

2010-0485

**VILLAGE OF ORLAND PARK
SMART ENERGY FUND AGREEMENT**

THIS AGREEMENT, entered into this 5th day of November, between the Village of Orland Park, Illinois (hereinafter referred to as "Village") and the following designated Owner/Lessee, to witness:

Owner's Name: Roy Tufekcioglu

Lessee's Name: N/A

Name of Business: Kismet Restaurant

Tax ID#/Social Security #: 2615-0689

Address of Property to be Improved: 9931 W. 151st Street

PIN Number: 27-16-203-027

WITNESSETH:

WHEREAS, the Village of Orland Park has established a Smart Energy Fund for application within the Village of Orland Park (the "Village") and funded it through the American Recovery and Reinvestment Act of 2009 via the United States Department of Energy's Energy Efficiency and Conservation Block Grant (EECBG); and

WHEREAS, said Smart Energy Fund is administered by the Village for the purposes of helping property owners and tenants of commercial structures within the Village to conserve resources and install high performance, energy efficient and renewable energy systems; and

WHEREAS, pursuant to the Smart Energy Fund the Village, subject to its sole discretion, will reimburse Owners/Lessees for the cost of eligible energy efficiency/ renewable energy improvements to commercial structures within the Village up to a maximum of one-half (1/2) of the approved contract cost of such improvements or \$20,000.00, whichever is less; and

WHEREAS, the Owner/Lessee's property is located within the Village, and the Owner/Lessee desires to participate in the Smart Energy Fund pursuant to the terms and provisions of this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements obtained herein, the Village and the Owner/Lessee do hereby agree as follows:

SECTION 1

With respect to energy efficiency/ renewable energy improvements, the Village shall reimburse an Owner/Lessee for the cost of improvements to the Owner/Lessee's property at the rate of fifty percent (50%) of such cost.

The actual total reimbursement amounts per this Agreement shall not exceed \$7,440.00. The improvement costs that are eligible for Village reimbursement include all labor, materials, equipment, and other contract items necessary for the proper execution and completion of the scope of work as shown on the plans, design drawings, specifications and estimates approved by the Village. Such plans, design drawings, specifications, estimates and scope of work are attached hereto as Exhibit A.

The energy efficiency/ renewable energy improvements to be performed pursuant to this Agreement are:

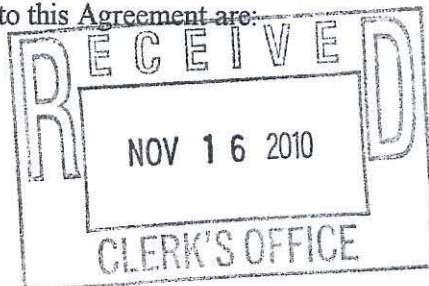
Per B&B Heating and Cooling bid:

- Replace two (2) rooftop HVAC units at Kismet with new Trane HVAC units;

B&B Heating and Cooling Bid (\$14,880)

Trane Variable Speed 2-Stage Heat Rooftop Unit (Model #4YCY4048B1120A)

iManage:181007_1



- 14 SEER;
- 4-Ton;
- Energy Star Qualified;

Trane Variable Speed 2-Stage Heat Rooftop Unit (Model #4YCY4036B1096A)

- 14 SEER;
- 3-Ton;
- Energy Star Qualified;

SECTION 2

No improvement work shall be undertaken until its design has been submitted to and approved by the Village. Following approval, the Owner/Lessee shall contract for the work and shall commence and complete all such work within ninety (90) days from the date of such approval.

SECTION 3

The Development Services Director shall periodically review the progress of the contractor's work on the energy efficiency/ renewable energy improvements pursuant to this Agreement. Such inspections shall not replace any required permit inspections by the Building Inspectors. All work which is not in conformance with the approved plans, design drawings and specifications shall be immediately remedied by the Owner/Lessee and deficient or improper work shall be replaced and made to comply with the approved plans, design drawings and specifications and the terms of this Agreement.

SECTION 4

Upon completion of the improvements and upon their final inspection and approval by the Development Services Director or his/her designee, the Owner/Lessee shall submit to the Village a properly executed and notarized contractor sworn statement showing the full cost of the work, as well as each separate component amount due to the contractor and each and every subcontractor involved in furnishing labor, materials or equipment in the work. In addition, the Owner/Lessee shall submit to the Village proof of payment of the contract cost pursuant to the contractor's statement and final lien waivers from all contractors and subcontractors. The Owner/Lessee shall also submit to the Village a copy of all of the invoices for professional services fees for preparation of plans and specifications. The Village shall, within thirty (30) days of receipt of the contractor's statement, proof of payment and lien waivers, and the professional services statement, issue a check to the Owner/Lessee as reimbursement for one-half (1/2) of the approved construction cost estimate or one-half (1/2) of the actual construction cost, whichever is less, subject to the limitations set forth in Section 1 hereof.

SECTION 5

If the Owner/Lessee or his contractor fails to complete the improvement work provided for herein in conformity with the time limitation, approved plans, design drawings and specifications and the terms of this Agreement, then upon written notice being given by the Development Services Director to the Owner/Lessee, by certified mail to the address listed above, this Agreement shall terminate and the financial obligation on the part of the Village shall cease and become null and void.

SECTION 6

Upon completion of the improvement work pursuant to this Agreement, the Owner/Lessee shall be responsible for properly maintaining such improvements in finished form and without change or alteration thereto, as provided in this Agreement, unless changes are submitted for review and are approved by the Village Board. Such approval shall not be unreasonably withheld if the proposed changes do not substantially alter the original design concept of the improvements as specified in the plans, design drawings and specifications approved pursuant to this Agreement. In the event the approved energy efficiency/ renewable energy improvements are not properly maintained or alterations are made to the improvements without prior consent from the Village, the Village reserves the right to terminate this Agreement, hold the applicant liable for any architectural design and consultant fees incurred by the Village, and require reimbursement in full for all monies expended towards the project through this Smart Energy Fund.

SECTION 7

This Agreement shall be binding upon the Village and upon the Owner/Lessee and its successors, to said property for a period of ten (10) years from and after the date of completion and approval of the energy efficiency/ renewable energy improvements provided for herein. It shall be the responsibility of the Owner/Lessee to inform subsequent Owner/Lessee(s) of the provisions of this Agreement, and to be aware of the requirement for prior Village approval of any alteration whatsoever to the building energy systems funded by the Smart Energy Fund.

SECTION 8

The Owner/Lessee releases the Village from, and covenants and agrees that the Village shall not be liable for, and covenants and agrees to indemnify and hold harmless the Village and its officials, officers, employees and agents from and against, any and all losses, claims, damages, liabilities or expenses, of every conceivable kind, character and nature whatsoever arising out of, resulting from or in any way connected directly or indirectly with the energy efficiency/ renewable energy improvement(s), including but not limited to actions arising from the Prevailing Wage Act (820 ILCS 30/0.01 et seq.) and the Davis-Bacon Act (40 U.S.C. 3141 et seq.) The Owner/Lessee further covenants and agrees to pay for or reimburse the Village and its officials, officers, employees and agents for any and all costs, reasonable attorneys' fees, liabilities or expenses incurred in connection with investigating, defending against or otherwise in connection with any such losses, claims, damages, liabilities, or causes of action. The Village shall have the right to select legal counsel and to approve any settlement in connection with such losses, claims, damages, liabilities, or causes of action. The provisions of this Section 8, as well as Sections 6 and 7, above, shall survive the completion of said façade improvement(s).

SECTION 9

Nothing herein is intended to limit, restrict or prohibit the Owner/Lessee from undertaking any other work in or about the subject premises, which is unrelated to the energy efficiency/ renewable energy improvements provided for in this Agreement.

SECTION 10

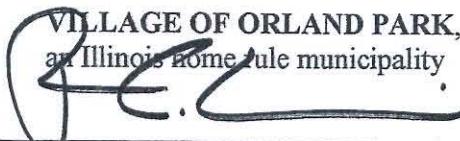
This Agreement shall be enforceable by any action at law or in equity, including actions for specific performance and injunctive relief. The laws of the State of Illinois shall control the construction and enforcement of this Agreement. The parties agree that all actions instituted on this Agreement shall be commenced and heard in the Circuit Court of Cook County, Illinois, and hereby waive venue in any other court of competent jurisdiction. Before any failure of any party to perform any obligation arising from this Agreement shall be deemed to constitute a breach, the party claiming the breach shall notify the defaulting party and demand performance. No breach of this Agreement shall be found to have occurred if performance is commenced to the satisfaction of the complaining party within thirty (30) days of the receipt of such notice.

IN WITNESS THEREOF, the parties hereto have executed this Agreement on the date first appearing above.

OWNER



VILLAGE OF ORLAND PARK,
an Illinois home rule municipality

By: 

Village Administrator

LESSEE (if applicable)

ATTEST: 

Village Clerk

MOM'S Restaurant

9931 West 151st Street Orland Park IL. 60462
Ph: 708 349 2205 Fx: 708 349 3909

The 2 HV/AC Rooftop Systems we like to replace are about 15 years old. We don't think these units are energy efficient.

1 The unit RHEEM is only 9 SEER # 2 The Unit CARRIER is only 8 SEER

The new Purposed units are not less than 14 SEER each

According to engineers at the TRANE manufacturing, we will save close to 40% to 50 % on electric Power (Watts) usage. That means needing less power to do same job.

Current Yearly Average usage is: (We have two (2) different electrical meters in our Restaurant

Meter #1 21,736 kWh Meter #2 56,540 kWh

21,736 + 56,540 = 78,276 kWh used in one year. But all of this not for HV/AC use, there is other uses included in it. Like lights and refrigeration. Therefore we will find out the approximate use of HV/AC Table Below

If we install 2 brand new energy efficient HV/AC systems we think we will have Savings of 760.70 Dollars per Year

Money Saved by Switching to Energy Efficient Equipments

		#1 Meter kWh	#2 Meter kWh	
1	aug	2786	5463	Summer months
2	sep	2251	5077	Summer months
	total	5037	10540	15577.00
3	oct	1258	4215	
4	nov	1231	4310	
5	dec	1740	5019	Holliday usage Increase Xmas Lights etc.
6	jan	1458	4275	
7	feb	1430	4317	
8	mar	1210	4283	
9	apr	1260	4324	
	total	7847	25724	33571.00
				Average Usage with No Air
10	may	1697	4683	Summer months
11	jun	2819	5314	Summer months
12	jul	3868	6333	Summer months
	total	8384	16330	24714.00
		13421	26870	40291.00
				Average Use With Air
				6720.00
				extra Power used by Air Conditioner
				kWh \$ Cost
				\$0.11
				\$760.70
				Dollars spent for AC (cooling)
				\$342.32
				Will be saved with ENERGY STAR units



B & B Heating & Cooling, Inc.

P.O. Box 2363

Orland Park, IL 60462

Phone: 708/403-2276 815/485-2227

Fax: 815/485-9407

September 10, 2010

RE: 9931 W. 151st Street
Orland Park, IL 60462

THC, LLC
9931 W. 151st Street
Orland Park, IL 60462

Dear Roy:

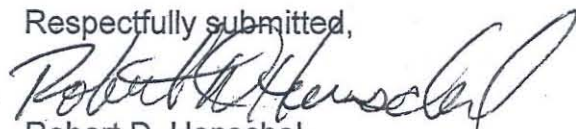
B & B Heating & Cooling, Inc. proposes to provide all materials, labor, and crane necessary to complete the following:

We will remove two (2) existing rooftop package units. The current 3-Ton Carrier unit that helps condition the dining area shall be replaced with a 4-Ton Trane 4YCY4048B1120A 14 SEER Variable Speed 2-Stage Heat Rooftop Unit. The 2-Ton Rheem unit that conditions the back area of the restaurant shall be replaced with a 3-Ton Trane 4YCY4036B1096A 14 SEER Variable Speed 2-Stage Heat Rooftop unit. New electrical disconnects, weather-tite electrical whips, and Supco Surge Protectors at the new disconnect shall be installed for each rooftop unit. We shall re-work all necessary ducting from the new equipment to the existing ducting on the roof (Note: Any necessary repairs to the roof due to the new modifications shall be by other). This installation shall also include two (2) Honeywell 6000 Series Heat/Cool Programmable Thermostats to control each of the systems.

All of the above work to be completed in a substantial and workman like manner according to standard practices for the sum of \$14,880.00

Any alteration or deviation from the above specifications involving additional costs of materials or labor will only be executed upon written orders for the same, and will become an additional charge over the sum mentioned in this contract. All agreements must be made in writing.

Respectfully submitted,



Robert D. Henschel

September 8, 2010

ACCEPTANCE

You are hereby authorized to furnish all materials and labor required to complete the work in the above proposal, for which I agree to pay the amount mentioned in said proposal, and according to terms thereof. A deposit of 1/3rd will be required with order, and the balance of all moneys to be paid in full upon completion.

Accepted: _____

Date: _____

HVAC INCENTIVES WORKSHEET

Air Conditioning Units

Equipment Type	Size Category	Qualifying Efficiency	Incentive
Unitary and Split Air Conditioning Systems and Air Source Heat Pumps	< 65,000 Btuh (5.4 tons)	14 SEER	\$15.00 per ton
		15 SEER	\$30.00 per ton
	≥ 65,000 Btuh and < 240,000 Btuh (5.5–20 tons)	12 EER*	\$30.00 per ton
	≥ 240,000 Btuh and < 760,000 Btuh (21–63 tons)	10.8 EER*	\$30.00 per ton
	≥ 760,000 Btuh (> 63 tons)	10.2 EER*	\$30.00 per ton
Water-Cooled Chillers	ALL	Level 1 (see specifications)	\$20.00 per ton
		Level 2 (see specifications)	\$40.00 per ton
Air-Cooled Chillers	ALL	Level 1 (see specifications)	\$30.00 per ton
		Level 2 (see specifications)	\$60.00 per ton
Room Air Conditioners	ALL	See specifications	\$30.00 per ton
PTAC/PTHP	ALL	13.08–(0.2556 x Btuh/1000) EER	\$30.00 per ton

Equipment Type	Make and Model	Unit Efficiency**	Unit Size in Tons (A)	Incentive per Ton (B)	Number of Units Installed (C)	Incentive (A x B x C)
UNITARY / TRANE	4YCY4036B1096A	14 SEER	3	15.00	1	45.00
UNITARY / TRANE	4YCY4048B1120A	14 SEER	4	15.00	1	60.00
TOTAL						

Incentive cannot exceed 100 percent of the incremental measure cost and 50 percent of total project cost.

* Units with electric resistance heating must have EER values 0.2 higher than the efficiencies listed.

** Unit efficiency for chillers should be provided in kW per ton – IPLV (IPLV = Integrated Part Load Value). Unit efficiency in AC units less than 65,000 Btuh should be provided in SEER. Unit efficiency for all other equipment should be provided in EER.



4YCY4036B-SUB-1E

TAG: _____

SUBMITTAL**3 Ton Convertible Gas/Electric Packaged Units
4YCY4036B1075/96A****PRODUCT SPECIFICATIONS**

MODEL	4YCY4036B1075A	4YCY4036B1096A
RATED Volts/Ph/Hz	208-230/1/60	208-230/1/60
Performance Cooling BTUH ^①	38000	38000
Indoor Airflow (CFM)	1210	1210
Power Input (KW)	3.166	3.166
EER/SEER(BTU/Watt-Hr.) ^②	12.0 / 14.2	12.0 / 14.2
Sound Power Rating [dB(A)] ^③	69	69
Performance Heating^④		
Input BTUH - 1st Stage (Natural Gas)	56250	72000
Input BTUH - 2nd Stage (Natural Gas)	75000	96000
AFUE	79.5	80.0
Temp. Rise — Min/Max (°F)	30 / 60	40 / 70
Orifice Qty / Drill Size (Natural Gas) ^⑤	2 / #33	3 / #37
POWER CONN.—V/PH/Hz	208-230/1/60	208-230/1/60
Min. Brch. Cir. Ampacity ^⑥	24.6	24.6
Fuse Size — Max. (amps)	40	40
Fuse Size — Recmd. (amps)	40	40
COMPRESSOR	SCROLL	SCROLL
Volts/Ph/Hz	208-230/1/60	208-230/1/60
R.L. Amps — L.R. Amps	15.4 / 83	15.4 / 83
OUTDOOR COIL — TYPE	SPINE-FIN	SPINE-FIN
Rows/F.P.I.	2 / 24	2 / 24
Face Area (sq.ft.)	15.49	15.49
Tube Size (in.)	3/8	3/8
INDOOR COIL — TYPE	PLATE FIN	PLATE FIN
Rows/F.P.I.	4 / 15	4 / 15
Face Area (sq.ft.)	3.54	3.54
Tube Size (in.)	3/8	3/8
Refrigerant Control	EXPANSION VALVE	EXPANSION VALVE
Drain Conn. Size (in.)	3/4 FEMALE NPT	3/4 FEMALE NPT
OUTDOOR FAN — TYPE	PROPELLER	PROPELLER
Dia. (in.)	23.4	23.4
Drive/No. Speeds	DIRECT / 1	DIRECT / 1
CFM @ 0.0 in. w.g. ^⑦	3320	3320
Motor — HP/R.P.M.	1/5 / 830	1/5 / 830
Volts/Ph/Hz	208-230/1/60	208-230/1/60
F.L. Amps/L.R. Amps	1.1 / 1.9	1.1 / 1.9
INDOOR FAN — TYPE	CENTRIFUGAL	CENTRIFUGAL
Dia x Width (in.)	10 X 10	10 X 10
Drive/No. Speeds	DIRECT / VARIABLE	DIRECT / VARIABLE
CFM @ 0.0 in. w.g. ^⑧	SEE FAN PERFORMANCE TABLE	SEE FAN PERFORMANCE TABLE
Motor — HP/R.P.M.	1/2 / VARIABLE	1/2 / VARIABLE
Volts/Ph/Hz	200-230/1/60	200-230/1/60
F.L. Amps/L.R. Amps	4.3 / 4.3	4.3 / 4.3
COMBUSTION FAN — TYPE	CENTRIFUGAL	CENTRIFUGAL
Drive/No. Speeds	DIRECT / 2	DIRECT / 2
Motor — HP/R.P.M.	1/45 / 2800/1500	1/45 / 2800/1500
Volts/Ph/Hz	208-230/1/60	208-230/1/60
FLA	0.34	0.34
FILTER / FURNISHED	NO	NO
Type Recommended	THROWAWAY	THROWAWAY
Recmd. Face Area (sq. ft.) ^⑨	4	4
REFRIGERANT	R410A	R410A
Charge (lbs.) ^⑩	7.9	7.9
GAS PIPE SIZE (in.)	1/2	1/2
DIMENSIONS	H X W X L	H X W X L
Crated (in.)	47.86 / 44.5 / 52.03	47.86 / 44.5 / 52.03
WEIGHT		
Shipping (lbs.) / Net (lbs.)	488 / 392	493 / 397

① Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on ARI Standard 210/240. Sound Power values are not adjusted for ARI 270-95 tonal corrections.

② All models are certified to UL 1995. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

③ Convertible to LPG.

