ELECTRICAL COOLING WITH GAS HEAT	48TC003103
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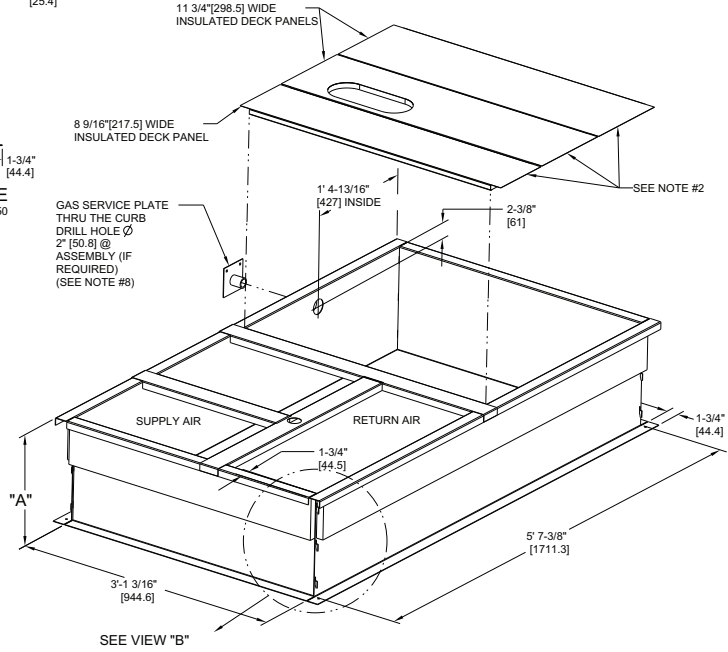
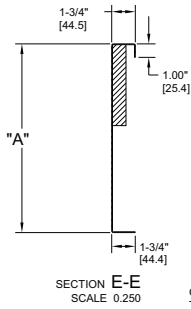
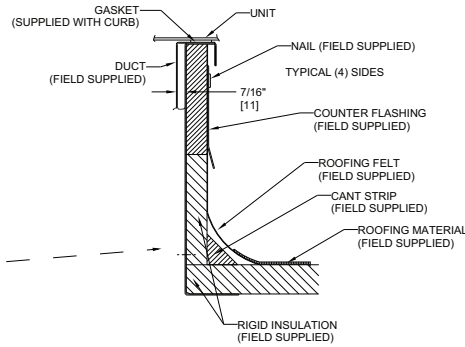
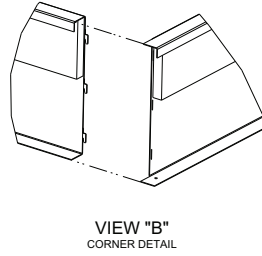
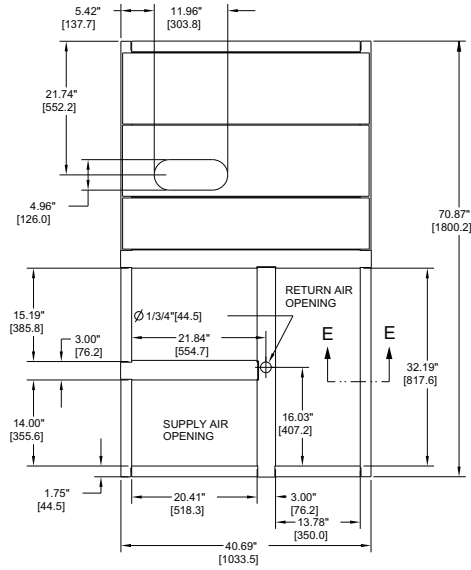
NOTE: Dimensions and drawings for size 036 also apply to 037; for size 048 also apply to 049; for size 060 also apply to 061.

Roof Curb Dimensions — RGW037/049/061

ROOF CURB ACCESSORY #	A
CRRFCURB001A01	14" [356]
CRRFCURB002A01	24" [610]

- NOTES:**
1. ROOF CURB ACCESSORY IS SHIPPED DISASSEMBLED.
 2. INSULATED PANELS: 25.4 [1"] THK. POLYURETHANE FOAM, 44.5 [1-3/4"] # DENSITY.
 3. DIMENSIONS IN [] ARE IN MILLIMETERS.
 4. ROOF CURB: 18 GAGE STEEL.
 5. ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON CURB).
 6. SERVICE CLEARANCE 4 FEET ON EACH SIDE.
 7. DIRECTION OF AIR FLOW.
 8. CONNECTOR PACKAGE CRBTMPWR001A01 IS FOR THRU-THE-CURB GAS TYPE PACKAGE CRBTMPWR003A01 IS FOR THRU-THE-BOTTOM TYPE GAS CONNECTIONS.

CONNECTOR PKG. ACC.	GAS CONNECTION TYPE	GAS FITTING	POWER WIRING FITTING	CONTROL WIRING FITTING	ACCESSORY CONVENIENCE OUTLET WIRING CONNECTOR
CRBTMPWR001A01	THRU THE CURB	3/4" [19] NPT	3/4" [19] NPT	1/2" [12.7] NPT	1/2" [12.7] NPT
CRBTMPWR003A01	THRU THE BOTTOM	1/2" [12.7] NPT			



CERTIFIED DRAWING

DRAWING RELEASE LEVEL: PRODUCTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
THIRD ANGLE PROJECTION	TOLERANCES ON: 1 DEC 2 DEC 3 DEC ANG		
MATERIAL	AUTHORIZATION NUMBER		
	1041738		
ENGINEERING REQUIREMENTS	ENGINEERING	MANUFACTURING	TITLE
T-005, Y-002	MMC	06/17/11	CURB ASY, ROOF
WEIGHT: -	DRAFTER	CHECKER	SIZE
SURFACE FINISH	MMC	06/17/11	D
MFG/PURCH	MODEL (INTERNAL USE ONLY)		DRAWING NUMBER
PURCH			48TC400427
	NEXT DRAWING	SCALE	DISTRIBUTION
		N/A	B
			SHEET 5 OF 5

A	OVERALL DIM. 5'-7 3/8" WAS 5'-7 7/8; 18GA MATERIAL WA 16 GA.; NAIL FIELD SUPPLIED WAS WITH CURB	04/22/13	MMC	-	-	1067898
REV	REVISION RECORD	DATE	BY	CHKD	APPD	ECN NO.

Performance data

RGW037 Ultra Low NOx High Stage Cooling Capacities^a

RGW037				AMBIENT TEMPERATURE (°F)												
				85			95			105			115			
				EA (db)			EA (db)			EA (db)			EA (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	
900 cfm	EA (wb)	58	TC	29.8	29.8	33.0	27.7	27.7	31.7	25.8	25.8	29.7	23.8	23.8	27.5	
			SHC	25.1	29.0	33.0	23.7	27.7	31.7	22.0	25.8	29.7	20.2	23.8	27.5	
		62	TC	31.8	31.8	31.8	29.6	29.6	29.9	27.2	27.2	28.5	24.7	24.7	27.2	
			SHC	22.5	26.8	31.1	21.2	25.5	29.9	19.8	24.1	28.5	18.3	22.8	27.2	
		67	TC	35.7	35.7	35.7	33.4	33.4	33.4	30.8	30.8	30.8	28.2	28.2	28.2	
			SHC	18.7	22.9	27.1	17.3	21.5	25.8	15.8	20.1	24.5	14.3	18.7	23.1	
	72	TC	40.0	40.0	40.0	37.5	37.5	37.5	34.8	34.8	34.8	31.9	31.9	31.9		
		SHC	14.9	18.9	22.9	13.4	17.5	21.7	11.9	16.1	20.4	10.3	14.7	19.0		
	76	TC	—	43.7	43.7	—	41.1	41.1	—	38.2	38.2	—	35.2	35.2		
		SHC	—	15.5	20.5	—	14.1	19.1	—	12.8	17.7	—	11.3	15.1		
	1050 cfm	EA (wb)	58	TC	31.6	31.6	35.9	29.7	29.7	33.9	27.7	27.7	31.8	25.6	25.6	29.5
				SHC	27.2	31.6	35.9	25.5	29.7	33.9	23.7	27.7	31.8	21.7	25.6	29.5
62			TC	33.1	33.1	34.2	30.8	30.8	33.1	28.3	28.3	31.7	25.8	25.8	30.1	
			SHC	24.5	29.4	34.2	23.2	28.2	33.1	21.7	26.7	31.7	20.1	25.1	30.1	
67			TC	37.1	37.1	37.1	34.7	34.7	34.7	32.0	32.0	32.0	29.2	29.2	29.2	
			SHC	20.1	25.0	29.9	18.6	23.6	28.6	17.2	22.2	27.2	15.7	20.8	25.9	
72		TC	41.5	41.5	41.5	38.8	38.8	38.8	36.0	36.0	36.0	33.0	33.0	33.0		
		SHC	15.5	20.3	25.0	14.0	18.9	23.7	12.5	17.4	22.4	10.9	15.9	21.0		
76		TC	—	45.3	45.3	—	42.4	42.4	—	39.5	39.5	—	36.3	36.3		
		SHC	—	16.4	22.2	—	15.0	20.8	—	13.6	18.1	—	12.1	16.8		
1200 cfm		EA (wb)	58	TC	33.4	33.4	38.0	31.4	31.4	35.8	29.3	29.3	33.6	27.1	27.1	31.1
				SHC	28.8	33.4	38.0	27.0	31.4	35.8	25.1	29.3	33.6	23.0	27.1	31.1
	62		TC	34.2	34.2	37.4	31.8	31.8	35.9	29.5	29.5	34.6	27.1	27.1	32.5	
			SHC	26.4	31.9	37.4	24.9	30.4	35.9	23.5	29.1	34.6	21.7	27.1	32.5	
	67		TC	38.3	38.3	38.3	35.7	35.7	35.7	32.9	32.9	32.9	30.0	30.0	30.0	
			SHC	21.3	26.9	32.5	19.9	25.6	31.2	18.5	24.2	29.9	17.0	22.7	28.5	
	72	TC	42.7	42.7	42.7	39.9	39.9	39.9	37.0	37.0	37.0	33.9	33.9	33.9		
		SHC	16.1	21.5	27.0	14.6	20.1	25.7	13.0	18.7	24.3	11.4	17.1	22.8		
	76	TC	—	46.5	46.5	—	43.6	43.6	—	40.5	40.5	—	37.2	37.2		
		SHC	—	17.1	21.9	—	15.7	20.8	—	14.2	19.6	—	12.7	18.2		
	1350 cfm	EA (wb)	58	TC	34.9	34.9	39.7	32.9	32.9	37.4	30.7	30.7	35.1	28.3	28.3	32.5
				SHC	30.2	34.9	39.7	28.3	32.9	37.4	26.3	30.7	35.1	24.2	28.3	32.5
62			TC	36.2	36.2	38.4	34.0	34.0	36.4	30.6	30.6	36.5	28.4	28.4	34.0	
			SHC	27.4	32.9	38.4	25.7	31.0	36.4	24.7	30.6	36.5	22.8	28.4	34.0	
67			TC	39.2	39.2	39.2	36.5	36.5	36.5	33.7	33.7	33.7	30.7	30.7	31.1	
			SHC	22.6	28.8	35.1	21.1	27.4	33.7	19.7	26.1	32.5	18.2	24.6	31.1	
72		TC	43.6	43.6	43.6	40.8	40.8	40.8	37.7	37.7	37.7	34.6	34.6	34.6		
		SHC	16.6	22.7	28.8	15.1	21.3	27.5	13.5	19.8	26.1	11.9	18.3	24.6		
76		TC	—	47.5	47.5	—	44.5	44.5	—	41.3	41.3	—	37.9	37.9		
		SHC	—	17.8	23.5	—	16.3	22.2	—	14.8	20.9	—	13.2	19.4		
1500 cfm		EA (wb)	58	TC	36.2	36.2	41.1	34.2	34.2	38.9	31.9	31.9	36.4	29.4	29.4	33.7
				SHC	31.3	36.2	41.1	29.4	34.2	38.9	27.4	31.9	36.4	25.1	29.4	33.7
	62		TC	36.7	36.7	41.9	34.2	34.2	40.5	31.9	31.9	37.9	29.4	29.4	35.2	
			SHC	29.3	35.6	41.9	27.9	34.2	40.5	25.9	31.9	37.9	23.7	29.4	35.2	
	67		TC	39.9	39.9	39.9	37.1	37.1	37.1	34.2	34.2	34.9	31.1	31.1	33.3	
			SHC	23.8	30.7	37.6	22.3	29.3	36.2	20.8	27.9	34.9	19.2	26.3	33.3	
	72	TC	44.4	44.4	44.4	41.5	41.5	41.5	38.4	38.4	38.4	35.1	35.1	35.1		
		SHC	17.0	23.8	30.6	15.5	22.4	29.2	13.9	20.9	27.8	12.3	19.3	26.4		
	76	TC	—	48.3	48.3	—	45.2	45.2	—	41.9	41.9	—	38.5	38.5		
		SHC	—	18.3	24.8	—	16.8	23.5	—	15.3	22.1	—	13.7	20.6		

NOTE(S):

a. See minimum-maximum airflow ratings on page 5.

LEGEND

—	— Do Not Operate
cfm	— Cubic Feet Per Minute (Supply Air)
EA (db)	— Entering Air Temperature (dry bulb)
EA (wb)	— Entering Air Temperature (wet bulb)
SHC	— Sensible Heat Capacity (1000 Btuh) Gross
TC	— Total Capacity (1000 Btuh) Gross

Performance data (cont)

RGW037 Ultra Low NOx Low Stage Cooling Capacities^a

RGW037				AMBIENT TEMPERATURE (°F)												
				85			95			105			115			
				EA (db)			EA (db)			EA (db)			EA (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	
750 cfm	EA (wb)	58	TC	23.6	23.6	26.6	22.6	22.6	25.5	21.5	21.5	24.3	20.3	20.3	22.9	
			SHC	20.5	23.6	26.6	19.7	22.6	25.5	18.8	21.5	24.3	17.7	20.3	22.9	
		62	TC	24.4	24.4	25.8	23.1	23.1	25.3	21.7	21.7	24.7	20.5	20.5	23.5	
			SHC	18.8	22.3	25.8	18.2	21.8	25.3	17.6	21.2	24.7	16.6	20.0	23.5	
		67	TC	27.1	27.1	27.1	25.7	25.7	25.7	24.1	24.1	24.1	22.4	22.4	22.4	
			SHC	15.4	19.0	22.5	14.9	18.4	22.0	14.2	17.9	21.5	13.6	17.2	20.9	
	72	TC	30.0	30.0	30.0	28.4	28.4	28.4	26.7	26.7	26.7	24.9	24.9	24.9		
		SHC	12.0	15.5	18.9	11.4	14.9	18.4	10.7	14.3	17.8	10.0	13.6	17.2		
	76	TC	—	32.5	32.5	—	30.8	30.8	—	29.0	29.0	—	27.0	27.0		
		SHC	—	12.5	16.6	—	11.9	14.9	—	11.3	14.6	—	10.7	14.1		
	900 cfm	EA (wb)	58	TC	25.1	25.1	28.4	24.1	24.1	27.2	22.9	22.9	25.8	21.5	21.5	24.3
				SHC	21.9	25.1	28.4	21.0	24.1	27.2	19.9	22.9	25.8	18.8	21.5	24.3
62			TC	25.4	25.4	28.7	24.8	24.8	26.5	22.9	22.9	26.9	21.6	21.6	25.3	
			SHC	20.5	24.6	28.7	19.2	22.8	26.5	19.0	22.9	26.9	17.8	21.6	25.3	
67			TC	28.0	28.0	28.0	26.5	26.5	26.5	24.9	24.9	24.9	23.0	23.0	23.5	
			SHC	16.6	20.8	25.0	16.1	20.3	24.6	15.4	19.7	24.0	14.8	19.1	23.5	
72		TC	31.0	31.0	31.0	29.3	29.3	29.3	27.5	27.5	27.5	25.6	25.6	25.6		
		SHC	12.5	16.6	20.7	11.9	16.0	20.2	11.2	15.4	19.6	10.5	14.7	19.0		
76		TC	—	33.5	33.5	—	31.8	31.8	—	29.9	29.9	—	27.8	27.8		
		SHC	—	13.2	16.9	—	12.6	16.5	—	12.0	16.0	—	11.3	15.4		
1050 cfm		EA (wb)	58	TC	26.4	26.4	29.8	25.3	25.3	28.5	24.0	24.0	27.1	22.6	22.6	25.5
				SHC	23.0	26.4	29.8	22.1	25.3	28.5	20.9	24.0	27.1	19.6	22.6	25.5
	62		TC	26.6	26.6	30.6	25.3	25.3	29.7	24.0	24.0	28.2	22.6	22.6	26.5	
			SHC	21.8	26.2	30.6	21.0	25.3	29.7	19.9	24.0	28.2	18.7	22.6	26.5	
	67		TC	28.7	28.7	28.7	27.2	27.2	27.2	25.4	25.4	26.5	23.5	23.5	25.8	
			SHC	17.8	22.6	27.5	17.2	22.1	27.0	16.6	21.5	26.5	15.8	20.8	25.8	
	72	TC	31.7	31.7	31.7	30.0	30.0	30.0	28.1	28.1	28.1	26.1	26.1	26.1		
		SHC	12.9	17.7	22.5	12.3	17.1	22.0	11.6	16.5	21.4	10.9	15.8	20.8		
	76	TC	—	34.3	34.3	—	32.5	32.5	—	30.5	30.5	—	28.3	28.3		
		SHC	—	13.7	18.3	—	13.1	17.8	—	12.5	17.3	—	11.8	16.6		
	1200 cfm	EA (wb)	58	TC	27.5	27.5	31.0	26.3	26.3	29.7	24.9	24.9	28.1	23.4	23.4	26.4
				SHC	24.0	27.5	31.0	22.9	26.3	29.7	21.7	24.9	28.1	20.4	23.4	26.4
62			TC	27.5	27.5	32.2	26.3	26.3	30.8	25.0	25.0	29.2	23.4	23.4	27.4	
			SHC	22.8	27.5	32.2	21.8	26.3	30.8	20.7	25.0	29.2	19.4	23.4	27.4	
67			TC	29.3	29.3	29.8	27.6	27.6	29.3	25.8	25.8	28.7	23.9	23.9	27.9	
			SHC	18.9	24.3	29.8	18.2	23.7	29.3	17.6	23.1	28.7	16.8	22.3	27.9	
72		TC	32.3	32.3	32.3	30.5	30.5	30.5	28.6	28.6	28.6	26.5	26.5	26.5		
		SHC	13.3	18.8	24.2	12.7	18.2	23.6	12.0	17.6	23.1	11.3	16.9	22.5		
76		TC	—	34.9	34.9	—	33.0	33.0	—	30.9	30.9	—	28.7	28.7		
		SHC	—	14.2	19.5	—	13.6	19.0	—	13.0	18.4	—	12.3	17.8		
1350 cfm		EA (wb)	58	TC	28.4	28.4	32.0	27.1	27.1	30.6	25.7	25.7	29.0	24.1	24.1	27.2
				SHC	24.8	28.4	32.0	23.7	27.1	30.6	22.4	25.7	29.0	21.0	24.1	27.2
	62		TC	28.4	28.4	33.3	27.2	27.2	31.8	25.7	25.7	30.1	24.1	24.1	28.3	
			SHC	23.6	28.4	33.3	22.5	27.2	31.8	21.3	25.7	30.1	20.0	24.1	28.3	
	67		TC	29.6	29.6	31.8	28.0	28.0	31.5	26.2	26.2	30.6	24.2	24.2	29.8	
			SHC	19.7	25.8	31.8	19.2	25.3	31.5	18.5	24.6	30.6	17.7	23.7	29.8	
	72	TC	32.8	32.8	32.8	30.9	30.9	30.9	28.9	28.9	28.9	26.8	26.8	26.8		
		SHC	13.7	19.8	25.8	13.1	19.2	25.3	12.4	18.6	24.8	11.7	17.9	24.2		
	76	TC	—	35.4	35.4	—	33.4	33.4	—	31.3	31.3	—	29.0	29.0		
		SHC	—	14.7	20.6	—	14.1	20.1	—	13.4	19.5	—	12.7	18.9		

NOTE(S):

a. See minimum-maximum airflow ratings on page 5.

LEGEND

—	— Do Not Operate
cfm	— Cubic Feet Per Minute (Supply Air)
EA (db)	— Entering Air Temperature (dry bulb)
EA (wb)	— Entering Air Temperature (wet bulb)
SHC	— Sensible Heat Capacity (1000 Btuh) Gross
TC	— Total Capacity (1000 Btuh) Gross

Performance data (cont)

RGW037(H/L)(G/H)G — Unit with Hot Gas Re-Heat System in Subcooling Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — SCFM/BF								
		900 / 0.01			1200 / 0.02			1500 / 0.04		
		Air Entering Evaporator — Ewb (°F)								
		72	67	62	72	67	62	72	67	62
75	TC	47.30	43.05	38.87	49.91	45.81	41.56	51.88	47.22	42.95
	SHC	25.33	28.76	32.11	27.32	32.24	37.10	28.89	34.79	40.92
	kW	2.60	2.51	2.44	2.92	2.83	2.72	3.38	3.27	3.15
85	TC	45.69	41.31	37.34	48.23	43.89	39.85	50.28	45.50	41.35
	SHC	23.99	27.23	30.77	25.85	30.55	35.58	27.51	33.28	39.55
	kW	2.88	2.78	2.70	3.19	3.10	3.02	3.66	3.54	3.42
95	TC	43.85	39.75	35.86	45.50	42.54	38.21	47.91	43.71	39.74
	SHC	22.42	25.91	29.51	23.37	26.59	34.15	25.33	31.70	37.82
	kW	3.17	3.08	2.99	3.45	3.41	3.31	3.96	3.85	3.71
105	TC	42.23	38.38	34.72	45.17	41.25	37.46	46.14	42.41	38.67
	SHC	21.08	24.79	28.60	23.29	28.36	33.64	23.76	30.62	37.32
	kW	3.49	3.40	3.32	3.83	3.73	3.62	4.29	4.17	4.03
115	TC	40.68	36.72	33.10	43.04	39.20	35.41	44.36	40.27	36.62
	SHC	19.79	23.35	27.21	21.37	26.52	31.81	22.11	28.66	35.48
	kW	3.82	3.73	3.65	4.16	4.05	3.94	4.61	4.49	4.35
125	TC	39.09	35.21	31.71	41.32	37.42	34.19	42.32	38.51	35.19
	SHC	18.46	22.08	26.05	19.82	24.95	30.82	20.17	27.06	32.95
	kW	4.16	4.07	3.99	4.51	4.39	4.28	4.95	4.83	4.69

RGW037(H/L)(G/H)G — Unit with Hot Gas Re-Heat System in Hot Gas Reheat Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — Ewb (°F)								
		75 Dry Bulb 62.5 Wet Bulb (50% Relative)			75 Dry Bulb 64 Wet Bulb (56% Relative)			75 Dry Bulb 65.3 Wet Bulb (60% Relative)		
		Air Entering Evaporator (cfm)								
		900	1200	1500	900	1200	1500	900	1200	1500
80	TC	18.16	18.94	19.54	18.55	15.73	19.80	18.92	19.79	20.23
	SHC	10.03	11.42	12.58	9.04	1.14	10.56	8.28	9.04	9.05
	kW	2.50	2.84	3.26	2.63	3.23	3.42	2.74	3.02	3.48
75	TC	15.90	16.31	16.77	16.18	16.94	17.39	16.69	17.33	17.89
	SHC	6.65	7.39	8.13	5.45	6.06	6.14	4.71	4.85	4.53
	kW	2.68	3.05	3.50	2.79	3.09	3.53	2.84	3.14	3.57
70	TC	14.07	14.69	15.08	14.54	15.00	15.61	15.05	15.62	16.30
	SHC	4.05	4.84	5.37	2.81	2.90	2.96	1.94	1.69	1.22
	kW	2.80	3.11	3.56	2.87	3.21	3.59	2.87	3.19	3.58
60	TC	21.22	22.32	23.08	22.09	20.29	21.73	21.70	20.81	23.54
	SHC	15.97	18.60	20.93	15.62	16.49	3.03	14.54	3.30	17.71
	kW	2.30	2.56	2.94	2.32	2.72	2.88	2.52	2.66	3.15
50	TC	19.14	20.17	21.37	19.74	21.24	21.99	20.27	21.83	21.73
	SHC	8.45	9.72	11.19	7.04	4.44	8.63	5.82	6.60	5.71
	kW	2.69	3.01	3.35	2.74	2.99	3.39	2.78	2.99	3.54
40	TC	21.96	23.29	23.84	22.89	24.34	23.61	23.53	24.99	24.59
	SHC	11.94	13.47	15.84	10.97	12.06	11.16	9.92	10.62	9.49
	kW	2.48	2.70	3.14	2.44	2.68	3.33	2.47	2.71	3.30

LEGEND

Edb	—	Entering Dry Bulb
Ewb	—	Entering Wet Bulb
kW	—	Compressor Power Input
SCFM/BF	—	Standard Cubic Feet per Minute/Bypass Factor
SHC	—	Sensible Heat Capacity (1000 Btuh) Gross
TC	—	Total Capacity (1000 Btuh) Gross

Performance data (cont)