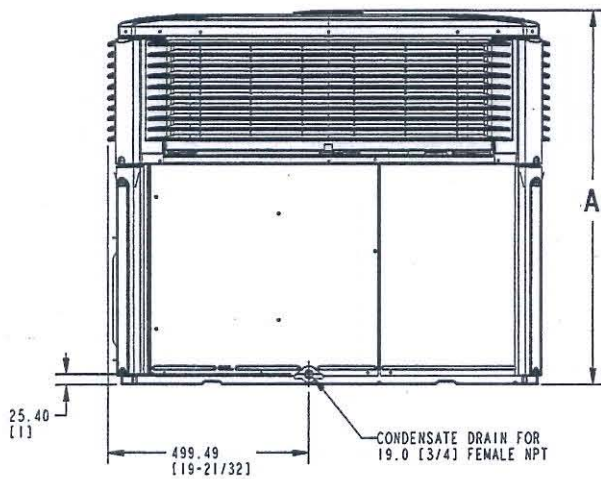
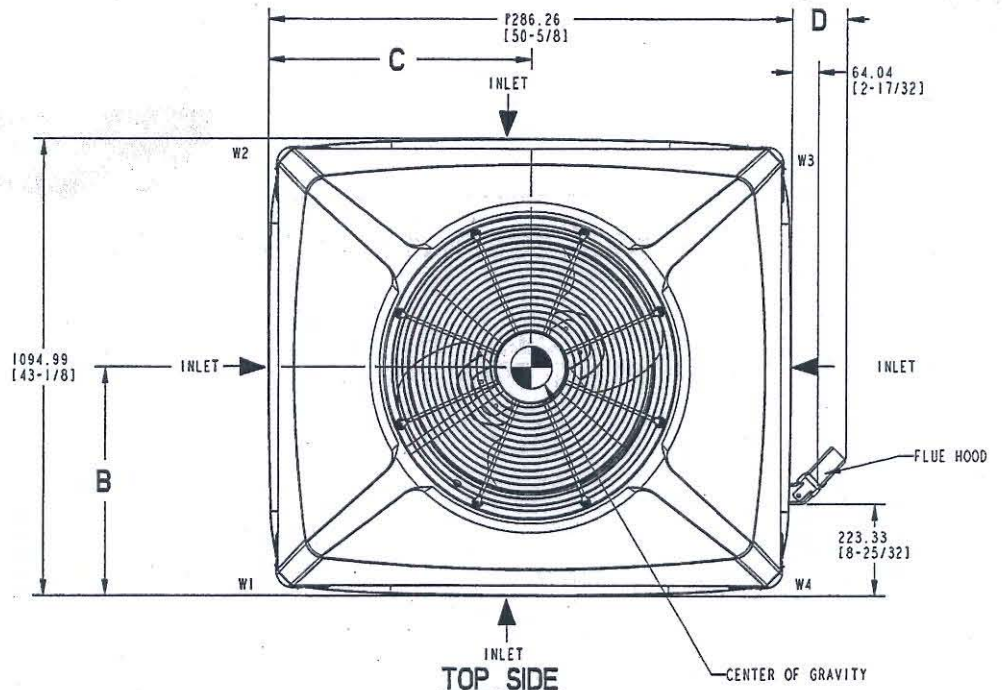
④ This value is approximate. For more precise value, see Unit Nameplate.

⑤ Based on U.S. Government Standard Tests.

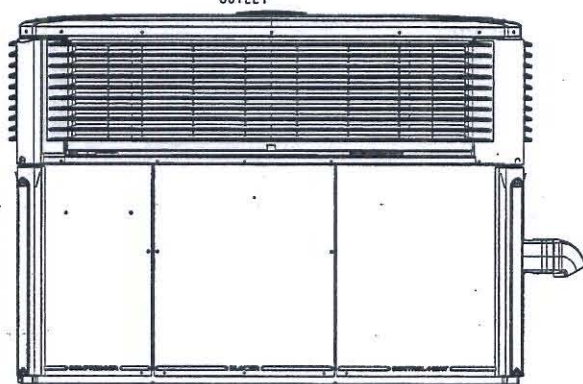
⑥ Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.

⑦ Standard Air - Dry Coil - Outdoor.

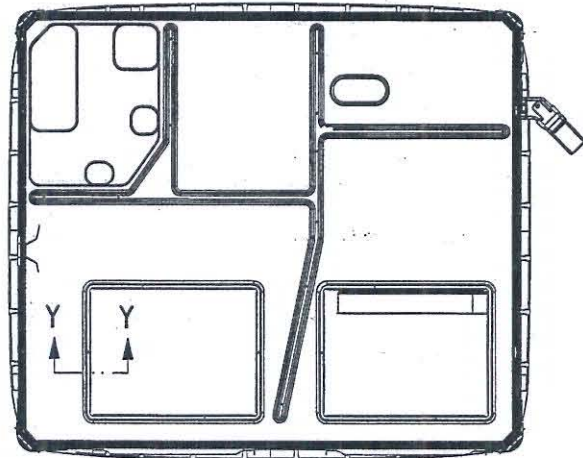
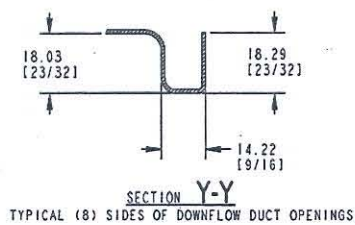
Dimensional Data



LEFT SIDE



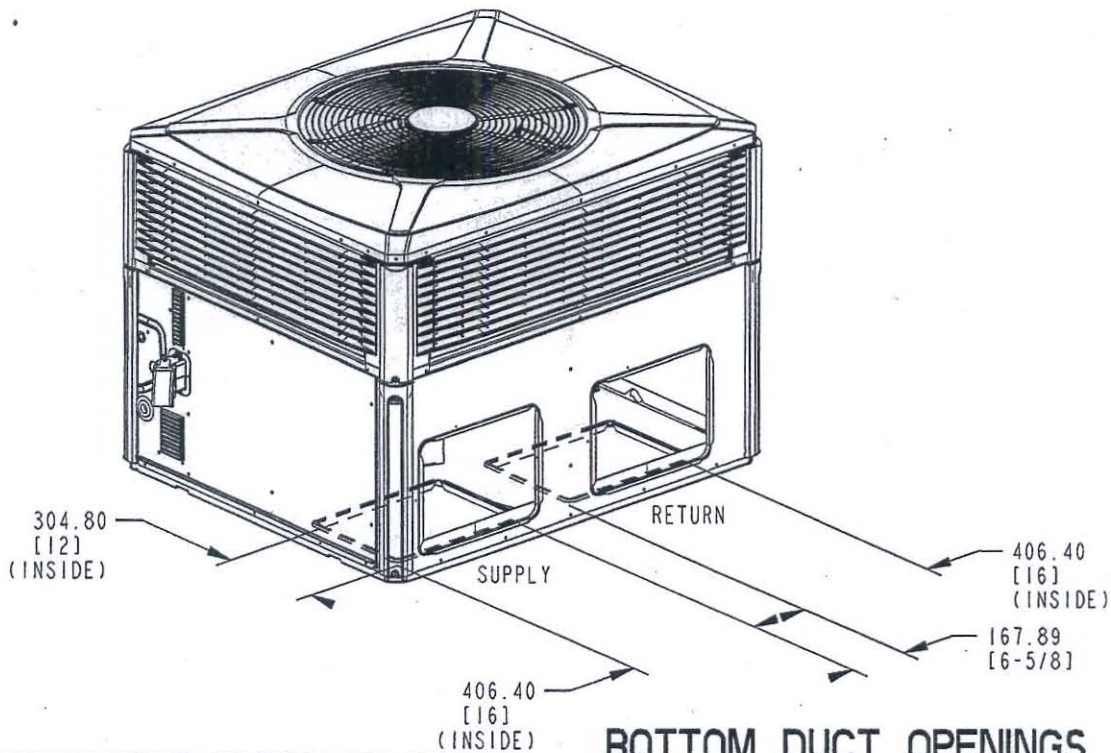
FRONT SIDE



BOTTOM SIDE

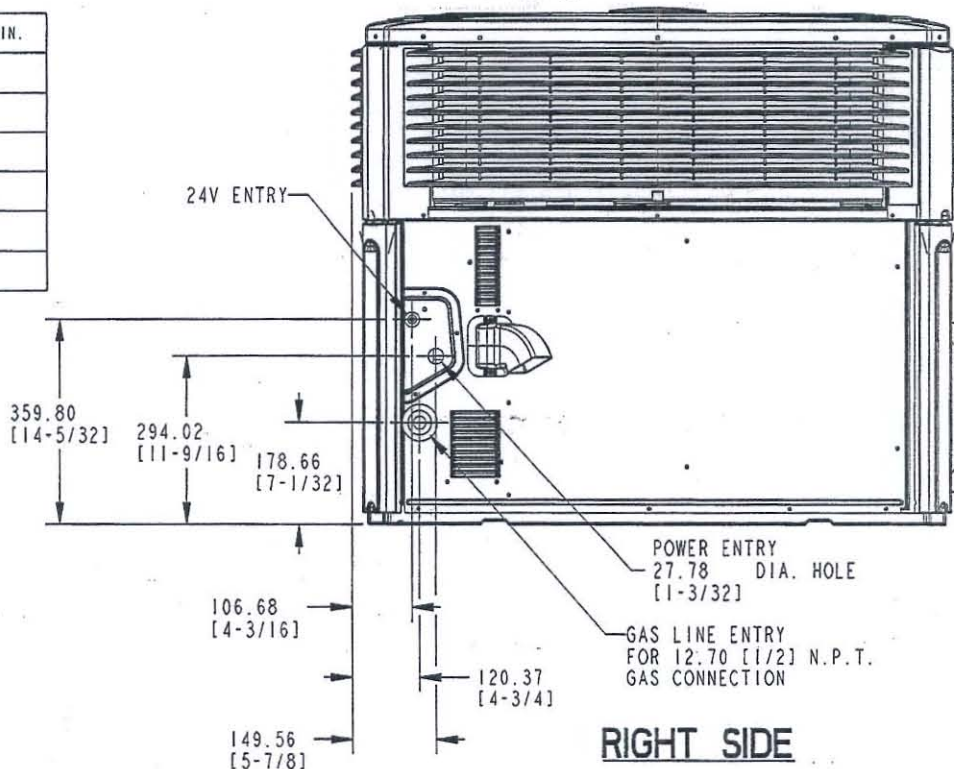
4YCY4024 through 4YCY4036 (1 of 3)

Dimensional Data

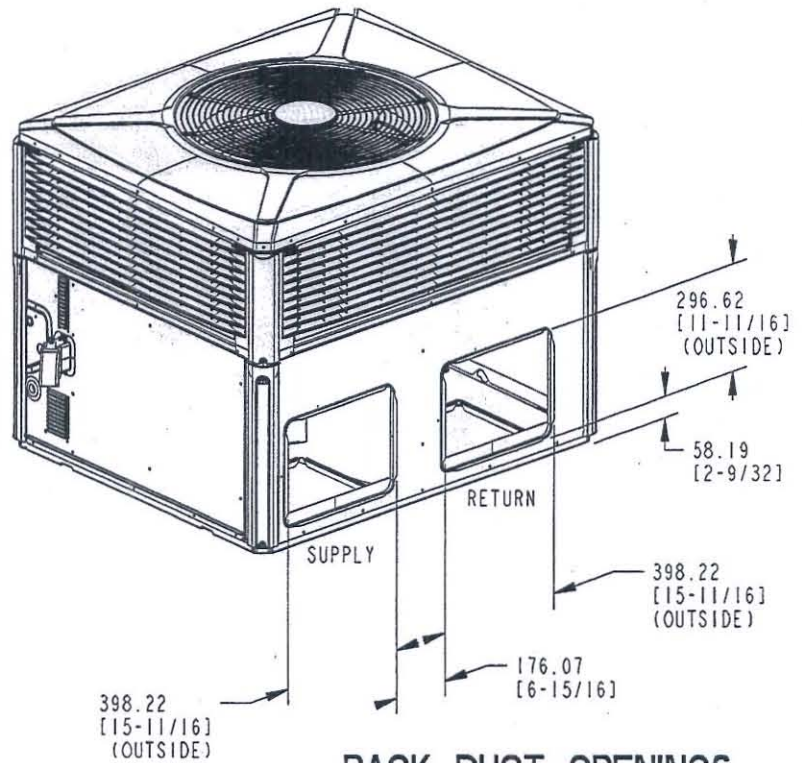


RECOMMENDED SERVICE CLEARANCE MM/IN.		
		WITH ECONOMIZER
BACK SIDE	304.8 [12]	762.0 [30]
LEFT SIDE	762.0 [30]	914.4 [36]
RIGHT SIDE	914.4 [36]	-
FRONT SIDE	1066.8 [42]	-

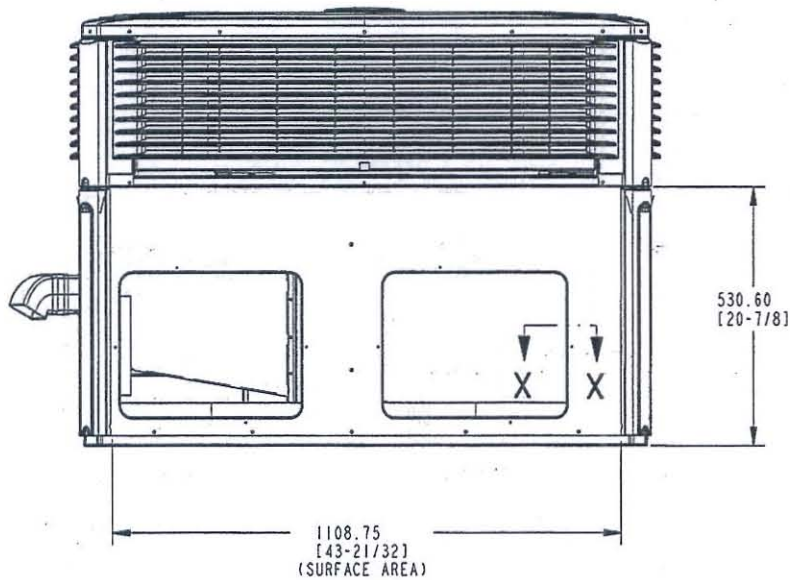
CLEARANCE TO COMBUSTIBLE MATERIAL MM/IN.	
BOTTOM	0
BACK SIDE	25.4 [1]
LEFT SIDE	152.4 [6]
RIGHT SIDE	304.8 [12]
FRONT SIDE	304.8 [12]
TOP	914.4 [36]



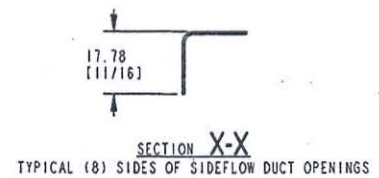
4CY4024 through 4CY4036 (2 of 3)



BACK DUCT OPENINGS



BACK SIDE



MODEL	HEIGHT MM/IN.	FLUE HOOD W/BRKT MM/IN.	APPROX. CORNER WEIGHT - KG/LBS				SHIPPING WEIGHT KG/LBS	TOTAL UNIT WEIGHT KG/LBS	CENTER OF GRAVITY MM/IN.	
	A		W1	W2	W3	W4			B	C
4YCY4024 (064)	903.29 [35-9/16]	117.86 [4-5/8]	59.0 [130]	37.2 [82]	31.3 [69]	48.5 [107]	218.4 [481]	174.8 [385]	401.3 [15.8]	546.1 [21.5]
4YCY4030 (075)			60.3 [133]	36.3 [80]	30.4 [67]	50.3 [111]	221.6 [488]	178.0 [392]	388.6 [15.3]	558.8 [22.0]
4YCY4036/4YCY6036 (075)	949.99 [37-3/8]	117.86 [4-5/8]	61.2 [135]	36.7 [81]	30.8 [68]	51.3 [113]	223.8 [493]	180.1 [397]	388.6 [15.3]	558.8 [22.0]
4YCY4036/4YCY6036 (096)			60.8 [134]	38.1 [84]	31.3 [69]	48.5 [107]	218.4 [481]	174.8 [385]	398.8 [15.7]	546.1 [21.5]
4DCY4024 (064)	903.29 [35-9/16]	117.86 [4-5/8]	62.1 [137]	37.2 [82]	30.4 [67]	50.3 [111]	221.6 [488]	178.0 [392]	386.1 [15.2]	558.8 [22.0]
4DCY4030 (075)										
4DCY4036/4DCY6036 (075)	949.99 [37-3/8]									

4YCY4024 through 4YCY4036 (3 of 3)

Unit Performance Data

Performance Data Cooling

4YCY4036B AT 1200 NOM CFM (COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE)											
OD Amb	ID WB	TOTAL CAP	SENS CAP AT ENTERING DB TEMP				TOTAL KW	USE THE FOLLOWING FACTORS TO COMPENSATE FOR DIFFERENT AIR FLOW			
			72	75	78	80					
85		25.6	25.1	24.9	24.6	3.7	3.9	AIR FLOW	CAPACITY	TOTAL POWER	
	59.0	36.6	30.1	33.7	36.6	36.6	2.8	RATE, CFM	MULTIPLIER	MULTIPLIER	
	63.0	38.4	24.7	28.3	31.9	34.4	2.8	LOW	1050	0.98	0.99
	67.0	41.1	19.5	23.1	26.8	29.2	2.8	HIGH	1350	1.02	1.01
95	71.0	44.5	14.5	18.1	21.8	24.2	2.9	A.H.R.I RATING FOR COOLING			
	59.0	34.2	29.0	32.7	34.2	34.2	3.1	CFM			
	63.0	35.9	23.6	27.2	30.9	33.3	3.1	CAPACITY (A) TEST			
	67.0	38.4	18.5	22.1	25.7	28.2	3.2	SEER			
105	71.0	41.6	13.4	17.1	20.7	23.2	3.2	EER			
	59.0	31.8	27.9	31.1	31.8	31.8	3.4	1140			
	63.0	33.4	22.6	26.2	29.9	32.3	3.4	38000			
	67.0	35.7	17.4	21.1	24.7	27.2	3.5	14.2			
115	71.0	38.7	12.4	16.1	19.7	22.2	3.5	12			
	59.0	29.4	26.9	29.4	29.4	29.4	3.7	A.H.R.I. Standard Capacity Rating Conditions			
	63.0	30.9	21.6	25.2	28.9	30.9	3.7	A.H.R.I. Standard 210/240 Rating Conditions - (A) Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil. (B) High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil. (C) Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.			
	67.0	33.0	16.4	20.1	23.7	26.2	3.8				
	71.0	35.8	11.5	15.1	18.7	21.2	3.8				

A.H.R.I. Standard Capacity Rating Conditions
A.H.R.I. Standard 210/240 Rating Conditions - (A) Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil. (B) High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil. (C) Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil. (D) Rated indoor airflow for heating is the same as for cooling.

Indoor Fan Performance 4YCY4036

Horizontal Airflow

4YCY4036-HOR		External Static Pressure (in. wg)											
Motor Speed			0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
LOW	Watts	162	173	197	226	256	285	313	343	383	440	525	
	CFM	1058	1062	1063	1063	1062	1060	1057	1053	1048	1042	1033	
MED*	Watts	179	230	265	296	329	366	403	431	450	485	555	
	CFM	1179	1196	1204	1206	1205	1203	1199	1194	1185	1169	1144	
HIGH	Watts	318	336	365	399	435	469	502	533	563	-	-	
	CFM	1390	1376	1370	1366	1361	1354	1349	1351	1369	-	-	

Down Airflow

4YCY4036-DOWN		External Static Pressure (in. wg)											
Motor Speed			0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
LOW	Watts	169	182	210	243	273	301	331	370	433	480	530	
	CFM	1025	1062	1068	1063	1060	1061	1064	1055	1015	975	990	
MED*	Watts	225	253	283	315	348	381	414	449	484	522	575	
	CFM	1187	1201	1203	1201	1198	1197	1194	1184	1157	1165	1150	
HIGH	Watts	339	357	390	424	455	483	516	571	669	-	-	
	CFM	1391	1377	1377	1375	1366	1352	1344	1360	1340	-	-	

*Factory Default Setting

Heating Airflow, horizontal or downflow from .2 to .6" wg.