RGW049 Ultra Low NOx High Stage Cooling Capacities^a

RGW049				AMBIENT TEMPERATURE (°F)												
				85			95			105			115			
				EA (db)			EA (db)			EA (db)			EA (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	
1200 cfm	EA (wb)	58	TC	42.9	42.9	48.6	40.8	40.8	46.3	38.6	38.6	43.8	36.2	36.2	41.2	
			SHC	37.3	42.9	48.6	35.3	40.8	46.3	33.3	38.6	43.8	31.2	36.2	41.2	
		62	TC	45.0	45.0	45.2	42.7	42.7	44.8	39.9	39.9	43.2	36.9	36.9	41.6	
			SHC	33.0	39.1	45.2	32.2	38.5	44.8	30.6	36.9	43.2	29.0	35.3	41.6	
		67	TC	49.9	49.9	49.9	47.2	47.2	47.2	44.3	44.3	44.3	41.1	41.1	41.1	
			SHC	27.2	33.2	39.3	25.8	32.0	38.2	24.5	30.7	37.0	22.9	29.2	35.5	
	72	TC	55.0	55.0	55.0	52.2	52.2	52.2	49.1	49.1	49.1	45.7	45.7	45.7		
		SHC	21.1	27.0	32.8	19.7	25.8	31.8	18.2	24.4	30.6	16.6	22.8	29.1		
	76	TC	—	59.6	59.6	—	56.5	56.5	—	53.1	53.1	—	49.4	49.4		
		SHC	—	21.9	28.5	—	20.7	27.3	—	19.2	24.6	—	17.7	23.5		
	1400 cfm	EA (wb)	58	TC	45.6	45.6	51.6	43.3	43.3	49.1	40.9	40.9	46.4	38.3	38.3	43.6
				SHC	39.6	45.6	51.6	37.5	43.3	49.1	35.4	40.9	46.4	33.1	38.3	43.6
62			TC	46.9	46.9	51.2	44.1	44.1	49.6	42.0	42.0	45.1	38.6	38.6	44.8	
			SHC	36.6	43.9	51.2	35.0	42.3	49.6	32.1	38.6	45.1	31.1	37.9	44.8	
67			TC	51.7	51.7	51.7	48.8	48.8	48.8	45.6	45.6	45.6	42.3	42.3	42.3	
			SHC	29.1	36.2	43.3	27.8	35.1	42.4	26.3	33.6	40.9	24.7	32.0	39.3	
72		TC	56.9	56.9	56.9	53.8	53.8	53.8	50.5	50.5	50.5	46.9	46.9	46.9		
		SHC	21.9	28.8	35.7	20.5	27.5	34.6	19.0	26.1	33.3	17.3	24.5	31.8		
76		TC	—	61.4	61.4	—	58.1	58.1	—	54.5	54.5	—	50.7	50.7		
		SHC	—	23.0	29.0	—	21.6	28.1	—	20.1	26.9	—	18.5	25.5		
1600 cfm		EA (wb)	58	TC	47.8	47.8	54.0	45.4	45.4	51.4	42.8	42.8	48.6	40.1	40.1	45.6
				SHC	41.5	47.8	54.0	39.4	45.4	51.4	37.1	42.8	48.6	34.7	40.1	45.6
	62		TC	48.2	48.2	55.5	46.4	46.4	50.2	42.9	42.9	50.6	40.2	40.2	47.5	
			SHC	39.2	47.3	55.5	35.9	43.0	50.2	35.2	42.9	50.6	32.9	40.2	47.5	
	67		TC	53.0	53.0	53.0	49.9	49.9	49.9	46.6	46.6	46.6	43.2	43.2	43.2	
			SHC	30.9	39.1	47.2	29.6	37.8	46.1	28.0	36.3	44.6	26.4	34.7	43.0	
	72	TC	58.3	58.3	58.3	55.0	55.0	55.0	51.5	51.5	51.5	47.8	47.8	47.8		
		SHC	22.6	30.5	38.5	21.1	29.3	37.4	19.6	27.7	35.9	17.9	26.1	34.3		
	76	TC	—	62.8	62.8	—	59.3	59.3	—	55.6	55.6	—	51.7	51.7		
		SHC	—	23.8	31.2	—	22.3	30.0	—	20.8	28.7	—	19.2	27.2		
	1800 cfm	EA (wb)	58	TC	49.7	49.7	56.1	47.1	47.1	53.4	44.5	44.5	50.4	41.6	41.6	47.3
				SHC	43.2	49.7	56.1	40.9	47.1	53.4	38.5	44.5	50.4	36.0	41.6	47.3
62			TC	50.5	50.5	55.2	47.2	47.2	55.5	44.5	44.5	52.5	41.7	41.7	49.2	
			SHC	39.5	47.3	55.2	38.9	47.2	55.5	36.6	44.5	52.5	34.2	41.7	49.2	
67			TC	54.0	54.0	54.0	50.8	50.8	50.8	47.4	47.4	48.2	43.9	43.9	46.6	
			SHC	32.7	42.0	51.2	31.3	40.5	49.8	29.7	38.9	48.2	28.1	37.3	46.6	
72		TC	59.3	59.3	59.3	55.9	55.9	55.9	52.3	52.3	52.3	48.5	48.5	48.5		
		SHC	23.1	32.1	41.0	21.7	30.8	39.9	20.1	29.2	38.4	18.4	27.6	36.8		
76		TC	—	63.9	63.9	—	60.3	60.3	—	56.5	56.5	—	52.5	52.5		
		SHC	—	24.4	33.0	—	23.0	31.7	—	21.5	30.3	—	19.8	28.8		
2000 cfm		EA (wb)	58	TC	51.3	51.3	57.9	48.7	48.7	55.1	45.9	45.9	52.0	42.9	42.9	48.7
				SHC	44.6	51.3	57.9	42.3	48.7	55.1	39.8	45.9	52.0	37.1	42.9	48.7
	62		TC	51.3	51.3	60.2	48.7	48.7	57.3	45.9	45.9	54.1	43.0	43.0	50.7	
			SHC	42.4	51.3	60.2	40.2	48.7	57.3	37.8	45.9	54.1	35.2	43.0	50.7	
	67		TC	54.8	54.8	54.8	51.5	51.5	53.3	48.1	48.1	51.7	44.4	44.4	50.1	
			SHC	34.4	44.6	54.8	32.9	43.1	53.3	31.3	41.5	51.7	29.7	39.9	50.1	
	72	TC	60.2	60.2	60.2	56.7	56.7	56.7	53.0	53.0	53.0	49.1	49.1	49.1		
		SHC	23.7	33.6	43.6	22.2	32.2	42.3	20.6	30.7	40.8	18.9	29.0	39.2		
	76	TC	—	64.8	64.8	—	61.1	61.1	—	57.2	57.2	—	53.1	53.1		
		SHC	—	25.0	34.6	—	23.5	33.3	—	22.0	31.8	—	20.3	30.2		

NOTE(S):

a. See minimum-maximum airflow ratings on page 5.

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

Performance data (cont)

RGW049 Ultra Low NOx Low Stage Cooling Capacities^a

RGW/049				AMBIENT TEMPERATURE (°F)												
				85			95			105			115			
				EA (db)			EA (db)			EA (db)			EA (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	
1000 cfm	EA (wb)	58	TC	27.0	27.0	30.4	25.7	25.7	29.0	24.3	24.3	27.4	22.8	22.8	25.7	
			SHC	23.5	27.0	30.4	22.4	25.7	29.0	21.2	24.3	27.4	19.8	22.8	25.7	
		62	TC	27.0	27.0	31.6	25.7	25.7	30.1	24.3	24.3	28.5	22.8	22.8	26.7	
			SHC	22.4	27.0	31.6	21.3	25.7	30.1	20.2	24.3	28.5	18.9	22.8	26.7	
		67	TC	29.2	29.2	29.2	27.5	27.5	27.8	25.7	25.7	27.0	23.7	23.7	26.2	
			SHC	18.3	23.4	28.5	17.6	22.7	27.8	16.9	22.0	27.0	16.1	21.1	26.2	
	72	TC	32.4	32.4	32.4	30.5	30.5	30.5	28.6	28.6	28.6	26.4	26.4	26.4		
		SHC	13.3	18.4	23.5	12.6	17.7	22.9	11.9	17.0	22.1	11.1	16.2	21.3		
	76	TC	—	35.0	35.0	—	33.1	33.1	—	31.0	31.0	—	28.7	28.7		
		SHC	—	14.4	19.5	—	13.7	18.9	—	12.9	18.1	—	12.2	17.3		
	1200 cfm	EA (wb)	58	TC	28.5	28.5	32.1	27.1	27.1	30.6	25.6	25.6	28.9	23.9	23.9	27.0
				SHC	24.8	28.5	32.1	23.6	27.1	30.6	22.3	25.6	28.9	20.9	23.9	27.0
62			TC	28.5	28.5	33.4	27.1	27.1	31.8	25.6	25.6	30.0	24.0	24.0	28.1	
			SHC	23.6	28.5	33.4	22.5	27.1	31.8	21.2	25.6	30.0	19.8	24.0	28.1	
67			TC	30.0	30.0	31.9	28.2	28.2	31.1	26.3	26.3	30.3	24.6	24.6	27.0	
			SHC	19.9	25.9	31.9	19.2	25.1	31.1	18.4	24.3	30.3	16.6	21.8	27.0	
72		TC	33.1	33.1	33.1	31.2	31.2	31.2	29.2	29.2	29.2	26.9	26.9	26.9		
		SHC	13.9	19.9	26.0	13.2	19.2	25.3	12.5	18.5	24.6	11.7	17.7	23.8		
76		TC	—	35.8	35.8	—	33.8	33.8	—	31.6	31.6	—	29.3	29.3		
		SHC	—	15.1	21.2	—	14.4	20.5	—	13.7	19.8	—	12.9	19.0		
1400 cfm		EA (wb)	58	TC	29.7	29.7	33.5	28.2	28.2	31.8	26.6	26.6	30.0	24.9	24.9	28.1
				SHC	25.9	29.7	33.5	24.6	28.2	31.8	23.2	26.6	30.0	21.7	24.9	28.1
	62		TC	29.7	29.7	34.8	28.2	28.2	33.1	26.6	26.6	31.2	24.9	24.9	29.1	
			SHC	24.6	29.7	34.8	23.4	28.2	33.1	22.1	26.6	31.2	20.6	24.9	29.1	
	67		TC	30.5	30.5	35.0	28.7	28.7	34.2	27.1	27.1	30.6	25.3	25.3	28.3	
			SHC	21.3	28.1	35.0	20.6	27.4	34.2	18.7	24.6	30.6	17.3	22.8	28.3	
	72	TC	33.7	33.7	33.7	31.7	31.7	31.7	29.6	29.6	29.6	27.3	27.3	27.3		
		SHC	14.4	21.4	28.3	13.7	20.7	27.6	13.0	19.9	26.9	12.2	19.1	26.1		
	76	TC	—	36.4	36.4	—	34.3	34.3	—	32.1	32.1	—	29.7	29.7		
		SHC	—	15.7	22.8	—	15.0	22.1	—	14.3	21.3	—	13.5	20.5		
	1600 cfm	EA (wb)	58	TC	30.7	30.7	34.6	29.1	29.1	32.8	27.4	27.4	31.0	25.6	25.6	28.9
				SHC	26.7	30.7	34.6	25.4	29.1	32.8	23.9	27.4	31.0	22.3	25.6	28.9
62			TC	30.7	30.7	35.9	29.1	29.1	34.1	27.5	27.5	32.2	25.6	25.6	30.0	
			SHC	25.5	30.7	35.9	24.2	29.1	34.1	22.8	27.5	32.2	21.2	25.6	30.0	
67			TC	31.0	31.0	37.8	29.6	29.6	33.0	27.6	27.6	33.6	25.6	25.6	32.2	
			SHC	22.6	30.2	37.8	20.2	26.6	33.0	20.1	26.9	33.6	19.1	25.6	32.2	
72		TC	34.1	34.1	34.1	32.1	32.1	32.1	29.9	29.9	29.9	27.6	27.6	28.3		
		SHC	14.9	22.7	30.6	14.2	22.0	29.9	13.5	21.3	29.1	12.7	20.5	28.3		
76		TC	—	36.9	36.9	—	34.7	34.7	—	32.4	32.4	—	30.0	30.0		
		SHC	—	16.3	24.2	—	15.6	23.5	—	14.8	22.7	—	14.0	21.9		
1800 cfm		EA (wb)	58	TC	31.5	31.5	35.5	29.9	29.9	33.7	28.1	28.1	31.7	26.2	26.2	29.6
				SHC	27.5	31.5	35.5	26.1	29.9	33.7	24.5	28.1	31.7	22.9	26.2	29.6
	62		TC	31.5	31.5	36.9	29.9	29.9	35.0	28.1	28.1	33.0	26.2	26.2	30.7	
			SHC	26.1	31.5	36.9	24.8	29.9	35.0	23.3	28.1	33.0	21.7	26.2	30.7	
	67		TC	31.9	31.9	37.1	30.1	30.1	35.9	28.2	28.2	35.4	26.3	26.3	33.0	
			SHC	22.5	29.8	37.1	21.6	28.8	35.9	21.0	28.2	35.4	19.5	26.3	33.0	
	72	TC	34.4	34.4	34.4	32.4	32.4	32.4	30.2	30.2	31.3	27.8	27.8	30.5		
		SHC	15.3	24.0	32.7	14.6	23.3	32.0	13.9	22.6	31.3	13.2	21.8	30.5		
	76	TC	—	37.2	37.2	—	35.0	35.0	—	32.7	32.7	—	30.2	30.2		
		SHC	—	16.7	25.5	—	16.0	24.8	—	15.3	24.0	—	14.5	23.2		

NOTE(S):

a. See minimum-maximum airflow ratings on page 5.

LEGEND

—	— Do Not Operate
cfm	— Cubic Feet Per Minute (Supply Air)
EA (db)	— Entering Air Temperature (dry bulb)
EA (wb)	— Entering Air Temperature (wet bulb)
SHC	— Sensible Heat Capacity (1000 Btuh) Gross
TC	— Total Capacity (1000 Btuh) Gross

Performance data (cont)

RGW049(H/L)(G/H)G — Unit with Hot Gas Re-Heat System in Subcooling Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — SCFM/BF								
		1200 / 0.04			1600 / 0.07			2000 / 0.10		
		Air Entering Evaporator — Ewb (°F)								
		72	67	62	72	67	62	72	67	62
75	TC	38.00	39.70	43.31	43.37	45.88	43.25	47.20	44.91	37.63
	SHC	21.82	25.72	34.19	35.87	27.32	18.69	19.45	24.12	27.37
	kW	3.64	3.61	3.57	4.40	4.25	4.09	5.14	5.07	4.89
85	TC	46.72	39.86	32.37	26.43	33.39	40.66	35.15	26.67	18.42
	SHC	19.44	22.28	24.79	20.96	15.48	10.27	6.71	8.33	10.65
	kW	4.87	4.75	4.56	5.74	5.40	5.12	6.50	6.26	5.99
95	TC	38.67	38.73	38.97	46.27	44.72	41.32	46.89	47.97	42.62
	SHC	23.41	26.38	31.56	41.94	25.83	19.32	21.43	29.30	36.07
	kW	3.86	3.81	3.76	4.58	4.50	4.32	5.38	5.31	5.19
105	TC	49.17	45.18	37.85	32.39	39.47	46.16	40.02	31.96	23.66
	SHC	23.37	29.52	33.96	30.59	23.42	15.98	11.38	15.48	19.56
	kW	5.10	5.04	4.84	6.00	5.73	5.40	6.85	6.57	6.29
115	TC	39.82	39.51	43.61	46.81	43.87	41.25	47.48	48.48	46.81
	SHC	25.15	27.86	37.02	43.47	29.26	20.60	23.38	31.58	43.95
	kW	4.12	4.05	3.96	4.88	4.73	4.55	5.65	5.57	5.41
125	TC	50.70	48.95	42.25	37.19	43.24	48.91	44.27	35.61	28.16
	SHC	26.40	35.57	41.60	38.25	29.59	19.81	16.07	21.45	25.87
	kW	5.32	5.24	5.08	6.22	6.02	5.64	7.12	6.84	6.51

RGW049(H/L)(G/H)G — Unit with Hot Gas Re-Heat System in Hot Gas Reheat Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — Ewb (°F)								
		75 Dry Bulb 62.5 Wet Bulb (50% Relative)			75 Dry Bulb 64 Wet Bulb (56% Relative)			75 Dry Bulb 65.3 Wet Bulb (60% Relative)		
		Air Entering Evaporator (cfm)								
		1200	1600	2000	1200	1600	2000	1200	1600	2000
80	TC	19.74	21.01	21.80	20.54	18.34	22.60	21.27	22.52	23.27
	SHC	6.52	9.56	12.58	4.88	-1.55	9.44	3.53	5.28	6.74
	kW	3.23	3.51	3.93	3.26	3.79	3.97	3.29	3.57	4.00
75	TC	17.95	19.09	19.84	18.64	19.86	20.60	19.28	20.48	21.26
	SHC	3.59	6.18	8.85	1.71	3.63	5.37	0.16	1.46	2.49
	kW	3.32	3.60	4.02	3.36	3.64	4.06	3.40	3.67	4.09
70	TC	16.24	17.37	18.10	16.93	18.06	18.78	17.50	18.66	19.43
	SHC	1.11	3.54	6.06	-0.98	0.61	2.14	-2.74	-1.82	-1.08
	kW	3.45	3.72	4.15	3.48	3.75	4.18	3.50	3.78	4.20
60	TC	23.03	24.36	25.17	23.97	23.12	24.31	24.58	24.02	26.61
	SHC	12.73	16.77	20.82	11.40	13.99	1.73	10.30	0.02	15.43
	kW	3.06	3.34	3.75	3.09	3.38	3.62	3.11	3.26	3.82
50	TC	21.96	23.26	24.08	22.66	23.92	24.79	23.28	24.58	25.25
	SHC	6.15	8.87	11.66	3.79	1.86	7.56	1.73	2.91	3.89
	kW	3.28	3.61	4.07	3.33	3.71	4.12	3.38	3.71	4.17
40	TC	24.95	26.18	26.99	25.63	26.96	27.58	26.33	27.65	28.27
	SHC	9.83	12.44	15.51	7.56	9.43	11.17	5.65	6.86	7.83
	kW	3.06	3.38	3.84	3.11	3.44	3.89	3.15	3.48	3.94

LEGEND

Edb	—	Entering Dry Bulb
Ewb	—	Entering Wet Bulb
kW	—	Compressor Power Input
SCFM/BF	—	Standard Cubic Feet per Minute/Bypass Factor
SHC	—	Sensible Heat Capacity (1000 Btuh) Gross
TC	—	Total Capacity (1000 Btuh) Gross

Performance data (cont)

RGW061 Ultra Low NOx High Stage Cooling Capacities^a

RGW061				AMBIENT TEMPERATURE (°F)												
				85			95			105			115			
				EA (db)			EA (db)			EA (db)			EA (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	
1500 cfm	EA (wb)	58	TC	53.3	53.3	60.3	50.7	50.7	57.5	48.0	48.0	54.5	45.2	45.2	51.3	
			SHC	46.3	53.3	60.3	44.0	50.7	57.5	41.5	48.0	54.5	39.0	45.2	51.3	
		62	TC	56.4	56.4	57.3	53.1	53.1	55.4	49.7	49.7	53.5	46.2	46.2	51.5	
			SHC	41.8	49.6	57.3	40.0	47.7	55.4	38.1	45.8	53.5	36.1	43.8	51.5	
		67	TC	62.2	62.2	62.2	58.7	58.7	58.7	55.0	55.0	55.0	51.2	51.2	51.2	
			SHC	34.3	42.1	49.8	32.5	40.2	48.0	30.6	38.4	46.1	28.7	36.4	44.2	
	72	TC	68.5	68.5	68.5	64.7	64.7	64.7	60.7	60.7	60.7	56.6	56.6	56.6		
		SHC	26.6	34.5	42.3	24.8	32.6	40.5	22.9	30.7	38.5	21.0	28.8	36.6		
	76	TC	—	73.8	73.8	—	69.8	69.8	—	65.5	65.5	—	61.1	61.1		
		SHC	—	28.3	36.5	—	26.5	34.7	—	24.6	32.7	—	22.7	30.7		
	1750 cfm	EA (wb)	58	TC	56.5	56.5	63.9	53.7	53.7	60.8	50.8	50.8	57.6	47.7	47.7	54.2
				SHC	49.1	56.5	63.9	46.6	53.7	60.8	44.0	50.8	57.6	41.2	47.7	54.2
62			TC	58.3	58.3	63.0	54.9	54.9	61.0	51.4	51.4	58.9	48.1	48.1	55.5	
			SHC	45.3	54.1	63.0	43.3	52.2	61.0	41.3	50.1	58.9	38.7	47.1	55.5	
67			TC	64.1	64.1	64.1	60.5	60.5	60.5	56.6	56.6	56.6	52.6	52.6	52.6	
			SHC	36.5	45.5	54.4	34.7	43.6	52.6	32.8	41.7	50.6	30.8	39.7	48.6	
72		TC	70.5	70.5	70.5	66.5	66.5	66.5	62.4	62.4	62.4	58.0	58.0	58.0		
		SHC	27.6	36.6	45.6	25.7	34.7	43.7	23.8	32.8	41.7	21.9	30.8	39.7		
76		TC	—	75.9	75.9	—	71.6	71.6	—	67.2	67.2	—	62.6	62.6		
		SHC	—	29.4	38.8	—	27.5	36.8	—	25.6	34.8	—	23.6	32.8		
2000 cfm		EA (wb)	58	TC	59.1	59.1	66.8	56.2	56.2	63.5	53.1	53.1	60.1	49.8	49.8	56.5
				SHC	51.4	59.1	66.8	48.8	56.2	63.5	46.0	53.1	60.1	43.1	49.8	56.5
	62		TC	59.9	59.9	68.2	56.9	56.9	63.8	54.0	54.0	59.1	49.9	49.9	58.8	
			SHC	48.4	58.3	68.2	45.3	54.5	63.8	42.0	50.5	59.1	40.9	49.9	58.8	
	67		TC	65.6	65.6	65.6	61.8	61.8	61.8	57.8	57.8	57.8	53.7	53.7	53.7	
			SHC	38.6	48.7	58.8	36.7	46.8	56.9	34.8	44.9	54.9	32.8	42.9	52.9	
	72	TC	72.1	72.1	72.1	67.9	67.9	67.9	63.6	63.6	63.6	59.2	59.2	59.2		
		SHC	28.4	38.5	48.6	26.5	36.6	46.7	24.5	34.6	44.7	22.6	32.6	42.7		
	76	TC	—	77.5	77.5	—	73.1	73.1	—	68.5	68.5	—	63.7	63.7		
		SHC	—	30.3	40.7	—	28.4	38.8	—	26.4	36.7	—	24.4	34.6		
	2250 cfm	EA (wb)	58	TC	61.4	61.4	69.3	58.3	58.3	65.9	55.0	55.0	62.3	51.6	51.6	58.5
				SHC	53.4	61.4	69.3	50.6	58.3	65.9	47.7	55.0	62.3	44.7	51.6	58.5
62			TC	61.4	61.4	72.0	58.3	58.3	68.5	55.1	55.1	64.8	51.6	51.6	60.9	
			SHC	50.8	61.4	72.0	48.1	58.3	68.5	45.3	55.1	64.8	42.4	51.6	60.9	
67			TC	66.8	66.8	66.8	62.9	62.9	62.9	58.8	58.8	59.1	54.5	54.5	57.0	
			SHC	40.6	51.8	63.0	38.7	49.9	61.1	36.7	47.9	59.1	34.7	45.9	57.0	
72		TC	73.3	73.3	73.3	69.1	69.1	69.1	64.6	64.6	64.6	60.0	60.0	60.0		
		SHC	29.0	40.2	51.5	27.1	38.3	49.5	25.1	36.3	47.5	23.1	34.3	45.4		
76		TC	—	78.7	78.7	—	74.2	74.2	—	69.5	69.5	—	64.6	64.6		
		SHC	—	31.0	42.5	—	29.1	40.5	—	27.1	38.4	—	25.0	36.3		
2500 cfm		EA (wb)	58	TC	63.3	63.3	71.5	60.1	60.1	67.9	56.7	56.7	64.1	53.1	53.1	60.2
				SHC	55.1	63.3	71.5	52.2	60.1	67.9	49.2	56.7	64.1	46.0	53.1	60.2
	62		TC	63.3	63.3	74.3	60.1	60.1	70.6	56.7	56.7	66.7	53.1	53.1	62.6	
			SHC	52.4	63.3	74.3	49.6	60.1	70.6	46.7	56.7	66.7	43.7	53.1	62.6	
	67		TC	67.8	67.8	67.8	63.7	63.7	65.1	59.5	59.5	63.0	55.2	55.2	60.9	
			SHC	42.4	54.7	67.0	40.5	52.8	65.1	38.5	50.8	63.0	36.5	48.7	60.9	
	72	TC	74.3	74.3	74.3	70.0	70.0	70.0	65.4	65.4	65.4	60.7	60.7	60.7		
		SHC	29.5	41.8	54.1	27.6	39.9	52.2	25.6	37.9	50.1	23.6	35.8	48.0		
	76	TC	—	79.7	79.7	—	75.1	75.1	—	70.3	70.3	—	65.3	65.3		
		SHC	—	31.5	44.0	—	29.6	42.0	—	27.6	39.9	—	25.5	37.7		

NOTE(S):

a. See minimum-maximum airflow ratings on page 5.

LEGEND

—	Do Not Operate
cfm	Cubic Feet Per Minute (Supply Air)
EA (db)	Entering Air Temperature (dry bulb)
EA (wb)	Entering Air Temperature (wet bulb)
SHC	Sensible Heat Capacity (1000 Btuh) Gross
TC	Total Capacity (1000 Btuh) Gross

Performance data (cont)

RGW061 Ultra Low NOx Low Stage Cooling Capacities^a

RGW061				AMBIENT TEMPERATURE (°F)												
				85			95			105			115			
				EA (db)			EA (db)			EA (db)			EA (db)			
				75	80	85	75	80	85	75	80	85	75	80	85	
1250 cfm	EA (wb)	58	TC	41.4	41.4	46.5	39.9	39.9	44.7	38.1	38.1	42.7	36.1	36.1	40.4	
			SHC	36.3	41.4	46.5	35.0	39.9	44.7	33.5	38.1	42.7	31.8	36.1	40.4	
		62	TC	42.3	42.3	46.5	40.3	40.3	45.6	38.2	38.2	44.4	36.1	36.1	41.9	
			SHC	33.8	40.2	46.5	33.1	39.3	45.6	32.0	38.2	44.4	30.4	36.1	41.9	
		67	TC	46.2	46.2	46.2	44.1	44.1	44.1	41.6	41.6	41.6	38.9	38.9	38.9	
			SHC	27.5	33.9	40.3	26.8	33.2	39.6	26.0	32.4	38.8	25.1	31.5	37.9	
	72	TC	50.5	50.5	50.5	48.2	48.2	48.2	45.6	45.6	45.6	42.7	42.7	42.7		
		SHC	20.9	27.4	33.8	20.3	26.7	33.1	19.5	25.9	32.3	18.7	25.1	31.5		
	76	TC	—	54.2	54.2	—	51.8	51.8	—	49.1	49.1	—	46.0	46.0		
		SHC	—	22.1	28.7	—	21.4	28.0	—	20.7	27.3	—	19.9	26.4		
	1500 cfm	EA (wb)	58	TC	43.6	43.6	49.0	42.0	42.0	47.1	40.1	40.1	45.0	37.9	37.9	42.5
				SHC	38.2	43.6	49.0	36.8	42.0	47.1	35.2	40.1	45.0	33.3	37.9	42.5
62			TC	43.7	43.7	50.9	42.0	42.0	48.9	40.1	40.1	46.6	37.9	37.9	44.0	
			SHC	36.5	43.7	50.9	35.1	42.0	48.9	33.6	40.1	46.6	31.8	37.9	44.0	
67			TC	47.4	47.4	47.4	45.2	45.2	45.2	42.6	42.6	43.0	39.8	39.8	42.0	
			SHC	29.4	36.9	44.5	28.7	36.2	43.8	27.9	35.4	43.0	27.0	34.5	42.0	
72		TC	51.8	51.8	51.8	49.4	49.4	49.4	46.7	46.7	46.7	43.7	43.7	43.7		
		SHC	21.6	29.2	36.7	21.0	28.5	36.1	20.2	27.7	35.3	19.4	26.9	34.4		
76		TC	—	55.6	55.6	—	53.0	53.0	—	50.2	50.2	—	47.0	47.0		
		SHC	—	22.9	30.6	—	22.3	30.0	—	21.5	29.2	—	20.7	28.3		
1750 cfm		EA (wb)	58	TC	45.5	45.5	51.1	43.7	43.7	49.1	41.7	41.7	46.7	39.3	39.3	44.1
				SHC	39.8	45.5	51.1	38.3	43.7	49.1	36.6	41.7	46.7	34.6	39.3	44.1
	62		TC	45.5	45.5	53.0	43.7	43.7	50.9	41.7	41.7	48.5	39.4	39.4	45.7	
			SHC	38.0	45.5	53.0	36.5	43.7	50.9	34.9	41.7	48.5	33.0	39.4	45.7	
	67		TC	48.3	48.3	48.5	46.0	46.0	47.8	43.4	43.4	46.9	40.4	40.4	45.8	
			SHC	31.2	39.9	48.5	30.5	39.2	47.8	29.7	38.3	46.9	28.7	37.3	45.8	
	72	TC	52.8	52.8	52.8	50.3	50.3	50.3	47.5	47.5	47.5	44.3	44.3	44.3		
		SHC	22.2	30.9	39.5	21.5	30.2	38.8	20.8	29.4	38.1	19.9	28.5	37.2		
	76	TC	—	56.6	56.6	—	54.0	54.0	—	51.0	51.0	—	47.7	47.7		
		SHC	—	23.6	32.4	—	23.0	31.7	—	22.2	30.9	—	21.4	30.0		
	2000 cfm	EA (wb)	58	TC	46.9	46.9	52.8	45.1	45.1	50.6	43.0	43.0	48.2	40.5	40.5	45.4
				SHC	41.1	46.9	52.8	39.5	45.1	50.6	37.7	43.0	48.2	35.6	40.5	45.4
62			TC	47.0	47.0	54.8	45.1	45.1	52.5	43.0	43.0	50.0	40.6	40.6	47.1	
			SHC	39.2	47.0	54.8	37.7	45.1	52.5	36.0	43.0	50.0	34.0	40.6	47.1	
67			TC	49.0	49.0	52.4	46.6	46.6	51.5	43.9	43.9	50.5	41.0	41.0	49.3	
			SHC	32.9	42.6	52.4	32.2	41.9	51.5	31.3	40.9	50.5	30.3	39.8	49.3	
72		TC	53.5	53.5	53.5	50.9	50.9	50.9	48.1	48.1	48.1	44.9	44.9	44.9		
		SHC	22.7	32.4	42.2	22.0	31.8	41.5	21.3	31.0	40.7	20.4	30.1	39.8		
76		TC	—	57.4	57.4	—	54.7	54.7	—	51.7	51.7	—	48.3	48.3		
		SHC	—	24.2	34.0	—	23.5	33.3	—	22.8	32.5	—	21.9	31.6		
2250 cfm		EA (wb)	58	TC	48.2	48.2	54.2	46.2	46.2	52.0	44.0	44.0	49.4	41.5	41.5	46.5
				SHC	42.2	48.2	54.2	40.5	46.2	52.0	38.6	44.0	49.4	36.4	41.5	46.5
	62		TC	48.2	48.2	56.3	46.3	46.3	53.9	44.0	44.0	51.3	41.5	41.5	48.3	
			SHC	40.2	48.2	56.3	38.6	46.3	53.9	36.8	44.0	51.3	34.8	41.5	48.3	
	67		TC	49.6	49.6	55.9	47.1	47.1	55.0	44.5	44.5	53.8	41.8	41.8	49.8	
			SHC	34.5	45.2	55.9	33.8	44.4	55.0	32.8	43.3	53.8	30.7	40.2	49.8	
	72	TC	54.1	54.1	54.1	51.5	51.5	51.5	48.5	48.5	48.5	45.2	45.2	45.2		
		SHC	23.1	33.9	44.7	22.5	33.2	44.0	21.7	32.5	43.2	20.9	31.6	42.3		
	76	TC	—	58.0	58.0	—	55.2	55.2	—	52.1	52.1	—	48.7	48.7		
		SHC	—	24.6	35.5	—	24.0	34.8	—	23.2	33.9	—	22.3	32.9		

NOTE(S):

a. See minimum-maximum airflow ratings on page 5.

LEGEND

—	— Do Not Operate
cfm	— Cubic Feet Per Minute (Supply Air)
EA (db)	— Entering Air Temperature (dry bulb)
EA (wb)	— Entering Air Temperature (wet bulb)
SHC	— Sensible Heat Capacity (1000 Btuh) Gross
TC	— Total Capacity (1000 Btuh) Gross

Performance data (cont)

RGW061(H/L)(G/H)G — Unit with Hot Gas Re-Heat System in Subcooling Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — SCFM/BF								
		1500 / 0.01			2000 / 0.02			2500 / 0.03		
		Air Entering Evaporator — Ewb (°F)								
		72	67	62	72	67	62	72	67	62
75	TC	70.53	63.82	57.93	74.82	68.11	61.86	77.52	70.71	64.57
	SHC	31.69	38.87	46.41	35.70	45.42	55.15	38.93	51.09	62.60
	kW	3.69	3.60	3.53	4.01	3.92	3.83	4.46	4.37	4.24
85	TC	66.76	60.52	54.81	70.78	64.32	58.47	73.28	66.66	61.04
	SHC	28.23	35.82	43.51	31.98	41.90	52.01	34.99	47.32	59.27
	kW	4.07	3.99	3.91	4.40	4.30	4.21	4.85	4.74	4.62
95	TC	62.90	56.96	51.51	65.79	60.87	54.99	69.01	62.83	57.39
	SHC	24.70	32.54	40.45	27.31	35.91	48.77	31.01	43.78	55.84
	kW	4.50	4.41	4.32	4.79	4.75	4.64	5.29	5.18	5.05
105	TC	58.97	53.30	48.18	62.37	56.65	51.38	64.74	58.79	53.63
	SHC	21.09	29.16	37.39	24.21	34.81	45.42	27.02	40.02	52.29
	kW	4.97	4.88	4.79	5.30	5.20	5.10	5.77	5.65	5.51
115	TC	54.84	49.52	44.71	58.03	52.59	47.64	59.95	54.52	49.72
	SHC	17.27	25.65	34.16	20.15	31.02	41.94	22.46	36.02	48.59
	kW	5.47	5.37	5.28	5.80	5.69	5.59	6.26	6.15	6.00
125	TC	50.51	45.56	41.08	53.44	48.35	43.92	55.25	50.08	45.85
	SHC	13.25	21.95	30.77	15.81	27.04	38.49	17.95	31.80	43.60
	kW	5.98	5.87	5.78	6.31	6.20	6.10	6.78	6.66	6.50

RGW061(H/L)(G/H)G — Unit with Hot Gas Re-Heat System in Hot Gas Reheat Mode — Cooling Capacities

TEMP (°F) AIR ENTERING CONDENSER (Edb)		AIR ENTERING EVAPORATOR — Ewb (°F)								
		75 Dry Bulb 62.5 Wet Bulb (50% Relative)			75 Dry Bulb 64 Wet Bulb (56% Relative)			75 Dry Bulb 65.3 Wet Bulb (60% Relative)		
		Air Entering Evaporator (cfm)								
		1500	2000	2500	1500	2000	2500	1500	2000	2500
80	TC	23.46	25.00	25.95	22.48	22.48	26.91	25.27	26.79	27.74
	SHC	6.67	10.43	14.23	-1.35	-1.35	10.30	2.67	4.90	6.94
	kW	3.23	3.51	3.93	3.79	3.79	3.97	3.29	3.57	4.00
75	TC	21.82	23.33	24.27	22.73	24.25	25.19	23.51	25.04	25.99
	SHC	3.89	7.28	10.74	1.53	4.07	6.48	-0.49	1.33	2.93
	kW	3.32	3.60	4.02	3.36	3.64	4.06	3.40	3.67	4.09
70	TC	20.22	21.70	22.63	21.08	22.57	23.50	21.85	23.33	24.28
	SHC	1.51	4.73	8.05	-1.10	1.16	3.38	-3.29	-1.82	-0.53
	kW	3.45	3.72	4.15	3.48	3.75	4.18	3.50	3.78	4.20
60	TC	27.06	28.61	29.62	27.75	27.75	29.00	28.77	28.77	31.52
	SHC	13.18	17.91	22.76	14.66	14.66	2.96	0.10	0.10	16.05
	kW	3.06	3.34	3.75	3.38	3.38	3.62	3.26	3.26	3.82
50	TC	26.27	27.80	28.76	27.09	28.59	29.59	27.83	29.36	30.33
	SHC	6.87	10.27	13.81	3.94	2.57	8.90	1.39	3.02	4.68
	kW	3.28	3.61	4.07	3.33	3.71	4.12	3.38	3.71	4.17
40	TC	29.29	30.82	31.80	30.18	31.72	32.69	30.98	32.52	33.50
	SHC	10.58	13.95	17.49	7.83	10.24	12.81	5.42	7.07	8.76
	kW	3.06	3.38	3.84	3.11	3.44	3.89	3.15	3.48	3.94

LEGEND

Edb	—	Entering Dry Bulb
Ewb	—	Entering Wet Bulb
kW	—	Compressor Power Input
SCFM/BF	—	Standard Cubic Feet per Minute/Bypass Factor
SHC	—	Sensible Heat Capacity (1000 Btuh) Gross
TC	—	Total Capacity (1000 Btuh) Gross

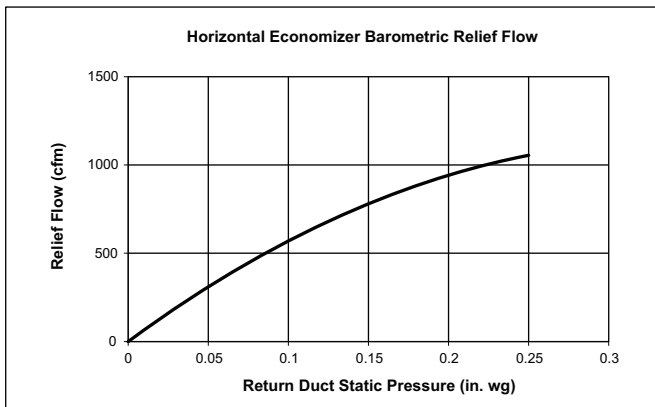
Performance data (cont)

RGW037/049/061 Ultra Low NOx — Gas Heat Stages

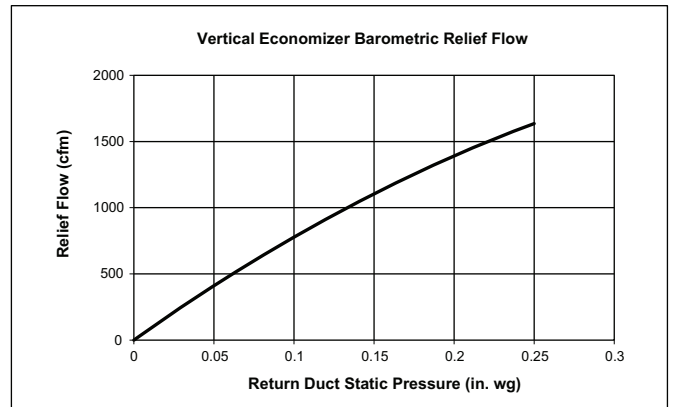
UNIT SIZE	HEAT SIZE
1-Phase or 3-Phase	Low or Medium
037	1
049	1
061	1

Economizer Barometric Relief and Static Pressure

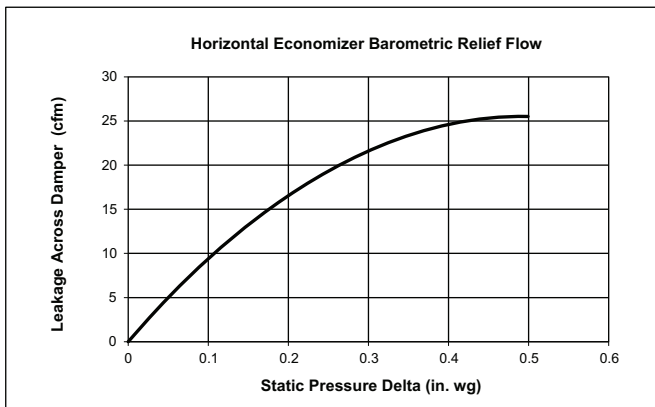
Horizontal Economizer Barometric Relief



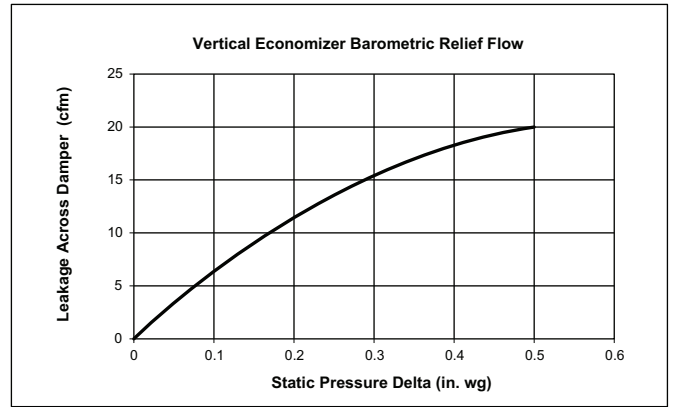
Vertical Economizer Barometric Relief



Horizontal Economizer Damper Leakage

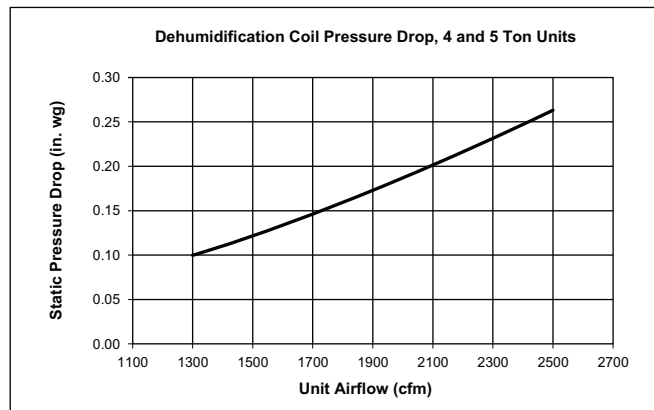
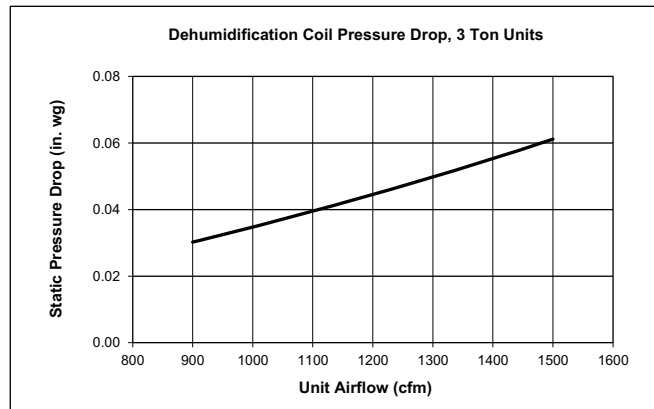


Vertical Economizer Damper Leakage



Performance data (cont)

Hot Gas Re-Heat System Coil Pressure Drops



MERV-13 filters pressure drop

NOTE: For field-installed MERV-13 filters, no additional pressure drop adjustments are necessary. The standard fan tables accommodate usage.

Fan data

GENERAL FAN PERFORMANCE NOTES

1. Interpolation is permissible. Do not extrapolate.
2. External static pressure is the static pressure difference between the return duct and the supply duct plus the static pressure caused by any FIOPs or accessories.
3. Tabular data accounts for pressure loss due to clean filters, unit casing, wet coils, and highest gas heat exchanger (when gas heat unit).
4. Factory options and accessories may effect static pressure losses. Gas heat unit fan tables assume highest gas heat models; for fan selections with low or medium heat models, the user must deduct low and medium heat static pressures. Selection software is available, through your salesperson, to help you select the best motor/drive combination for your application.
5. The fan performance tables offer motor/drive recommendations. In cases when 2 motor/drive combinations would work, we recommend the lower horsepower option.
6. For information on the electrical properties of our motors, please see the Electrical Data section of the Product Data book for this model and size.
7. For more information on the performance limits of our motors, see the Application Data section of the Product Data book for this model and size.
8. The EPACT (Energy Policy Act of 1992) regulates energy requirements for specific types of indoor fan motors. Motors regulated by EPACT include any general purpose, T-frame (3-digit, 143 and larger), single-speed, foot mounted, polyphase, squirrel cage induction motors of NEMA (National Electrical Manufacturers Association) design A and B, manufactured for use in the United States. Ranging from 1 to 200 Hp, these continuous-duty motors operate on 230 and 460 volt, 60 Hz power. If a motor does not fit into these specifications, the motor does not have to be replaced by an EPACT compliant energy-efficient motor. Variable-speed motors are exempt from EPACT compliance requirements.

Fan data (cont)

RGW037K(G/H) — Single Phase Ultra Low NOx — 3 Ton Vertical Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
900	1129	0.10	1356	0.17	1544	0.26	1708	0.35	1857	0.45
975	1182	0.11	1402	0.19	1586	0.28	1748	0.37	1894	0.47
1050	1236	0.13	1449	0.21	1630	0.30	1789	0.40	1933	0.50
1125	1290	0.15	1498	0.23	1675	0.33	1831	0.43	1973	0.53
1200	1346	0.17	1547	0.26	1721	0.35	1874	0.46	2014	0.57
1275	1403	0.19	1598	0.28	1768	0.38	1919	0.49	2057	0.61
1350	1460	0.22	1651	0.31	1816	0.42	1965	0.53	2100	0.64
1425	1519	0.24	1703	0.34	1865	0.45	2012	0.57	2145	0.69
1500	1579	0.27	1757	0.38	1916	0.49	2059	0.61	2191	0.73

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
900	1994	0.55	2121	0.66	2241	0.78	2354	0.91	2461	1.04
975	2029	0.58	2155	0.70	2274	0.82	2386	0.95	—	—
1050	2066	0.61	2190	0.73	2307	0.86	2419	0.99	—	—
1125	2104	0.65	2227	0.77	2343	0.90	2453	1.03	—	—
1200	2144	0.69	2265	0.81	2379	0.94	2488	1.07	—	—
1275	2184	0.73	2304	0.85	2417	0.98	—	—	—	—
1350	2226	0.77	2345	0.90	2456	1.03	—	—	—	—
1425	2269	0.81	2386	0.95	—	—	—	—	—	—
1500	2313	0.86	2429	1.00	—	—	—	—	—	—

Standard Static 1129-1890 rpm, 0.44 Max bhp

Medium Static 1129-2190 rpm, 0.71 Max bhp

High Static 1129-2490 rpm, 1.07 Max bhp

RGW037K(G/H) — Single Phase Ultra Low NOx — Standard Static — 3 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1129	6.0	1356	7.2	1544	8.2	1708	9.0	—	—
975	1182	6.3	1402	7.4	1586	8.4	1748	9.2	—	—
1050	1236	6.5	1449	7.7	1630	8.6	1789	9.5	—	—
1125	1290	6.8	1498	7.9	1675	8.9	1831	9.7	—	—
1200	1346	7.1	1547	8.2	1721	9.1	—	—	—	—
1275	1403	7.4	1598	8.5	1768	9.4	—	—	—	—
1350	1460	7.7	1651	8.7	1816	9.6	—	—	—	—
1425	1519	8.0	1703	9.0	—	—	—	—	—	—
1500	1579	8.4	1757	9.3	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1129-1890 rpm

Fan data (cont)

RGW037K(G/H) — Single Phase Ultra Low NOx — Medium Static — 3 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1129	5.2	1356	6.2	1544	7.1	1708	7.8	1857	8.5
975	1182	5.4	1402	6.4	1586	7.2	1748	8.0	1894	8.6
1050	1236	5.6	1449	6.6	1630	7.4	1789	8.2	1933	8.8
1125	1290	5.9	1498	6.8	1675	7.6	1831	8.4	1973	9.0
1200	1346	6.1	1547	7.1	1721	7.9	1874	8.6	2014	9.2
1275	1403	6.4	1598	7.3	1768	8.1	1919	8.8	2057	9.4
1350	1460	6.7	1651	7.5	1816	8.3	1965	9.0	2100	9.6
1425	1519	6.9	1703	7.8	1865	8.5	2012	9.2	2145	9.8
1500	1579	7.2	1757	8.0	1916	8.7	2059	9.4	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1994	9.1	2121	9.7	—	—	—	—	—	—
975	2029	9.3	2155	9.8	—	—	—	—	—	—
1050	2066	9.4	—	—	—	—	—	—	—	—
1125	2104	9.6	—	—	—	—	—	—	—	—
1200	2144	9.8	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1129-2190 rpm

RGW037K(G/H) — Single Phase Ultra Low NOx — High Static — 3 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1129	4.5	1356	5.4	1544	6.2	1708	6.9	1857	7.5
975	1182	4.7	1402	5.6	1586	6.4	1748	7.0	1894	7.6
1050	1236	5.0	1449	5.8	1630	6.5	1789	7.2	1933	7.8
1125	1290	5.2	1498	6.0	1675	6.7	1831	7.4	1973	7.9
1200	1346	5.4	1547	6.2	1721	6.9	1874	7.5	2014	8.1
1275	1403	5.6	1598	6.4	1768	7.1	1919	7.7	2057	8.3
1350	1460	5.9	1651	6.6	1816	7.3	1965	7.9	2100	8.4
1425	1519	6.1	1703	6.8	1865	7.5	2012	8.1	2145	8.6
1500	1579	6.3	1757	7.1	1916	7.7	2059	8.3	2191	8.8

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1994	8.0	2121	8.5	2241	9.0	2354	9.5	2461	9.9
975	2029	8.1	2155	8.7	2274	9.1	2386	9.6	—	—
1050	2066	8.3	2190	8.8	2307	9.3	2419	9.7	—	—
1125	2104	8.4	2227	8.9	2343	9.4	2453	9.9	—	—
1200	2144	8.6	2265	9.1	2379	9.6	2488	10.0	—	—
1275	2184	8.8	2304	9.3	2417	9.7	—	—	—	—
1350	2226	8.9	2345	9.4	2456	9.9	—	—	—	—
1425	2269	9.1	2386	9.6	—	—	—	—	—	—
1500	2313	9.3	2429	9.8	—	—	—	—	—	—

High Static 1129-2490 rpm

Fan data (cont)

RGW037(H/L)(G/H) — Three Phase Ultra Low NOx — 3 Ton Vertical Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
900	1129	0.10	1356	0.17	1544	0.26	1708	0.35	1857	0.45
975	1182	0.11	1402	0.19	1586	0.28	1748	0.37	1894	0.47
1050	1236	0.13	1449	0.21	1630	0.30	1789	0.40	1933	0.50
1125	1290	0.15	1498	0.23	1675	0.33	1831	0.43	1973	0.53
1200	1346	0.17	1547	0.26	1721	0.35	1874	0.46	2014	0.57
1275	1403	0.19	1598	0.28	1768	0.38	1919	0.49	2057	0.61
1350	1460	0.22	1651	0.31	1816	0.42	1965	0.53	2100	0.64
1425	1519	0.24	1703	0.34	1865	0.45	2012	0.57	2145	0.69
1500	1579	0.27	1757	0.38	1916	0.49	2059	0.61	2191	0.73

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
900	1994	0.55	2121	0.66	2241	0.78	2354	0.91	2461	1.04
975	2029	0.58	2155	0.70	2274	0.82	2386	0.95	—	—
1050	2066	0.61	2190	0.73	2307	0.86	2419	0.99	—	—
1125	2104	0.65	2227	0.77	2343	0.90	2453	1.03	—	—
1200	2144	0.69	2265	0.81	2379	0.94	2488	1.07	—	—
1275	2184	0.73	2304	0.85	2417	0.98	—	—	—	—
1350	2226	0.77	2345	0.90	2456	1.03	—	—	—	—
1425	2269	0.81	2386	0.95	—	—	—	—	—	—
1500	2313	0.86	2429	1.00	—	—	—	—	—	—

Standard Static 1129-1890 rpm, 0.44 Max bhp

Medium Static 1129-2190 rpm, 0.71 Max bhp

High Static 1129-2490 rpm, 1.07 Max bhp

RGW037(H/L)(G/H) — Three Phase Ultra Low NOx — Standard Static — 3 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1129	6.0	1356	7.2	1544	8.2	1708	9.0	—	—
975	1182	6.3	1402	7.4	1586	8.4	1748	9.2	—	—
1050	1236	6.5	1449	7.7	1630	8.6	1789	9.5	—	—
1125	1290	6.8	1498	7.9	1675	8.9	1831	9.7	—	—
1200	1346	7.1	1547	8.2	1721	9.1	—	—	—	—
1275	1403	7.4	1598	8.5	1768	9.4	—	—	—	—
1350	1460	7.7	1651	8.7	1816	9.6	—	—	—	—
1425	1519	8.0	1703	9.0	—	—	—	—	—	—
1500	1579	8.4	1757	9.3	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1129-1890 rpm

Fan data (cont)

RGW037(H/L)(G/H) — Three Phase Ultra Low NOx — Medium Static — 3 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1129	5.2	1356	6.2	1544	7.1	1708	7.8	1857	8.5
975	1182	5.4	1402	6.4	1586	7.2	1748	8.0	1894	8.6
1050	1236	5.6	1449	6.6	1630	7.4	1789	8.2	1933	8.8
1125	1290	5.9	1498	6.8	1675	7.6	1831	8.4	1973	9.0
1200	1346	6.1	1547	7.1	1721	7.9	1874	8.6	2014	9.2
1275	1403	6.4	1598	7.3	1768	8.1	1919	8.8	2057	9.4
1350	1460	6.7	1651	7.5	1816	8.3	1965	9.0	2100	9.6
1425	1519	6.9	1703	7.8	1865	8.5	2012	9.2	2145	9.8
1500	1579	7.2	1757	8.0	1916	8.7	2059	9.4	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1994	9.1	2121	9.7	—	—	—	—	—	—
975	2029	9.3	2155	9.8	—	—	—	—	—	—
1050	2066	9.4	—	—	—	—	—	—	—	—
1125	2104	9.6	—	—	—	—	—	—	—	—
1200	2144	9.8	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1129-2190 rpm

RGW037(H/L)(G/H) — Three Phase Ultra Low NOx — High Static — 3 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1129	4.5	1356	5.4	1544	6.2	1708	6.9	1857	7.5
975	1182	4.7	1402	5.6	1586	6.4	1748	7.0	1894	7.6
1050	1236	5.0	1449	5.8	1630	6.5	1789	7.2	1933	7.8
1125	1290	5.2	1498	6.0	1675	6.7	1831	7.4	1973	7.9
1200	1346	5.4	1547	6.2	1721	6.9	1874	7.5	2014	8.1
1275	1403	5.6	1598	6.4	1768	7.1	1919	7.7	2057	8.3
1350	1460	5.9	1651	6.6	1816	7.3	1965	7.9	2100	8.4
1425	1519	6.1	1703	6.8	1865	7.5	2012	8.1	2145	8.6
1500	1579	6.3	1757	7.1	1916	7.7	2059	8.3	2191	8.8

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1994	8.0	2121	8.5	2241	9.0	2354	9.5	2461	9.9
975	2029	8.1	2155	8.7	2274	9.1	2386	9.6	—	—
1050	2066	8.3	2190	8.8	2307	9.3	2419	9.7	—	—
1125	2104	8.4	2227	8.9	2343	9.4	2453	9.9	—	—
1200	2144	8.6	2265	9.1	2379	9.6	2488	10.0	—	—
1275	2184	8.8	2304	9.3	2417	9.7	—	—	—	—
1350	2226	8.9	2345	9.4	2456	9.9	—	—	—	—
1425	2269	9.1	2386	9.6	—	—	—	—	—	—
1500	2313	9.3	2429	9.8	—	—	—	—	—	—

High Static 1129-2490 rpm

Fan data (cont)

RGW049K(G/H) — Single Phase Ultra Low NOx — 4 Ton Vertical Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1200	1262	0.21	1453	0.33	1614	0.45	1757	0.58	1888	0.72
1300	1333	0.25	1517	0.37	1674	0.50	1813	0.63	1942	0.78
1400	1405	0.29	1583	0.42	1735	0.55	1872	0.70	1997	0.84
1500	1478	0.34	1650	0.48	1799	0.62	1932	0.76	2055	0.92
1600	1552	0.40	1718	0.54	1863	0.68	1994	0.84	2114	1.00
1700	1627	0.46	1787	0.60	1929	0.76	2057	0.92	2174	1.09
1800	1704	0.52	1857	0.68	1995	0.84	2121	1.01	2236	1.18
1900	1781	0.60	1929	0.76	2063	0.93	2186	1.10	2299	1.28
2000	1859	0.68	2001	0.85	2132	1.02	2252	1.21	2363	1.39

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1200	2011	0.87	2126	1.02	2236	1.19	2341	1.37	2442	1.56
1300	2061	0.93	2174	1.09	2281	1.26	2383	1.44	—	—
1400	2114	1.00	2224	1.17	2329	1.34	2429	1.52	—	—
1500	2169	1.08	2277	1.25	2379	1.43	—	—	—	—
1600	2226	1.17	2331	1.34	2432	1.52	—	—	—	—
1700	2284	1.26	2388	1.44	—	—	—	—	—	—
1800	2344	1.36	2446	1.55	—	—	—	—	—	—
1900	2405	1.47	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1262-1900 rpm, 0.72 Max bhp