4YCY4036 *075				
Switch Settings		Selection	Nominal Airflow	
			Low Stage	High Stage
7-OFF	8-OFF	A	725	1000
7-ON	8-OFF	B	775	1075
7-OFF	8-ON	C	850	1150
7-ON	8-ON	D	925	1250

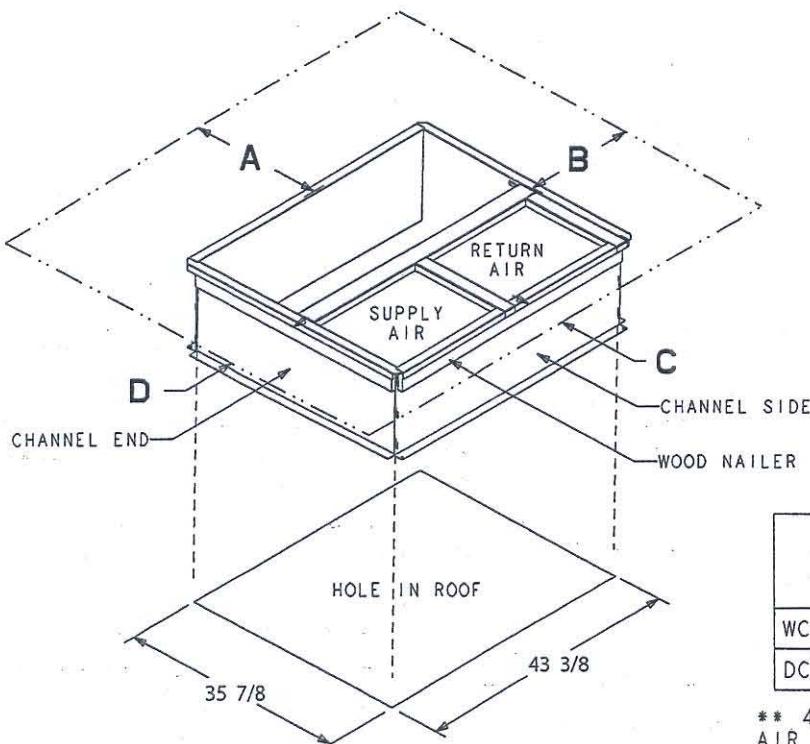
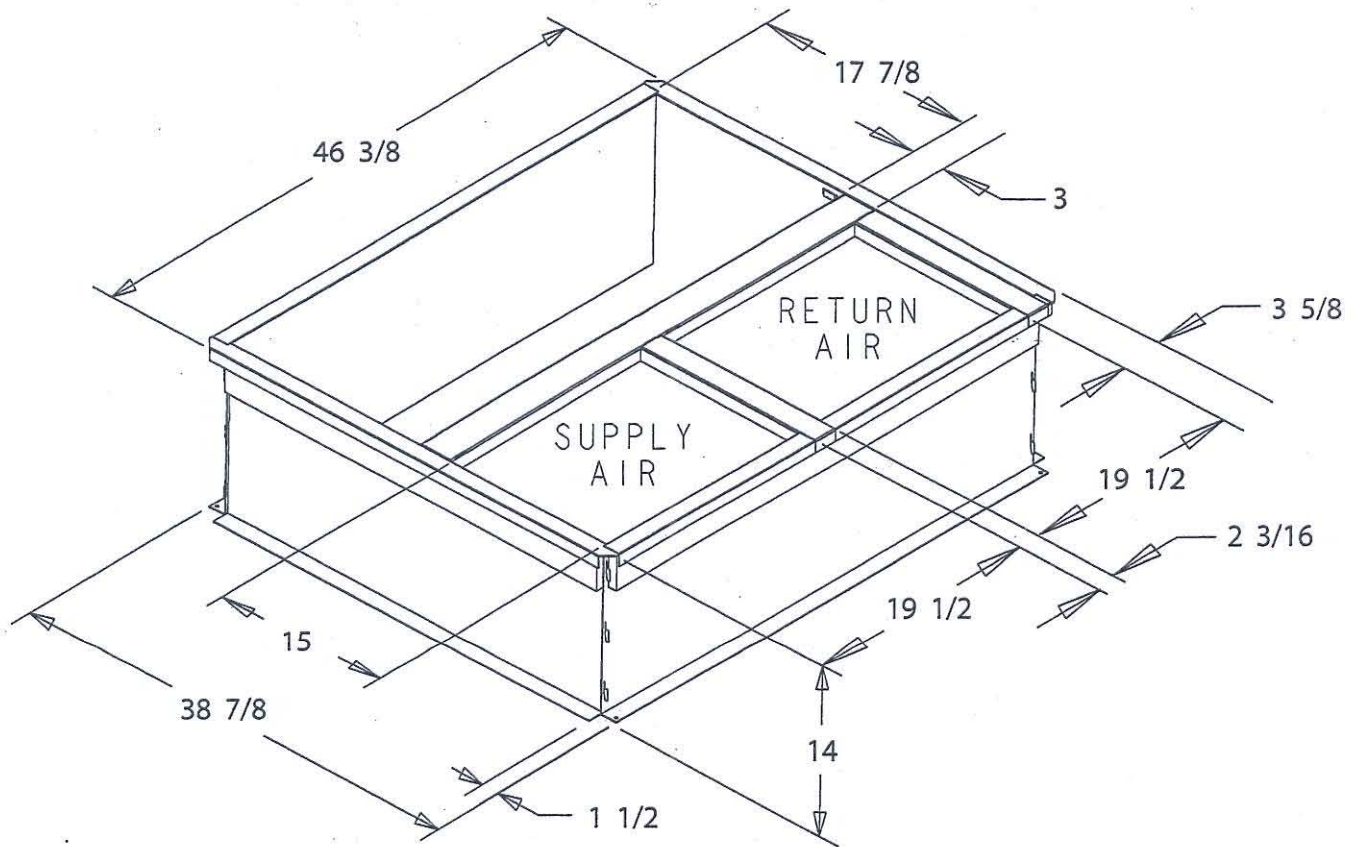
* can be 1 or 3

4YCY4036 *096				
Switch Settings		Selection	Nominal Airflow	
			Low Stage	High Stage
7-OFF	8-OFF	A	825	1100
7-ON	8-OFF	B	875	1175
7-OFF	8-ON	C	950	1275
7-ON	8-ON	D	1025	1375

* can be 1 or 3

Optional Equipment

BAYCURB050A FULL PERIMETER ROOF MOUNTING CURB FOR *****018-03



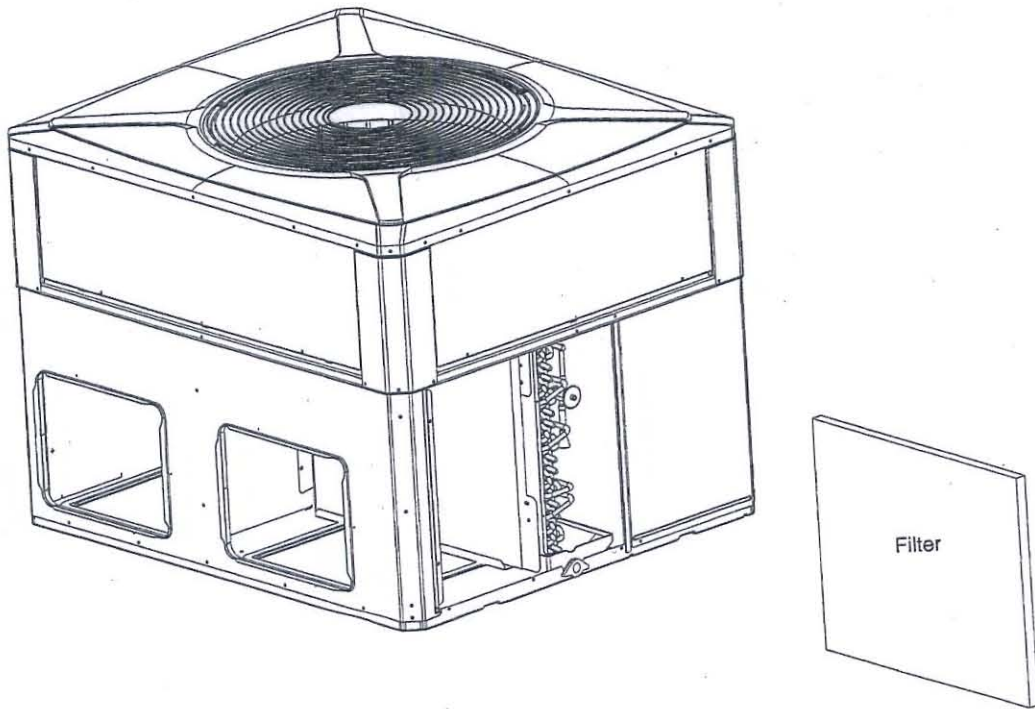
The drawings on this page are prepared by the manufacturer in order to provide detail regarding job layout only. These drawings are not intended to be used as a basis to construct, build or modify the items depicted in the drawings. The manufacturer is not responsible for the unauthorized use of these drawings and expressly disclaims any liability for damages resulting from such unauthorized use.

	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

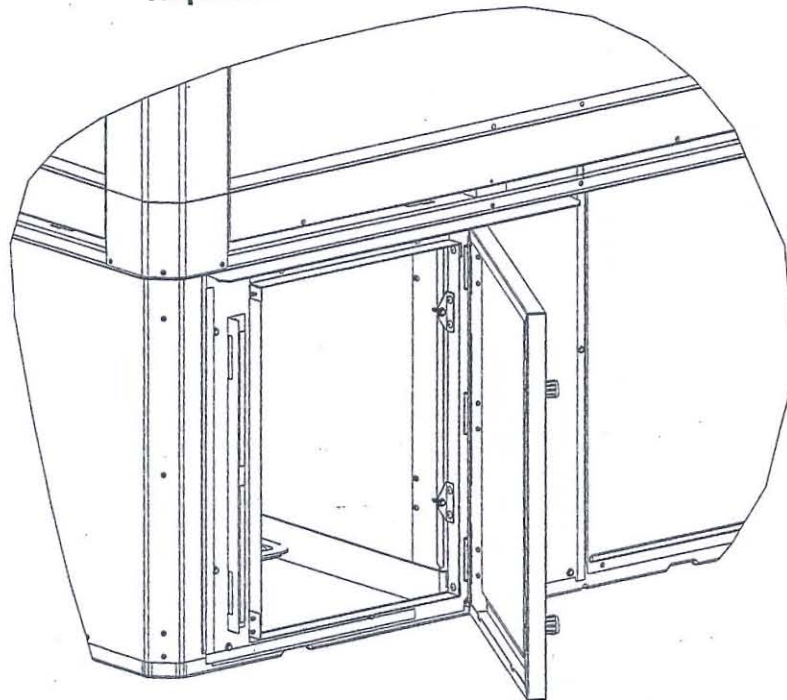
** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

Optional Equipment

**BAYFLTR101, 201B, 1" - 2" Filter Rack
(Mounts in Filter/Coil Section)**



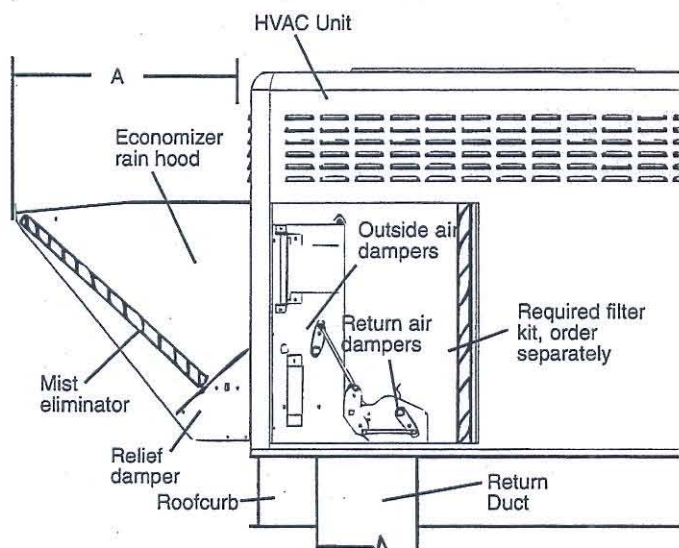
**BAYACCDOR1A & BAYACCDOR2A Hinged Filter Access Door
Replaces Filter/Coil Access Panel**



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Optional Equipment

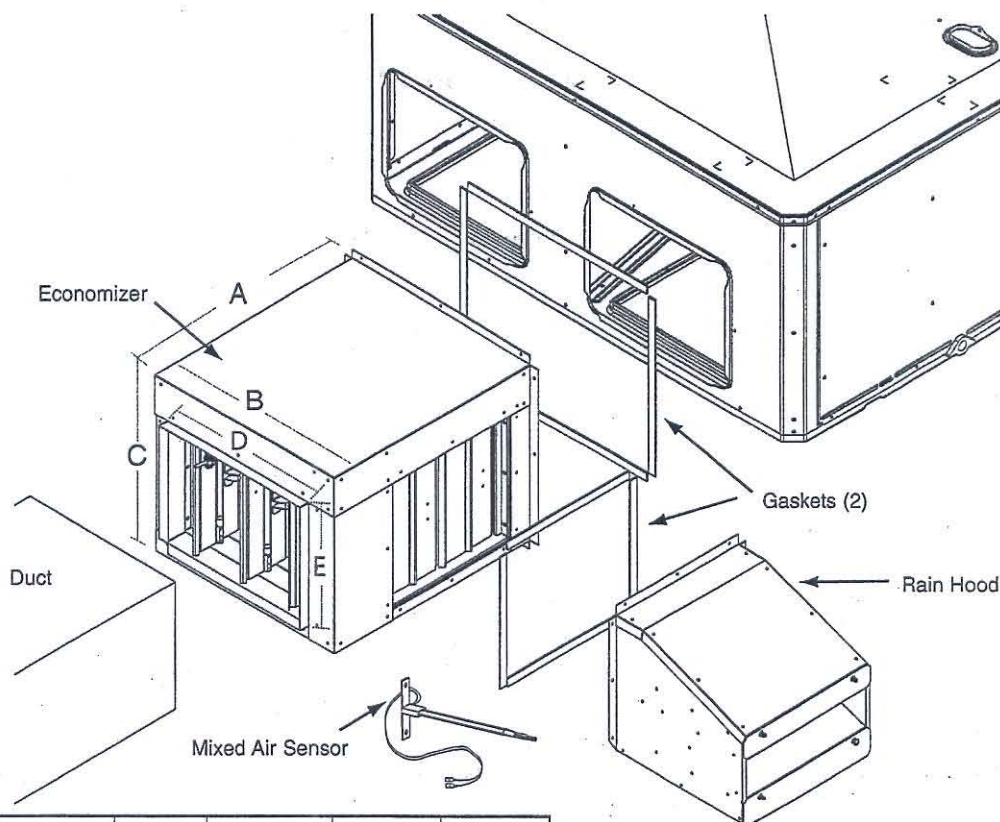
BAYECON101,102A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)



Economizer	Unit Application Models	A
BAYECON101A	2/4TC*, WC*, YC*, DC* *018-036	20.125"
BAYECON102A	2/4TC*, WC*, YC*, DC* *042-060	24.375"

BAYECON200,201A Horizontal Economizer and Rain Hood

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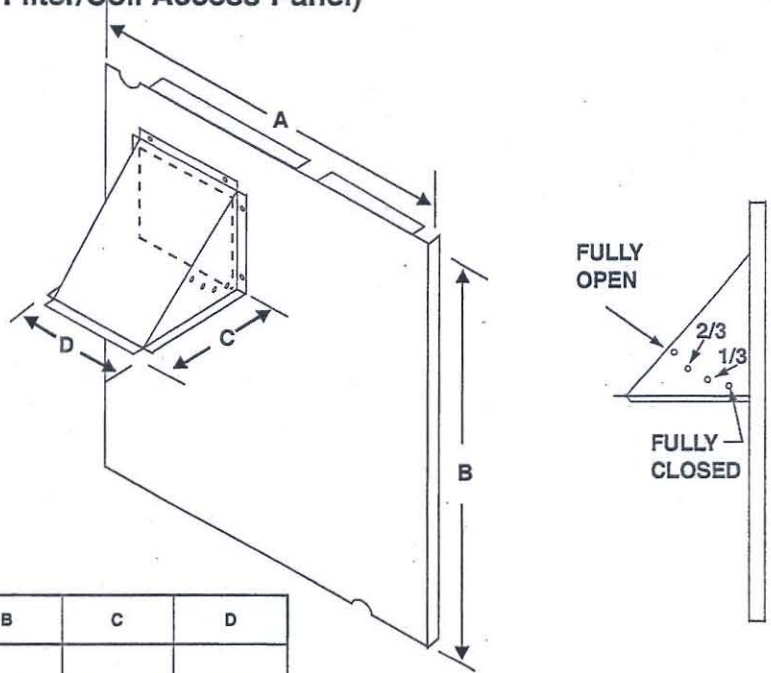


Economizer	A	B	C	D	E	F
BAYECON200AA	22"	20"	16 7/8"	15 11/16"	11 11/16"	15"
BAYECON201AA	26"	22 21/32"	19"	17 11/16"	14 11/16"	21-3/8"

Optional Equipment

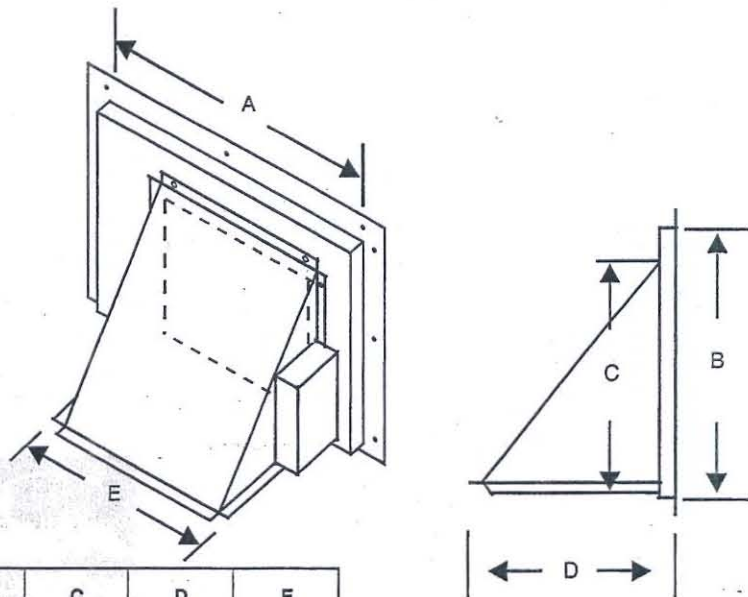
BAYOSAH001,002A, 25% Outside Air Damper (Replaces Filter/Coil Access Panel)

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Manual Fresh Air Model	Unit Application Models	A	B	C	D
BAYOSAH001	2/4YC,WC3018-036 4TC*3018-036 4W/T/Y/DCY4024-036 4W/Y/DCZ6036	22 7/16"	20 11/16"	12 3/8"	9 3/16"
BAYOSAH002	2/4YC,WC3042-060 4TC*3042-060 4W/T/Y/DCY4042-060 4W/Y/DCZ6048-060	25 3/16"	20 11/16"	12 3/8"	9 3/16"

BAYDMPR101,102A, 25% Motorized Outside Air Damper (Mounts Over Horizontal Return Air Opening)



	Unit Application Models	A	B	C	D	E
BAYDMPR101A	2/4YC,WC3018-036 4TC3018-036 4W/T/Y/DCY4024-036 4W/Y/DCZ6036	15 13/16"	11 13/16"	10 1/4"	11 1/2"	12 1/4"
BAYDMPR102A	2/4YC,WC3042-060 4TC3042-060 4W/T/Y/DCY4042-060 4W/Y/DCZ6048-060	18 3/16"	15 1/8"	10 1/4"	11 1/2"	12 1/4"

Mechanical Specifications

General

All units shall be factory assembled, piped, internally wired and fully charged with refrigerant. All units shall be designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities shall be rated in accordance with A.H.R.I. standards. The unit design is certified to ANSI 221.47/CSA 2.3 specifically for outdoor applications using natural gas or propane. All units shall be designed for outdoor rooftop or ground level installation. Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint.

Shipped for horizontal application, convertible to downflow.

Casings

All panels shall be heavy gauge steel, gasketed and insulated. Foil-faced insulation shall be in the heat exchanger section. Foil-faced insulation shall be in the evaporator section. Base pan shall be heavy gauge steel. **WEATHERGUARD™** exterior corrosion resistant screws shall be used for added resistance to rust and corrosion.

Controls

Refrigeration cycle controls shall include condenser fan, evaporator fan and compressor contactors. Compressors shall be equipped with a combination internal winding thermostat/current overload. Internal high pressure relief shall also be provided.

Refrigeration System

Compressors —

The **Climatuff®** compressor features internal over temperature and pressure protector, total dipped hermetic motor. Other features include: roto lock suction and discharge refrigeration connections, centrifugal oil pump, and low vibration and noise.

Evaporator Coil — Internally enhanced 3/8-inch OD seamless copper tubing mechanically bonded to aluminum fins, factory pressure and leak tested at 250 to 300 psig. All units have TXV to control refrigeration flow.

Condenser Coil —

The **Spine Fin™** condenser coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 3/8 inch OD seamless aluminum tubing glued to a continuous aluminum fin. Coils are lab tested to withstand 2,000 pounds of pressure per square inch. The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Indoor Air Fan — Direct-drive, forward-curved, centrifugal wheel in a Composite **Vortica®** Blower housing. Motor shall have thermal overload protection. Permanently lubricated motor bearings. Motor/blower assembly isolated from unit with rubber mounts.

Condenser Fan — Direct-drive, draw through propeller type. Weather-proofed permanent split capacitor fan motor shall have built-in thermal overload and permanently lubricated motor bearings.

Low Ambient — Standard refrigerant system operation down to 55°F. Low ambient accessory required for operation to 0°F ambient condition.

Gas-Fired Heating System — Models shall provide completely assembled, wired and piped gas fired heating systems within unit. Design certified by UL, specifically for outdoor application. Threaded gas connection on the unit.

Electronic Ignition System — Main burner is lit each time thermostat calls for gas heat. Flame sensor proves flame and keeps the main burners on. Should a loss of flame occur, the main valve closes and the spark recurs within 0.8 second. When thermostat is satisfied, main burner is extinguished.

Forced Combustion Blower — Insures flame stability under varying wind conditions. Gives higher combustion efficiency and location flexibility.

Heat Exchanger — stainless steel tubes. Free floating design.

Burners — stainless steel. Multi-port inshot.

Accessories

(U.S. Domestic Models)

Roof Curb — The roof curb shall be designed to mate with the unit and provide support and complete weather-tight installation when properly installed. Curb shall ship knocked down for field assembly, and include wood nailer strips.

Modulating Economizer — This accessory shall be field installed and be composed of the following items: 0-100% fresh air damper, damper drive motor fixed dry bulb enthalpy control, and low voltage polarized plug for electrical connections. Solid state enthalpy or differential enthalpy control is optional. Economizer operations shall be controlled by the preset position of the enthalpy control. A barometric relief damper shall be standard with the economizer and provide a pressure operated damper that shall be gravity closing and prohibit entrance of outside air on equipment "off" cycle.

Manual Fresh Air Hood

Manual outside air provides a fixed outside air quantity from 0 to 25 percent. Includes hood and birdscreen.

Low Ambient Control

Control allows cycling of compressor under low ambient cooling conditions. Required for cooling operation to 0°F.

Propane Gas

Conversion Kit — For conversion from natural gas to LP gas.



Trane

6200 Troup Highway
Tyler, TX 75707-9010

The manufacturer has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.

**TRANE®****4YCY4048B-SUB-1B**

TAG: _____

SUBMITTAL

4 Ton Convertible Gas/Electric Packaged Units

4YCY4048B1096/1120A

PRODUCT SPECIFICATIONS

MODEL	4YCY4048B1096A	4YCY4048B1120A
RATED Volts/Ph/Hz	208-230/1/60	208-230/1/60
Performance Cooling BTUH^①	48500	48500
Indoor Airflow (CFM)	1605	1605
Power Input (KW)	4.041	4.041
EER/SEER (BTU/Watt-Hr.) ^②	12 / 14.2	12 / 14.2
Sound Power Rating [dB(A)] ^③	73	73
Performance Heating^④		
Input BTUH - 1st Stage (Natural Gas)	72000	90000
Input BTUH - 2nd Stage (Natural Gas)	96000	120000
AFUE	80.0	80.0
Temp. Rise — Min/Max (°F)	30 / 60	40 / 70
Orifice Qty / Drill Size (Natural Gas) ^⑤	3 / #37	3 / #32
POWER CONN.—V/PH/Hz	208-230/1/60	208-230/1/60
Min. Brch. Cir. Ampacity ^⑥	35.4	35.4
Fuse Size — Max. (amps)	50	50
Fuse Size — Recmd. (amps)	50	50
COMPRESSOR	SCROLL	SCROLL
Volts/Ph/Hz	208-230/1/60	208-230/1/60
R.L. Amps — L.R. Amps	21.8 / 117	21.8 / 117
OUTDOOR COIL — TYPE	SPINE-FIN	SPINE-FIN
Rows/F.P.I.	2 / 24	2 / 24
Face Area (sq.ft.)	18.01	18.01
Tube Size (in.)	3/8	3/8
INDOOR COIL — TYPE	PLATE FIN	PLATE FIN
Rows/F.P.I.	3 / 15	3 / 15
Face Area (sq.ft.)	5.0	5.0
Tube Size (in.)	3/8	3/8
Refrigerant Control	EXPANSION VALVE	EXPANSION VALVE
Drain Conn. Size (in.)	3/4 FEMALE NPT	3/4 FEMALE NPT
OUTDOOR FAN — TYPE	PROPELLER	PROPELLER
Dia. (in.)	28.2	28.2
Drive/No. Speeds	DIRECT / 1	DIRECT / 1
CFM @ 0.0 in. w.g. ^⑦	4470	4470
Motor — HP/R.P.M.	1/4 / 825	1/4 / 825
Volts/Ph/Hz	208-230/1/60	208-230/1/60
F.L. Amps/L.R. Amps	1.4 / 3.5	1.4 / 3.37
INDOOR FAN — TYPE	CENTRIFUGAL	CENTRIFUGAL
Dia x Width (in.)	11 X 10	11 X 10
Drive/No. Speeds	DIRECT / VARIABLE	DIRECT / VARIABLE
CFM @ 0.0 in. w.g. ^⑧	SEE FAN PERFORMANCE TABLE	SEE FAN PERFORMANCE TABLE
Motor — HP/R.P.M.	3/4 / VARIABLE	3/4 / VARIABLE
Volts/Ph/Hz	200-230/1/60	200-230/1/60
F.L. Amps/L.R. Amps	6.8 / 6.8	6.8 / 6.8
COMBUSTION FAN — TYPE	CENTRIFUGAL	CENTRIFUGAL
Drive/No. Speeds	DIRECT / 2	DIRECT / 2
Motor — HP/R.P.M.	1/45 / 2800/1500	1/45 / 2800/1500
Volts/Ph/Hz	208-230/1/60	208-230/1/60
FLA	0.34	0.34
FILTER / FURNISHED	NO	NO
Type Recommended	THROWAWAY	THROWAWAY
Recmd. Face Area (sq. ft.) ^⑨	5.3	5.3
REFRIGERANT	R410A	R410A
Charge (lbs.) ^⑩	8.0	8.0
GAS PIPE SIZE (in.)	1/2	1/2
DIMENSIONS	H X W X L	H X W X L
Crated (in.)	47.86 / 47.4 / 61.75	47.86 / 47.4 / 61.75
WEIGHT		
Shipping (lbs.) / Net (lbs.)	669 / 541	675 / 547

① Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on ARI Standard 210/240. Sound Power values are not adjusted for ARI 270-95 tonal corrections.

② All models are certified to UL 1995. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

③ Convertible to LPG.

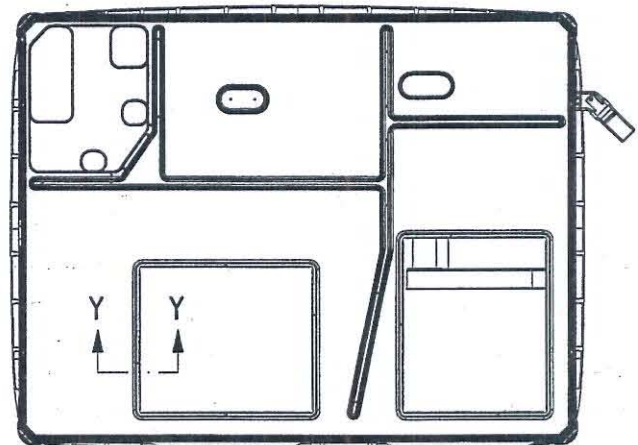
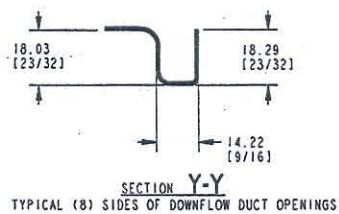
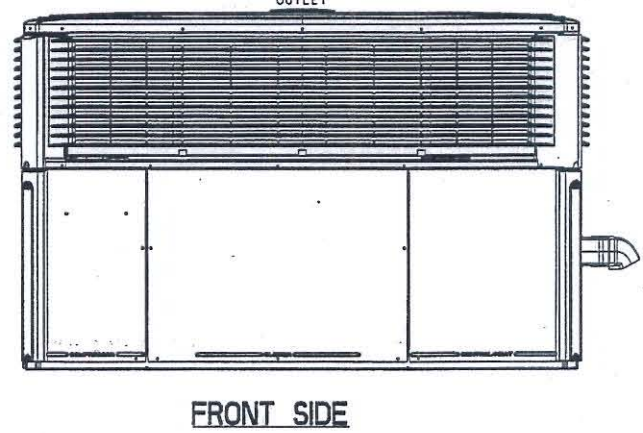
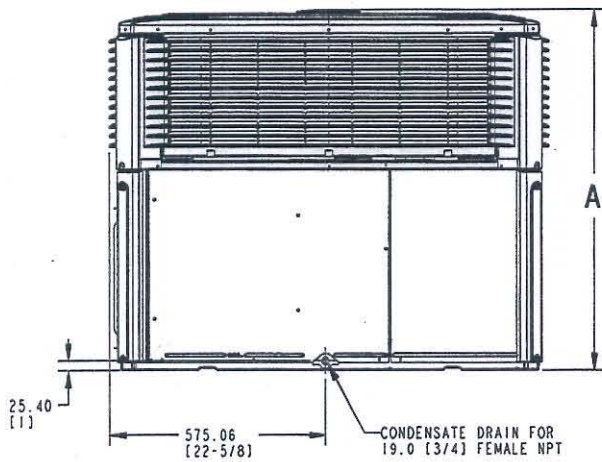
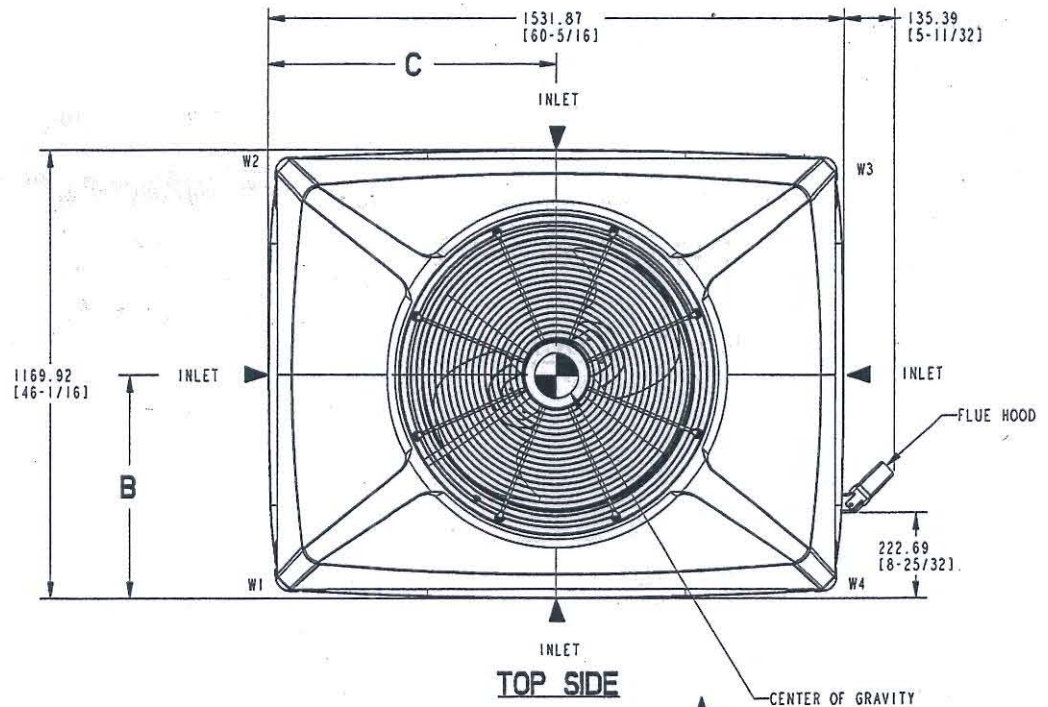
④ This value is approximate. For more precise value, see Unit Nameplate.

⑤ Based on U.S. Government Standard Tests.

⑥ Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.

⑦ Standard Air - Dry Coil - Outdoor.

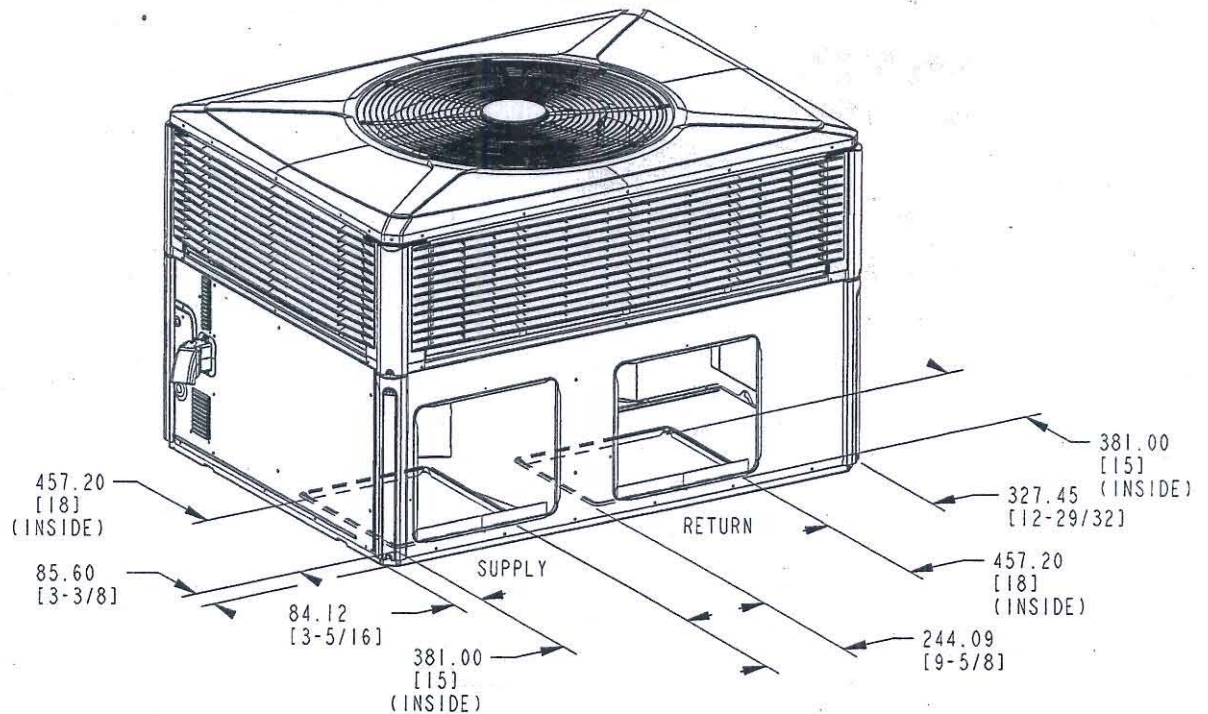
Dimensional Data



BOTTOM SIDE

4YCY4042 through 4YCY4060 (1 of 3)

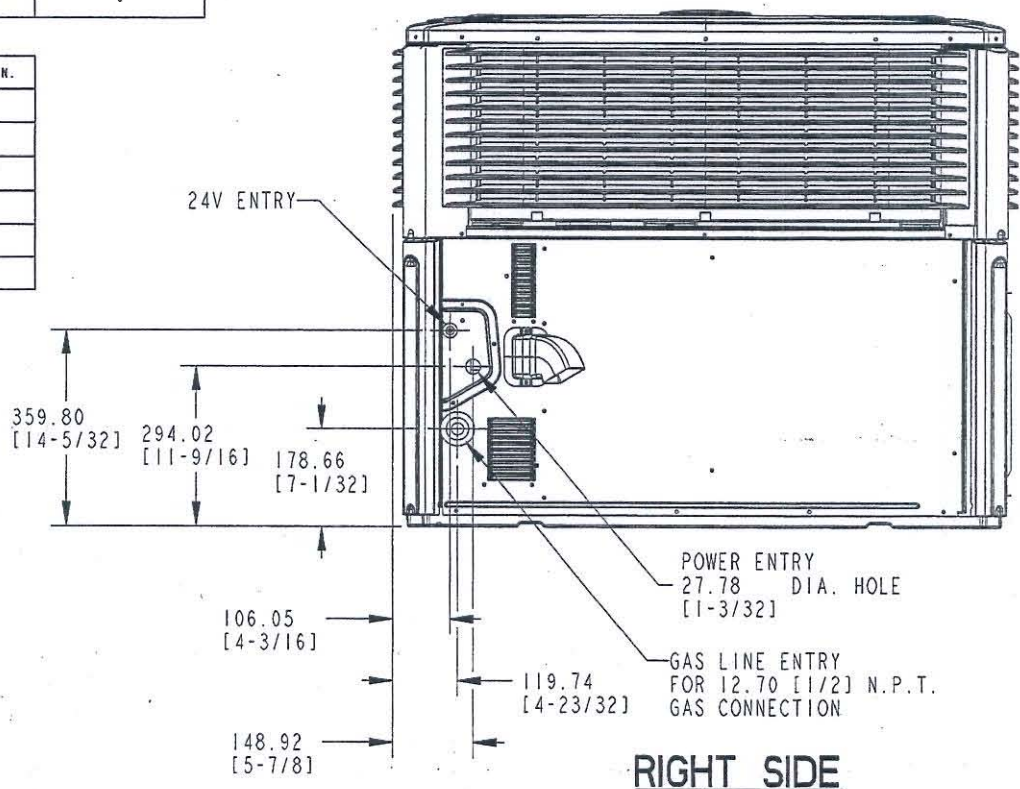
Dimensional Data



BOTTOM DUCT OPENINGS

RECOMMENDED SERVICE CLEARANCE MM/IN.		
		WITH O.A. DAMPER/ECON.
BACK SIDE	304.8 [12]	762.0 [30]
LEFT SIDE	914.4 [36]	1066.8 [42]
RIGHT SIDE	914.4 [36]	-
FRONT SIDE	1066.8 [42]	-

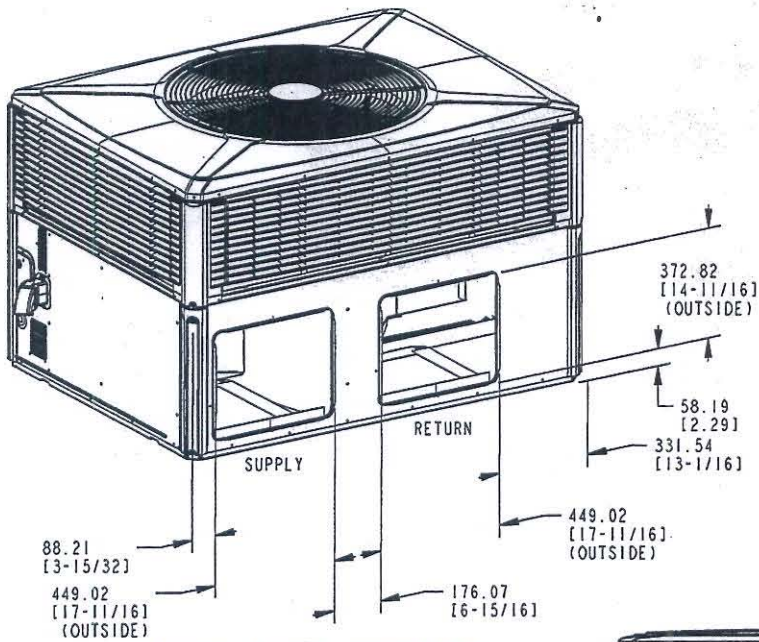
CLEARANCE TO COMBUSTIBLE MATERIAL MM/IN.	
BOTTOM	0
BACK SIDE	25.4 [1]
LEFT SIDE	152.4 [6]
RIGHT SIDE	304.8 [12]
FRONT SIDE	304.8 [12]
TOP	914.4 [36]



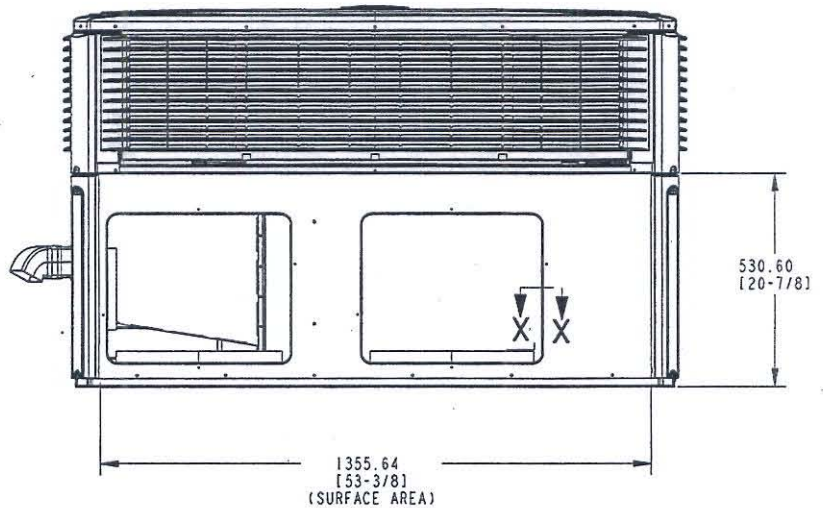
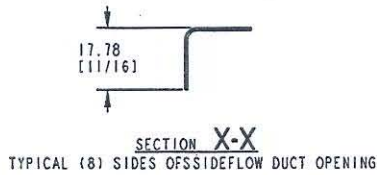
RIGHT SIDE