Medium Static 1262-2170 rpm, 1.06 Max bhp

High Static 1262-2460 rpm, 1.53 Max bhp

RGW049K(G/H) — Single Phase Ultra Low NOx — Standard Static — 4 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1262	6.6	1453	7.6	1614	8.5	1757	9.2	1888	9.9
1300	1333	7.0	1517	8.0	1674	8.8	1813	9.5	—	—
1400	1405	7.4	1583	8.3	1735	9.1	1872	9.9	—	—
1500	1478	7.8	1650	8.7	1799	9.5	—	—	—	—
1600	1552	8.2	1718	9.0	1863	9.8	—	—	—	—
1700	1627	8.6	1787	9.4	—	—	—	—	—	—
1800	1704	9.0	1857	9.8	—	—	—	—	—	—
1900	1781	9.4	—	—	—	—	—	—	—	—
2000	1859	9.8	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1262-1900 rpm

Fan data (cont)

RGW049K(G/H) — Single Phase Ultra Low NOx — Medium Static — 4 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1262	5.8	1453	6.7	1614	7.4	1757	8.1	1888	8.7
1300	1333	6.1	1517	7.0	1674	7.7	1813	8.4	1942	8.9
1400	1405	6.5	1583	7.3	1735	8.0	1872	8.6	1997	9.2
1500	1478	6.8	1650	7.6	1799	8.3	1932	8.9	2055	9.5
1600	1552	7.2	1718	7.9	1863	8.6	1994	9.2	2114	9.7
1700	1627	7.5	1787	8.2	1929	8.9	2057	9.5	—	—
1800	1704	7.9	1857	8.6	1995	9.2	2121	9.8	—	—
1900	1781	8.2	1929	8.9	2063	9.5	—	—	—	—
2000	1859	8.6	2001	9.2	2132	9.8	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	2011	9.3	2126	9.8	—	—	—	—	—	—
1300	2061	9.5	—	—	—	—	—	—	—	—
1400	2114	9.7	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1262-2170 rpm

RGW049K(G/H) — Single Phase Ultra Low NOx — High Static — 4 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1262	5.1	1453	5.9	1614	6.6	1757	7.1	1888	7.7
1300	1333	5.4	1517	6.2	1674	6.8	1813	7.4	1942	7.9
1400	1405	5.7	1583	6.4	1735	7.1	1872	7.6	1997	8.1
1500	1478	6.0	1650	6.7	1799	7.3	1932	7.9	2055	8.4
1600	1552	6.3	1718	7.0	1863	7.6	1994	8.1	2114	8.6
1700	1627	6.6	1787	7.3	1929	7.8	2057	8.4	2174	8.8
1800	1704	6.9	1857	7.5	1995	8.1	2121	8.6	2236	9.1
1900	1781	7.2	1929	7.8	2063	8.4	2186	8.9	2299	9.3
2000	1859	7.6	2001	8.1	2132	8.7	2252	9.2	2363	9.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	2011	8.2	2126	8.6	2236	9.1	2341	9.5	2442	9.9
1300	2061	8.4	2174	8.8	2281	9.3	2383	9.7	—	—
1400	2114	8.6	2224	9.0	2329	9.5	2429	9.9	—	—
1500	2169	8.8	2277	9.3	2379	9.7	—	—	—	—
1600	2226	9.0	2331	9.5	2432	9.9	—	—	—	—
1700	2284	9.3	2388	9.7	—	—	—	—	—	—
1800	2344	9.5	2446	9.9	—	—	—	—	—	—
1900	2405	9.8	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

High Static 1262-2460 rpm

Fan data (cont)

RGW049(H/L)(G/H) — Three Phase Ultra Low NOx — 4 Ton Vertical Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1200	1262	0.21	1452	0.33	1614	0.45	1757	0.58	1888	0.72
1300	1333	0.25	1516	0.37	1674	0.50	1813	0.63	1942	0.78
1400	1405	0.29	1583	0.42	1735	0.55	1872	0.70	1997	0.84
1500	1478	0.34	1650	0.48	1798	0.62	1932	0.76	2054	0.92
1600	1552	0.40	1718	0.54	1863	0.68	1993	0.84	2114	1.00
1700	1627	0.46	1787	0.60	1928	0.76	2057	0.92	2174	1.09
1800	1704	0.52	1857	0.68	1995	0.84	2121	1.01	2236	1.18
1900	1781	0.60	1929	0.76	2063	0.93	2185	1.10	2299	1.28
2000	1859	0.68	2001	0.85	2132	1.02	2252	1.21	2363	1.39

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1200	2011	0.87	2126	1.02	2236	1.19	2341	1.37	2442	1.55
1300	2061	0.93	2174	1.09	2281	1.26	2384	1.44	2482	1.62
1400	2114	1.00	2224	1.17	2329	1.34	2429	1.52	2526	1.71
1500	2169	1.08	2277	1.25	2379	1.43	2477	1.61	2572	1.80
1600	2226	1.17	2331	1.34	2432	1.52	2528	1.71	2621	1.91
1700	2284	1.26	2388	1.44	2486	1.63	2581	1.82	—	—
1800	2344	1.36	2446	1.55	2543	1.74	2636	1.94	—	—
1900	2405	1.47	2505	1.66	2600	1.86	—	—	—	—
2000	2467	1.59	2565	1.78	2659	1.99	—	—	—	—

Standard Static 1262-1900 rpm, 0.72 Max bhp

Medium Static 1262-2170 rpm, 1.06 Max bhp

High Static 1262-2660 rpm, 1.96 Max bhp

RGW049(H/L)(G/H) — Three Phase Ultra Low NOx — Standard Static — 4 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1262	6.6	1453	7.6	1614	8.5	1757	9.2	1888	9.9
1300	1333	7.0	1517	8.0	1674	8.8	1813	9.5	—	—
1400	1405	7.4	1583	8.3	1735	9.1	1872	9.9	—	—
1500	1478	7.8	1650	8.7	1799	9.5	—	—	—	—
1600	1552	8.2	1718	9.0	1863	9.8	—	—	—	—
1700	1627	8.6	1787	9.4	—	—	—	—	—	—
1800	1704	9.0	1857	9.8	—	—	—	—	—	—
1900	1781	9.4	—	—	—	—	—	—	—	—
2000	1859	9.8	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1262-1900 rpm

Fan data (cont)

RGW049(H/L)(G/H) — Three Phase Ultra Low NOx — Medium Static — 4 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1262	5.8	1453	6.7	1614	7.4	1757	8.1	1888	8.7
1300	1333	6.1	1517	7.0	1674	7.7	1813	8.4	1942	8.9
1400	1405	6.5	1583	7.3	1735	8.0	1872	8.6	1997	9.2
1500	1478	6.8	1650	7.6	1799	8.3	1932	8.9	2055	9.5
1600	1552	7.2	1718	7.9	1863	8.6	1994	9.2	2114	9.7
1700	1627	7.5	1787	8.2	1929	8.9	2057	9.5	—	—
1800	1704	7.9	1857	8.6	1995	9.2	2121	9.8	—	—
1900	1781	8.2	1929	8.9	2063	9.5	—	—	—	—
2000	1859	8.6	2001	9.2	2132	9.8	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	2011	9.3	2126	9.8	—	—	—	—	—	—
1300	2061	9.5	—	—	—	—	—	—	—	—
1400	2114	9.7	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1262-2170 rpm

RGW049(H/L)(G/H) — Three Phase Ultra Low NOx — High Static — 4 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1262	4.7	1452	5.5	1614	6.1	1757	6.6	1888	7.1
1300	1333	5.0	1516	5.7	1674	6.3	1813	6.8	1942	7.3
1400	1405	5.3	1583	6.0	1735	6.5	1872	7.0	1997	7.5
1500	1478	5.6	1650	6.2	1798	6.8	1932	7.3	2054	7.7
1600	1552	5.8	1718	6.5	1863	7.0	1993	7.5	2114	7.9
1700	1627	6.1	1787	6.7	1928	7.2	2057	7.7	2174	8.2
1800	1704	6.4	1857	7.0	1995	7.5	2121	8.0	2236	8.4
1900	1781	6.7	1929	7.3	2063	7.8	2185	8.2	2299	8.6
2000	1859	7.0	2001	7.5	2132	8.0	2252	8.5	2363	8.9

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	2011	7.6	2126	8.0	2236	8.4	2341	8.8	2442	9.2
1300	2061	7.7	2174	8.2	2281	8.6	2384	9.0	2482	9.3
1400	2114	7.9	2224	8.4	2329	8.8	2429	9.1	2526	9.5
1500	2169	8.2	2277	8.6	2379	8.9	2477	9.3	2572	9.7
1600	2226	8.4	2331	8.8	2432	9.1	2528	9.5	2621	9.9
1700	2284	8.6	2388	9.0	2486	9.3	2581	9.7	—	—
1800	2344	8.8	2446	9.2	2543	9.6	2623	9.9	—	—
1900	2405	9.0	2505	9.4	2600	9.8	—	—	—	—
2000	2467	9.3	2565	9.6	2659	10.0	—	—	—	—

High Static 1262-2660 rpm

Fan data (cont)

RGW061K(G/H) — Single Phase Ultra Low NOx — 5 Ton Vertical Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1500	1388	0.28	1561	0.40	1712	0.53	1845	0.66	1967	0.80
1625	1473	0.34	1638	0.46	1785	0.60	1915	0.74	2034	0.89
1750	1561	0.40	1717	0.53	1859	0.68	1987	0.83	2104	0.98
1875	1650	0.47	1798	0.61	1935	0.77	2060	0.92	2174	1.08
2000	1741	0.56	1881	0.70	2013	0.86	2134	1.03	2247	1.20
2125	1832	0.65	1965	0.80	2092	0.97	2210	1.14	2320	1.32
2250	1925	0.75	2050	0.91	2172	1.08	2287	1.26	2394	1.45
2375	2018	0.87	2137	1.03	2254	1.21	2365	1.40	2470	1.59
2500	2112	1.00	2225	1.16	2337	1.35	2445	1.55	2547	1.75

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1500	2079	0.95	2185	1.10	2286	1.26	2381	1.43	2473	1.60
1625	2145	1.04	2249	1.20	2347	1.37	2441	1.54	2531	1.71
1750	2212	1.14	2314	1.31	2410	1.48	2502	1.65	2591	1.84
1875	2281	1.25	2381	1.43	2476	1.60	2566	1.78	2653	1.97
2000	2351	1.37	2450	1.55	2543	1.74	2632	1.93	—	—
2125	2423	1.50	2520	1.69	2612	1.88	—	—	—	—
2250	2495	1.64	2591	1.84	—	—	—	—	—	—
2375	2569	1.79	—	—	—	—	—	—	—	—
2500	2644	1.95	—	—	—	—	—	—	—	—

Standard Static 1388-2150 rpm, 1.06 Max bhp

Medium Static 1388-2390 rpm, 1.44 Max bhp

High Static 1388-2660 rpm, 1.96 Max bhp

RGW061K(G/H) — Single Phase Ultra Low NOx — Standard Static — 5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1387	6.5	1561	7.3	1711	8.0	1845	8.6	1966	9.1
1625	1473	6.9	1638	7.6	1784	8.3	1914	8.9	2034	9.5
1750	1560	7.3	1717	8.0	1859	8.6	1986	9.2	2103	9.8
1875	1650	7.7	1798	8.4	1935	9.0	2059	9.6	—	—
2000	1741	8.1	1881	8.7	2012	9.4	2134	9.9	—	—
2125	1832	8.5	1965	9.1	2091	9.7	—	—	—	—
2250	1925	9.0	2050	9.5	—	—	—	—	—	—
2375	2018	9.4	2137	9.9	—	—	—	—	—	—
2500	2113	9.8	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2079	9.7	—	—	—	—	—	—	—	—
1625	2144	10.0	—	—	—	—	—	—	—	—
1750	—	—	—	—	—	—	—	—	—	—
1875	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1388-2150 rpm, 1.06 Max bhp

Fan data (cont)

RGW061K(G/H) — Single Phase Ultra Low NOx — Medium Static — 5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1387	5.8	1561	6.5	1711	7.2	1845	7.7	1966	8.2
1625	1473	6.2	1638	6.9	1784	7.5	1914	8.0	2034	8.5
1750	1560	6.5	1717	7.2	1859	7.8	1986	8.3	2103	8.8
1875	1650	6.9	1798	7.5	1935	8.1	2059	8.6	2174	9.1
2000	1741	7.3	1881	7.9	2012	8.4	2134	8.9	2246	9.4
2125	1832	7.7	1965	8.2	2091	8.7	2209	9.2	2320	9.7
2250	1925	8.1	2050	8.6	2172	9.1	2286	9.6	—	—
2375	2018	8.4	2137	8.9	2254	9.4	2365	9.9	—	—
2500	2113	8.8	2225	9.3	2337	9.8	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2079	8.7	2185	9.1	2285	9.6	2381	10.0	—	—
1625	2144	9.0	2248	9.4	2346	9.8	—	—	—	—
1750	2211	9.3	2313	9.7	—	—	—	—	—	—
1875	2281	9.5	2380	10.0	—	—	—	—	—	—
2000	2351	9.8	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Medium Static 1388-2390 rpm, 1.44 Max bhp

RGW061K(G/H) — Single Phase Ultra Low NOx — High Static — 5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1388	5.2	1561	5.9	1712	6.4	1845	6.9	1967	7.4
1625	1473	5.5	1638	6.2	1785	6.7	1915	7.2	2034	7.6
1750	1561	5.9	1717	6.5	1859	7.0	1987	7.5	2104	7.9
1875	1650	6.2	1798	6.8	1935	7.3	2060	7.7	2174	8.2
2000	1741	6.5	1881	7.1	2013	7.6	2134	8.0	2247	8.4
2125	1832	6.9	1965	7.4	2092	7.9	2210	8.3	2320	8.7
2250	1925	7.2	2050	7.7	2172	8.2	2287	8.6	2394	9.0
2375	2018	7.6	2137	8.0	2254	8.5	2365	8.9	2470	9.3
2500	2112	7.9	2225	8.4	2337	8.8	2445	9.2	2547	9.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2079	7.8	2185	8.2	2286	8.6	2381	9.0	2473	9.3
1625	2145	8.1	2249	8.5	2347	8.8	2441	9.2	2531	9.5
1750	2212	8.3	2314	8.7	2410	9.1	2502	9.4	2591	9.7
1875	2281	8.6	2381	9.0	2476	9.3	2566	9.6	2653	10.0
2000	2351	8.8	2450	9.2	2543	9.6	2632	9.9	—	—
2125	2423	9.1	2520	9.5	2612	9.8	—	—	—	—
2250	2495	9.4	2591	9.7	—	—	—	—	—	—
2375	2569	9.7	—	—	—	—	—	—	—	—
2500	2644	9.9	—	—	—	—	—	—	—	—

High Static 1388-2660 rpm, 1.96 Max bhp

Fan data (cont)

RGW061(H/L)(G/H) — Three Phase Ultra Low NOx — 5 Ton Vertical Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1500	1387	0.28	1560	0.40	1711	0.53	1845	0.66	1966	0.80
1625	1473	0.34	1638	0.46	1784	0.60	1915	0.74	2034	0.89
1750	1561	0.40	1717	0.53	1858	0.68	1986	0.83	2103	0.98
1875	1650	0.47	1798	0.61	1934	0.76	2059	0.92	2174	1.08
2000	1741	0.56	1881	0.70	2012	0.86	2133	1.02	2246	1.20
2125	1832	0.65	1965	0.80	2091	0.97	2209	1.14	2319	1.32
2250	1925	0.75	2050	0.91	2172	1.08	2286	1.26	2394	1.45
2375	2018	0.87	2137	1.03	2254	1.21	2364	1.40	2469	1.59
2500	2113	1.00	2225	1.16	2337	1.35	2444	1.54	2547	1.75

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1500	2079	0.95	2185	1.10	2285	1.26	2381	1.43	2473	1.60
1625	2144	1.04	2248	1.20	2346	1.36	2440	1.53	2530	1.71
1750	2212	1.14	2313	1.31	2410	1.48	2502	1.65	2590	1.83
1875	2281	1.25	2381	1.43	2475	1.60	2566	1.78	2653	1.97
2000	2351	1.37	2449	1.55	2543	1.74	2632	1.93	2717	2.12
2125	2422	1.50	2519	1.69	2611	1.88	2699	2.08	2783	2.28
2250	2495	1.64	2590	1.84	2681	2.04	2767	2.24	—	—
2375	2569	1.79	2663	2.00	2752	2.20	—	—	—	—
2500	2643	1.95	2736	2.17	2824	2.38	—	—	—	—

Standard Static 1387-2150 rpm, 1.06 Max bhp

Medium Static 1387-2390 rpm, 1.44 Max bhp

High Static 1387-2836 rpm, 2.43 Max bhp

RGW061(H/L)(G/H) — Three Phase Ultra Low NOx — Standard Static — 5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1387	6.5	1560	7.3	1711	8.0	1845	8.6	1966	9.1
1625	1473	6.9	1638	7.6	1784	8.3	1915	8.9	2034	9.5
1750	1561	7.3	1717	8.0	1858	8.6	1986	9.2	2103	9.8
1875	1650	7.7	1798	8.4	1934	9.0	2059	9.6	—	—
2000	1741	8.1	1881	8.7	2012	9.4	2133	9.9	—	—
2125	1832	8.5	1965	9.1	2091	9.7	—	—	—	—
2250	1925	9.0	2050	9.5	—	—	—	—	—	—
2375	2018	9.4	2137	9.9	—	—	—	—	—	—
2500	2113	9.8	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2079	9.7	—	—	—	—	—	—	—	—
1625	2144	10.0	—	—	—	—	—	—	—	—
1750	—	—	—	—	—	—	—	—	—	—
1875	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1387-2150 rpm

Fan data (cont)

RGW061(H/L)(G/H) — Three Phase Ultra Low NOx — Medium Static — 5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1387	5.8	1560	6.5	1711	7.2	1845	7.7	1966	8.2
1625	1473	6.2	1638	6.9	1784	7.5	1915	8.0	2034	8.5
1750	1561	6.5	1717	7.2	1858	7.8	1986	8.3	2103	8.8
1875	1650	6.9	1798	7.5	1934	8.1	2059	8.6	2174	9.1
2000	1741	7.3	1881	7.9	2012	8.4	2133	8.9	2246	9.4
2125	1832	7.7	1965	8.2	2091	8.7	2209	9.2	2319	9.7
2250	1925	8.1	2050	8.6	2172	9.1	2286	9.6	—	—
2375	2018	8.4	2137	8.9	2254	9.4	2364	9.9	—	—
2500	2113	8.8	2225	9.3	2337	9.8	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2079	8.7	2185	9.1	2285	9.6	2381	10.0	—	—
1625	2144	9.0	2248	9.4	2346	9.8	—	—	—	—
1750	2212	9.3	2313	9.7	—	—	—	—	—	—
1875	2281	9.5	2381	10.0	—	—	—	—	—	—
2000	2351	9.8	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Medium Static 1387-2390 rpm

RGW061(H/L)(G/H) — Three Phase Ultra Low NOx — High Static — 5 Ton Vertical Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1387	4.9	1560	5.5	1711	6.0	1845	6.5	1966	6.9
1625	1473	5.2	1638	5.8	1784	6.3	1915	6.8	2034	7.2
1750	1561	5.5	1717	6.1	1858	6.6	1986	7.0	2103	7.4
1875	1650	5.8	1798	6.3	1934	6.8	2059	7.3	2174	7.7
2000	1741	6.1	1881	6.6	2012	7.1	2133	7.5	2246	7.9
2125	1832	6.5	1965	6.9	2091	7.4	2209	7.8	2319	8.2
2250	1925	6.8	2050	7.2	2172	7.7	2286	8.1	2394	8.4
2375	2018	7.1	2137	7.5	2254	7.9	2364	8.3	2469	8.7
2500	2113	7.5	2225	7.8	2337	8.2	2444	8.6	2547	9.0

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2079	7.3	2185	7.7	2285	8.1	2381	8.4	2473	8.7
1625	2144	7.6	2248	7.9	2346	8.3	2440	8.6	2530	8.9
1750	2212	7.8	2313	8.2	2410	8.5	2502	8.8	2590	9.1
1875	2281	8.0	2381	8.4	2475	8.7	2566	9.0	2653	9.4
2000	2351	8.3	2449	8.6	2543	9.0	2632	9.3	2717	9.6
2125	2422	8.5	2519	8.9	2611	9.2	2699	9.5	2783	9.8
2250	2495	8.8	2590	9.1	2681	9.5	2767	9.8	—	—
2375	2569	9.1	2663	9.4	2752	9.7	—	—	—	—
2500	2643	9.3	2736	9.6	2824	10.0	—	—	—	—

High Static 1387-2836 rpm

Fan data (cont)

RGW037K(G/H) — Single Phase Ultra Low NOx — 3 Ton Horizontal Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
900	1097	0.09	1331	0.16	1524	0.25	1692	0.34	1842	0.44
975	1146	0.10	1373	0.18	1562	0.27	1728	0.36	1877	0.46
1050	1197	0.12	1416	0.20	1601	0.29	1765	0.38	1912	0.49
1125	1249	0.14	1460	0.22	1642	0.31	1803	0.41	1949	0.52
1200	1303	0.15	1506	0.24	1684	0.33	1842	0.44	1986	0.55
1275	1359	0.17	1553	0.26	1727	0.36	1883	0.46	2025	0.58
1350	1415	0.20	1602	0.29	1771	0.39	1925	0.50	2064	0.61
1425	1472	0.22	1652	0.31	1817	0.42	1967	0.53	2105	0.65
1500	1530	0.25	1703	0.34	1863	0.45	2010	0.57	2147	0.69

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
900	1980	0.54	2107	0.65	2225	0.77	2337	0.89	2443	1.02
975	2013	0.57	2139	0.68	2258	0.80	2369	0.93	2475	1.06
1050	2048	0.60	2173	0.71	2291	0.84	2401	0.96	—	—
1125	2083	0.63	2207	0.75	2324	0.87	2435	1.01	—	—
1200	2119	0.66	2242	0.78	2359	0.91	2468	1.05	—	—
1275	2156	0.70	2278	0.82	2394	0.96	—	—	—	—
1350	2194	0.74	2315	0.86	2429	1.00	—	—	—	—
1425	2233	0.78	2353	0.91	2466	1.04	—	—	—	—
1500	2273	0.82	2391	0.95	—	—	—	—	—	—

Standard Static 1097-1890 rpm, 0.44 Max bhp

Medium Static 1097-2190 rpm, 0.71 Max bhp

High Static 1097-2490 rpm, 1.07 Max bhp

RGW037K(G/H) — Single Phase Ultra Low NOx — Standard Static — 3 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1097	5.8	1331	7.0	1524	8.1	1692	9.0	1842	9.7
975	1146	6.1	1373	7.3	1562	8.3	1728	9.1	—	—
1050	1197	6.3	1416	7.5	1601	8.5	1765	9.3	—	—
1125	1249	6.6	1460	7.7	1642	8.7	1803	9.5	—	—
1200	1303	6.9	1506	8.0	1684	8.9	1842	9.7	—	—
1275	1359	7.2	1553	8.2	1727	9.1	—	—	—	—
1350	1415	7.5	1602	8.5	1771	9.4	—	—	—	—
1425	1472	7.8	1652	8.7	1817	9.6	—	—	—	—
1500	1530	8.1	1703	9.0	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1097-1890 rpm

Fan data (cont)

RGW037K(G/H) — Single Phase Ultra Low NOx — Medium Static — 3 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1097	5.0	1331	6.1	1524	7.0	1692	7.7	1842	8.4
975	1146	5.2	1373	6.3	1562	7.1	1728	7.9	1877	8.6
1050	1197	5.5	1416	6.5	1601	7.3	1765	8.1	1912	8.7
1125	1249	5.7	1460	6.7	1642	7.5	1803	8.2	1949	8.9
1200	1303	5.9	1506	6.9	1684	7.7	1842	8.4	1986	9.1
1275	1359	6.2	1553	7.1	1727	7.9	1883	8.6	2025	9.2
1350	1415	6.5	1602	7.3	1771	8.1	1925	8.8	2064	9.4
1425	1472	6.7	1652	7.5	1817	8.3	1967	9.0	2105	9.6
1500	1530	7.0	1703	7.8	1863	8.5	2010	9.2	2147	9.8

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1980	9.0	2107	9.6	—	—	—	—	—	—
975	2013	9.2	2139	9.8	—	—	—	—	—	—
1050	2048	9.4	2173	9.9	—	—	—	—	—	—
1125	2083	9.5	—	—	—	—	—	—	—	—
1200	2119	9.7	—	—	—	—	—	—	—	—
1275	2156	9.8	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1097-2190 rpm

RGW037K(G/H) — Single Phase Ultra Low NOx — High Static — 3 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1097	4.4	1331	5.3	1524	6.1	1692	6.8	1842	7.4
975	1146	4.6	1373	5.5	1562	6.3	1728	6.9	1877	7.5
1050	1197	4.8	1416	5.7	1601	6.4	1765	7.1	1912	7.7
1125	1249	5.0	1460	5.9	1642	6.6	1803	7.2	1949	7.8
1200	1303	5.2	1506	6.0	1684	6.8	1842	7.4	1986	8.0
1275	1359	5.5	1553	6.2	1727	6.9	1883	7.6	2025	8.1
1350	1415	5.7	1602	6.4	1771	7.1	1925	7.7	2064	8.3
1425	1472	5.9	1652	6.6	1817	7.3	1967	7.9	2105	8.5
1500	1530	6.1	1703	6.8	1863	7.5	2010	8.1	2147	8.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1980	8.0	2107	8.5	2225	8.9	2337	9.4	2443	9.8
975	2013	8.1	2139	8.6	2258	9.1	2369	9.5	2475	9.9
1050	2048	8.2	2173	8.7	2291	9.2	2401	9.6	—	—
1125	2083	8.4	2207	8.9	2324	9.3	2435	9.8	—	—
1200	2119	8.5	2242	9.0	2359	9.5	2468	9.9	—	—
1275	2156	8.7	2278	9.1	2394	9.6	—	—	—	—
1350	2194	8.8	2315	9.3	2429	9.8	—	—	—	—
1425	2233	9.0	2353	9.4	2466	9.9	—	—	—	—
1500	2273	9.1	2391	9.6	—	—	—	—	—	—

High Static 1097-2490 rpm

Fan data (cont)

RGW037(H/L)(G/H) — Three Phase Ultra Low NOx — 3 Ton Horizontal Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
900	1097	0.09	1331	0.16	1524	0.25	1692	0.34	1842	0.44
975	1146	0.10	1373	0.18	1562	0.27	1728	0.36	1877	0.46
1050	1197	0.12	1416	0.20	1601	0.29	1765	0.38	1912	0.49
1125	1249	0.14	1460	0.22	1642	0.31	1803	0.41	1949	0.52
1200	1303	0.15	1506	0.24	1684	0.33	1842	0.44	1986	0.55
1275	1359	0.17	1553	0.26	1727	0.36	1883	0.46	2025	0.58
1350	1415	0.20	1602	0.29	1771	0.39	1925	0.50	2064	0.61
1425	1472	0.22	1652	0.31	1817	0.42	1967	0.53	2105	0.65
1500	1530	0.25	1703	0.34	1863	0.45	2010	0.57	2147	0.69