4CY4042 through 4CY4060 (2 of 3)

Dimensional Data



BACK DUCT OPENINGS



BACK SIDE

MODEL	HEIGHT MM/IN.	APPROX. CORNER WEIGHT - KG/LBS				SHIPPING WEIGHT KG/LBS	TOTAL UNIT WEIGHT KG/LBS	CENTER OF GRAVITY MM/IN.	
	A	W1	W2	W3	W4			B	C
4CY4042/048A (096)	949.33 [37-3/8]	75.3 [166]	50.3 [111]	45.4 [100]	67.6 [149]	296.5 [653]	238.1 [525]	444.5 [17.5]	698.5 [27.5]
4CY4048A (120)		75.7 [167]	50.8 [112]	45.8 [101]	68.5 [151]	299.2 [659]	240.9 [531]	444.5 [17.5]	698.5 [27.5]
4CY4048B (096)	949.33 [37-3/8]	77.1 [170]	52.2 [115]	47.2 [104]	69.4 [153]	303.4 [669]	245.9 [541]	444.5 [17.5]	698.5 [27.5]
4CY4048B (120)	949.33 [37-3/8]	77.1 [170]	52.2 [115]	47.2 [104]	69.4 [153]	303.4 [669]	245.9 [541]	444.5 [17.5]	698.5 [27.5]
4CY4060A1/A3 (120)	1050.93 [41-3/8]	82.1 [181]	46.3 [102]	43.1 [95]	76.7 [169]	306.9 [676]	248.6 [548]	401.3 [15.8]	711.2 [28.0]
4DCY4042/048A (096)	949.33 [37-3/8]	77.1 [170]	51.3 [113]	45.4 [100]	67.6 [149]	296.5 [653]	238.4 [525]	442.0 [17.4]	698.5 [27.5]
4DCY4048B (096)	949.33 [37-3/8]	78.9 [174]	53.0 [117]	47.2 [104]	69.4 [153]	306.6 [676]	248.5 [548]	442.0 [17.4]	698.5 [27.5]
4DCY4060 (120)	1050.93 [41-3/8]	83.9 [185]	47.2 [104]	43.1 [95]	76.7 [169]	306.9 [676]	248.8 [548]	398.8 [15.7]	711.2 [28.0]
4YCZ6048A1/A3/A4 (096)	1050.93 [41-3/8]	75.7 [167]	50.8 [112]	45.8 [101]	68.5 [151]	299.2 [659]	240.9 [531]	444.5 [17.5]	698.5 [27.5]
4YCZ6048A1/A3/A4 (120)		81.6 [180]	46.3 [102]	42.2 [93]	73.5 [162]	301.6 [665]	243.6 [537]	419.1 [16.5]	706.1 [27.8]
4YCZ6060A1/A3/A4 (120)	1050.93 [41-3/8]	82.1 [181]	46.3 [102]	43.1 [95]	76.7 [169]	306.9 [676]	248.6 [548]	401.3 [15.8]	711.2 [28.0]
4DCZ6048 (096)	1050.93 [41-3/8]	81.6 [180]	46.3 [102]	42.2 [93]	73.5 [162]	301.6 [665]	243.6 [537]	419.1 [16.5]	706.1 [27.8]
4DCZ6060 (120)	1050.93 [41-3/8]	83.9 [185]	47.2 [104]	43.1 [95]	75.7 [169]	306.9 [676]	248.8 [548]	398.8 [15.7]	711.2 [28.0]

4CY4042 through 4CY4060 (3 of 3)

Unit Performance Data

Performance Data Cooling

4CY4048B1 AT 1600 NOM CFM (COOLING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE)																											
OD Amb	ID WB	TOTAL CAP	SENS CAP AT ENTERING DB TEMP				TOTAL KW	USE THE FOLLOWING FACTORS TO COMPENSATE FOR DIFFERENT AIR FLOW																			
			72	75	78	80																					
85		25.6	25.1	24.9	24.6	3.7	3.9	<table><tr><th colspan="2">AIR FLOW</th><th>CAPACITY</th><th>TOTAL POWER</th></tr><tr><th colspan="2">RATE, CFM</th><th>MULTIPLIER</th><th>MULTIPLIER</th></tr><tr><td>LOW</td><td>1400</td><td>0.98</td><td>0.99</td></tr><tr><td>HIGH</td><td>1800</td><td>1.02</td><td>1.01</td></tr></table>				AIR FLOW		CAPACITY	TOTAL POWER	RATE, CFM		MULTIPLIER	MULTIPLIER	LOW	1400	0.98	0.99	HIGH	1800	1.02	1.01
	AIR FLOW		CAPACITY	TOTAL POWER																							
	RATE, CFM		MULTIPLIER	MULTIPLIER																							
	LOW	1400	0.98	0.99																							
HIGH	1800	1.02	1.01																								
	59.0	46.8	41.7	46.1	46.8	46.8	3.4																				
	63.0	49.0	33.6	39.1	44.6	48.3	3.4																				
	67.0	52.4	25.9	31.4	36.9	40.5	3.5																				
	71.0	56.8	18.3	23.9	29.3	33.0	3.5																				
95		59.0	44.3	40.6	44.3	44.3	3.9	<table><tr><th colspan="4">A.H.R.I. RATING FOR COOLING</th></tr><tr><th>CFM</th><th>CAPACITY (A) TEST</th><th>SEER</th><th>EER</th></tr><tr><td>1410</td><td>48500</td><td>14.2</td><td>12</td></tr></table>				A.H.R.I. RATING FOR COOLING				CFM	CAPACITY (A) TEST	SEER	EER	1410	48500	14.2	12				
	A.H.R.I. RATING FOR COOLING																										
	CFM	CAPACITY (A) TEST	SEER	EER																							
	1410	48500	14.2	12																							
	63.0	46.5	32.6	38.0	43.6	46.5	3.9																				
	67.0	49.7	24.8	30.4	35.8	39.5	4.0																				
	71.0	53.9	17.3	22.8	28.3	32.0	4.0																				
105		59.0	41.9	39.5	41.9	41.9	4.4	A.H.R.I. Standard Capacity Rating Conditions A.H.R.I. Standard 210/240 Rating Conditions - (A) Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil, (B) High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil, (C) Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil, (D) Rated indoor airflow for heating is the same as for cooling.																			
		63.0	44.0	31.5	37.0	42.5	44.0					4.4															
		67.0	47.0	23.8	29.3	34.8	38.5					4.5															
		71.0	51.0	16.3	21.8	27.3	31.0					4.5															
115		59.0	39.5	38.5	39.5	39.5	4.9																				
		63.0	41.5	30.5	36.0	41.5	5.0																				
		67.0	44.3	22.8	28.3	33.8	37.5					5.0															
		71.0	48.1	15.3	20.9	26.3	30.0					5.1															

Indoor Fan Performance 4CY4048

Horizontal Airflow

4CY4048-HOR		External Static Pressure (in. wg)											
Motor Speed			0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
LOW	Watts	200	220	250	285	320	354	386	417	449	487	538	
	CFM	1407	1394	1396	1403	1408	1408	1402	1391	1380	1377	1392	
MED*	Watts	268	316	354	386	417	448	483	520	559	597	630	
	CFM	1584	1608	1616	1615	1608	1600	1593	1586	1579	1568	1550	
HIGH	Watts	378	430	478	522	563	602	640	679	717	758	-	
	CFM	1798	1821	1830	1833	1831	1828	1825	1822	1817	1807	-	

Down Airflow

4CY4048-DOWN		External Static Pressure (in. wg)											
Motor Speed			0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
LOW	Watts	141	232	270	294	329	378	431	456	478	505	545	
	CFM	1344	1405	1414	1411	1416	1433	1425	1435	1430	1410	1400	
MED*	Watts	253	332	379	412	443	480	524	570	607	619	583	
	CFM	1582	1614	1624	1624	1621	1618	1618	1620	1618	1606	1574	
HIGH	Watts	364	461	518	558	597	643	693	739	764	785	-	
	CFM	1816	1829	1836	1839	1840	1840	1844	1835	1830	1825	-	

*Factory Default Setting

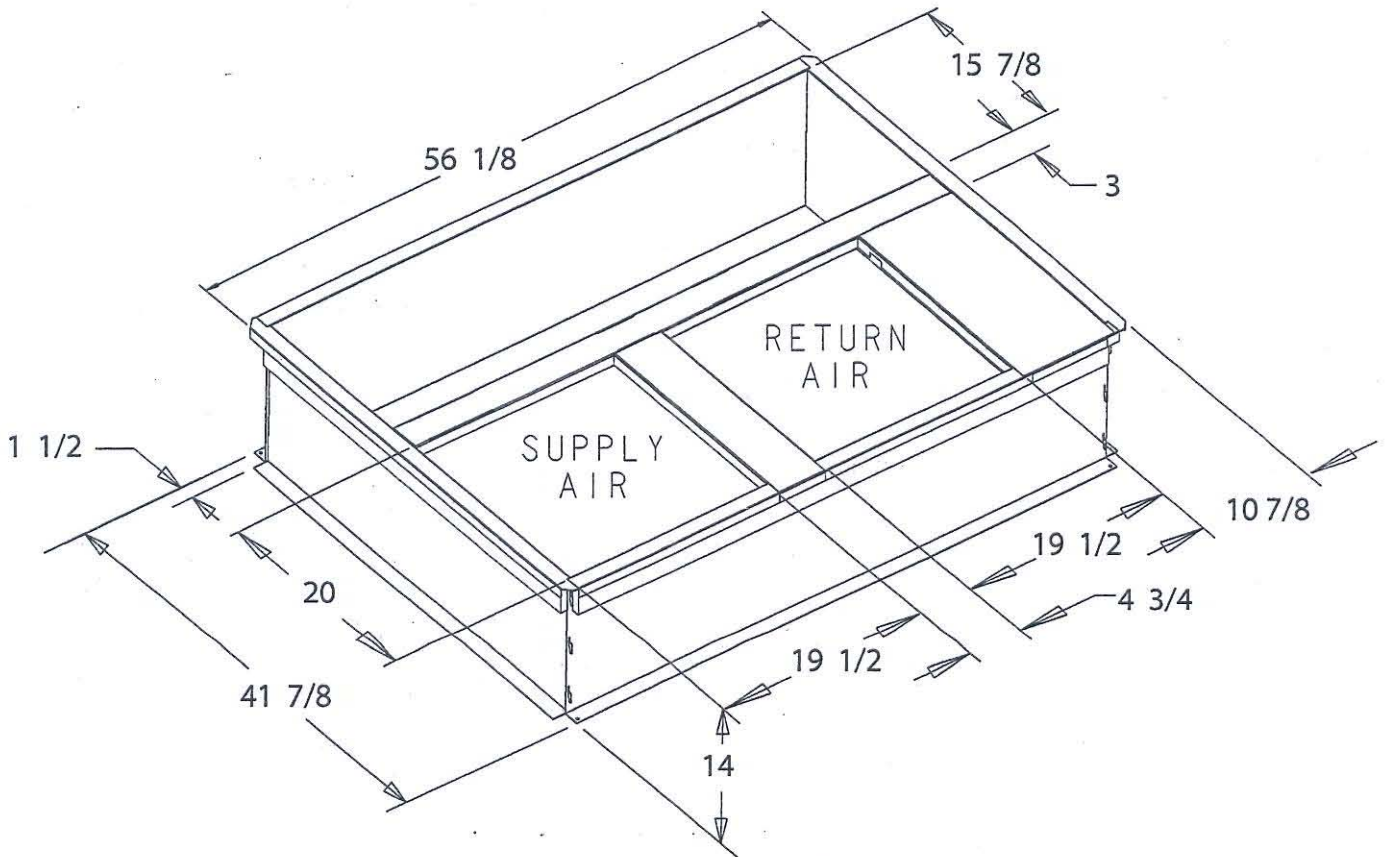
Heating Airflow, horizontal or downflow from .2 to .6" wg.

4CY4048B1096				
Switch Settings		Selection	Nominal Airflow	
			Low Stage	High Stage
7-OFF	8-OFF	A	1075	1375
7-ON	8-OFF	B	1100	1450
7-OFF	8-ON	C	1150	1500
7-ON	8-ON	D	1200	1575

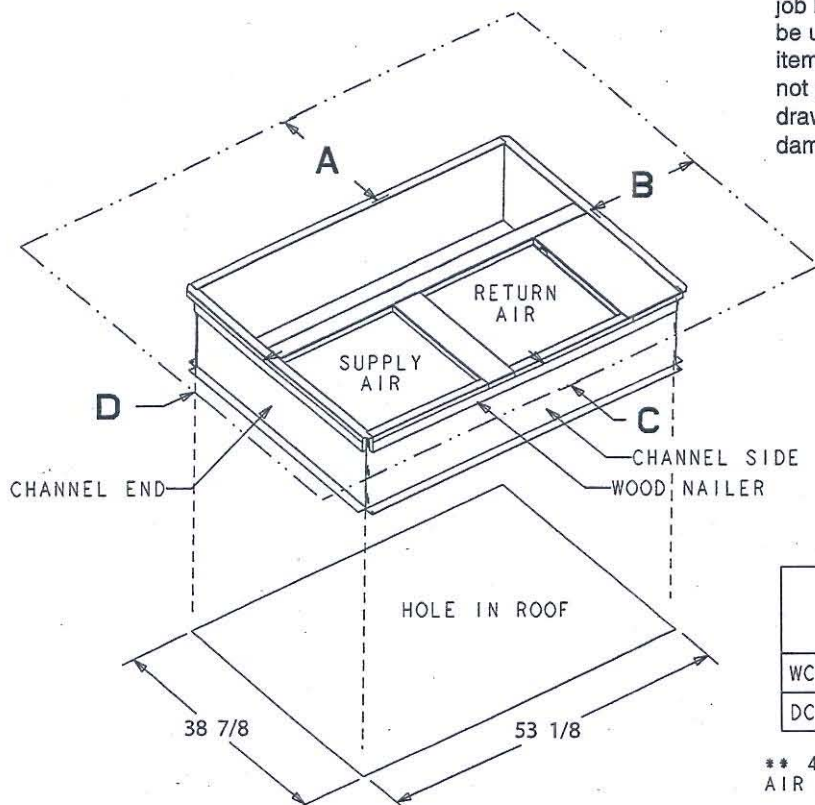
4CY4048B1120				
Switch Settings		Selection	Nominal Airflow	
			Low Stage	High Stage
7-OFF	8-OFF	A	1050	1500
7-ON	8-OFF	B	1100	1575
7-OFF	8-ON	C	1150	1625
7-ON	8-ON	D	1200	1700

Optional Equipment

BAYCURB051A Full Perimeter Roof Mounting Curb for *****042-060



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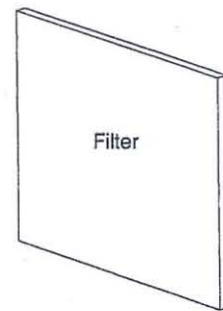
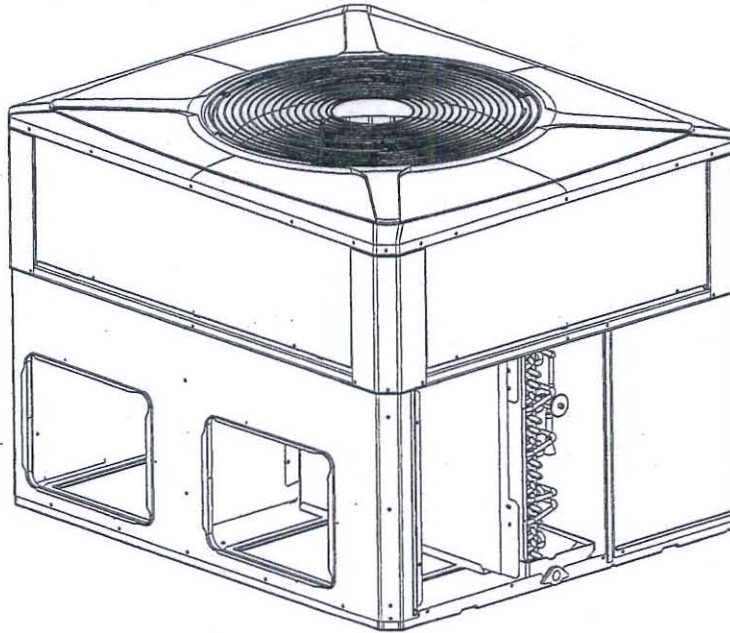


	SERVICE CLEARANCE DIMENSIONS			
	A	B	C	D
WC*/TC*	42.00	36.00	12.00**	24.00
DC*/YC*	42.00	36.00	12.00**	36.00

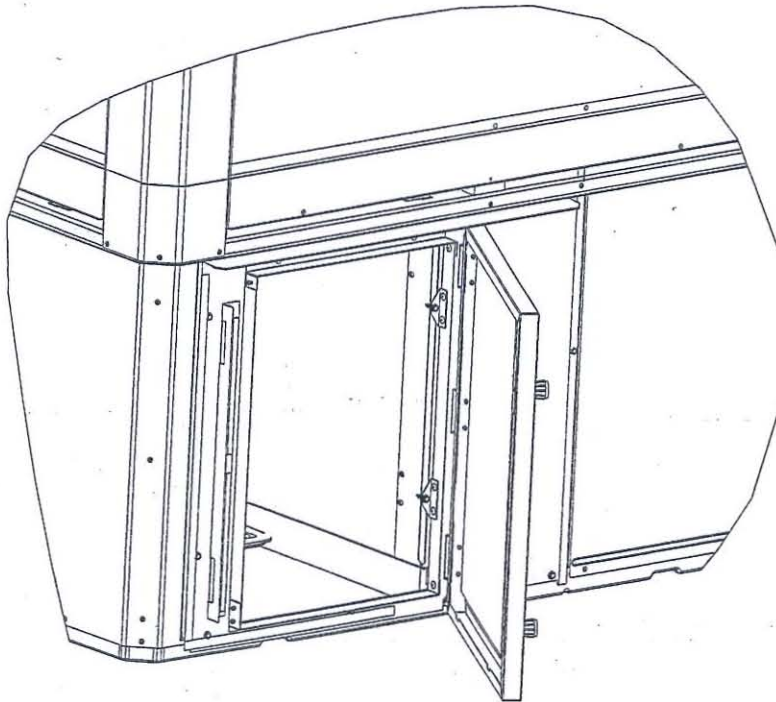
** 42.00 WITH ECONOMIZER WITH 25% FRESH AIR ACCESSORY

Optional Equipment

**BAYFLTR101, 201B, 1" - 2" Filter Rack
(Mounts in Filter/Coil Section)**



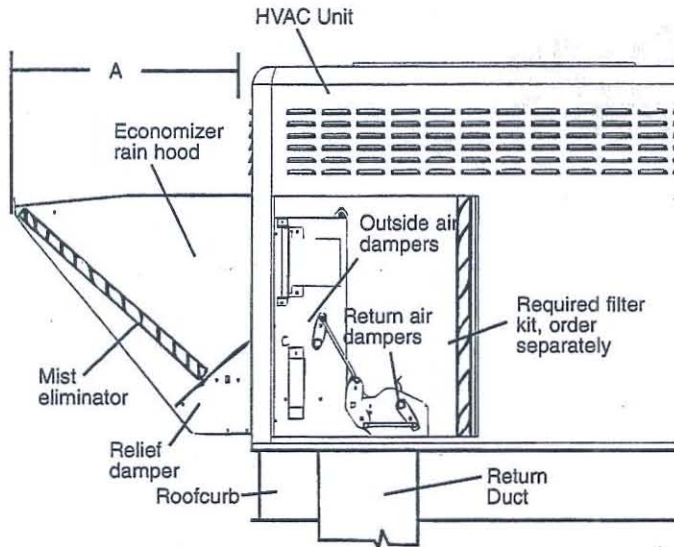
**BAYACCDOR1A & BAYACCDOR2A Hinged Filter Access Door
Replaces Filter/Coil Access Panel**



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Optional Equipment

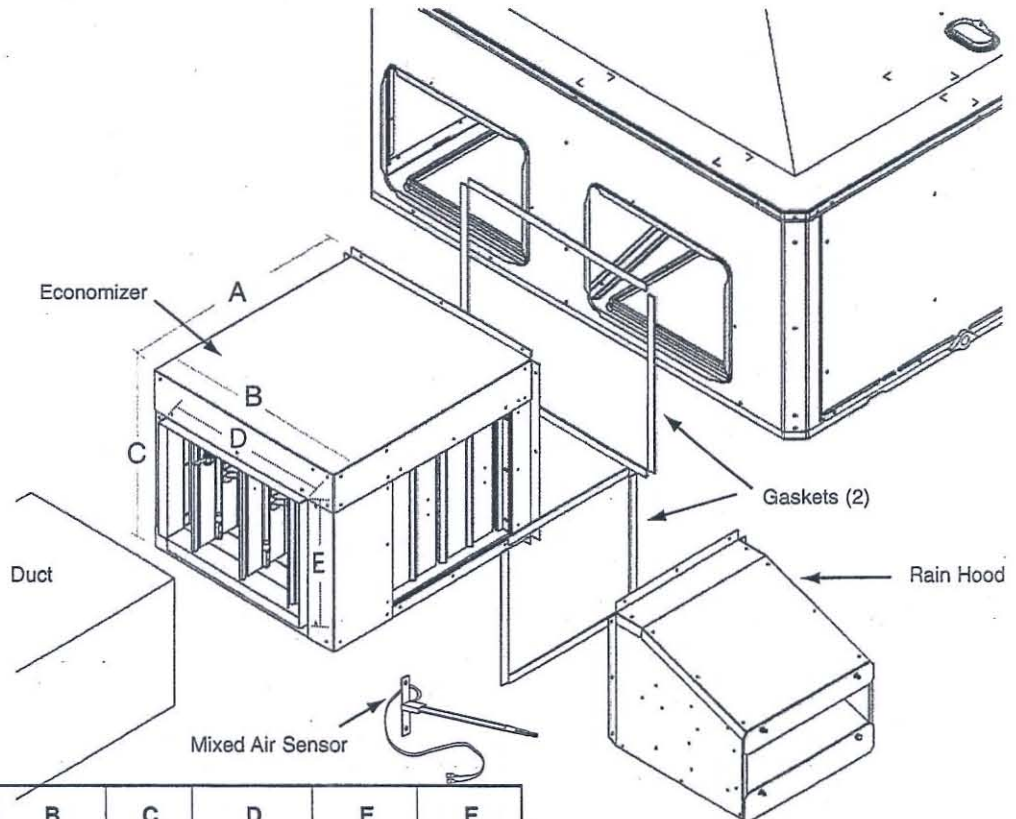
BAYECON101,102A Down Discharge Economizer and Rain Hood (Mounts Over Horizontal Return Air Opening)



Economizer	Unit Application Models	A
BAYECON101A	2/4TC*, WC*, YC*, DC* *018-036	20.125"
BAYECON102A	2/4TC*, WC*, YC*, DC* *042-060	24.375"

BAYECON200,201A Horizontal Economizer and Rain Hood

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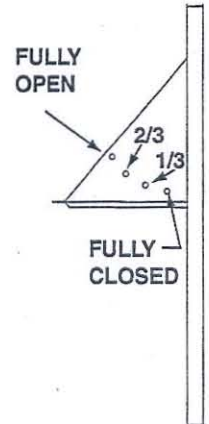
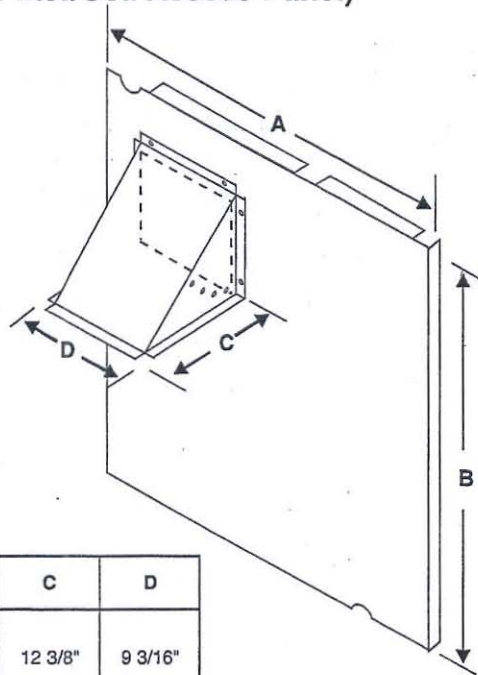


Economizer	A	B	C	D	E	F
BAYECON200AA	22"	20"	16 7/8"	15 11/16	11 11/16	15
BAYECON201AA	26"	22 21/32"	19"	17 11/16	14 11/16	21-3/8

Optional Equipment

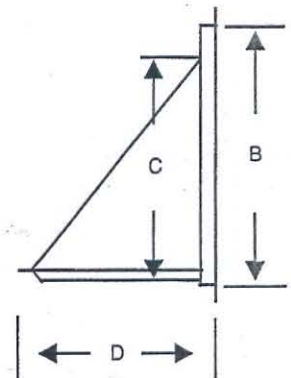
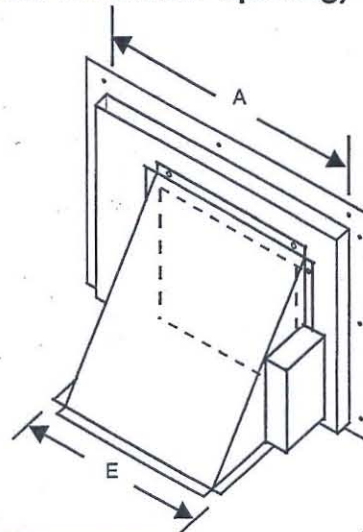
BAYOSAH001,002A, 25% Outside Air Damper (Replaces Filter/Coil Access Panel)

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Manual Fresh Air Model	Unit Application Models	A	B	C	D
BAYOSAH001	2/4YC,WC3018-036 4TC*3018-036 4W/T/Y/DCY4024-036 4W/Y/DCZ6036	22 7/16"	20 11/16"	12 3/8"	9 3/16"
BAYOSAH002	2/4YC,WC3042-060 4TC*3042-060 4W/T/Y/DCY4042-060 4W/Y/DCZ6048-060	25 3/16"	20 11/16"	12 3/8"	9 3/16"

BAYDMPR101,102A, 25% Motorized Outside Air Damper (Mounts Over Horizontal Return Air Opening)



	Unit Application Models	A	B	C	D	E
BAYDMPR101A	2/4YC,WC3018-036 4TC3018-036 4W/T/Y/DCY4024-036 4W/Y/DCZ6036	15 13/16"	11 13/16"	10 1/4"	11 1/2"	12 1/4"
BAYDMPR102A	2/4YC,WC3042-060 4TC3042-060 4W/T/Y/DCY4042-060 4W/Y/DCZ6048-060	18 3/16"	15 1/8"	10 1/4"	11 1/2"	12 1/4"

Mechanical Specifications

General

All units shall be factory assembled, piped, internally wired and fully charged with refrigerant. All units shall be designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities shall be rated in accordance with A.H.R.I. standards. The unit design is certified to ANSI 221.47/CSA 2.3 specifically for outdoor applications using natural gas or propane. All units shall be designed for outdoor rooftop or ground level installation. Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint.

Shipped for horizontal application, convertible to downflow.

Casings

All panels shall be heavy gauge steel, gasketed and insulated. Foil-faced insulation shall be in the heat exchanger section. Foil-faced insulation shall be in the evaporator section. Base pan shall be heavy gauge steel. **WEATHERGUARD™** exterior corrosion resistant screws shall be used for added resistance to rust and corrosion.

Controls

Refrigeration cycle controls shall include condenser fan, evaporator fan and compressor contactors. Compressors shall be equipped with a combination internal winding thermostat/current overload. Internal high pressure relief shall also be provided.

Refrigeration System

Compressors —

The **Climatuff®** compressor features internal over temperature and pressure protector, total dipped hermetic motor. Other features include: roto lock suction and discharge refrigeration connections, centrifugal oil pump, and low vibration and noise.

Evaporator Coil — Internally enhanced 3/8-inch OD seamless copper tubing mechanically bonded to aluminum fins, factory pressure and leak tested at 250 to 300 psig. All units have TXV to control refrigeration flow.

Condenser Coil —

The **Spine Fin™** condenser coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 3/8 inch OD seamless aluminum tubing glued to a continuous aluminum fin. Coils are lab tested to withstand 2,000 pounds of pressure per square inch. The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

Indoor Air Fan — Direct-drive, forward-curved, centrifugal wheel in a Composite **Vortica®** Blower housing. Motor shall have thermal overload protection. Permanently lubricated motor bearings. Motor/blower assembly isolated from unit with rubber mounts.

Condenser Fan — Direct-drive, draw through propeller type. Weather-proofed permanent split capacitor fan motor shall have built-in thermal overload and permanently lubricated motor bearings.

Low Ambient — Standard refrigerant system operation down to 55°F. Low ambient accessory required for operation to 0°F ambient condition.

Gas-Fired Heating System — Models shall provide completely assembled, wired and piped gas fired heating systems within unit. Design certified by UL, specifically for outdoor application. Threaded gas connection on the unit.

Electronic Ignition System — Main burner is lit each time thermostat calls for gas heat. Flame sensor proves flame and keeps the main burners on. Should a loss of flame occur, the main valve closes and the spark recurs within 0.8 second. When thermostat is satisfied, main burner is extinguished.

Forced Combustion Blower — Insures flame stability under varying wind conditions. Gives higher combustion efficiency and location flexibility.

Heat Exchanger — stainless steel tubes. Free floating design.

Burners — stainless steel. Multi-port inshot.

Accessories

(U.S. Domestic Models)

Roof Curb — The roof curb shall be designed to mate with the unit and provide support and complete weather-tight installation when properly installed. Curb shall ship knocked down for field assembly, and include wood nailer strips.

Modulating Economizer — This accessory shall be field installed and be composed of the following items: 0-100% fresh air damper, damper drive motor fixed dry bulb enthalpy control, and low voltage polarized plug for electrical connections. Solid state enthalpy or differential enthalpy control is optional. Economizer operations shall be controlled by the preset position of the enthalpy control. A barometric relief damper shall be standard with the economizer and provide a pressure operated damper that shall be gravity closing and prohibit entrance of outside air on equipment "off" cycle.

Manual Fresh Air Hood

Manual outside air provides a fixed outside air quantity from 0 to 25 percent. Includes hood and birdscreen.

Low Ambient Control

Control allows cycling of compressor under low ambient cooling conditions. Required for cooling operation to 0°F.

Propane Gas

Conversion Kit — For conversion from natural gas to LP gas.



Trane

6200 Troup Highway
Tyler, TX 75707-9010

The manufacturer has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.

APPLICANT INFORMATION (REQUIRED)

☐ Pre-approval Date _____

Attach:

- ☒ Incentives worksheet for measures installed
- ☒ Specification sheets for new equipment
- ☒ Scope of work with type, quantity and wattage of old and new equipment

Estimated Project Completion Date _____

Estimated Project Cost \$ 14,000.00

☐ Final Application Date _____

Please update project cost and completion date below.

Attach:

- ☐ Incentives worksheet for measures installed
- ☐ Signed final application agreement (next page)
- ☐ Updated scope of work (detailed project description)
- ☐ Dated, itemized invoices for the purchase and installation of all equipment
- ☐ Equipment specification sheets showing that equipment installed meets program specifications

Actual Project Completion Date _____

Actual Project Cost _____

NAME OF COMPANY <u>KISMET</u>	NAME AS IT APPEARS ON YOUR UTILITY BILL <u>HALIM TUFEKIOGLU</u>
----------------------------------	--

BUSINESS TYPE (Check One)					
☐ Office	☐ Retail/Service	☐ Hotel/Motel	☐ Grocery	☐ Light Industry	☐ College/University
☐ School/K-12	☒ Restaurant	☐ Medical	☐ Warehouse	☐ Heavy Industry	☐ Miscellaneous

NAME OF CONTACT PERSON <u>ROY H. TUFEKIOGLU</u>	TITLE <u>OWNER</u>
--	-----------------------

TELEPHONE <u>(708) 349-2205</u>	FAX <u>(708) 349-3909</u>
------------------------------------	------------------------------

E-MAIL ADDRESS
THCSS@aol.com

ADDRESS WHERE MEASURES INSTALLED
9931 W 151ST ST

CITY WHERE MEASURES INSTALLED <u>ORLAND PARK</u>	STATE <u>IL</u>	ZIP+4 <u>60462</u>
---	--------------------	-----------------------

YOUR MAILING ADDRESS
SAME

YOUR CITY	STATE	ZIP+4
-----------	-------	-------

COMED ACCOUNT NUMBER (WHERE MEASURES INSTALLED) _____

TAXPAYER ID NUMBER (SSN/FEIN)	TAX STATUS ☐ Corporation (Inc., LLC, PC, etc.) ☐ Other (Individual, Partnership – may receive 1099) ☐ Tax Exempt
-------------------------------	---

CONTRACTING COMPANY <u>ANCHOR REFRIGERATION</u>	CONTRACTOR CONTACT NAME <u>BOB GRAMER</u>
--	--

CONTRACTOR PHONE <u>(708) 532-6900</u>	CONTRACTOR E-MAIL
---	-------------------

CONTRACTOR MAILING ADDRESS
15238 LARKSPUR LN

CONTRACTOR CITY <u>ORLAND PARK</u>	STATE <u>IL</u>	ZIP+4 <u>60462</u>
---------------------------------------	--------------------	-----------------------

As an eligible customer, I verify the information is correct and request consideration for participation under this program.

CUSTOMER SIGNATURE (COMED CUSTOMER)	PRINT NAME
-------------------------------------	------------

TOTAL INCENTIVE REQUESTED* <u>\$ 105.00</u>	DATE
--	------

*Incentive cannot exceed 100 percent of the incremental measure cost and 50 percent of the total project cost and must meet all program terms and conditions.

HVAC INCENTIVES WORKSHEET

Air Conditioning Units

Equipment Type	Size Category	Qualifying Efficiency	Incentive
Unitary and Split Air Conditioning Systems and Air Source Heat Pumps	< 65,000 Btuh (5.4 tons)	14 SEER	\$15.00 per ton
		15 SEER	\$30.00 per ton
	≥ 65,000 Btuh and < 240,000 Btuh (5.5–20 tons)	12 EER*	\$30.00 per ton
	≥ 240,000 Btuh and < 760,000 Btuh (21–63 tons)	10.8 EER*	\$30.00 per ton
	≥ 760,000 Btuh (> 63 tons)	10.2 EER*	\$30.00 per ton
Water-Cooled Chillers	ALL	Level 1 (see specifications)	\$20.00 per ton
		Level 2 (see specifications)	\$40.00 per ton
Air-Cooled Chillers	ALL	Level 1 (see specifications)	\$30.00 per ton
		Level 2 (see specifications)	\$60.00 per ton
Room Air Conditioners	ALL	See specifications	\$30.00 per ton
PTAC/PTHP	ALL	13.08–(0.2556 x Btuh/1000) EER	\$30.00 per ton

Equipment Type	Make and Model	Unit Efficiency**	Unit Size in Tons (A)	Incentive per Ton (B)	Number of Units Installed (C)	Incentive (A x B x C)
GOODMAN GPG15	3609041AA		3	15.00	1	45.00
GOODMAN GPG15	4811541AA		4	15.00	1	60.00
TOTAL						

Incentive cannot exceed 100 percent of the incremental measure cost and 50 percent of total project cost.

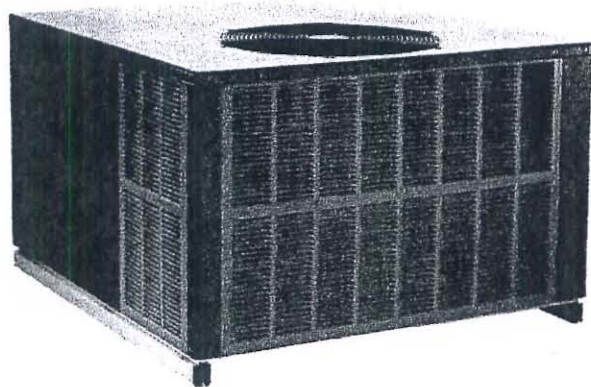
* Units with electric resistance heating must have EER values 0.2 higher than the efficiencies listed.

** Unit efficiency for chillers should be provided in kW per ton – IPLV (IPLV = Integrated Part Load Value). Unit efficiency in AC units less than 65,000 Btuh should be provided in SEER. Unit efficiency for all other equipment should be provided in EER.

Goodman®

Air Conditioning & Heating

PRODUCT SPECIFICATIONS



UP TO 15 SEER

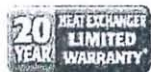
80% AFUE

2 TO 5 TONS

SINGLE PHASE

COOLING CAPACITY: 23,200 – 56,500 BTU/h

HEATING CAPACITY: 69,000 – 138,000 BTU/h



* Complete warranty details available from your local dealer or at www.goodmanmfg.com. To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.

GPG15 SERIES

SINGLE-PHASE, SELF-CONTAINED

PACKAGED GAS/ELECTRIC

The Goodman® brand GPG15 Packaged Gas/Electric unit uses the chlorine-free refrigerant R-410A and provides high-efficiency performance. This unit is housed in a heavy-gauge, zinc-coated steel cabinet with a weather-resistant, powder-paint finish and allows for a ground-level or rooftop mount, horizontal or downflow application.

Standard Features

- High-efficiency compressor
- Durable, corrosion-resistant T-140 aluminized steel tubular heat exchanger
- Energy-efficient motor (EEM)
- Fully charged R-410A system
- Copper tube/aluminum fin coil
- Redundant two-stage gas valve; natural gas with easy conversion to propane
- Power-assisted combustion
- Direct spark ignition system includes a microprocessor-based control for the entire ignition sequence
- All blower operation and all safety circuits complete with self-diagnostics
- Loss-of-charge protection
- All models comply with California Low NOx emission standards
- AHRI Certified; ETL Listed



Cabinet Features

- Fully insulated heavy-gauge, zinc-coated steel cabinet with UV-resistant powder-paint finish
- Horizontal or downflow application
- Convenient access panels
- One roof curb fits all units
- Bottom, 2" high base rails for easier handling
- All models fit a standard-size pick-up truck
- When properly anchored, meets the 2001 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)

Contents

Nomenclature	2
Product Specifications	3
Evaporator Blower Specifications	5
Expanded Cooling Data	8
Dimensions	32
Wiring Diagrams	33
Accessories	35



NOMENCLATURE

	G	P	G	13	24	045	4	1
	1	2	3	4,5	6,7	8, 9, 10	11	12
Brand								
G Goodman								
Product Category								
P Packaged Unit								
Unit Type								
G Gas/Electric								
Efficiency								
13 13 SEER								
15 15 SEER								
Nominal Capacity								
24 2 Tons	42	3½ Tons						
30 2½ tons	48	4 Tons						
36 3 Tons	60	5 Tons						
								Electrical
								1 208-230/1/60
								3 208-230/3/60
								Refrigerant
								2 R-22
								4 R-410A
								Heat Input
								45 46 MBTU/h
								70 69 MBTU/h
								90 92 MBTU/h
								115 115 MBTU/h
								140 138 MBTU/h

Important EnergyStar Notice: EnergyStar ratings are dependent upon conditions beyond equipment installation. Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet EnergyStar criteria. Ask your contractor for details or visit www.energystar.gov.