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
900	1980	0.54	2107	0.65	2225	0.77	2337	0.89	2443	1.02
975	2013	0.57	2139	0.68	2258	0.80	2369	0.93	2475	1.06
1050	2048	0.60	2173	0.71	2291	0.84	2401	0.96	—	—
1125	2083	0.63	2207	0.75	2324	0.87	2435	1.01	—	—
1200	2119	0.66	2242	0.78	2359	0.91	2468	1.05	—	—
1275	2156	0.70	2278	0.82	2394	0.96	—	—	—	—
1350	2194	0.74	2315	0.86	2429	1.00	—	—	—	—
1425	2233	0.78	2353	0.91	2466	1.04	—	—	—	—
1500	2273	0.82	2391	0.95	—	—	—	—	—	—

Standard Static 1097-1890 rpm, 0.44 Max bhp

Medium Static 1097-2190 rpm, 0.71 Max bhp

High Static 1097-2490 rpm, 1.07 Max bhp

RGW037(H/L)(G/H) — Three Phase Ultra Low NOx — Standard Static — 3 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1097	5.8	1331	7.0	1524	8.1	1692	9.0	1842	9.7
975	1146	6.1	1373	7.3	1562	8.3	1728	9.1	—	—
1050	1197	6.3	1416	7.5	1601	8.5	1765	9.3	—	—
1125	1249	6.6	1460	7.7	1642	8.7	1803	9.5	—	—
1200	1303	6.9	1506	8.0	1684	8.9	1842	9.7	—	—
1275	1359	7.2	1553	8.2	1727	9.1	—	—	—	—
1350	1415	7.5	1602	8.5	1771	9.4	—	—	—	—
1425	1472	7.8	1652	8.7	1817	9.6	—	—	—	—
1500	1530	8.1	1703	9.0	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	—	—	—	—	—	—	—	—	—	—
975	—	—	—	—	—	—	—	—	—	—
1050	—	—	—	—	—	—	—	—	—	—
1125	—	—	—	—	—	—	—	—	—	—
1200	—	—	—	—	—	—	—	—	—	—
1275	—	—	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Standard Static 1097-1890 rpm

Fan data (cont)

RGW037(H/L)(G/H) — Three Phase Ultra Low NOx — Medium Static — 3 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1097	5.0	1331	6.1	1524	7.0	1692	7.7	1842	8.4
975	1146	5.2	1373	6.3	1562	7.1	1728	7.9	1877	8.6
1050	1197	5.5	1416	6.5	1601	7.3	1765	8.1	1912	8.7
1125	1249	5.7	1460	6.7	1642	7.5	1803	8.2	1949	8.9
1200	1303	5.9	1506	6.9	1684	7.7	1842	8.4	1986	9.1
1275	1359	6.2	1553	7.1	1727	7.9	1883	8.6	2025	9.2
1350	1415	6.5	1602	7.3	1771	8.1	1925	8.8	2064	9.4
1425	1472	6.7	1652	7.5	1817	8.3	1967	9.0	2105	9.6
1500	1530	7.0	1703	7.8	1863	8.5	2010	9.2	2147	9.8

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1980	9.0	2107	9.6	—	—	—	—	—	—
975	2013	9.2	2139	9.8	—	—	—	—	—	—
1050	2048	9.4	2173	9.9	—	—	—	—	—	—
1125	2083	9.5	—	—	—	—	—	—	—	—
1200	2119	9.7	—	—	—	—	—	—	—	—
1275	2156	9.8	—	—	—	—	—	—	—	—
1350	—	—	—	—	—	—	—	—	—	—
1425	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—

Medium Static 1097-2190 rpm

RGW037(H/L)(G/H) — Three Phase Ultra Low NOx — High Static — 3 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1097	4.4	1331	5.3	1524	6.1	1692	6.8	1842	7.4
975	1146	4.6	1373	5.5	1562	6.3	1728	6.9	1877	7.5
1050	1197	4.8	1416	5.7	1601	6.4	1765	7.1	1912	7.7
1125	1249	5.0	1460	5.9	1642	6.6	1803	7.2	1949	7.8
1200	1303	5.2	1506	6.0	1684	6.8	1842	7.4	1986	8.0
1275	1359	5.5	1553	6.2	1727	6.9	1883	7.6	2025	8.1
1350	1415	5.7	1602	6.4	1771	7.1	1925	7.7	2064	8.3
1425	1472	5.9	1652	6.6	1817	7.3	1967	7.9	2105	8.5
1500	1530	6.1	1703	6.8	1863	7.5	2010	8.1	2147	8.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
900	1980	8.0	2107	8.5	2225	8.9	2337	9.4	2443	9.8
975	2013	8.1	2139	8.6	2258	9.1	2369	9.5	2475	9.9
1050	2048	8.2	2173	8.7	2291	9.2	2401	9.6	—	—
1125	2083	8.4	2207	8.9	2324	9.3	2435	9.8	—	—
1200	2119	8.5	2242	9.0	2359	9.5	2468	9.9	—	—
1275	2156	8.7	2278	9.1	2394	9.6	—	—	—	—
1350	2194	8.8	2315	9.3	2429	9.8	—	—	—	—
1425	2233	9.0	2353	9.4	2466	9.9	—	—	—	—
1500	2273	9.1	2391	9.6	—	—	—	—	—	—

High Static 1097-2490 rpm

Fan data (cont)

RGW049K(G/H) — Single Phase Ultra Low NOx — 4 Ton Horizontal Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1200	1217	0.19	1411	0.30	1576	0.42	1722	0.55	1855	0.68
1300	1283	0.23	1470	0.34	1631	0.46	1774	0.60	1904	0.74
1400	1351	0.26	1531	0.38	1688	0.51	1827	0.65	1955	0.80
1500	1420	0.31	1593	0.43	1746	0.57	1883	0.71	2008	0.86
1600	1491	0.35	1657	0.48	1805	0.63	1939	0.78	2062	0.93
1700	1563	0.41	1722	0.54	1866	0.69	1997	0.85	2118	1.01
1800	1635	0.46	1789	0.61	1928	0.76	2056	0.92	2174	1.09
1900	1709	0.53	1856	0.68	1991	0.84	2116	1.01	2232	1.18
2000	1784	0.60	1925	0.76	2056	0.92	2178	1.10	2291	1.28

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1200	1978	0.83	2094	0.98	2204	1.15	2308	1.32	2409	1.50
1300	2025	0.89	2138	1.05	2246	1.21	2349	1.39	2447	1.57
1400	2074	0.95	2185	1.11	2291	1.28	2391	1.46	—	—
1500	2124	1.02	2234	1.19	2338	1.36	2436	1.54	—	—
1600	2176	1.10	2284	1.27	2386	1.45	—	—	—	—
1700	2230	1.18	2336	1.36	2436	1.54	—	—	—	—
1800	2285	1.27	2389	1.45	—	—	—	—	—	—
1900	2341	1.36	2444	1.55	—	—	—	—	—	—
2000	2398	1.46	—	—	—	—	—	—	—	—

Standard Static 1217-1900 rpm, 0.72 Max bhp

Medium Static 1217-2170 rpm, 1.06 Max bhp

High Static 1217-2460 rpm, 1.53, Max bhp

RGW049K(G/H) — Single Phase Ultra Low NOx — Standard Static — 4 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1217	6.4	1411	7.4	1576	8.3	1722	9.1	1855	9.8
1300	1283	6.8	1470	7.7	1631	8.6	1774	9.3	—	—
1400	1351	7.1	1531	8.1	1688	8.9	1827	9.6	—	—
1500	1420	7.5	1593	8.4	1746	9.2	1883	9.9	—	—
1600	1491	7.8	1657	8.7	1805	9.5	—	—	—	—
1700	1563	8.2	1722	9.1	1866	9.8	—	—	—	—
1800	1635	8.6	1789	9.4	—	—	—	—	—	—
1900	1709	9.0	1856	9.8	—	—	—	—	—	—
2000	1784	9.4	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1217-1900 rpm

Fan data (cont)

RGW049K(G/H) — Single Phase Ultra Low NOx — Medium Static — 4 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1217	5.6	1411	6.5	1576	7.3	1722	7.9	1855	8.5
1300	1283	5.9	1470	6.8	1631	7.5	1774	8.2	1904	8.8
1400	1351	6.2	1531	7.1	1688	7.8	1827	8.4	1955	9.0
1500	1420	6.5	1593	7.3	1746	8.0	1883	8.7	2008	9.3
1600	1491	6.9	1657	7.6	1805	8.3	1939	8.9	2062	9.5
1700	1563	7.2	1722	7.9	1866	8.6	1997	9.2	2118	9.8
1800	1635	7.5	1789	8.2	1928	8.9	2056	9.5	—	—
1900	1709	7.9	1856	8.6	1991	9.2	2116	9.8	—	—
2000	1784	8.2	1925	8.9	2056	9.5	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1978	9.1	2094	9.6	—	—	—	—	—	—
1300	2025	9.3	2138	9.9	—	—	—	—	—	—
1400	2074	9.6	—	—	—	—	—	—	—	—
1500	2124	9.8	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1217-2170 rpm, 1.06 Max bhp

RGW049K(G/H) — Single Phase Ultra Low NOx — High Static — 4 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1217	4.9	1411	5.7	1576	6.4	1722	7.0	1855	7.5
1300	1283	5.2	1470	6.0	1631	6.6	1774	7.2	1904	7.7
1400	1351	5.5	1531	6.2	1688	6.9	1827	7.4	1955	7.9
1500	1420	5.8	1593	6.5	1746	7.1	1883	7.7	2008	8.2
1600	1491	6.1	1657	6.7	1805	7.3	1939	7.9	2062	8.4
1700	1563	6.4	1722	7.0	1866	7.6	1997	8.1	2118	8.6
1800	1635	6.6	1789	7.3	1928	7.8	2056	8.4	2174	8.8
1900	1709	6.9	1856	7.5	1991	8.1	2116	8.6	2232	9.1
2000	1784	7.3	1925	7.8	2056	8.4	2178	8.9	2291	9.3

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1978	8.0	2094	8.5	2204	9.0	2308	9.4	2409	9.8
1300	2025	8.2	2138	8.7	2246	9.1	2349	9.5	2447	9.9
1400	2074	8.4	2185	8.9	2291	9.3	2391	9.7	—	—
1500	2124	8.6	2234	9.1	2338	9.5	2436	9.9	—	—
1600	2176	8.8	2284	9.3	2386	9.7	—	—	—	—
1700	2230	9.1	2336	9.5	2436	9.9	—	—	—	—
1800	2285	9.3	2389	9.7	—	—	—	—	—	—
1900	2341	9.5	2444	9.9	—	—	—	—	—	—
2000	2398	9.7	—	—	—	—	—	—	—	—

High Static 1217-2460 rpm 1.53, Max bhp

Fan data (cont)

RGW049(H/L)(G/H) — Three Phase Ultra Low NOx — 4 Ton Horizontal Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1200	1216	0.19	1411	0.30	1576	0.42	1722	0.55	1855	0.68
1300	1283	0.23	1470	0.34	1631	0.46	1774	0.60	1904	0.74
1400	1351	0.26	1531	0.38	1687	0.51	1827	0.65	1955	0.80
1500	1420	0.31	1593	0.43	1746	0.57	1882	0.71	2008	0.86
1600	1491	0.35	1657	0.48	1806	0.63	1939	0.78	2062	0.93
1700	1562	0.41	1722	0.54	1866	0.69	1998	0.85	2117	1.01
1800	1636	0.47	1788	0.61	1928	0.76	2056	0.92	2175	1.09
1900	1710	0.53	1856	0.68	1991	0.84	2117	1.01	2233	1.18
2000	1784	0.60	1924	0.76	2055	0.92	2178	1.10	2292	1.28

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1200	1978	0.83	2094	0.98	2204	1.15	2308	1.32	2409	1.50
1300	2025	0.89	2138	1.05	2246	1.21	2349	1.39	2447	1.57
1400	2073	0.95	2185	1.11	2291	1.28	2392	1.46	2488	1.64
1500	2124	1.02	2233	1.19	2338	1.36	2437	1.54	2532	1.73
1600	2176	1.10	2284	1.27	2386	1.45	2483	1.63	2577	1.82
1700	2230	1.18	2336	1.36	2436	1.54	2532	1.73	2624	1.92
1800	2285	1.27	2389	1.45	2488	1.64	2582	1.83	—	—
1900	2341	1.36	2443	1.55	2541	1.74	2634	1.94	—	—
2000	2399	1.46	2499	1.66	2595	1.85	—	—	—	—

Standard Static 1216-1900 rpm, 0.72 Max bhp

Medium Static 1216-2170 rpm, 1.06 Max bhp

High Static 1216-2660 rpm, 1.96 Max bhp

RGW049(H/L)(G/H) — Three Phase Ultra Low NOx — Standard Static — 4 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1216	6.4	1411	7.4	1576	8.3	1722	9.1	1855	9.8
1300	1283	6.8	1470	7.7	1631	8.6	1774	9.3	—	—
1400	1351	7.1	1531	8.1	1687	8.9	1827	9.6	—	—
1500	1420	7.5	1593	8.4	1746	9.2	1882	9.9	—	—
1600	1491	7.8	1657	8.7	1806	9.5	—	—	—	—
1700	1562	8.2	1722	9.1	1866	9.8	—	—	—	—
1800	1636	8.6	1788	9.4	—	—	—	—	—	—
1900	1710	9.0	1856	9.8	—	—	—	—	—	—
2000	1784	9.4	—	—	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	—	—	—	—	—	—	—	—	—	—
1300	—	—	—	—	—	—	—	—	—	—
1400	—	—	—	—	—	—	—	—	—	—
1500	—	—	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Standard Static 1216-1900 rpm

Fan data (cont)

RGW049(H/L)(G/H) — Three Phase Ultra Low NOx — Medium Static — 4 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1216	5.6	1411	6.5	1576	7.3	1722	7.9	1855	8.5
1300	1283	5.9	1470	6.8	1631	7.5	1774	8.2	1904	8.8
1400	1351	6.2	1531	7.1	1687	7.8	1827	8.4	1955	9.0
1500	1420	6.5	1593	7.3	1746	8.0	1882	8.7	2008	9.3
1600	1491	6.9	1657	7.6	1806	8.3	1939	8.9	2062	9.5
1700	1562	7.2	1722	7.9	1866	8.6	1998	9.2	2117	9.8
1800	1636	7.5	1788	8.2	1928	8.9	2056	9.5	—	—
1900	1710	7.9	1856	8.6	1991	9.2	2117	9.8	—	—
2000	1784	8.2	1924	8.9	2055	9.5	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1978	9.1	2094	9.6	—	—	—	—	—	—
1300	2025	9.3	2138	9.9	—	—	—	—	—	—
1400	2073	9.6	—	—	—	—	—	—	—	—
1500	2124	9.8	—	—	—	—	—	—	—	—
1600	—	—	—	—	—	—	—	—	—	—
1700	—	—	—	—	—	—	—	—	—	—
1800	—	—	—	—	—	—	—	—	—	—
1900	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—

Medium Static 1216-2170 rpm

RGW049(H/L)(G/H) — Three Phase Ultra Low NOx — High Static — 4 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1216	4.6	1411	5.3	1576	5.9	1722	6.5	1855	7.0
1300	1283	4.8	1470	5.5	1631	6.1	1774	6.7	1904	7.2
1400	1351	5.1	1531	5.8	1687	6.3	1827	6.9	1955	7.3
1500	1420	5.3	1593	6.0	1746	6.6	1882	7.1	2008	7.5
1600	1491	5.6	1657	6.2	1806	6.8	1939	7.3	2062	7.8
1700	1562	5.9	1722	6.5	1866	7.0	1998	7.5	2117	8.0
1800	1636	6.2	1788	6.7	1928	7.2	2056	7.7	2175	8.2
1900	1710	6.4	1856	7.0	1991	7.5	2117	8.0	2233	8.4
2000	1784	6.7	1924	7.2	2055	7.7	2178	8.2	2292	8.6

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1200	1978	7.4	2094	7.9	2204	8.3	2308	8.7	2409	9.1
1300	2025	7.6	2138	8.0	2246	8.4	2349	8.8	2447	9.2
1400	2073	7.8	2185	8.2	2291	8.6	2392	9.0	2488	9.4
1500	2124	8.0	2233	8.4	2338	8.8	2437	9.2	2532	9.5
1600	2176	8.2	2284	8.6	2386	9.0	2483	9.3	2577	9.7
1700	2230	8.4	2336	8.8	2436	9.2	2532	9.5	2624	9.9
1800	2285	8.6	2389	9.0	2488	9.4	2582	9.7	—	—
1900	2341	8.8	2443	9.2	2541	9.6	2634	9.9	—	—
2000	2399	9.0	2499	9.4	2595	9.8	—	—	—	—

High Static 1216-2660 rpm

Fan data (cont)

RGW061K(G/H) — Single Phase Ultra Low NOx — 5 Ton Horizontal Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1500	1335	0.25	1508	0.36	1661	0.49	1797	0.62	1921	0.75
1625	1418	0.30	1580	0.42	1727	0.55	1861	0.68	1983	0.83
1750	1502	0.36	1654	0.48	1797	0.61	1927	0.76	2046	0.91
1875	1589	0.42	1731	0.55	1867	0.69	1994	0.84	2111	0.99
2000	1676	0.50	1810	0.63	1940	0.77	2063	0.93	2177	1.09
2125	1765	0.58	1891	0.71	2015	0.86	2133	1.02	2245	1.19
2250	1855	0.67	1973	0.81	2091	0.96	2206	1.13	2314	1.31
2375	1946	0.78	2057	0.92	2169	1.07	2279	1.25	2385	1.43
2500	2038	0.89	2142	1.03	2249	1.20	2355	1.37	2457	1.56

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1500	2036	0.89	2143	1.04	2245	1.20	2342	1.36	2435	1.53
1625	2096	0.97	2201	1.13	2301	1.29	2396	1.46	2487	1.63
1750	2157	1.06	2261	1.22	2359	1.39	2453	1.56	2542	1.74
1875	2220	1.16	2322	1.32	2419	1.49	2511	1.67	2600	1.85
2000	2284	1.26	2385	1.43	2480	1.61	2571	1.79	2658	1.98
2125	2350	1.37	2449	1.55	2543	1.73	2632	1.92	—	—
2250	2417	1.49	2514	1.67	2607	1.87	—	—	—	—
2375	2485	1.62	2581	1.81	—	—	—	—	—	—
2500	2555	1.76	2648	1.95	—	—	—	—	—	—

Standard Static 1335-2150 rpm

Medium Static 1335-2390 rpm

High Static 1335-2660 rpm

RGW061K(G/H) — Single Phase Ultra Low NOx — Standard Static — 5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1335	6.2	1507	7.0	1660	7.7	1796	8.4	1921	8.9
1625	1417	6.6	1580	7.3	1727	8.0	1860	8.7	1982	9.2
1750	1502	7.0	1654	7.7	1796	8.4	1926	9.0	2046	9.5
1875	1589	7.4	1731	8.1	1867	8.7	1993	9.3	2110	9.8
2000	1677	7.8	1810	8.4	1940	9.0	2062	9.6	—	—
2125	1765	8.2	1890	8.8	2015	9.4	2133	9.9	—	—
2250	1855	8.6	1972	9.2	2091	9.7	—	—	—	—
2375	1946	9.1	2057	9.6	—	—	—	—	—	—
2500	2038	9.5	2142	10.0	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2036	9.5	2143	10.0	—	—	—	—	—	—
1625	2095	9.7	—	—	—	—	—	—	—	—
1750	—	—	—	—	—	—	—	—	—	—
1875	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1335-2150 rpm

Fan data (cont)

RGW061K(G/H) — Single Phase Ultra Low NOx — Medium Static — 5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1335	5.6	1507	6.3	1660	6.9	1796	7.5	1921	8.0
1625	1417	5.9	1580	6.6	1727	7.2	1860	7.8	1982	8.3
1750	1502	6.3	1654	6.9	1796	7.5	1926	8.1	2046	8.6
1875	1589	6.6	1731	7.2	1867	7.8	1993	8.3	2110	8.8
2000	1677	7.0	1810	7.6	1940	8.1	2062	8.6	2177	9.1
2125	1765	7.4	1890	7.9	2015	8.4	2133	8.9	2244	9.4
2250	1855	7.8	1972	8.3	2091	8.7	2206	9.2	2314	9.7
2375	1946	8.1	2057	8.6	2169	9.1	2279	9.5	2385	10.0
2500	2038	8.5	2142	9.0	2249	9.4	2355	9.9	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2036	8.5	2143	9.0	2245	9.4	2342	9.8	—	—
1625	2095	8.8	2201	9.2	2301	9.6	—	—	—	—
1750	2157	9.0	2261	9.5	2359	9.9	—	—	—	—
1875	2219	9.3	2322	9.7	—	—	—	—	—	—
2000	2284	9.6	2384	10.0	—	—	—	—	—	—
2125	2349	9.8	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Medium Static 1335-2390 rpm

RGW061K(G/H) — Single Phase Ultra Low NOx — High Static — 5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1335	5.0	1508	5.7	1661	6.2	1797	6.8	1921	7.2
1625	1418	5.3	1580	5.9	1727	6.5	1861	7.0	1983	7.5
1750	1502	5.6	1654	6.2	1797	6.8	1927	7.2	2046	7.7
1875	1589	6.0	1731	6.5	1867	7.0	1994	7.5	2111	7.9
2000	1676	6.3	1810	6.8	1940	7.3	2063	7.8	2177	8.2
2125	1765	6.6	1891	7.1	2015	7.6	2133	8.0	2245	8.4
2250	1855	7.0	1973	7.4	2091	7.9	2206	8.3	2314	8.7
2375	1946	7.3	2057	7.7	2169	8.2	2279	8.6	2385	9.0
2500	2038	7.7	2142	8.1	2249	8.5	2355	8.9	2457	9.2

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2036	7.7	2143	8.1	2245	8.4	2342	8.8	2435	9.2
1625	2096	7.9	2201	8.3	2301	8.7	2396	9.0	2487	9.3
1750	2157	8.1	2261	8.5	2359	8.9	2453	9.2	2542	9.6
1875	2220	8.3	2322	8.7	2419	9.1	2511	9.4	2600	9.8
2000	2284	8.6	2385	9.0	2480	9.3	2571	9.7	2658	10.0
2125	2350	8.8	2449	9.2	2543	9.6	2632	9.9	—	—
2250	2417	9.1	2514	9.5	2607	9.8	—	—	—	—
2375	2485	9.3	2581	9.7	—	—	—	—	—	—
2500	2555	9.6	2648	10.0	—	—	—	—	—	—

High Static 1335-2660 rpm

Fan data (cont)

RGW061(H/L)(G/H) — Three Phase Ultra Low NOx — 5 Ton Horizontal Supply (rpm - bhp)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1500	1335	0.25	1507	0.36	1660	0.49	1796	0.61	1921	0.75
1625	1418	0.30	1579	0.42	1727	0.55	1860	0.68	1982	0.82
1750	1502	0.36	1654	0.48	1797	0.61	1927	0.76	2046	0.91
1875	1589	0.42	1731	0.55	1867	0.69	1994	0.84	2111	0.99
2000	1676	0.50	1810	0.63	1940	0.77	2063	0.93	2177	1.09
2125	1765	0.58	1890	0.71	2015	0.86	2133	1.02	2245	1.19
2250	1855	0.67	1973	0.81	2091	0.96	2206	1.13	2314	1.31
2375	1946	0.78	2057	0.92	2169	1.07	2279	1.25	2385	1.43
2500	2038	0.89	2142	1.03	2249	1.20	2355	1.37	2457	1.56

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1500	2036	0.89	2144	1.05	2245	1.20	2342	1.36	2435	1.53
1625	2095	0.97	2201	1.13	2301	1.29	2396	1.46	2487	1.63
1750	2157	1.06	2261	1.22	2359	1.39	2453	1.56	2543	1.74
1875	2219	1.15	2322	1.32	2419	1.49	2511	1.67	2599	1.85
2000	2284	1.26	2384	1.43	2480	1.61	2571	1.79	2658	1.98
2125	2350	1.37	2449	1.55	2542	1.73	2632	1.92	2718	2.12
2250	2417	1.49	2514	1.67	2607	1.87	2695	2.06	2779	2.26
2375	2485	1.62	2581	1.81	2672	2.01	2759	2.21	—	—
2500	2555	1.76	2648	1.95	2738	2.16	2824	2.37	—	—

Standard Static 1335-2150 rpm, 1.06 Max bhp

Medium Static 1335-2390 rpm, 1.44 Max bhp

High Static 1335-2836 rpm, 2.43 Max bhp

RGW061(H/L)(G/H) — Three Phase Ultra Low NOx — Standard Static — 5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1335	6.2	1507	7.0	1660	7.7	1796	8.4	1921	8.9
1625	1418	6.6	1579	7.3	1727	8.0	1860	8.7	1982	9.2
1750	1502	7.0	1654	7.7	1797	8.4	1927	9.0	2046	9.5
1875	1589	7.4	1731	8.1	1867	8.7	1994	9.3	2111	9.8
2000	1676	7.8	1810	8.4	1940	9.0	2063	9.6	—	—
2125	1765	8.2	1890	8.8	2015	9.4	2133	9.9	—	—
2250	1855	8.6	1973	9.2	2091	9.7	—	—	—	—
2375	1946	9.1	2057	9.6	—	—	—	—	—	—
2500	2038	9.5	2142	10.0	—	—	—	—	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2036	9.5	2144	10.0	—	—	—	—	—	—
1625	2095	9.7	—	—	—	—	—	—	—	—
1750	—	—	—	—	—	—	—	—	—	—
1875	—	—	—	—	—	—	—	—	—	—
2000	—	—	—	—	—	—	—	—	—	—
2125	—	—	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Standard Static 1335-2150 rpm

Fan data (cont)

RGW061(H/L)(G/H) — Three Phase Ultra Low NOx — Medium Static — 5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1335	5.6	1507	6.3	1660	6.9	1796	7.5	1921	8.0
1625	1418	5.9	1579	6.6	1727	7.2	1860	7.8	1982	8.3
1750	1502	6.3	1654	6.9	1797	7.5	1927	8.1	2046	8.6
1875	1589	6.6	1731	7.2	1867	7.8	1994	8.3	2111	8.8
2000	1676	7.0	1810	7.6	1940	8.1	2063	8.6	2177	9.1
2125	1765	7.4	1890	7.9	2015	8.4	2133	8.9	2245	9.4
2250	1855	7.8	1973	8.3	2091	8.7	2206	9.2	2314	9.7
2375	1946	8.1	2057	8.6	2169	9.1	2279	9.5	2385	10.0
2500	2038	8.5	2142	9.0	2249	9.4	2355	9.9	—	—

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2036	8.5	2144	9.0	2245	9.4	2342	9.8	—	—
1625	2095	8.8	2201	9.2	2301	9.6	—	—	—	—
1750	2157	9.0	2261	9.5	2359	9.9	—	—	—	—
1875	2219	9.3	2322	9.7	—	—	—	—	—	—
2000	2284	9.6	2384	10.0	—	—	—	—	—	—
2125	2350	9.8	—	—	—	—	—	—	—	—
2250	—	—	—	—	—	—	—	—	—	—
2375	—	—	—	—	—	—	—	—	—	—
2500	—	—	—	—	—	—	—	—	—	—

Medium Static 1335-2390 rpm

RGW061(H/L)(G/H) — Three Phase Ultra Low NOx — High Static — 5 Ton Horizontal Supply (rpm - vdc)

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	0.2		0.4		0.6		0.8		1.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	1335	4.7	1507	5.3	1660	5.9	1796	6.3	1921	6.8
1625	1418	5.0	1579	5.6	1727	6.1	1860	6.6	1982	7.0
1750	1502	5.3	1654	5.8	1797	6.3	1927	6.8	2046	7.2
1875	1589	5.6	1731	6.1	1867	6.6	1994	7.0	2111	7.4
2000	1676	5.9	1810	6.4	1940	6.8	2063	7.3	2177	7.7
2125	1765	6.2	1890	6.7	2015	7.1	2133	7.5	2245	7.9
2250	1855	6.5	1973	7.0	2091	7.4	2206	7.8	2314	8.2
2375	1946	6.9	2057	7.3	2169	7.6	2279	8.0	2385	8.4
2500	2038	7.2	2142	7.6	2249	7.9	2355	8.3	2457	8.7

CFM	AVAILABLE EXTERNAL STATIC PRESSURE (in. wg)									
	1.2		1.4		1.6		1.8		2.0	
	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc	rpm	vdc
1500	2036	7.2	2144	7.6	2245	7.9	2342	8.3	2435	8.6
1625	2095	7.4	2201	7.8	2301	8.1	2396	8.4	2487	8.8
1750	2157	7.6	2261	8.0	2359	8.3	2453	8.6	2543	9.0
1875	2219	7.8	2322	8.2	2419	8.5	2511	8.9	2599	9.2
2000	2284	8.1	2384	8.4	2480	8.7	2571	9.1	2658	9.4
2125	2350	8.3	2449	8.6	2542	9.0	2632	9.3	2718	9.6
2250	2417	8.5	2514	8.9	2607	9.2	2695	9.5	2779	9.8
2375	2485	8.8	2581	9.1	2672	9.4	2759	9.7	—	—
2500	2555	9.0	2648	9.3	2738	9.7	2824	10.0	—	—

High Static 1335-2836 rpm

Electrical data

Legend and Notes

Applicable for Electrical Data Tables on pages 55 to 57

LEGEND

BRKR	— Circuit Breaker
C.O.	— Convenience Outlet
FLA	— Full Load Amps
IFM	— Indoor Fan Motor
LRA	— Locked Rotor Amps
MCA	— Minimum Circuit Amps
P.E.	— Power Exhaust
PWRD C.O.	— Powered Convenience Outlet
RLA	— Rated Load Amps
UNPWR C.O.	— Unpowered Convenience Outlet

NOTE(S):

1. In compliance with NEC requirements for multi-motor and combination load equipment (refer to NEC Articles 430 and 440), the overcurrent protective device for the unit shall be fuse or HACR breaker. Canadian units may be fuse or circuit breaker.
2. For 208/230 volt units, where one value is shown, it is the same for either 208 or 230 volts.
3. **Unbalanced 3-Phase Supply Voltage:** Never operate a motor where a phase imbalance in supply voltage is greater than 2%. Use the following formula to determine the percentage of voltage imbalance.

$$\% \text{ Voltage Imbalance} = 100 \times \frac{\text{max voltage deviation from average voltage}}{\text{average voltage}}$$

Example: Supply voltage is 230-3-60



AB = 224-v
BC = 231-v
AC = 226-v

$$\text{Average Voltage} = \frac{(224 + 231 + 226)}{3} = \frac{681}{3} = 227$$

Determine maximum deviation from average voltage.