SPECIFICATIONS

	GPG15 2407041AA	GPG15 3009041AA	GPG15 3609041AA	GPG15 3609041AB	GPG15 3709041AA	GPG15 4211541AA
COOLING CAPACITY (BTU/H)						
High-Stage Total ^{2 3}	23,200	29,000	35,400	35,400	35,000	40,000
Sensible ^{2 3}	18,500	22,500	27,500	27,500	26,300	30,300
SEER / EER ^{2 3}	15 / 12	14.5 / 12	15 / 11	15 / 11	14.5 / 12	14.5 / 12
Low-Stage Total ²	---	---	38,500	24,400	---	---
Decibels	76	76	76	76	76	78
AHRI #s	1184771	3481461	1184772	1184772	3481462	3481463
HEATING CAPACITY (BTU/H)						
High-Fire Input/ Output	69,000/55,000	92,000/73,500	92,000/73,500	92,000/73,500	92,000/73,500	115,000/ 92,000
Low-Fire Input/ Output	51,500/ 40,500	69,000/ 55,000	69,000/ 55,000	69,000/ 55,000	69,000/ 55,000	86,000/ 69,000
Temperature Rise Range	35 - 65	45 - 75	45 - 75	45 - 75	45 - 75	45-75
No. of Burners	3	4	4	4	4	5
Orifice Size (Gas / LP)	43 / 55	43 / 55	43 / 55	43 / 55	43 / 55	43 / 55
EVAPORATOR MOTOR						
Type	EEM (X-13)	EEM (X-13)	EEM (X-13)	EEM (X-13)	EEM (X-13)	EEM (X-13)
Wheel (DxW)	10" x 8"	10" x 9"	10" x 9"	10" x 9"	10" x 9"	11 x 10
Indoor Nominal CFM	845	1,050	800 / 1,225	800 / 1,225	1,050	1,200
Motor Speed Tap (Cooling)	T4	T3, T4	T3, T4	T3, T4	T3, T4	T3, T4
RPM / Amps (Cooling)	724 / 1.21	960 / 3.06	640 / 0.98 960 / 3.06	940 / 3.06 960 / 3.06	960 / 3.06	890 / 3.8
Horsepower / RPM	½ / 1,050	½ / 1,050	½ / 1,050	½ / 1,050	½ / 1,050	¾ / 1,050
EVAPORATOR COIL						
Face Area (ft²)	4.33	4.33	4.33	4.33	4.33	5.67
Rows Deep / Fin per Inch	2 / 14	3 / 14	4 / 14	4 / 14	4 / 14	4 / 14
Expansion Device	TXV	0.065	TXV	TXV	TXV	0.072
Filter Size (ft²)	2.7	4.2	4.2	4.2	4.2	5.1
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"	¾"
Refrigerant Charge -- R-410A	81 oz	102 oz	99 oz	99 oz	112 oz	162 oz
CONDENSER FAN / COIL						
Horsepower - RPM	1/6 - 815	¼ / 830	¼ - 1,075	¼ / 830	¼ / 830	¼ - 1,075
Fan Diameter / # of Fan Blades	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3	22" / 3
Outdoor Nominal CFM	2,400	2,700	2,700	2,700	2,700	3,500
Face Area (ft²)	12.3	12.3	12.3	12.3	12.3	15.3
Row Deep / Fins per Inch	1 / 22	2 / 16	1 / 22	1 / 22	2 / 16	2 / 16
COMPRESSOR						
Quantity / Type	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll
Stage	Single	Single	Two	Two	Single	Single
Compressor RLA / LRA	13.5 / 58.3	14.1 / 73	16.7 / 82	16.7 / 82	16.7 / 79	17.9 / 112
ELECTRICAL DATA						
Voltage/ Phase/ Frequency	208-230/ 1/ 60	208-230/1/60	208-230/ 1/ 60	208-230/1/60	208-230/1/60	208-230/1/60
Indoor Blower FLA	4.1	1.86	4.1	4.1	1.86	2.87
Outdoor Fan FLA / LRA	1.1 / 1.7	1.5 / 3	1.4 / 2.9	1.5 / 3	1.5 / 3	1.4 / 2.9
Total Unit Amps	18.7	17.5	22.2	22.3	20.1	22.2
Min. Circuit Ampacity	22.1	21	26.5	26.5	24.2	26.6
Max. Overcurrent Protection	30	35	40	40	40	40
Entrance Size Power Supply	1½"	1½"	1½"	1½"	1½"	1½"
Entrance Size Control Voltage	¾"	¾"	¾"	¾"	¾"	¾"
OPERATING WEIGHT (LBS)	417	453	458	458	458	538
SHIP WEIGHT (LBS)	439	475	480	480	480	560

¹ Single Stage

² Two Stage (or Single Stage 2-ton only)

³ Outdoor Ambient Temperature @ 95°F

PRODUCT SPECIFICATIONS

SPECIFICATIONS (CONT.)

	GPG15 4811541AA	GPG15 4811541AB	GPG15 4911541AA	GPG15 6014041AA	GPG15 6014041AB
COOLING CAPACITY (BTU/H)					
High-Stage Total ^{2 3}	47,500	47,500	47,000	56,500	56,500
Sensible ^{2 3}	37,000	37,000	34,000	44,000	44,000
SEER / EER ^{2 3}	15 / 11	15 / 11	15 / 12	14 / 10.1	14 / 10.1
Low-Stage Total ²	52,000	35,000	33,000	62,000	41,000
Decibels	78	78	78	78	78
AHRI #s	1184773	1184773	3481464	1184774	1184774
HEATING CAPACITY (BTU/H)					
High-Fire Input/ Output	115,000/ 92,000	115,000/ 92,000	115,000/ 92,000	138,000/ 110,200	138,000/ 110,200
Low-Fire Input/ Output	86,000/ 69,000	86,000/ 69,000	86,000/ 69,000	103,500/ 83,000	103,500/ 83,000
Temperature Rise Range	45 - 75	45-75	45-75	45 - 75	45-75
No. of Burners	5	5	5	6	6
Orifice Size (Gas / LP)	43 / 55	43 / 55	43 / 55	43 / 55	43 / 55
EVAPORATOR MOTOR					
Type	EEM (X-13)	EEM (X-13)	EEM (X-13)	EEM (X-13)	EEM (X-13)
Wheel (DxW)	11" x 10"	11" x 10"	11" x 10"	11" x 10"	11" x 10"
Indoor Nominal CFM	1,100 / 1,510	1,100 / 1,510	1,300	1,300 / 1,810	1,300 / 1,810
Motor Speed Tap (Cooling)	T3, T4	T3, T4	T3, T4	T3, T4	T3, T4
RPM / Amps (Cooling)	647 / 1.66 890 / 3.80	647 / 1.66 890 / 3.80	890 / 3.8	778 / 1.98 1,030 / 5.7	778 / 1.98 1,030 / 5.7
Horsepower / RPM	¾ / 1,050	¾ / 1,050	¾ / 1,050	1 / 1,050	1 / 1,050
EVAPORATOR COIL					
Face Area (ft²)	5.67	5.67	5.67	5.67	5.67
Rows Deep / Fin per Inch	4 / 14	4 / 14	4 / 14	4 / 14	4 / 14
Expansion Device	TXV	TXV	TXV	TXV	TXV
Filter Size (ft²)	5.1	5.1	5.1	6.3	6.3
Drain Size (NPT)	¾"	¾"	¾"	¾"	¾"
Refrigerant Charge -- R-410A	169 oz	169 oz	167 oz	177 oz	177 oz
CONDENSER FAN / COIL					
Horsepower - RPM	¾ - 1,075	¾ / 1,075	¾ - 1,075	¾ - 1,075	¾ - 1,075
Fan Diameter / # of Fan Blades	22" / 4	22" / 3	22" / 3	22" / 4	22" / 3
Outdoor Nominal CFM	3,500	3,500	3,500	3,500	3,500
Face Area (ft²)	15.3	15.3	15.3	15.3	15.3
Row Deep / Fins per Inch	2 / 16	2 / 16	2 / 16	2 / 16	2 / 16
COMPRESSOR					
Quantity / Type	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll	1 / Scroll
Stage	Two	Two	Two	Two	Two
Compressor RLA / LRA	21.2 / 96	21.2 / 96	21.2 / 96	25.6 / 118	24.6 / 118
ELECTRICAL DATA					
Voltage/ Phase/ Frequency	208-230/ 1/ 60	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Indoor Blower FLA	5.8	5.8	2.87	7.6	7.6
Outdoor Fan FLA / LRA	2.4 / 5.2	1.4 / 5.2	1.4 / 2.9	2.4 / 5.2	1.4 / 5.2
Total Unit Amps	29.4	28.4	25.5	35.6	34.6
Min. Circuit Ampacity	34.8	34.8	30.8	42.1	42.1
Max. Overcurrent Protection	50	50	50	60	60
Entrance Size Power Supply	1½"	1½"	1½"	1½"	1½"
Entrance Size Control Voltage	¾"	¾"	¾"	¾"	¾"
OPERATING WEIGHT (LBS)	538	538	538	543	543
SHIP WEIGHT (LBS)	560	560	560	565	565

¹ Single Stage

² Two Stage (or Single Stage 2-ton only)

³ Outdoor Ambient Temperature @ 95°F

EVAPORATOR BLOWER SPECIFICATIONS

GPG15240701A* - RISE RANGE: 35° - 65°																	
UNIT STATIC	T1 - 1ST STAGE HEATING				T2 - 2ND STAGE HEATING				T3 - COOLING SPEED			T4 - COOLING SPEED			T5 - COOLING SPEED		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	742	84	0.75	52	907	134	1.18	57	857	116	1.04	907	134	1.18	1,040	185	1.33
0.2	677	89	0.82	57	857	140	1.24	61	816	126	1.16	857	140	1.24	988	198	1.40
0.3	631	97	0.90	62	814	149	1.32	64	760	131	1.18	814	149	1.32	949	208	1.42
0.4	575	101	0.92	X	761	154	1.33	X	721	140	1.25	761	154	1.33	903	213	1.49
0.5	526	111	1.01	X	727	165	1.41	X	670	145	1.31	727	165	1.41	871	222	1.55
0.6	-	-	-	-	678	169	1.47	X	629	155	1.39	678	169	1.47	824	228	1.58
0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GPG153009041A* - RISE RANGE: 45° - 75°																	
UNIT STATIC	T1 - 1ST STAGE HEATING				T2 - 2ND STAGE HEATING				T3 - COOLING SPEED			T4 - COOLING SPEED			T5 - COOLING SPEED		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1,065	168	1.42	49	1,255	257	2.10	55	1,148	170	1.55	1,148	170	1.55	1,333	304	2.41
0.2	1,003	174	1.48	52	1,217	269	2.19	57	1,092	176	1.66	1,092	176	1.66	1,293	314	2.48
0.3	961	185	1.55	54	1,165	274	2.21	59	1,044	184	1.72	1,044	184	1.72	1,237	321	2.54
0.4	913	195	1.62	57	1,113	285	2.30	62	994	194	1.77	994	194	1.77	1,193	333	2.71
0.5	855	202	1.69	60	1,073	296	2.36	64	929	210	1.89	929	210	1.89	1,158	341	2.77
0.6	814	212	1.76	63	1,018	302	2.41	68	811	222	1.99	811	222	1.99	1,101	345	2.78
0.7	749	218	1.82	69	991	313	2.48	70	763	224	2.03	763	224	2.03	-	-	-
0.8	713	227	1.87	72	-	-	-	-	715	236	2.07	715	236	2.07	-	-	-

GPG153609041A* - RISE RANGE: 45° - 75°																	
UNIT STATIC	T1 - 1ST STAGE HEATING				T2 - 2ND STAGE HEATING				T3 - 1ST STAGE COOLING			T4 - 2ND STAGE COOLING			T5 - COOLING SPEED		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1,065	168	1.42	49	1,255	257	2.10	55	924	120	1.08	1,333	304	2.41	1,418	360	2.92
0.2	1,003	174	1.48	52	1,217	269	2.19	57	863	128	1.14	1,293	314	2.48	1,375	371	3.00
0.3	961	185	1.55	54	1,165	274	2.21	59	812	138	1.24	1,237	321	2.54	1,316	376	3.05
0.4	913	195	1.62	57	1,113	285	2.30	62	745	145	1.27	1,193	333	2.71	1,279	387	3.13
0.5	855	202	1.69	60	1,073	296	2.36	64	702	154	1.35	1,158	341	2.77	1,245	392	3.19
0.6	814	212	1.76	63	1,018	302	2.41	68	643	159	1.37	1,101	345	2.78	1,193	400	3.22
0.7	749	218	1.82	69	991	313	2.48	70	601	168	1.44	-	-	-	-	-	-
0.8	713	227	1.87	72	-	-	-	-	502	173	1.52	-	-	-	-	-	-

GPG153709041A* - RISE RANGE: 45° - 75°																	
UNIT STATIC	T1 - 1ST STAGE HEATING				T2 - 2ND STAGE HEATING				T3 - COOLING SPEED			T4 - COOLING SPEED			T5 - COOLING SPEED		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1,065	168	1.42	49	1,255	257	2.10	55	1,148	170	1.55	1,148	170	1.55	1,418	360	2.92
0.2	1,003	174	1.48	52	1,217	269	2.19	57	1,092	176	1.66	1,092	176	1.66	1,375	371	3.00
0.3	961	185	1.55	54	1,165	274	2.21	59	1,044	184	1.72	1,044	184	1.72	1,316	376	3.05
0.4	913	195	1.62	57	1,113	285	2.30	62	994	194	1.77	994	194	1.77	1,279	387	3.13
0.5	855	202	1.69	60	1,073	296	2.36	64	929	210	1.89	929	210	1.89	1,245	392	3.19
0.6	814	212	1.76	63	1,018	302	2.41	68	811	222	1.99	811	222	1.99	1,193	400	3.22
0.7	749	218	1.82	69	991	313	2.48	70	763	224	2.03	763	224	2.03	-	-	-
0.8	713	227	1.87	72	-	-	-	-	715	236	2.07	715	236	2.07	-	-	-

EVAPORATOR BLOWER SPECIFICATIONS (CONT.)

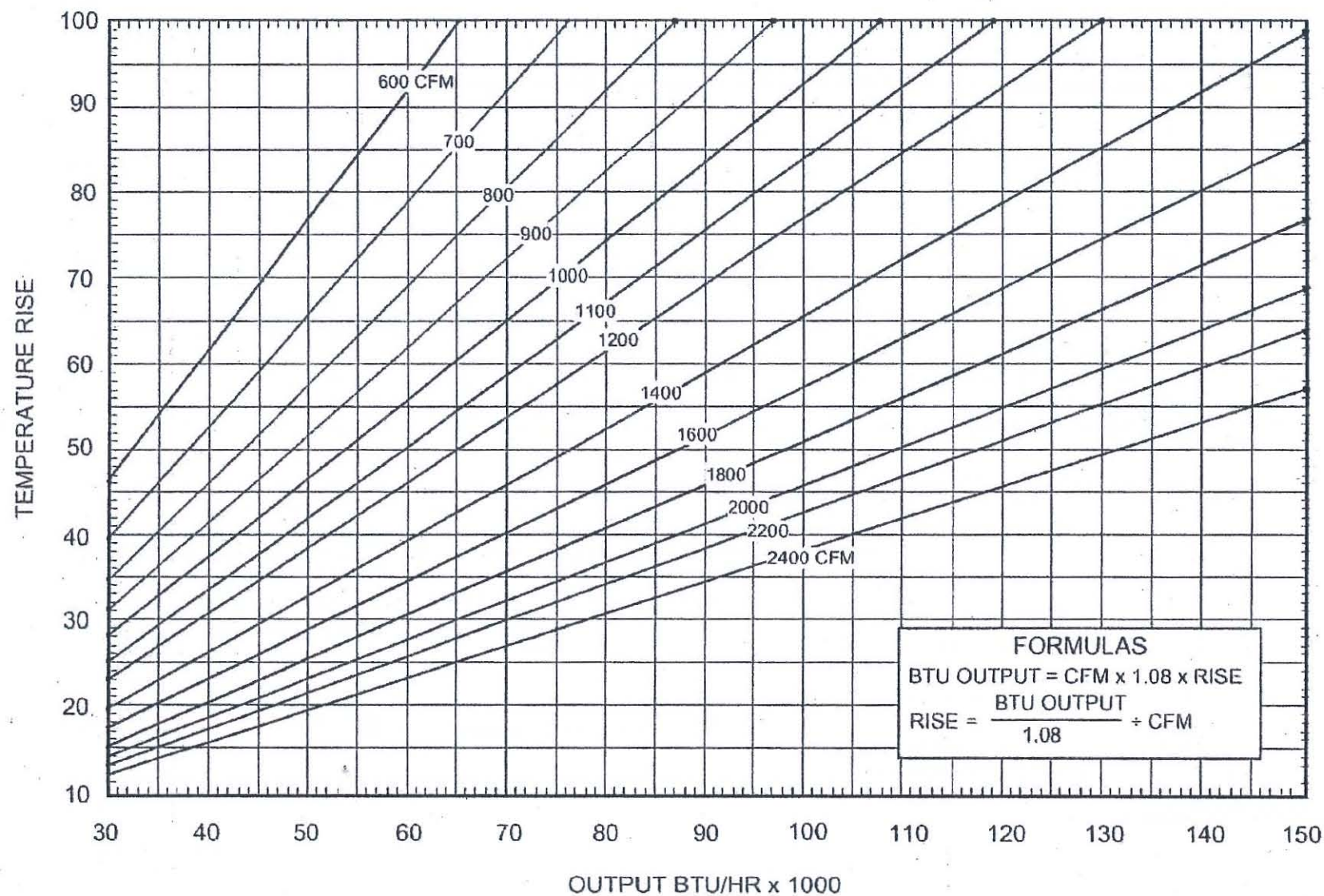
GPG154211541A* - RISE RANGE: 45° - 75°																	
UNIT STATIC	T1 - 1ST STAGE HEATING				T2 - 2ND STAGE HEATING				T3 - COOLING SPEED			T4 - COOLING SPPED			T5 - COOLING SPPED		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1,065	168	1.42	49	1,255	257	2.10	55	1,335	260	1.01	1,468	337	1.28	1,619	431	1.64
0.2	1,003	174	1.48	52	1,217	269	2.19	57	1,274	268	1.04	1,412	349	1.33	1,560	445	1.69
0.3	961	185	1.55	54	1,165	274	2.21	59	1,204	281	1.10	1,346	359	1.37	1,504	456	1.71
0.4	913	195	1.62	57	1,113	285	2.30	62	1,136	287	1.11	1,275	363	1.40	1,441	463	1.76
0.5	855	202	1.69	60	1,073	296	2.36	64	1,069	300	1.15	1,221	370	1.44	1,380	475	1.80
0.6	814	212	1.76	63	1,018	302	2.41	68	1,009	312	1.19	1,170	386	1.47	1,325	489	1.84
0.7	749	218	1.82	69	991	313	2.48	70	946	319	1.22	1,105	397	1.52	1,268	495	1.88
0.8	713	227	1.87	72	-	-	-	-	886	331	1.27	1,042	406	1.54	1,198	502	1.90

GPG154811541A* - RISE RANGE: 45° - 75°																	
UNIT STATIC	T1 - 1ST STAGE HEATING				T2 - 2ND STAGE HEATING				T3 - 1ST STAGE COOLING			T4 - 2ND STAGE COOLING			T5 - COOLING SPPED		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1140	178	1.52	56	1417	305	2.46	61	1,140	178	1.52	1,616	436	3.34	1,696	503	4.04
0.2	1090	188	1.57	59	1374	318	2.56	63	1,090	188	1.57	1,573	449	3.46	1,650	517	4.15
0.3	1038	199	1.67	62	1322	327	2.68	65	1,038	199	1.67	1,527	462	3.59	1,608	530	4.25
0.4	980	212	1.76	65	1273	338	2.72	68	980	212	1.76	1,485	474	3.69	1,566	543	4.39
0.5	914	220	1.79	70	1224	352	2.82	70	914	220	1.79	1,443	489	3.80	1,523	556	4.43
0.6	852	231	1.9	75	1176	365	2.88	73	852	231	1.90	1,399	502	3.86	1,480	569	4.55
0.7	806	242	1.97	X	1121	379	2.93	X	806	242	1.97	1,356	513	3.99	1,441	580	4.65
0.8	741	248	2.01	X	1068	391	2.98	X	741	248	2.01	1,307	525	4.05	-	-	-

GPG154911541A* - RISE RANGE: 45° - 75°																	
UNIT STATIC	T1 - 1ST STAGE HEATING				T2 - 2ND STAGE HEATING				T3 - 1ST STAGE COOLING			T4 - 2ND STAGE COOLING			T5 - COOLING SPPED		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1140	178	1.52	56	1417	305	2.46	61	1,468	337	1.28	1,468	337	1.28	1,696	503	4.04
0.2	1090	188	1.57	59	1374	318	2.56	63	1,412	349	1.33	1,412	349	1.33	1,650	517	4.15
0.3	1038	199	1.67	62	1322	327	2.68	65	1,346	359	1.37	1,346	359	1.37	1,608	530	4.25
0.4	980	212	1.76	65	1273	338	2.72	68	1,275	363	1.40	1,275	363	1.40	1,566	543	4.39
0.5	914	220	1.79	70	1224	352	2.82	70	1,221	370	1.44	1,221	370	1.44	1,523	556	4.43
0.6	852	231	1.9	75	1176	365	2.88	73	1,170	386	1.47	1,170	386	1.47	1,480	569	4.55
0.7	806	242	1.97	X	1121	379	2.93	X	1,105	397	1.52	1,105	397	1.52	1,441	580	4.65
0.8	741	248	2.01	X	1068	391	2.98	X	1,042	406	1.54	1,042	406	1.54	-	-	-

GPG156014041A* - RISE RANGE: 45° - 75° HIGH; 30° - 60° LOW																	
UNIT STATIC	T1 - 1ST STAGE HEATING				T2 - 2ND STAGE HEATING				T3 - 1ST STAGE COOLING			T4 - 2ND STAGE COOLING			T5 - COOLING SPPED		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1773	488	3.64	43	1773	488	3.64	58	1,379	246	1.95	1,919	700	4.81	2,115	783	5.54
0.2	1713	501	3.73	45	1713	501	3.73	61	1,322	258	2.03	1,862	714	4.94	2,078	787	5.57
0.3	1693	509	3.78	45	1693	509	3.78	61	1,268	266	2.10	1,810	720	5.01	2,009	802	5.67
0.4	1653	518	3.84	46	1653	518	3.84	63	1,187	280	2.19	1,755	734	5.07	1,953	813	5.87
0.5	1597	529	3.91	48	1597	529	3.91	65	1,133	287	2.23	1,705	743	5.09	1,933	805	5.77
0.6	1534	541	3.99	50	1534	541	3.99	68	1,068	294	2.29	1,647	748	5.16	-	-	-
0.7	1485	552	4.09	52	1485	552	4.09	70	1,026	307	2.38	-	-	-	-	-	-
0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BTU OUTPUT vs TEMPERATURE RISE CHART



EVAPORATOR BLOWER SPECIFICATIONS (CONT.)