(AB) 227-224 = 3-v

(BC) 231-227 = 4-v

(AC) 227-226 = 1-v

Maximum deviation is 4-v.

Determine percent of voltage imbalance.

$$\% \text{ Voltage Imbalance} = 100 \times \frac{4}{227} = 1.76\%$$

This amount of phase imbalance is satisfactory as it is below the maximum allowable 2%.

IMPORTANT: If the supply voltage phase imbalance is more than 2%, contact your local electric utility company immediately.

Electrical data (cont)

RGW037/049/061 Ultra Low NOx Cooling Electrical Data

UNIT	V-Ph-Hz	UNIT VOLTAGE		COMPRESSOR		OFM (ea)		IFM			COMBUSTION FAN MOTOR	POWER EXHAUST	
		Range		RLA	LRA	Watts	FLA	Type	Effcy at Full Load	FLA	FLA	Kit Qty	FLA (ea kit)
		Min	Max										
RGW037K	208/230-1-60	187	253	15.4	92	275	2.6	STD	84%	3.4	0.48	1	1.9
						275	2.6	MED	84%	5.1			
						275	2.6	HIGH	85%	7.3			
RGW037H	208/230-3-60	187	253	10.1	88	275	2.6	STD	84%	3.4	0.48	1	1.9
						275	2.6	MED	84%	5.1			
						275	2.6	HIGH	85%	7.3			
RGW037L	460-3-60	414	506	4.7	44	275	1.4	STD	85%	0.9	0.25	1	1.0
						275	1.4	MED	85%	1.2			
						275	1.4	HIGH	84%	1.5			
RGW049K	208/230-1-60	187	253	19.9	127	275	2.6	STD	87%	5.0	0.48	1	1.9
						275	2.6	MED	86%	7.1			
						275	2.6	HIGH	84%	8.8			
RGW049H	208/230-3-60	187	253	12.9	105	275	2.6	STD	87%	5.0	0.48	1	1.9
						275	2.6	MED	86%	7.1			
						275	2.6	HIGH	85%	5.1			
RGW049L	460-3-60	414	506	7.1	62	275	1.4	STD	85%	1.2	0.25	1	1.0
						275	1.4	MED	86%	1.5			
						275	1.4	HIGH	88%	2.4			
RGW061K	208/230-1-60	187	253	25.6	158	275	2.6	STD	86%	7.2	0.48	1	1.9
						275	2.6	MED	84%	8.6			
						275	2.6	STD	86%	7.2			
RGW061H	208/230-3-60	187	253	16.4	110	275	2.6	MED	84%	8.6	0.48	1	1.9
						275	2.6	HIGH	84%	6.4			
						275	1.4	STD	86%	1.5			
RGW061L	460-3-60	414	506	6.9	55	275	1.4	MED	86%	1.9	0.25	1	1.0
						275	1.4	HIGH	88%	2.9			
						275	1.4	STD	86%	1.5			

Electrical data (cont)

RGW037/049/061 Ultra Low NOx MCA MOCPC Electrical Data

UNIT	NOM. V-Ph-Hz	IFM TYPE	NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
			NO POWER EXHAUST				w/ POWER EXHAUST (powered from unit)			
			MCA	FUSE OR HACR BREAKER	DISCONNECT SIZE		MCA	FUSE OR HACR BREAKER	DISCONNECT SIZE	
FLA	LRA	FLA			LRA					
RGW037K	208/230-1-60	STD	26	30	25	101	28	40	27	103
		MED	27	40	27	103	29	40	29	105
		HIGH	30	40	29	106	32	45	31	108
RGW037H	208/230-3-60	STD	19	25	19	97	21	30	21	99
		MED	21	30	20	99	23	30	23	101
		HIGH	23	30	23	102	25	30	25	104
RGW037L	460-3-60	STD	9	15	8	47	10	15	9	48
		MED	9	15	8	48	10	15	10	49
		HIGH	9	15	9	48	10	15	10	49
RGW049K	208/230-1-60	STD	33	50	32	138	35	50	34	140
		MED	35	50	34	141	37	50	36	143
		HIGH	37	50	36	143	39	50	38	145
RGW049H	208/230-3-60	STD	24	30	24	116	26	30	26	118
		MED	26	30	26	119	28	40	28	121
		HIGH	24	30	24	116	26	30	26	118
RGW049L	460-3-60	STD	12	15	11	66	13	15	12	67
		MED	12	15	12	66	13	15	13	67
		HIGH	13	15	13	67	14	20	14	68
RGW061K	208/230-1-60	STD	42	60	41	172	44	60	43	174
		MED	44	60	42	174	46	60	45	176
RGW061H	208/230-3-60	STD	31	45	30	124	33	45	32	126
		MED	32	45	32	126	34	50	34	128
		HIGH	30	45	29	123	32	45	31	125
RGW061L	460-3-60	STD	12	15	11	59	13	15	12	60
		MED	12	15	12	60	13	15	13	61
		HIGH	13	15	13	61	14	20	14	62

RGW037/049/061(H/L) Ultra Low NOx MCA MOCPC Electrical Data (cont)

UNIT	NOM. V-Ph-Hz ^a	IFM TYPE	WITH POWERED CONVENIENCE OUTLET							
			NO POWER EXHAUST				w/ POWER EXHAUST (powered from unit)			
			MCA	FUSE OR HACR BREAKER	DISCONNECT SIZE		MCA	FUSE OR HACR BREAKER	DISCONNECT SIZE	
FLA	LRA	FLA			LRA					
RGW037H	208/230-3-60	STD	24	30	24	102	26	30	26	104
		MED	26	30	26	104	27	30	28	106
		HIGH	28	30	29	107	30	35	31	109
RGW037L	460-3-60	STD	11	15	11	49	12	15	12	50
		MED	11	15	11	50	12	15	12	51
		HIGH	11	15	11	50	12	15	12	51
RGW049H	208/230-3-60	STD	29	40	29	121	31	40	31	123
		MED	31	40	32	124	33	45	34	126
		HIGH	29	40	29	121	31	40	31	123
RGW049L	460-3-60	STD	14	20	14	68	15	20	15	69
		MED	14	20	14	68	15	20	15	69
		HIGH	15	20	15	69	16	20	16	70
RGW061H	208/230-3-60	STD	36	50	36	129	37	50	38	131
		MED	37	50	37	131	39	50	39	133
		HIGH	35	50	35	128	37	50	37	130
RGW061L	460-3-60	STD	14	20	14	61	15	20	15	62
		MED	15	20	14	62	16	20	15	63
		HIGH	16	20	15	63	17	20	17	64

NOTE(S):

a. Powered convenience outlet is not available for 208/230-1-60 (single-phase) units.

Electrical data (cont)

RGW037/049/061(K/H) Ultra Low NOx MCA MOCP Electrical Data with Factory-Installed HACR Breaker

UNIT	NOM. V-Ph-Hz ^a	IFM TYPE	NO CONVENIENCE OUTLET OR UNPOWERED CONVENIENCE OUTLET							
			NO POWER EXHAUST				w/ POWER EXHAUST (powered from unit)			
			MCA	HACR BREAKER	DISCONNECT SIZE		MCA	HACR BREAKER	DISCONNECT SIZE	
FLA	LRA	FLA			LRA					
RGW037K	208/230-1-60	STD	26	30	25	101	28	40	27	103
		MED	27	40	27	103	29	40	29	105
		HIGH	30	40	29	106	32	45	31	108
RGW037H	208/230-3-60	STD	19	25	19	97	21	30	21	99
		MED	21	30	20	99	23	30	23	101
		HIGH	23	30	23	102	25	30	25	104
RGW049K	208/230-1-60	STD	33	50	32	138	35	50	34	140
		MED	35	50	34	141	37	50	36	143
		HIGH	37	50	36	143	39	50	38	145
RGW049H	208/230-3-60	STD	24	30	24	116	26	30	26	118
		MED	26	30	26	119	28	40	28	121
		HIGH	24	30	24	116	26	30	26	118
RGW061K	208/230-1-60	STD	42	60	41	172	44	60	43	174
		MED	44	60	42	174	46	60	45	176
RGW061H	208/230-3-60	STD	31	45	30	124	33	45	32	126
		MED	32	45	32	126	34	50	34	128
		HIGH	30	45	29	123	32	45	31	125

NOTE(S):

a. HACR Breaker is not available for 460/3/60 units.

RGW037/049/061H Ultra Low NOx MCA MOCP Electrical Data with Factory-Installed HACR Breaker (cont)

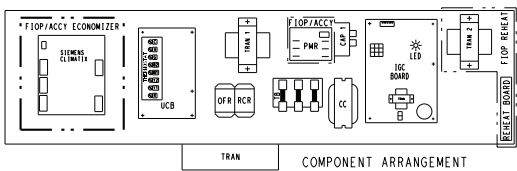
UNIT	NOM. V-Ph-Hz ^{a,b}	IFM TYPE	WITH POWERED CONVENIENCE OUTLET							
			NO POWER EXHAUST				WITH POWER EXHAUST (powered from unit)			
			MCA	HACR BREAKER	DISCONNECT SIZE		MCA	HACR BREAKER	DISCONNECT SIZE	
FLA	LRA	FLA			LRA					
RGW037H	208/230-3-60	STD	24	30	24	102	26	30	26	104
		MED	26	30	26	104	27	30	28	106
		HIGH	28	30	29	107	30	35	31	109
RGW049H	208/230-3-60	STD	29	40	29	121	31	40	31	123
		MED	31	40	32	124	33	45	34	126
		HIGH	29	40	29	121	31	40	31	123
RGW061H	208/230-3-60	STD	36	50	36	129	37	50	38	131
		MED	37	50	37	131	39	50	39	133
		HIGH	35	50	35	128	37	50	37	130

NOTE(S):

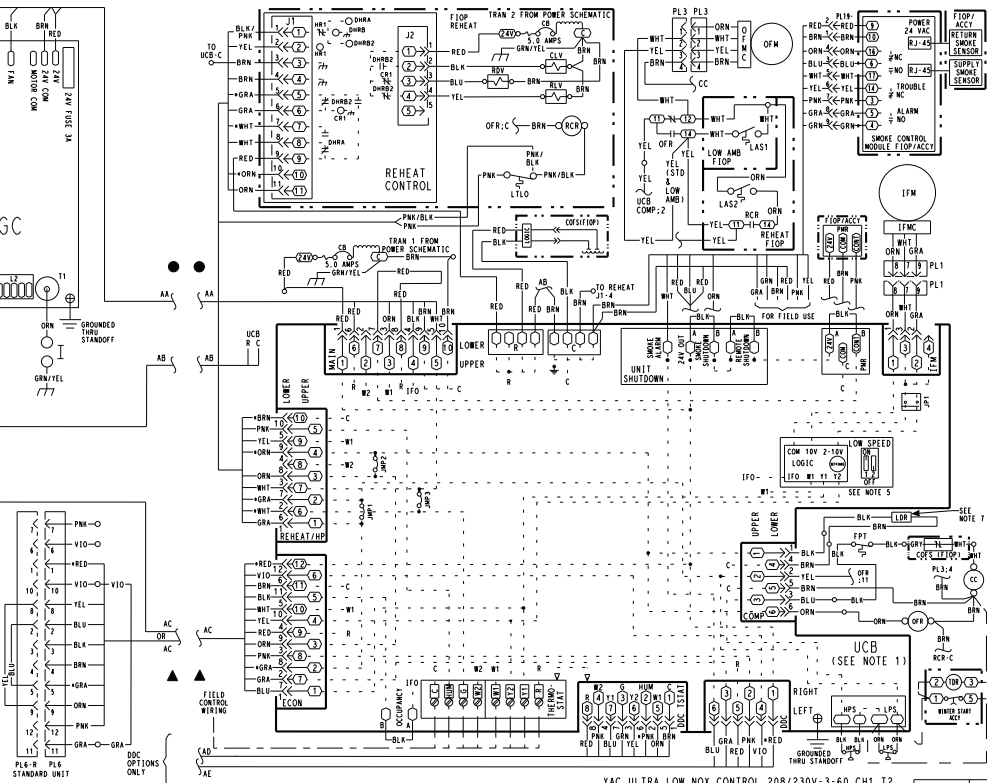
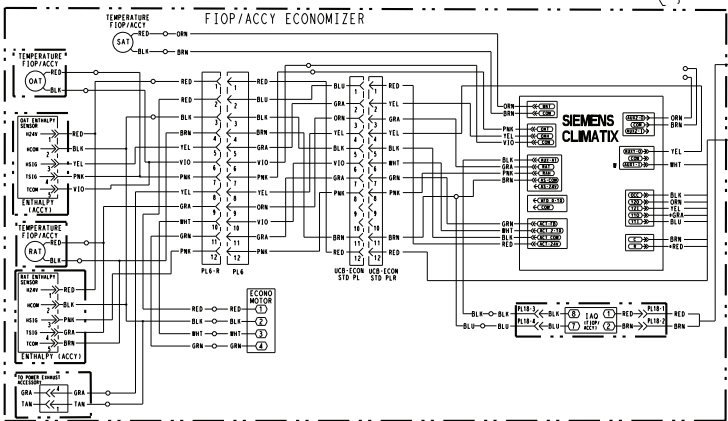
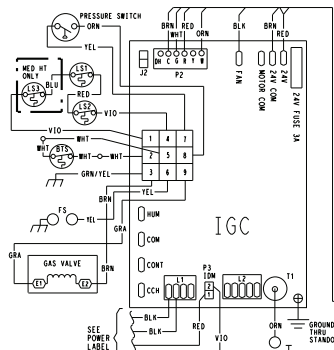
a. Powered convenience outlet is not available for 208/230-1-60 (single-phase) units.

b. HACR Breaker is not available for 460-3-60 units.

Typical Control Wiring Diagram — RGW037/049H 208/230-3-60 Unit with Electromechanical Control and POL224 Economizer

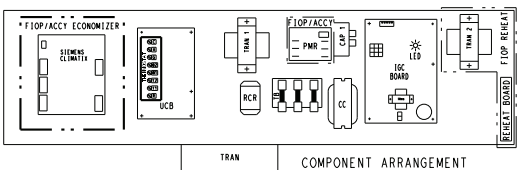


- NOTES:**
1. TERMINAL BOARD SCHEMATIC LAYOUT DOES NOT MATCH ACTUAL TERMINAL BOARD LAYOUT.
 2. TERMINAL BOARD JUMPERS 1, 2 AND 3 ARE CUT FOR REHEAT UNITS ONLY.
 3. REMOVE DESIGNATED JUMPERS ON TERMINAL BOARD WHEN ADDING SMOKE DETECTORS, OCCUPANCY AND REMOTE SHUTDOWN.
 4. USE RAC AS COARSE AND POT IS TIME ADJUSTMENTS FOR SETTING HIGH FAN SPEED. LOW SPEED IS AN OFFSET BASED ON DIP SWITCHES.
 5. 2-PIN LOW SPEED DIP SWITCH POSITIONS ARE FACTORY SET AS SHOWN.
 6. THE * WIRE COLOR IS FOR DIFFERENTIATION WITHIN THIS SCHEMATIC.
 7. COMPRESSOR LEADER PLUG CONTAINS BRIDGE RECTIFIER TO CONVERT AC TO DC.

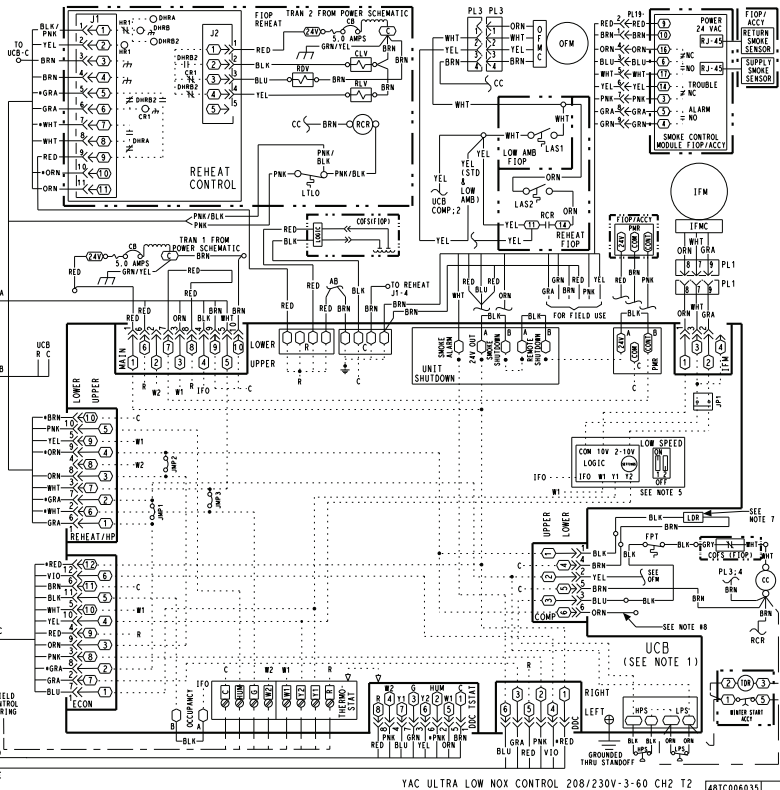
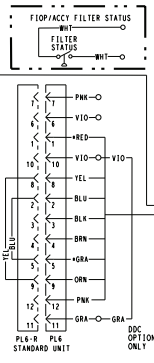
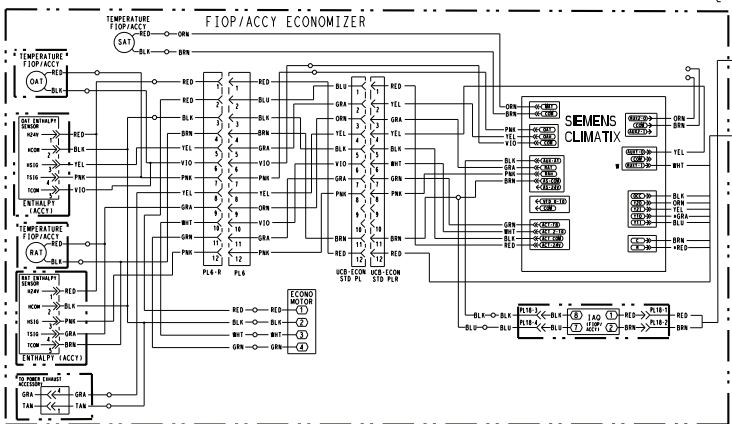
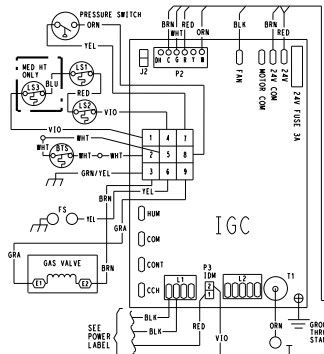


YAC ULTRA LOW NOX CONTROL 208/230V-3-60 CH1 T2 48TC006020

Typical Control Wiring Diagram — RGW0061H 208/230-3-60 Unit with Electromechanical Control and POL224 Economizer

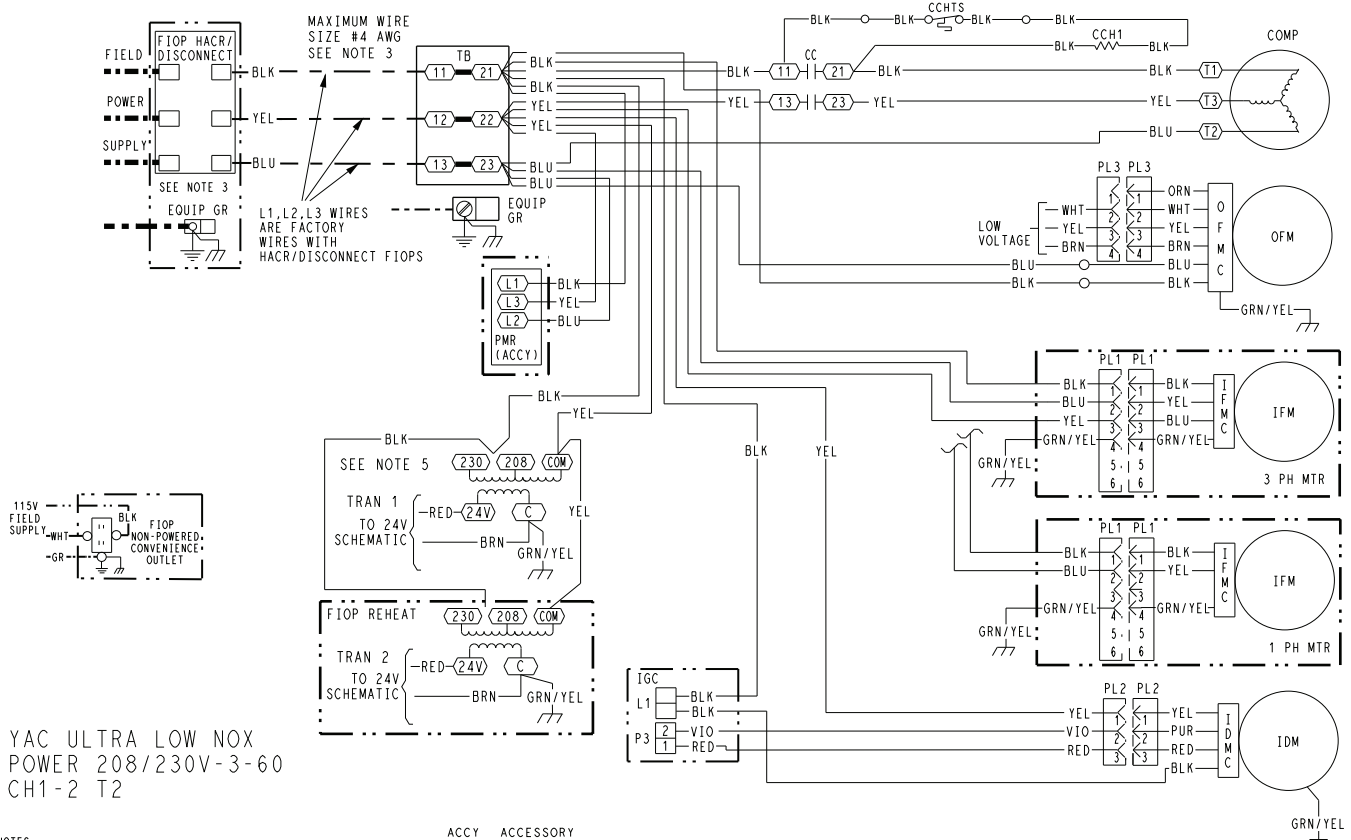


- NOTES:
- TERMINAL BOARD SCHEMATIC LAYOUT DOES NOT MATCH ACTUAL TERMINAL BOARD LAYOUT.
 - TERMINAL BOARD JUMPERS 1, 2 AND 3 ARE CUT FOR REHEAT UNITS ONLY.
 - REMOVE DESIGNATED JUMPERS ON TERMINAL BOARD WHEN ADDING SMOKE DETECTORS, OCCUPANCY AND REMOTE SHUTDOWN.
 - USE AC AS COARSE AND POT AS FINE ADJUSTMENTS FOR SETTING HIGH FAN SPEED. LOW SPEED IS AN OFFSET BASED ON DIP SWITCHES.
 - 2-PIN LOW SPEED DIP SWITCH POSITIONS ARE FACTORY SET AS SHOWN.
 - THE * WIRE COLOR IS FOR DIFFERENTIATION WITHIN THIS SCHEMATIC.
 - COMPRESSOR LEADER PLUG CONTAINS BRIDGE RECTIFIER TO CONVERT AC TO DC.
 - THE ORANGE WIRE EXITING COMP.6 WILL REMAIN UNCONNECTED FOR CORRECT UNIT OPERATION.



Typical wiring diagrams (cont)

Typical Power Wiring Diagram — RGW037/049/061H 208/230-3-60 Unit with Electromechanical Control and POL224 Economizer



YAC ULTRA LOW NOX
POWER 208/230V-3-60
CH1-2 T2

NOTES

- IF ANY OF THE ORIGINAL WIRE FURNISHED MUST BE REPLACED, IT MUST BE REPLACED WITH TYPE 90° C WIRE OR ITS EQUIVALENT.
- COMPRESSOR AND FAN MOTORS ARE THERMALLY PROTECTED.
- USE COPPER CONDUCTOR ONLY.
- DO NOT DISCONNECT POWER PLUG OR SIGNAL WIRE WHILE UNDER LOAD.
- ON 208/230V UNITS, TRAN IS WIRED FOR 230V. IF UNIT IS TO BE RUN WITH 208V POWER SUPPLY, DISCONNECT BLK WIRE FROM 230V TAP AND CONNECT TO 208V TAP.

LEGEND

- (X) MARKED WIRE
- (X) TERMINAL (MARKED)
- () TERMINAL (UNMARKED)
- (X) TERMINAL BLOCK
- SPLICE
- SPLICE (MARKED)
- FACTORY WIRING
- FIELD CONTROL WIRING
- FIELD POWER WIRING
- CIRCUIT BOARD TRACE
- ACCESSORY OR OPTIONAL WIRING

ACCY	ACCESSORY	HPS	HIGH PRESSURE SWITCH	PER	POWER EXHAUST RELAY
AUX	AUXILIARY	HR	HEATER RELAY	PH	PHASE
AWG	AMERICAN WIRE GAUGE	HUM	HUMIDISTAT	PL	PLUG ASSEMBLY
BA	BUILDING AUTOMATION NETWORK	IAO	IGNITOR	POT	POTENTIOMETER
CC	CONTACTOR, COMPRESSOR	IDM	INDOOR AIR QUALITY SENSORS	PMR	PHASE MONITOR RELAY
C	COMMON	IDMC	INDUCED DRAFT MOTOR	PS	PRESSURE SWITCH
CAP	CAPACITOR	IDMR	INDUCED DRAFT RELAY	PWM	PULSE WIDTH MODULATION
CB	CIRCUIT BREAKER	IFM	INDOOR FAN MOTOR	QT	QUADRUPLE TERMINAL
CCH	CRANKCASE HEATER	IFMC	INDOOR FAN MOTOR CONTROL	R	THERMOSTAT POWER
CCHR	CRANKCASE HEATER RELAY	IFO	INDOOR FAN ON SIGNAL	RAT	RETURN AIR TEMP. SEN
CCHTS	CRANKCASE HEATER TEMP SWITCH	IGC	INTEGRATED GAS CONTROL	RCR	REHEAT CONTROL RELAY
CLO	COMPRESSOR LOCKOUT	IRH	INDOOR RELATIVE HUMIDITY	RDV	REHEAT DISCHARGE VALVE
CLV	COOLING LIQUID VALVE	JMP	JUMPER	RH	RELATIVE HUMIDITY
CMB	CENTRIFUGAL MOTOR BLOWER	L1	LINE 1	RLV	REHEAT LIQUID VALVE
COPS	CONDENSATE OVERFLOW SWITCH	L1	LOW AMBIENT LOCKOUT	RNET	LOCAL ACCESS NETWORK
COM	SIGNAL COMMON	LA	LOW AMBIENT RELAY	RS	ROLLOUT SWITCH
COMP	COMPRESSOR MOTOR	LAR	LOW AMBIENT RELAY	RVS	REVERSING VALVE SOLENOID
DDC	DIRECT DIGITAL CONTROL	LAS	LOW AMBIENT SWITCH	SAT	SUPPLY AIR TEMP SENSOR
DFB	DEFROST BOARD	LDR	COMPRESSOR LOADER	SDP	SYSTEM DISCHARGE PRESSURE
DFT	DEFROST THERMOSTAT	LEN	LOCAL EQUIPMENT NETWORK	SPRH	SPACE RELATIVE HUMIDITY
EHR	ELECTRIC HEAT RELAY	LOC	LOSS OF CHARGE	SPT	SPACE TEMPERATURE SENSOR
ENTH	ENTHALPY	LOOP	CURRENT LOOP POWER	SPTO	SPACE TEMPERATURE OFFSET
EQUIP	EQUIPMENT	LPS	LOW PRESSURE SWITCH	SSP	SYSTEM SUCTION PRESSURE
ERV	ENERGY RECOVERY VENTILATOR	LS	LIMIT SWITCH	STD	STANDARD
ESL	ENTHALPY SENSOR - LOW	LSM	LIMIT SWITCH (MANUAL RESET)	SW	SWITCH
FB	FUSE BLOCK	LTL0	LOW TEMP LOCKOUT	TB	TERMINAL BLOCK
FIOF	FACTORY INSTALLED OPTION	MTR	MOTOR	TDR	TIME DELAY RELAY
FPT	FREEZE PROTECTION THERMOSTAT	MOV	METAL OXIDE VARIATOR	TRAN	TRANSFORMER
FS	FLAME SWITCH	MTR	MOTOR	UCB	UNIT CONTROL BOARD
FST	FAN HOUSING TEMP SENSOR	OAO	OUTDOOR AIR QUALITY	W1	1st STAGE OF HEATING CALL
FU	FUSE	OAT	OUTDOOR AIR TEMP. SEN	W2	2nd STAGE OF HEATING CALL
G	THERMOSTAT FAN CALL	OFM	OUTDOOR FAN MOTOR	Y1	1st STAGE OF COOLING CALL
GR(ND)	GROUND	OFMC	OUTDOOR FAN MOTOR CONTROL	Y2	2nd STAGE OF COOLING CALL
GV	GAS VALVE	OFR	OUTDOOR FAN RELAY		
HACR	HEATING, AIR-CONDITIONING, REFRIGERATION BREAKER	OL	OVERLOAD		
HGRH	HOT GAS REHEAT				
HPC	HEAD PRESSURE CONTROL				

48TC005591 A

Sequence of operation

General

The sequence below describes the sequence of operation for an electromechanical unit with and without a factory-installed EconomizerONE (POL224 controller). For information regarding a direct digital controller, see the start-up, operations, and troubleshooting manual for the applicable controller.

Electromechanical units with no economizer

Cooling (2-stage units)

When the thermostat calls for cooling, terminals G and Y1 are energized. The indoor fan will run at the low fan speed and the compressor contactor (CC) is energized causing the compressor and outdoor fan to run. The low indoor fan speed is 66% of the user set fan speed and the compressor will run at partial capacity.

If additional cooling is needed, the thermostat will add the call for Y2. This will increase the indoor fan speed to the user set fan speed and energize the compressor loader for full compressor capacity. The outdoor fan is the same speed for Y1 and Y2.

When the thermostat removes the call for Y2 but leaves the Y1, the indoor fan will reduce speed to 66% of the user set fan speed, the compressor loader will turn off, and the outdoor fan will remain on. When the thermostat removes the call for Y1 the compressor contactor will de-energize shutting down the compressor and the outdoor fan. When the thermostat removes the call for G, the indoor fan will turn off after the specific unit fan off delay.

NOTE: Per ASHRAE 90.1-2016 and IECC-2018 standards, during the first stage of cooling operation the Unit Control Board (UCB) will adjust the fan motor speed to provide 66% of the total cfm established for the unit.

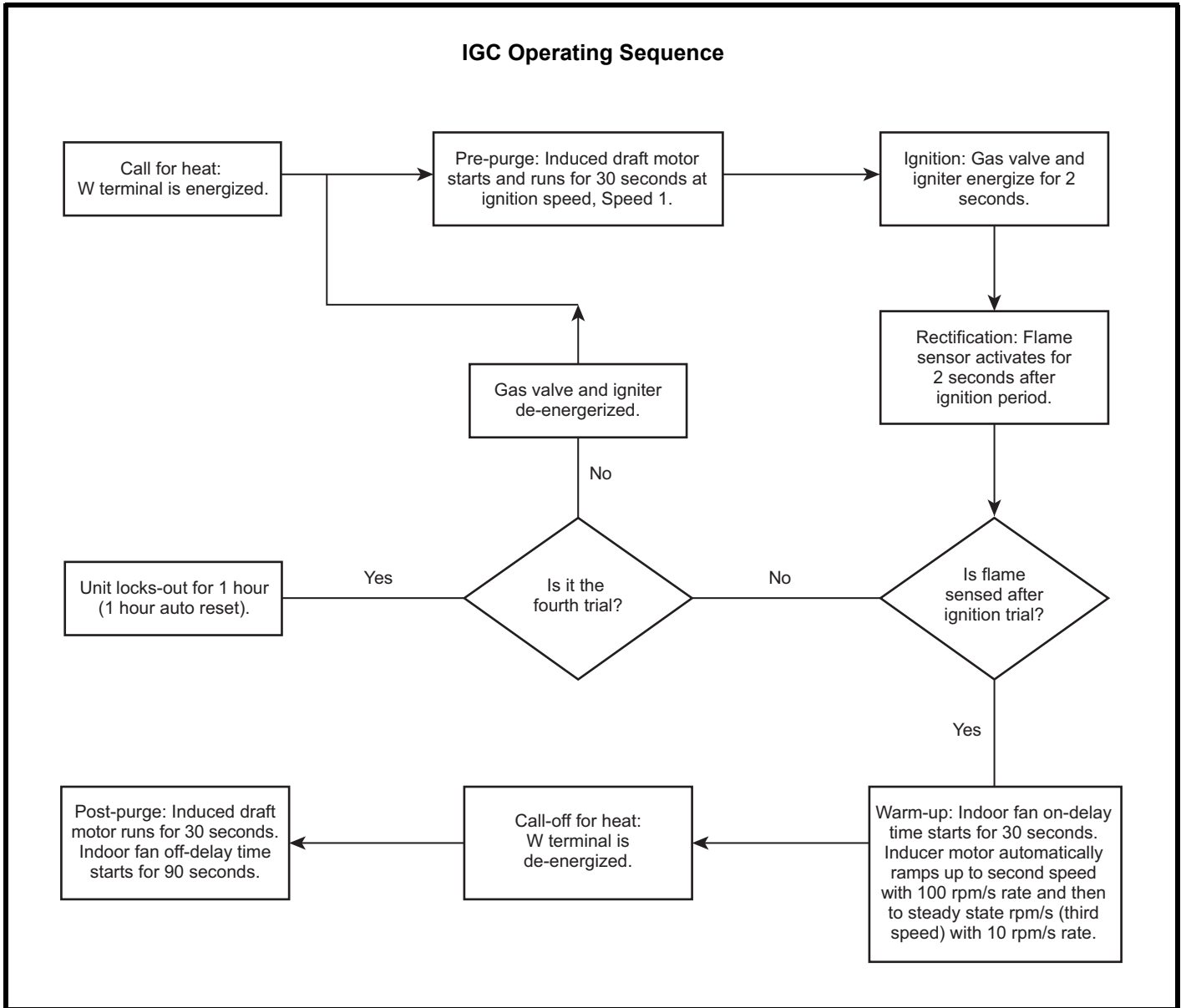
Gas heating

When the thermostat calls for heating, power is sent to W on the Integrated Gas Controller (IGC) board. An LED (light-emitting diode) on the IGC board turns on and remains on during normal operation. A check is made to ensure that the burner thermal switch and limit switch are closed. If the check was successful, the induced-draft motor is energized, and when its speed is satisfactory, as proven by the flue gas pressure switch, the ignition activation period begins. The burners will ignite within 2 seconds. If the burners do not light, there is a 30 second post purge period before another 2 second attempt. This sequence is repeated 4 times or until the burner lights. If, after the fourth trial the burners still have not lit, heating is locked out. The lock out period is for one hour after which the unit will auto reset.

When ignition occurs, the IGC board will continue to monitor the condition of the burner thermal switch, the limit switches, the flue gas pressure switch, as well as the flame sensor. 30 seconds after ignition occurs, assuming the unit is controlled through a room thermostat set for fan auto, the indoor-fan motor will energize (and the outdoor-air dampers will open to their minimum position). If, for some reason, the over-temperature limit opens prior to the start of the indoor fan blower, the unit will shorten the 30 second delay to 5 seconds less than the time from initiation of heat to when the limit tripped. Gas will not be interrupted to the burners and heating will continue. Once the fan-on delay has been modified, it will not change back to 30 seconds until power is reset to the control. When the thermostat is satisfied, W opens and the gas valve closes, interrupting the flow of gas to the main burners. If the unit is controlled through a room thermostat set for fan auto, the indoor-fan motor will continue to operate for an additional 90 seconds then stop. A LED indicator shows if the unit is operational with no fault when the light is solid. In case of unit failure the number of flashes on the LED indicates the type of failure mode in the gas heat sub-system.

The following figure is a flow chart detailing the operating sequence for the IGC.

Sequence of operation (cont)



Sequence of operation (cont)

Electromechanical units with factory-installed EconomizerONE

When free cooling is not available, the compressors will be controlled by the zone thermostat. When free cooling is available, the outdoor-air damper is modulated by the EconomizerONE control to provide a 50°F (10°C) to 55°F (13°C) mixed-air temperature into the zone. As the mixed air temperature fluctuates above 55°F (13°C) or below 50°F (10°C) dampers will be modulated (open or close) to bring the mixed-air temperature back within control. If mechanical cooling is utilized with free cooling, the outdoor-air damper will maintain its current position at the time the compressor is started. If the increase in cooling capacity causes the mixed-air temperature to drop below 45°F (7°C), then the outdoor-air damper position will be decreased to the minimum position. If the mixed-air temperature continues to fall, the outdoor-air damper will close. Control returns to normal once the mixed-air temperature rises above 48°F (9°C). The power exhaust fans will be energized and de-energized, if installed, as the outdoor-air damper opens and closes.

If field-installed accessory CO₂ sensors are connected to the EconomizerONE control, a demand controlled ventilation strategy will begin to operate. As the CO₂ level in the zone increases above the CO₂ setpoint (on the EconomizerONE controller), the minimum position of the damper will be increased proportionally until the Maximum Ventilation setting is reached. As the CO₂ level decreases because of the increase in fresh air, the outdoor-air damper will follow the higher demand condition from either the DCV mode or form the free cooling mode. For EconomizerONE operation, there must be a thermostat call for the fan (G). If the unit is occupied and the fan is on, the damper will operate at minimum position. Otherwise, the damper will be closed.

When the EconomizerONE control is in the occupied mode and a call for cooling exists (Y1 on the thermostat), the control will first check for indoor fan operation. If the fan is not on, then cooling will not be activated. If the fan is on, then the control will open the EconomizerONE damper to the minimum position.

On the initial power to the EconomizerONE control, it will take the damper up to 2-1/2 minutes before it begins to position itself. After the initial power-up, further changes in damper position can take up to 90 seconds to initiate. Damper movement from full closed to full open (or vice versa) will take between 1-1/2 and 2-1/2 minutes. If free cooling can be used as determined from the appropriate changeover command (dry bulb, outdoor enthalpy, differential dry bulb, or differential enthalpy), then the control will modulate the dampers open and closed to maintain the mixed-air temperature setpoint at 50°F (10°C) to 55°F (13°C). If there is a further demand for cooling (cooling second stage — Y2 is energized), then the control will bring on compressor stage 1 to maintain the mixed-air temperature setpoint. The EconomizerONE damper will be open at maximum position.

Two-Speed Note: The EconomizerONE controller will adjust the damper position as the Indoor Fan Speed changes, per its configured values.

Heating

The sequence of operation for the heating is the same as an electromechanical unit with no economizer. The only difference is how the economizer acts. The economizer will stay at the Economizer Minimum Position while the evaporator fan is operating. The outdoor-air damper is closed when the indoor fan is not operating. Refer to Service and Maintenance Manual for further details.

Sequence of operation (cont)

Optional Hot Gas Re-Heat dehumidification system

Units with the factory equipped Hot Gas Re-Heat dehumidification system option are capable of providing multiple modes of improved dehumidification as a variation of the normal cooling cycle. The Hot Gas Re-Heat dehumidification system option includes additional valves in the liquid line and discharge line of each refrigerant circuit, a small reheat condenser coil downstream of the evaporator, and variable-speed control of some or all outdoor fans. Operation of the revised refrigerant circuit for each mode is described below.

The Hot Gas Re-Heat dehumidification system provides 3 sub-modes of operation: Cool, Reheat1, and Reheat2.

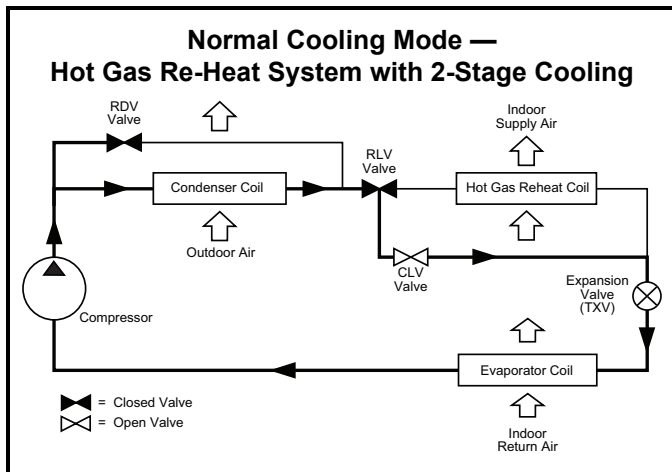
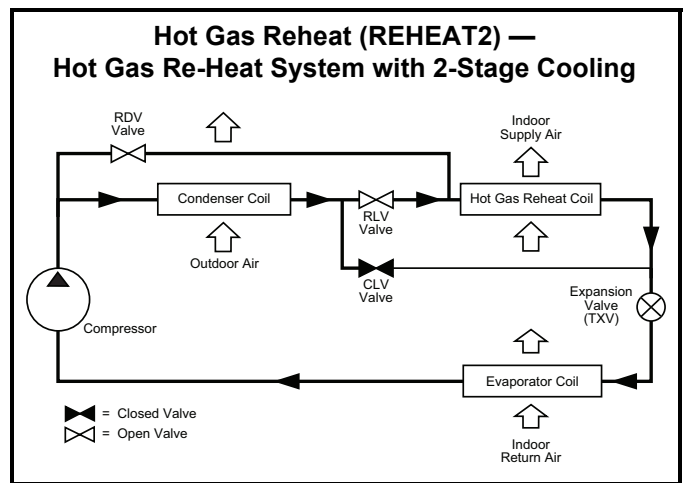
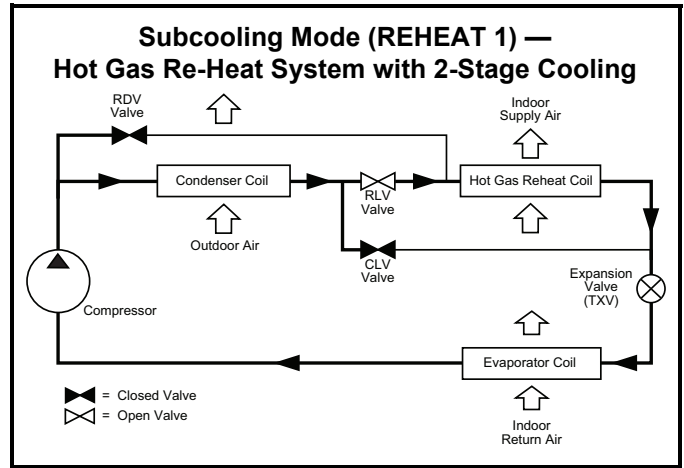
Cool mode — Provides a normal ratio of Sensible and Latent Cooling effect from the evaporator coil.

Reheat1 — Provides increased Latent Cooling while slightly reducing the Sensible Cooling effect.

Reheat2 — Provides normal Latent Cooling but with null or minimum Sensible Cooling effect delivered to the space.

The Reheat1 and Reheat2 modes are available when the unit is not in a Heating mode and when the Low Ambient Lockout switch is closed.

Refer to the following figures for 2 stage piping flow diagrams.



Application data

Minimum operating ambient temperature (cooling)

In mechanical cooling mode, your rooftop unit can safely operate down to an outdoor ambient temperature of 40°F (4°C). It is possible to provide cooling at lower outdoor ambient temperatures by using less outside air, economizers, and/or accessory low ambient kits.

Maximum operating ambient temperature (cooling)

The maximum operating ambient temperature for cooling mode is 115°F (46°C). While cooling operation above 115°F (46°C) may be possible, it could cause either a reduction in performance, reliability, or a protective action by the unit's internal safety devices.

Multiple motor and drive packages

Some applications need larger horsepower motors, some need more airflow, and some need both. Regardless of the case, your local representative expert has a factory-installed combination to meet your application. A wide selection of motors are available, factory-installed, to handle nearly any application.

Standard stainless steel heat exchanger

The stainless steel heat exchanger provides a tubular heat exchanger made out of a minimum 20 gauge type 409 stainless steel for applications where the mixed air to the heat exchanger is expected to drop below 45°F (7°C). Stainless steel may be specified on applications where the presence of airborne contaminants require its use (applications such as paper mills) or in area with very high outdoor humidity that may result in severe condensation in the heat exchanger during cooling operation.

Minimum mixed air temperature (heating)

Using the factory settings, the minimum temperatures for the mixed air (the combined temperature of the warm return air and the cold outdoor air) entering the dimpled, gas heat exchangers are shown in the following table.

Minimum Temperature for Mixed Air Temperature

STAINLESS STEEL
40°F (4°C) Continuous
35°F (2°C) Intermittent

Operating at lower mixed-air temperatures may be possible, if a field-supplied, outdoor air thermostat initiates both heat stages when the temperature is less than the minimum temperatures listed above. Please contact your local representative for assistance.

Minimum and maximum airflow (heating and cooling)

To maintain safe and reliable operation of your rooftop, operate within the heating airflow limits during heating mode and cooling airflow limits during cooling mode. Operating above the max may cause blow-off, undesired airflow noise, or airflow related problems with the rooftop unit. Operating below the min may cause problems with coil freeze-up and unsafe heating operation. Heating and cooling limitations differ when evaluating operating cfm, the minimum value is the HIGHER of the cooling and heating minimum cfm values published on page 5 and the maximum value is the LOWER of the cooling and heating minimum values published on page 5.

Heating-to-cooling changeover

Your unit will automatically change from heating to cooling mode when using a thermostat with an auto-changeover feature.

Airflow

All units are draw-through in cooling mode and blow-through in heating mode.

Outdoor air application strategies

Economizers reduce operating expenses and compressor run time by providing a free source of cooling and a means of ventilation to match application changing needs. In fact, they should be considered for most applications. Also, consider the various economizer control methods and their benefits, as well as sensors required to accomplish your application goals. Please contact your local representative for assistance.

Motor limits, break horsepower (bhp)

Due to internal design of these units, the air path, and specially designed motors, the full horsepower (maximum continuous bhp) band, as listed in the Fan Performance tables, can be used with the utmost confidence. There is no need for extra safety factors, as these motors are designed and rigorously tested to use the entire, listed bhp range without either nuisance tripping or premature motor failure.

Application data (cont)

Propane heating

Operation with propane gas is not allowed.

High altitude heating

Unit can operate from 0 to 2,000 feet in altitude as standard, operation above 2,000 feet is in not allowed.

Sizing a rooftop

Bigger is not necessarily better. While an air conditioner needs to have enough capacity to meet the design loads, it does not need excess capacity. In fact, excess capacity typically results in very poor part load performance and humidity control.

Using higher design temperatures than ASHRAE recommends for your location, adding “safety factors” to the calculated load, are all signs of oversizing air conditioners. Oversizing the air conditioner leads to poor humidity control, reduced efficiency, higher utility bills, larger indoor temperature swings, excessive noise, and increased wear and tear on the air conditioner.

Rather than oversizing an air conditioner, engineers should “right-size” or even slightly “under-size” air conditioners. Correctly sizing an air conditioner controls humidity better; promotes efficiency; reduces utility bills; extends equipment life, and maintains even, comfortable temperatures. Please contact your local representative for assistance.

Low ambient applications

The optional economizer can adequately cool your space by bringing in fresh, cool outside air. In fact, when so equipped, accessory low-ambient kit may not be necessary. In low ambient conditions, unless the outdoor air is excessively humid or contaminated, economizer-based “free cooling” is the preferred less costly and energy conscious method. In low ambient applications where outside air might not be desired (such as contaminated or excessively humid outdoor environments), your rooftop unit can operate to ambient temperatures down to -20°F (-29°C) using the recommended accessory low ambient controller.

Guide specifications

Note about this specification:

This specification is in the "Masterformat" as published by the Construction Specification Institute. Please feel free to copy this specification directly into your building spec.

Ultra Low NOx Gas Heat/Electric Cooling Packaged Rooftop

HVAC Guide Specifications

Size Range: **3 to 5 Nominal Tons**

Model: RGW037-061

Part 1 — (23 06 80) Schedules for Decentralized HVAC Equipment

1.01 (23 06 80.13) Decentralized Unitary HVAC Equipment Schedule:

A. (23 06 80.13.A.) Rooftop Unit (RTU) Schedule:

1. Schedule is per the project specification requirements.

Part 2 — (23 07 16) HVAC Equipment Insulation

2.01 (23 07 16.13) Decentralized, Rooftop Units:

A. (23 07 16.13.A.) Evaporator Fan Compartment:

1. Interior cabinet surfaces shall be insulated with a minimum 1/2 in. thick, minimum 1-1/2-lb density, flexible fiberglass insulation bonded with a phenolic binder, neoprene coated on the air side.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

B. (23 07 16.13.B.) Gas Heat Compartment:

1. Aluminum foil-faced fiberglass insulation shall be used.
2. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.

Part 3 — (23 09 13) Instrumentation and Control Devices for HVAC

3.01 (23 09 13.23) Sensors and Transmitters:

A. (23 09 13.23.A.) Thermostats:

1. Thermostat must:
 - a. energize both "W" and "G" when calling for heat.
 - b. have capability to energize 1 or 2 stages of cooling, and 2 different stages of heating.
 - c. include capability for occupancy scheduling.

Part 4 — (23 09 33) Electric and Electronic Control System for HVAC

4.01 (23 09 33.13) Decentralized, Rooftop Units:

A. (23 09 33.13.A.) General:

1. Shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-v transformer side. Transformer shall have 75-va capability.

2. Shall utilize color-coded wiring.

3. Shall include a Unit Control Board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, gas controller, economizer, thermostat, and low and high pressure switches. Controller shall also provide an intuitive means to adjust the indoor fan speed through a simple switch and pot adjustment design.

4. The heat exchanger shall be controlled by an integrated gas controller (IGC) microprocessor. See heat exchanger section of this specification.

5. Unit shall include a minimum of one 8-pin screw terminal connection board for connection of control wiring.

B. (23 09 33.13.B.) Safeties:

1. Compressor over-temperature, over-current. High internal pressure differential.
2. Low pressure switch shall use different color wire than the high pressure switch. The purpose is to assist the installer and service technician to correctly wire and or troubleshoot the rooftop unit.
3. High pressure switch shall use different color wire than the low pressure switch. The purpose is to assist the installer and service technician to correctly wire and or troubleshoot the rooftop unit.
4. Automatic reset, motor thermal overload protector.
5. Heating section shall be provided with the following minimum protections:
 - a. High temperature limit switches.
 - b. Induced draft motor speed sensor.
 - c. Flame rollout switch.
 - d. Flame proving controls.

Part 5 — (23 09 93) Sequence of Operations for HVAC Controls

5.01 (23 09 93.13) Decentralized, Rooftop Units:

A. (23 09 93.13.A.) INSERT SEQUENCE OF OPERATION

Part 6 — (23 40 13) Panel Air Filters

6.01 (23 40 13.13) Decentralized, Rooftop Units:

A. (23 40 13.13.A.) Standard Filter Section:

1. Shall consist of factory-installed, low velocity, disposable 2 in. thick fiberglass filters of commercially available sizes.
2. Unit shall use only one filter size. Multiple sizes are not acceptable.
3. Filters shall be accessible through an access panel with "no-tool" removal as described in the unit cabinet section of this specification (23 81 19.13.G).

Guide specifications (cont)

Part 7 — (23 81 19) Self-Contained Air Conditioners

7.01 (23 81 19.13) Small-Capacity Self-Contained Air Conditioners:

A. (23 81 19.13.A.) General:

1. Outdoor, rooftop mounted, electrically controlled, heating and cooling unit utilizing a fully hermetic scroll compressor(s) for cooling duty and gas combustion for heating duty.
2. Factory assembled, single-piece heating and cooling rooftop unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, and special features required prior to field start-up.
3. Unit shall use R-410A refrigerant.
4. Unit shall be installed in accordance with the manufacturer's instructions.
5. Unit must be selected and installed in compliance with local, state, and federal codes.

B. (23 81 19.13.B.) Quality Assurance:

1. Unit meets ASHRAE 90.1 minimum efficiency requirements.
2. Unit shall be rated in accordance with AHRI Standards 210/240.
3. Unit shall be designed to conform to ASHRAE 15.
4. Unit shall be UL-tested and certified in accordance with ANSI Z21.47 Standards and UL-listed and certified under Canadian standards as a total package for safety requirements.
5. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
6. Unit casing shall be capable of withstanding 500 hour salt spray exposure per ASTM B117 (scribed specimen).
7. Unit shall be designed in accordance with ISO 9001, and shall be manufactured in a facility registered by ISO 9001:2015.
8. Roof curb shall be designed to conform to NRCA Standards.
9. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory, and must be available upon request.
10. Unit shall be designed in accordance with UL Standard 1995, including tested to withstand rain.
11. Unit shall be constructed to prevent intrusion of snow and tested to prevent snow intrusion into the control box up to 40 mph.
12. Unit shake tested to assurance level 1, ASTM D4169 to ensure shipping reliability.

C. (23 81 19.13.C.) Delivery, Storage, and Handling:

1. Unit shall be stored and handled per manufacturer's recommendations.
2. Lifted by crane requires either shipping top panel or spreader bars.
3. Unit shall only be stored or positioned in the upright position.

D. (23 81 19.13.D.) Project Conditions:

1. As specified in the contract.

E. (23 81 19.13.E.) Operating Characteristics:

1. Unit shall be capable of starting and running at 125°F (52°C) ambient outdoor temperature, meeting maximum load criteria of AHRI Standard 210/240 at ±10% voltage.
2. Compressor with standard controls shall be capable of operation down to 40°F (4°C), ambient outdoor temperatures. Accessory winter start kit is necessary if mechanically cooling at ambient temperatures down to 25°F (-4°C).
3. Unit shall discharge supply air vertically or horizontally as shown on contract drawings.
4. Unit shall be factory configured for vertical supply and return configurations.
5. Unit shall be field convertible from vertical to horizontal airflow on all models. No special kit required.
6. Unit shall be capable of mixed operation: vertical supply with horizontal return or horizontal supply with vertical return.

F. (23 81 19.13.F.) Electrical Requirements:

1. Main power supply voltage, phase, and frequency must match those required by the manufacturer.

G. (23 81 19.13.G.) Unit Cabinet:

1. Unit cabinet shall be constructed of galvanized steel, and shall be bonderized and coated with a prepainted baked enamel finish on all externally exposed surfaces.
2. Unit cabinet exterior paint shall be:
 - a. Film thickness, (dry) 0.003 inches minimum
 - b. Gloss (per ASTM D523, 60°F/16°C): 60
 - c. Hardness: H-2H Pencil hardness
3. Evaporator fan compartment interior cabinet insulation shall conform to AHRI Standards 210/240 minimum exterior sweat criteria. Interior surfaces shall be insulated with a minimum 1/2 in. thick, 1 lb density, flexible fiberglass insulation, neoprene coated on the air side. Aluminum foil-faced fiberglass insulation shall be used in the gas heat compartment.
4. Base of unit shall have a minimum of 4 locations for thru-the-base gas and electrical connections (factory-installed or field-installed), standard.

Guide specifications (cont)

5. Base Rail:
 - a. Unit shall have base rails on a minimum of 2 sides.
 - b. Holes shall be provided in the base rails for rigging shackles to facilitate maneuvering and overhead rigging.
 - c. Holes shall be provided in the base rail for moving the rooftop by fork truck.
 - d. Base rail shall be a minimum of 16 gauge thickness.
 6. Condensate Pan and Connections:
 - a. Shall be a sloped condensate drain pan made of a corrosion resistant material.
 - b. Shall comply with ASHRAE Standard 62.
 - c. Shall use a 3/4 in. 14 NPT drain connection, possible either through the bottom or side of the drain pan. Connection shall be made per manufacturer's recommendations.
 7. Top Panel:
 - a. Shall be a single piece top panel on all sizes.
 8. Gas Connections:
 - a. All gas piping connecting to unit gas valve shall enter the unit cabinet at a single location on side of unit (horizontal plane).
 - b. Thru-the-Base Capability:
 - 1) Standard unit shall have a thru-the-base gas-line location using a raised, embossed portion of the unit basepan.
 - 2) Optional, factory approved, water-tight connection method must be used for thru-the-base gas connections.
 - 3) No basepan penetration, other than those authorized by the manufacturer, is permitted.
 9. Electrical Connections:
 - a. All unit power wiring shall enter unit cabinet at a single, factory prepared, knockout location.
 - b. Thru-the-Base Capability:
 - 1) Standard unit shall have a thru-the-base electrical location(s) using a raised, embossed portion of the unit basepan.
 - 2) Optional, factory approved, water-tight connection method must be used for thru-the-base electrical connections.
 - 3) No basepan penetration, other than those authorized by the manufacturer, is permitted.
 10. Component Access Panels (standard):
 - a. Cabinet panels shall be easily removable for servicing.
 - b. Unit shall have one factory-installed, tool-less, removable, filter access panel.
 - c. Panels covering control box, indoor fan, indoor fan motor, gas components (where applicable), and compressors shall have molded composite handles.
 - d. Handles shall be UV modified, composite. They shall be permanently attached, and recessed into the panel.
 - e. Screws on the vertical portion of all removable access panel shall engage into heat resistant, molded composite collars.
 - f. Collars shall be removable and easily replaceable using manufacturer recommended parts.
- H. (23 81 19.13.H.) Gas Heat:
1. General:
 - a. Heat exchanger shall be an induced draft design. Positive pressure heat exchanger designs shall not be allowed.
 - b. Shall incorporate a direct-spark ignition system and redundant main gas valve.
 - c. Gas supply pressure at the inlet to the rooftop unit gas valve must match that required by the manufacturer.
 2. The heat exchanger shall be controlled by an integrated gas controller (IGC) microprocessor:
 - a. IGC board shall notify users of fault using an LED (light-emitting diode).
 - b. The LED shall be visible without removing the control box access panel.
 - c. IGC board shall contain algorithms that modify evaporator fan operation to prevent future cycling on high temperature limit switch.
 - d. Unit shall be equipped with anti-cycle protection with one short cycle on unit flame rollout switch or 4 continuous short cycles on the high temperature limit switch. Fault indication shall be made using an LED.
 3. Standard Stainless Steel Heat Exchanger Construction — Ultra Low NOx Burner Box:
 - a. Burners shall be of premixed type constructed of stainless steel.
 - b. Use a redundant main gas valve.
 - c. Burners shall be of the in-shot type constructed of aluminum-coated steel.
 - d. All gas piping shall enter the unit cabinet at a single location on side of unit (horizontal plane).
 - e. The stainless steel heat exchanger shall be of the tubular-section type, constructed of a minimum of 20-gauge type 409 stainless steel.
 - f. Type 409 stainless steel shall be used in heat exchanger tubes and vestibule plate.
 - g. Stainless Steel natural gas burner box and heat exchanger assembly shall provide Ultra Low NOx gas emissions of 14 nanograms/joule (ng/j).

Guide specifications (cont)

4. Induced Draft Combustion Motor and Blower:
 - a. Shall be a multi speed direct-drive, single inlet, forward-curved centrifugal type.
 - b. Shall be made from steel with a corrosion resistant finish.
 - c. Shall have permanently lubricated sealed bearings.
 - d. Shall have inherent thermal overload protection.
 - e. Shall have an automatic reset feature.
- I. (23 81 19.13.I.) Coils:
 1. Standard Aluminum Fin-Copper Tube Coils:
 - a. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
 - b. Evaporator coils shall be leak tested to 150 psig, pressure tested to 450 psig, and qualified to UL 1995 burst test at 1775 psig.
 - c. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 1995 burst test at 1980 psig.
 2. Optional Pre-coated Aluminum-Fin Condenser Coils (3-Phase Models Only):
 - a. Shall have a durable epoxy-phenolic coating to provide protection in mildly corrosive coastal environments.
 - b. Coating shall be applied to the aluminum fin stock prior to the fin stamping process to create an inert barrier between the aluminum fin and copper tube.
 - c. Epoxy-phenolic barrier shall minimize galvanic action between dissimilar metals.
 - d. Corrosion durability of fin stock shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117-90.
 - e. Corrosion durability of fin stock shall be confirmed through testing to have no visible corrosion after 48 hour immersion in a room temperature solution of 5% salt, 1% acetic acid.
 - f. Fin stock coating shall pass 2000 hours of the following: one week exposure in the prohesion chamber followed by one week of accelerated ultraviolet light testing. Prohesion chamber: the solution shall contain 3.5% sodium chloride and 0.35% ammonium sulfate. The exposure cycle is one hour of salt fog application at ambient followed by one hour drying at 95°F (35°C).
 3. Optional Copper-Fin Evaporator and Condenser Coils (3-Phase Models Only):
 - a. Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets.
 - b. Galvanized steel tube sheets shall not be acceptable.
 - c. A polymer strip shall prevent coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.
 4. Optional E-coated Aluminum-Fin Evaporator and Condenser Coils (3-phase models only):
 - a. Shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins.
 - b. Coating process shall ensure complete coil encapsulation of tubes, fins and headers.
 - c. Color shall be high gloss black with gloss per ASTM D523-89.
 - d. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges.
 - e. Superior hardness characteristics of 2H per ASTM D3363-92A and cross-hatch adhesion of 4B-5B per ASTM D3359-93.
 - f. Impact resistance shall be up to 160 in. lb (ASTM D2794-93).
 - g. Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92).
 - h. Corrosion durability shall be confirmed through testing to be no less than 1000 hours salt spray per ASTM B117-90.
- J. (23 81 19.13.J.) Refrigerant Components:
 1. Refrigerant circuit shall include the following control, safety, and maintenance features:
 - a. Fixed orifice metering system shall include a multiple feed distribution system that optimizes coil performance.
 - b. Refrigerant filter drier — Solid core design.
 - c. Service gauge connections on suction and discharge lines.
 - d. Pressure gauge access through a specially designed access port in the top panel of the unit.
 2. There shall be gauge line access port in the skin of the rooftop, covered by a black, removable plug:
 - a. The plug shall be easy to remove and replace.
 - b. When the plug is removed, the gauge access port shall enable maintenance personnel to route their pressure gauge lines.
 - c. This gauge access port shall facilitate correct and accurate condenser pressure readings by enabling the reading with the compressor access panel on.
 - d. The plug shall be made of a leak proof, UV-resistant, composite material.

Guide specifications (cont)

3. Compressors:
 - a. Unit shall use fully hermetic, scroll compressor for each independent refrigeration circuit.
 - b. Compressor motors shall be cooled by refrigerant gas passing through motor windings.
 - c. Compressors shall be internally protected from high discharge temperature conditions.
 - d. Compressors shall be protected from an over-temperature and over-ampereage conditions by an internal, motor overload device.
 - e. Compressor shall be factory mounted on rubber grommets.
 - f. Compressor motors shall have internal line break thermal, current overload and high pressure differential protection.
 - g. Crankcase heaters shall not be required for normal operating range, unless required by compressor manufacturer due to refrigerant charge limits.
 - h. Compressor shall be of a 2 stage cooling capacity design.
- K. (23 81 19.13.K.) Filter Section:
 1. Filters access is specified in the unit cabinet section of this specification.
 2. Filters shall be held in place by a pivoting filter tray, facilitating easy removal and installation.
 3. Shall consist of factory-installed, low velocity, throw-away 2 in. thick fiberglass filters.
 4. Filters shall be standard, commercially available sizes.
 5. Only one size filter per unit is allowed.
- L. (23 81 19.13.L.) Evaporator Fan and Motor with X-Vane Fan Technology:
 1. Direct Drive Evaporator Fan Motor:
 - a. Shall be a ECM motor design.
 - b. Shall have permanently lubricated bearings.
 - c. Shall have inherent automatic-reset thermal overload protection.
 - d. Shall have slow ramp up to speed capabilities.
 - e. Shall require no fan/motor belts for operation, adjustments and or initial fan speed set up.
 - f. Fan DC voltage set up on Unit Control Board can eliminate the need of removal of blower access door, required on conventional belt drive systems.
 - g. Shall be internally protected from electrical phase reversal and loss.
 2. Evaporator Fan:
 - a. Shall be easily set with dedicated selection switch and adjustment pot on unit control board.
 - b. Size 037-061 units provide multi speed indoor fan operation.
 - c. Blower fan shall be a Vane Axial fan design with 75% less moving parts than a conventional belt drive system.
 - d. Shall be constructed of an aluminum stator or high impact composite material on stator, rotor and air inlet casing.
 - e. Shall be a patented/pending design with a corrosion resistant material and dynamically balanced.
 - f. Shall have slow ramp up to speed capabilities to help reduce sound and comfort issues typically associated with single speed belt drive systems.
 - g. Shall be a slide out design with 2 screw removal.
 - h. Shall provide up to 2 inches static pressure to the unit cabinet.
3. Shall include an easily accessible unit Control Board to conveniently and safely provide connection points for vital control functions such as: smoke detectors, phase monitor, gas controller, economizer, thermostat, and low and high pressure switches. Controller shall also provide an intuitive means to adjust the indoor fan speed through a simple switch and pot adjustment design.
- M. (23 81 19.13.M.) Condenser Fans and Motors:
 1. Condenser Fan Motors:
 - a. Shall be a totally enclosed motor.
 - b. Shall use permanently lubricated bearings.
 - c. Shall have inherent thermal overload protection with an automatic reset feature.
 - d. Shall use a shaft-down design on all sizes.
 2. Condenser Fans:
 - a. Shall be a direct-driven propeller type fan constructed of high impact composite material.
 - b. Shall have high impact composite blades completely formed into one piece without blade fasteners or connectors and shall be dynamically balanced.
- N. (23 81 19.13.N.) Special Features Options and Accessories:
 1. Integrated EconomizerONE Low Leak Rate Models. (On single-phase models, EconomizerONE are only available as field-installed accessories.):
 - a. Integrated, gear driven opposing modulating blade design type capable of simultaneous economizer and compressor operation.
 - b. Independent modules for vertical or horizontal return configuration shall be available. Vertical return modules shall be available as a factory-installed option.

Guide specifications (cont)

- c. Damper blades shall be galvanized steel with composite gears. Plastic or composite blades on intake or return shall not be acceptable.
 - d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
 - e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
 - f. Standard leak rate shall be equipped with dampers not to exceed 2% leakage at 1 in. wg pressure differential.
 - g. Economizer controller on EconomizerONE models shall be the Siemens POL224 that provides:
 - 1) Combined minimum and DCV maximum damper position potentiometers with compressor staging relay.
 - 2) Functions with solid-state analog enthalpy or dry bulb changeover control sensing.
 - 3) LED indication for free cooling, sensor, and damper operation.
 - 4) One-line LCD interface screen for setup, configuration and troubleshooting.
 - 5) On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating properly, per California Title 24, ASHRAE 90.1 and IECC¹.
 - 6) Sensor failure loss of communication identification.
 - 7) Capabilities for use with multiple-speed or single speed indoor fan systems.
 - 8) Digital sensors: Dry bulb and Enthalpy.
 - h. Shall be capable of introducing up to 100% outdoor air.
 - i. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air and contain seals that meet ASHRAE 90.1 requirements.
 - j. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - k. Dry bulb outdoor air temperature sensor shall be provided as standard. Enthalpy sensor is also available on factory-installed economizers only. Outdoor air sensor setpoint shall be adjustable and shall range from 40°F to 100°F (4°C to 38°C). Additional sensor options shall be available as accessories.
 - l. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 100%, with a range of 0% to 100%.
 - m. The economizer shall maintain minimum airflow into the building during occupied period and provide design ventilation rate for full occupancy.
 - n. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - o. Economizer controller shall accept a 0 to 10 vdc CO₂ sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor air damper to provide ventilation based on the sensor input.
 - p. Compressor lockout temperature on POL224 control is adjustable from -45°F to 80°F (-42°C to 26°C), set at a factory default of 32°F (0°C).
 - q. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
 - r. Contains LED indication for free cooling, sensor, and damper operation.
2. Integrated EconomizerONE Ultra Low Leak Rate Models (factory-installed on 3-phase models only, field-installed on all 3-phase and 1-phase models):
- a. Integrated, gear driven opposing modulating blade design type capable of simultaneous economizer and compressor operation.
 - b. Independent modules for vertical or horizontal return configuration shall be available. Vertical return modules shall be available as a factory-installed option.
 - c. Damper blades shall be galvanized steel with composite gears. Plastic or composite blades on intake or return shall not be acceptable.
 - d. Shall include all hardware and controls to provide free cooling with outdoor air when temperature and/or humidity are below setpoints.
 - e. Shall be equipped with gear driven dampers for both the outdoor ventilation air and the return air for positive air stream control.
 - f. Ultra Low Leak design meets California Title 24 section 140.4 and ASHRAE 90.1 requirements for 4 cfm per sq ft on the outside air dampers and 10 cfm per sq ft on the return dampers.
 - g. Economizer controller on EconomizerONE models shall be the Siemens POL224 that provides:
 - 1) One-line LCD interface screen for setup, configuration and troubleshooting.
 - 2) On-board Fault Detection and Diagnostics (FDD) that senses and alerts when the economizer is not operating

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Guide specifications (cont)

- properly, per California Title 24, ASHRAE 90.1 and IECC.
- 3) Sensor failure loss of communication identification.
 - 4) Capabilities for use with multiple-speed indoor fan systems.
 - 5) Digital sensors: Dry bulb and Enthalpy.
- h. Shall be capable of introducing up to 100% outdoor air.
 - i. Shall be equipped with a barometric relief damper capable of relieving up to 100% return air and contain seals that meet ASHRAE 90.1 requirements.
 - j. Shall be designed to close damper(s) during loss-of-power situations with spring return built into motor.
 - k. Dry bulb outdoor air temperature sensor shall be provided as standard. Enthalpy sensor is also available on factory-installed economizers only. Outdoor air sensor setpoint shall be adjustable and shall range from 40°F to 100°F (4°C to 38°C). Additional sensor options shall be available as accessories.
 - l. The economizer controller shall also provide control of an accessory power exhaust unit function. Factory set at 100%, with a range of 0% to 100%.
 - m. The economizer shall maintain minimum air-flow into the building during occupied period and provide design ventilation rate for full occupancy.
 - n. Dampers shall be completely closed when the unit is in the unoccupied mode.
 - o. Economizer controller shall accept a 0 to 10 vdc CO₂ sensor input for IAQ/DCV control. In this mode, dampers shall modulate the outdoor air damper to provide ventilation based on the sensor input.
 - p. Compressor lockout temperature on POL224 control is adjustable from -45°F to 80°F (-42°C to 26°C), set at a factory default of 32°F (0°C).
 - q. Actuator shall be direct coupled to economizer gear. No linkage arms or control rods shall be acceptable.
 - r. Contains LED indication for free cooling, sensor, and damper operation.
3. Wi-Fi/WLAN Stick for EconomizerONE POL224 (field-installed):

This item allows use of the Siemens Climatix™ mobile application.
 4. Two-Position Damper (field-installed only):
 - a. Damper shall be a Two-Position Damper. Damper travel shall be from the full closed position to the field adjustable %-open setpoint.
 - b. Damper shall include adjustable damper travel from 25% to 100% (full open).
 - c. Damper shall include single or dual blade, gear driven dampers and actuator motor.
 - d. Actuator shall be direct coupled to damper gear. No linkage arms or control rods shall be acceptable.
 - e. Damper will admit up to 100% outdoor air for applicable rooftop units.
 - f. Damper shall close upon indoor (evaporator) fan shutoff and/or loss of power.
 - g. The damper actuator shall plug into the rooftop unit's wiring harness plug. No hard wiring shall be required.
 - h. Outside air hood shall include aluminum water entrainment filter.
 5. Manual Damper (Field-installed only) package shall consist of damper, air inlet screen, and rain hood which can be preset to admit up to 25 or 50% outdoor air for year round ventilation.
 6. Hot Gas Re-Heat Dehumidification System (3-Phase Models Only) shall be factory-installed and shall provide greater dehumidification of the occupied space by 2 modes of dehumidification operations in addition to its normal design cooling mode:
 - a. Subcooling mode further sub cools the hot liquid refrigerant leaving the condenser coil when both temperature and humidity in the space are not satisfied.
 - b. Hot gas reheat mode shall mix a portion of the hot gas from the discharge of the compressor with the hot liquid refrigerant leaving the condenser coil to create a 2-phase heat transfer in the system, resulting in a neutral leaving air temperature when only humidity in the space is not satisfied.
 - c. Includes low ambient controller.
 7. Low Ambient Control Package:
 - a. Controller shall control coil head pressure by condenser fan speed modulation or condenser fan cycling and wind baffles.
 - b. Shall consist of solid-state control and condenser coil temperature sensor to maintain condensing temperature between 90°F (32°C) and 110°F (43°C) at outdoor ambient temperatures down to -20°F (-29°C).
 8. Condenser Coil Hail Guard Assembly (factory-installed on 3-phase models only, field-installed on all 3-phase and 1-phase models):
 - a. Shall protect against damage from hail.
 - b. Shall be either hood style or louvered.

Guide specifications (cont)

9. Unit-Mounted, Non-Fused Disconnect Switch (Available on units with MOCPs of 80 amps or less. Not available on 460-3-60 volt models.):
 - a. Switch shall be factory-installed, internally mounted.
 - b. National Electric Code (NEC) and UL approved non-fused switch shall provide unit power shutoff.
 - c. Shall be accessible from outside the unit.
 - d. Shall provide local shutdown and lockout capability.
 - e. Sized only for the unit as ordered from the factory. Does not accommodate field-installed devices.
10. Convenience Outlet:
 - a. Powered Convenience Outlet. (3-Phase Models Only):
 - 1) Outlet shall be powered from main line power to the rooftop unit.
 - 2) Outlet shall be powered from line side or load side of disconnect by installing contractor, as required by code. If outlet is powered from load side of disconnect, unit electrical ratings shall be UL certified and rated for additional outlet amperage.
 - 3) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
 - 4) Outlet shall include 15 amp GFI receptacles with independent fuse protection.
 - 5) Voltage required to operate convenience outlet shall be provided by a factory-installed step-down transformer.
 - 6) Outlet shall be accessible from outside the unit.
 - 7) Outlet shall include a field-installed "Wet in Use" cover.
 - b. Factory-Installed Non-Powered Convenience Outlet:
 - 1) Outlet shall be powered from a separate 115/120-v power source.
 - 2) A transformer shall not be included.
 - 3) Outlet shall be factory-installed and internally mounted with easily accessible 115-v female receptacle.
 - 4) Outlet shall include 15 amp GFI receptacles with independent fuse protection.
 - 5) Outlet shall be accessible from outside the unit.
 - 6) Outlet shall include a field-installed "Wet in Use" cover.
 - c. Field-Installed Non-Powered Convenience Outlet:
 - 1) Outlet shall be powered from a separate 115/120-v power source.
 - 2) A transformer shall not be included.
 - 3) Outlet shall be field-installed and internally mounted with easily accessible 115-v female receptacle.
 - 4) Outlet shall include 20 amp GFI receptacles. This kit provides a flexible installation method which allows code compliance for height requirements of the GFCI outlet from the finished roof surface as well as the capability to relocate the outlet to a more convenient location.
 - 5) Outlet shall be accessible from outside the unit.
 - 6) Outlet shall include a field-installed "Wet in Use" cover.
11. Flue Discharge Deflector:
 - a. Flue discharge deflector shall direct unit exhaust vertically instead of horizontally.
 - b. Deflector shall be defined as a "natural draft" device by the National Fuel and Gas (NFG) code.
12. Thru-the-Base Connectors:
 - a. Kits shall provide connectors to permit gas and electrical connections to be brought to the unit through the unit basepan.
 - b. Minimum of 4 connection locations per unit.
13. Propeller Power Exhaust:
 - a. Power exhaust shall be used in conjunction with an integrated economizer.
 - b. Independent modules for vertical or horizontal return configurations shall be available.
 - c. Horizontal power exhaust shall be mounted in return ductwork.
 - d. Power exhaust shall be controlled by economizer controller operation. Exhaust fans shall be energized when dampers open past the 0 to 100% adjustable setpoint on the economizer control.
14. Roof Curbs (Vertical):
 - a. Full perimeter roof curb with exhaust capability providing separate air streams for energy recovery from the exhaust air without supply air contamination.
 - b. Formed galvanized steel with wood nailer strip and shall be capable of supporting entire unit weight.
 - c. Permits installation and securing of ductwork to curb prior to mounting unit on the curb.
15. Outdoor Air Enthalpy Sensor shall be used to provide single enthalpy control. When used in conjunction with a return air enthalpy sensor, the unit will provide differential enthalpy control. The sensor allows the unit to determine if outside air is suitable for free cooling.

Guide specifications (cont)

16. Return Air Enthalpy Sensor shall be used in conjunction with an outdoor air enthalpy sensor to provide differential enthalpy control.
17. Indoor Air Quality (CO₂) Sensor:
 - a. Shall be able to provide demand ventilation indoor air quality (IAQ) control.
 - b. The IAQ sensor shall be available in duct mount, wall mount, or wall mount with LED display. The setpoint shall have adjustment capability.
18. Smoke Detectors (factory-installed only):
 - a. Shall be a 4-wire controller and detector.
 - b. Shall be environmental compensated with differential sensing for reliable, stable, and drift-free sensitivity.
 - c. Shall use magnet-activated test/reset sensor switches.
 - d. Shall have tool-less connection terminal access.
 - e. Shall have a recessed momentary switch for testing and resetting the detector.
 - f. Controller shall include:
 - 1) One set of normally open alarm initiation contacts for connection to an initiating device circuit on a fire alarm control panel.
 - 2) Two Form-C auxiliary alarm relays for interface with rooftop unit or other equipment.
 - 3) One Form-C supervision (trouble) relay to control the operation of the Trouble LED on a remote test/reset station.
 - 4) Capable of direct connection to 2 individual detector modules.
 - 5) Can be wired to up to 14 other duct smoke detectors for multiple fan shut-down applications.
19. Winter Start Kit:
 - a. Shall contain a bypass device around the low pressure switch.
 - b. Shall be required when mechanical cooling is required down to 25°F (-4°C).
 - c. Shall not be required to operate on an economizer when below an outdoor ambient of 40°F (4°C).
20. Time Guard:
 - a. Shall prevent compressor short-cycling by providing a 5-minute delay (±2 minutes) before restarting a compressor after shut-down for any reason.
- b. One device shall be required per compressor.
21. Hinged Access Panels:
 - a. Shall provide easy access through integrated quarter turn latches.
 - b. Shall be on major panels of: filter, control box, fan motor, and compressor.
22. Condensate Overflow Switch: This sensor and related controller monitors the condensate level in the drain pan and shuts down compression operation when overflow conditions occur. It includes:
 - a. Indicator light — solid red (more than 10 seconds on water contact — compressors disabled), blinking red (sensor disconnected).
 - b. 10 second delay to break — eliminates nuisance trips from splashing or waves in pan (sensor needs 10 seconds of constant water contact before tripping).
 - c. Disables the compressor(s) operation when condensate plug is detected, but still allows fans to run for economizer.
23. MERV-13 return air filters are a field-installed accessory to upgrade standard unit filters to MERV-13 filters.
24. Phase Monitor Control:
 - a. Shall monitor the sequence of 3-phase electrical system to provide a phase reversal protection.
 - b. Shall monitor the 3-phase voltage inputs to provide a phase loss protection for the 3-phase device.
 - c. Will work on either a Delta or Wye power connection.
25. Horn/Strobe Annunciator provides an audible/visual signaling device for use with factory-installed option or field-installed accessory smoke detectors:
 - a. Requires installation of a field-supplied 24-v transformer suitable for 4.2 VA (AC) or 3.0 VA (DC) per horn/strobe accessory.
 - b. Requires field-supplied electrical box, North American 1-gang box, 2 in. x 4 in. (51 mm x 102 mm).
 - c. Shall have a clear colored lens.

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