PRODUCT SPECIFICATIONS

EXPANDED COOLING DATA — GP61536***41** — SINGLE STAGE

		OUTDOOR AMBIENT TEMPERATURE																								
		65°F				75°F				85°F				95°F				105°F				115°F				
		ENTERING INDOOR WET BULB TEMPERATURE																								
IDB	AIRFLOW	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
70	900	MBh	23.9	24.8	27.2	-	23.4	24.2	26.5	-	22.8	23.6	25.9	-	22.2	23.1	25.3	-	21.1	21.9	24.0	-	19.6	20.3	22.2	-
		S/T	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.48	-	0.87	0.73	0.50	-	0.88	0.73	0.51	-
		ΔT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	13	-	19	16	12	-	18	15	12	-
		kW	1.59	1.63	1.68	-	1.71	1.75	1.80	-	1.82	1.86	1.92	-	1.91	1.95	2.02	-	1.99	2.03	2.10	-	2.06	2.10	2.17	-
		Amps	7.2	7.3	7.5	-	7.7	7.8	8.1	-	8.2	8.4	8.7	-	8.7	8.9	9.2	-	9.2	9.4	9.7	-	9.7	9.9	10.2	-
		Hi PR	225	242	256	-	253	272	287	-	287	309	326	-	327	352	372	-	368	396	418	-	407	438	462	-
		Lo PR	111	118	128	-	117	124	136	-	121	129	141	-	128	136	148	-	134	142	155	-	138	147	161	-
	800	MBh	23.2	24.1	26.4	-	22.7	23.5	25.7	-	22.1	22.9	25.1	-	21.6	22.4	24.5	-	20.5	21.3	23.3	-	19.0	19.7	21.6	-
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-
		ΔT	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-
		kW	1.58	1.62	1.66	-	1.70	1.74	1.79	-	1.80	1.84	1.90	-	1.90	1.94	2.00	-	1.97	2.02	2.08	-	2.04	2.09	2.15	-
		Amps	7.1	7.3	7.5	-	7.6	7.8	8.0	-	8.2	8.3	8.6	-	8.7	8.8	9.1	-	9.1	9.3	9.6	-	9.6	9.8	10.1	-
		Hi PR	223	240	253	-	250	269	284	-	284	306	323	-	324	349	368	-	364	392	414	-	403	433	458	-
		Lo PR	109	116	127	-	116	123	134	-	120	128	140	-	126	134	147	-	132	141	154	-	137	146	159	-
	700	MBh	21.4	22.2	24.3	-	20.9	21.7	23.8	-	20.4	21.2	23.2	-	19.9	20.7	22.6	-	18.9	19.6	21.5	-	17.5	18.2	19.9	-
		S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-
		ΔT	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	16	12	-
		kW	1.55	1.58	1.63	-	1.66	1.70	1.75	-	1.76	1.80	1.86	-	1.85	1.89	1.95	-	1.93	1.97	2.03	-	1.99	2.04	2.10	-
		Amps	7.0	7.1	7.3	-	7.4	7.6	7.8	-	8.0	8.1	8.4	-	8.4	8.6	8.9	-	8.9	9.1	9.4	-	9.4	9.6	9.9	-
		Hi PR	216	233	246	-	243	261	276	-	276	297	314	-	314	338	357	-	353	380	402	-	391	420	444	-
		Lo PR	106	113	123	-	112	119	130	-	117	124	135	-	122	130	142	-	128	137	149	-	133	141	154	-

75	900	MBh	24.3	25.0	27.1	29.1	23.7	24.5	26.5	28.4	23.2	23.9	25.8	27.7	22.6	23.3	25.2	27.1	21.5	22.1	23.9	25.7	19.9	20.5	22.2	23.8				
		S/T	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.99	0.88	0.67	0.43	1.00	0.89	0.67	0.43				
		ΔT	22	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	11				
		kW	1.61	1.64	1.69	1.74	1.73	1.76	1.82	1.88	1.83	1.87	1.93	2.00	1.93	1.97	2.03	2.10	2.01	2.05	2.12	2.19	2.08	2.12	2.19	2.26				
		Amps	7.2	7.4	7.6	7.8	7.7	7.9	8.1	8.4	8.3	8.5	8.7	9.0	8.8	9.0	9.2	9.5	9.3	9.5	9.8	10.1	9.8	10.0	10.3	10.6				
		Hi PR	227	245	258	270	255	275	290	302	290	312	330	344	331	356	376	392	372	400	423	441	411	442	467	487				
		Lo PR	112	119	130	138	118	126	137	146	123	130	142	152	129	137	150	159	135	144	157	167	140	149	162	173				
	800	MBh	23.6	24.3	26.3	28.2	23.1	23.7	25.7	27.6	22.5	23.2	25.1	26.9	22.0	22.6	24.5	26.3	20.9	21.5	23.2	25.0	19.3	19.9	21.5	23.1				
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.61	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41				
		ΔT	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	19	16	11				
		kW	1.60	1.63	1.68	1.73	1.71	1.75	1.80	1.86	1.82	1.86	1.92	1.98	1.91	1.95	2.02	2.08	1.99	2.03	2.10	2.17	2.06	2.10	2.17	2.25				
		Amps	7.2	7.3	7.5	7.8	7.7	7.8	8.1	8.3	8.2	8.4	8.7	8.9	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.0	9.7	9.9	10.2	10.5				
		Hi PR	225	242	256	267	253	272	287	299	287	309	326	341	327	352	372	388	368	396	418	436	407	438	462	482				
		Lo PR	111	118	128	137	117	124	136	145	121	129	141	150	128	136	148	158	134	142	155	165	138	147	161	171				
	700	MBh	21.8	22.4	24.3	26.1	21.3	21.9	23.7	25.5	20.8	21.4	23.2	24.8	20.3	20.9	22.6	24.2	19.3	19.8	21.5	23.0	17.8	18.4	19.9	21.3				
		S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40				
		ΔT	23	21	17	12	23	21	17	12	23	21	17	12	23	21	18	12	23	21	17	12	21	20	16	11				
		kW	1.56	1.59	1.64	1.69	1.67	1.71	1.76	1.82	1.78	1.81	1.87	1.93	1.87	1.91	1.97	2.03	1.94	1.98	2.05	2.12	2.01	2.05	2.12	2.19				
		Amps	7.0	7.2	7.4	7.6	7.5	7.7	7.9	8.1	8.0	8.2	8.4	8.7	8.5	8.7	8.9	9.2	9.0	9.2	9.4	9.8	9.5	9.7	9.9	10.3				
		Hi PR	218	235	248	259	245	264	278	290	279	300	317	330	317	342	361	376	357	384	406	423	395	425	448	468				
		Lo PR	107	114	125	133	113	121	132	140	118	125	137	146	124	132	144	153	130	138	151	160	134	143	156	166				

IDB: Entering Indoor Dry Bulb Temperature

			OUTDOOR AMBIENT TEMPERATURE																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			ENTERING INDOOR WET BULB TEMPERATURE																							
IDB	AIRFLOW		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	900	MBh	24.7	25.3	27.0	28.9	24.2	24.7	26.4	28.2	23.6	24.1	25.8	27.5	23.0	23.5	25.1	26.9	21.9	22.3	23.9	25.5	20.3	20.7	22.1	23.6
		S/T	0.95	0.89	0.73	0.54	1.00	0.93	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.83	0.62
		ΔT	24	23	20	16	25	23	20	16	24	23	20	16	24	24	20	16	22	23	20	16	21	21	19	15
		kW	1.62	1.65	1.70	1.76	1.74	1.78	1.83	1.89	1.85	1.89	1.95	2.01	1.94	1.99	2.05	2.12	2.02	2.07	2.14	2.21	2.09	2.14	2.21	2.28
		Amps	7.3	7.4	7.7	7.9	7.8	8.0	8.2	8.4	8.4	8.5	8.8	9.1	8.9	9.1	9.3	9.6	9.4	9.6	9.8	10.2	9.9	10.1	10.4	10.7
		Hi PR	230	247	261	272	258	277	293	305	293	315	333	347	334	359	379	396	376	404	427	445	415	447	472	492
		Lo PR	113	120	131	140	119	127	138	147	124	132	144	153	130	138	151	161	136	145	158	169	141	150	164	174
	800	MBh	24.0	24.6	26.2	28.0	23.5	24.0	25.6	27.4	22.9	23.4	25.0	26.7	22.4	22.8	24.4	26.1	21.2	21.7	23.2	24.8	19.7	20.1	21.5	23.0
		S/T	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.96	0.90	0.74	0.55	1.00	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.59
		ΔT	25	24	21	17	25	24	21	17	25	24	21	17	26	25	21	17	24	24	21	17	23	23	20	16
		kW	1.61	1.64	1.69	1.74	1.73	1.76	1.82	1.88	1.83	1.87	1.93	2.00	1.93	1.97	2.03	2.10	2.01	2.05	2.12	2.19	2.08	2.12	2.19	2.26
		Amps	7.2	7.4	7.6	7.8	7.7	7.9	8.1	8.4	8.3	8.5	8.7	9.0	8.8	9.0	9.2	9.5	9.3	9.5	9.8	10.1	9.8	10.0	10.3	10.6
		Hi PR	227	245	258	270	255	275	290	302	290	312	330	344	331	356	376	392	372	400	423	441	411	442	467	487
		Lo PR	112	119	130	138	118	126	137	146	123	130	142	152	129	137	150	159	135	144	157	167	140	149	162	173
	700	MBh	22.2	22.7	24.2	25.9	21.7	22.1	23.6	25.3	21.1	21.6	23.1	24.7	20.6	21.1	22.5	24.1	19.6	20.0	21.4	22.9	18.2	18.6	19.8	21.2
		S/T	0.88	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.94	0.77	0.57
		ΔT	25	24	21	17	26	25	22	17	26	25	22	17	26	25	22	17	26	25	21	17	24	23	20	16
		kW	1.57	1.60	1.65	1.70	1.69	1.72	1.78	1.83	1.79	1.83	1.89	1.95	1.88	1.92	1.98	2.05	1.96	2.00	2.07	2.13	2.03	2.07	2.14	2.21
		Amps	7.1	7.2	7.4	7.7	7.6	7.7	7.9	8.2	8.1	8.3	8.5	8.8	8.6	8.8	9.0	9.3	9.1	9.3	9.5	9.8	9.5	9.7	10.0	10.4
		Hi PR	221	237	251	261	248	266	281	293	282	303	320	334	321	345	364	380	361	388	410	428	399	429	453	472
		Lo PR	108	115	126	134	114	122	133	142	119	127	138	147	125	133	145	155	131	139	152	162	135	144	157	168

85	900	MBh	25.2	25.7	26.9	28.7	24.6	25.1	26.3	28.0	24.0	24.5	25.6	27.3	23.4	23.9	25.0	26.7	22.3	22.7	23.8	25.3	20.6	21.0	22.0	23.5
		S/T	1.00	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	1.00	0.81
		ΔT	26	25	24	21	25	26	24	21	25	25	24	21	24	24	24	21	23	23	24	21	21	21	22	19
		kW	1.63	1.67	1.72	1.77	1.76	1.79	1.85	1.91	1.86	1.90	1.96	2.03	1.96	2.00	2.07	2.13	2.04	2.09	2.15	2.22	2.11	2.16	2.23	2.30
		Amps	7.4	7.5	7.7	8.0	7.9	8.0	8.2	8.5	8.4	8.6	8.9	9.2	8.9	9.1	9.4	9.7	9.4	9.6	9.9	10.3	9.9	10.1	10.5	10.8
		Hi PR	232	250	264	275	260	280	296	309	296	319	336	351	337	363	383	400	379	408	431	450	419	451	476	497
		Lo PR	114	121	132	141	120	128	140	149	125	133	145	155	131	140	153	163	138	147	160	170	142	152	165	176
	800	MBh	24.4	24.9	26.1	27.8	23.9	24.3	25.5	27.2	23.3	23.8	24.9	26.5	22.7	23.2	24.3	25.9	21.6	22.0	23.1	24.6	20.0	20.4	21.4	22.8
		S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.95	0.77
		ΔT	27	26	25	22	27	27	25	22	27	27	25	22	26	27	25	22	25	25	25	22	23	23	23	20
		kW	1.62	1.65	1.70	1.76	1.74	1.78	1.83	1.89	1.85	1.89	1.95	2.01	1.94	1.99	2.05	2.12	2.02	2.07	2.14	2.21	2.09	2.14	2.21	2.28
		Amps	7.3	7.4	7.7	7.9	7.8	8.0	8.2	8.4	8.4	8.5	8.8	9.1	8.9	9.1	9.3	9.6	9.4	9.6	9.8	10.2	9.9	10.1	10.4	10.7
		Hi PR	230	247	261	272	258	277	293	305	293	315	333	347	334	359	379	396	376	404	427	445	415	447	472	492
		Lo PR	113	120	131	140	119	127	138	147	124	132	144	153	130	138	151	161	136	145	158	169	141	150	164	174
	700	MBh	22.6	23.0	24.1	25.7	22.0	22.5	23.5	25.1	21.5	21.9	23.0	24.5	21.0	21.4	22.4	23.9	19.9	20.3	21.3	22.7	18.5	18.8	19.7	21.0
		S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.74
		ΔT	27	27	25	22	28	27	26	22	28	27	26	22	28	27	26	22	26	27	25	22	24	25	24	21
		kW	1.58	1.61	1.66	1.72	1.70	1.74	1.79	1.85	1.80	1.84	1.90	1.96	1.90	1.94	2.00	2.06	1.97	2.02	2.08	2.15	2.04	2.09	2.15	2.23
		Amps	7.1	7.3	7.5	7.7	7.6	7.8	8.0	8.2	8.2	8.3	8.6	8.9	8.7	8.8	9.1	9.4	9.1	9.3	9.6	9.9	9.6	9.8	10.1	10.5
		Hi PR	223	240	253	264	250	269	284	296	284	306	323	337	324	348	368	384	364	392	414	432	403	433	457	477
		Lo PR	109	116	127	135	116	123	134	143	120	128	140	149	126	134	147	156	132	141	154	164	137	146	159	169

EXPANDED COOLING DATA — GP61548***41** — SINGLE STAGE

			OUTDOOR AMBIENT TEMPERATURE																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			ENTERING INDOOR WET BULB TEMPERATURE																							
IDB	AIRFLOW	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
70	1238	MBh	34.3	35.5	38.9	-	33.5	34.7	38.0	-	32.7	33.9	37.1	-	31.9	33.1	36.2	-	30.3	31.4	34.4	-	28.1	29.1	31.9	-
		S/T	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.89	0.74	0.51	-
		ΔT	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	16	12	-
		kW	2.31	2.35	2.42	-	2.47	2.52	2.60	-	2.62	2.67	2.76	-	2.75	2.81	2.89	-	2.86	2.92	3.01	-	2.95	3.01	3.11	-
		Amps	10.4	10.6	10.9	-	11.1	11.3	11.6	-	11.9	12.1	12.4	-	12.5	12.8	13.1	-	13.2	13.5	13.8	-	13.8	14.1	14.5	-
		Hi PR	223	240	253	-	250	269	284	-	284	306	323	-	324	349	368	-	364	392	414	-	403	433	458	-
		Lo PR	112	120	131	-	119	126	138	-	123	131	143	-	130	138	151	-	136	145	158	-	141	150	163	-
	1100	MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	27.3	28.3	31.0	-
		S/T	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-
		ΔT	21	18	13	-	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	19	17	13	-
		kW	2.29	2.34	2.41	-	2.46	2.51	2.58	-	2.60	2.65	2.73	-	2.73	2.78	2.87	-	2.84	2.89	2.99	-	2.93	2.99	3.08	-
		Amps	10.3	10.5	10.8	-	11.0	11.2	11.5	-	11.8	12.0	12.3	-	12.4	12.7	13.0	-	13.1	13.4	13.7	-	13.7	14.0	14.4	-
		Hi PR	221	237	251	-	248	266	281	-	282	303	320	-	321	345	365	-	361	388	410	-	399	429	453	-
		Lo PR	111	118	129	-	118	125	137	-	122	130	142	-	128	137	149	-	135	143	156	-	139	148	162	-
	963	MBh	30.7	31.9	34.9	-	30.0	31.1	34.1	-	29.3	30.4	33.3	-	28.6	29.6	32.5	-	27.2	28.2	30.8	-	25.2	26.1	28.6	-
		S/T	0.71	0.59	0.41	-	0.74	0.62	0.43	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.82	0.68	0.47	-
		ΔT	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	20	17	13	-
		kW	2.24	2.29	2.35	-	2.40	2.45	2.52	-	2.54	2.59	2.67	-	2.66	2.72	2.80	-	2.77	2.83	2.91	-	2.86	2.92	3.01	-
		Amps	10.1	10.3	10.6	-	10.8	11.0	11.3	-	11.5	11.7	12.0	-	12.1	12.4	12.7	-	12.8	13.0	13.4	-	13.4	13.7	14.1	-
		Hi PR	214	230	243	-	240	258	273	-	273	294	310	-	311	335	354	-	350	377	398	-	387	416	439	-
		Lo PR	108	115	125	-	114	121	132	-	119	126	138	-	125	132	145	-	131	139	152	-	135	144	157	-

75	1238	MBh	34.9	35.9	38.9	41.7	34.1	35.1	38.0	40.7	33.3	34.2	37.1	39.8	32.4	33.4	36.2	38.8	30.8	31.7	34.4	36.9	28.6	29.4	31.8	34.2				
		S/T	0.88	0.79	0.60	0.38	0.91	0.81	0.62	0.40	0.93	0.84	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44				
		ΔT	23	21	17	12	23	21	17	12	23	21	17	12	23	21	18	12	23	21	17	12	21	20	16	11				
		kW	2.33	2.37	2.44	2.52	2.49	2.54	2.62	2.70	2.64	2.69	2.78	2.86	2.77	2.83	2.92	3.01	2.88	2.94	3.03	3.13	2.98	3.04	3.14	3.24				
		Amps	10.5	10.7	11.0	11.3	11.2	11.4	11.7	12.0	11.9	12.2	12.5	12.9	12.6	12.9	13.2	13.7	13.3	13.6	13.9	14.4	14.0	14.2	14.7	15.1				
		Hi PR	225	242	256	267	253	272	287	299	287	309	327	341	327	352	372	388	368	396	418	436	407	438	462	482				
		Lo PR	114	121	132	140	120	128	139	148	125	133	145	154	131	139	152	162	137	146	159	170	142	151	165	176				
	1100	MBh	33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	32.4	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2				
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.63	0.42	0.96	0.86	0.65	0.42				
		ΔT	24	22	18	12	24	22	18	13	24	22	18	13	24	22	18	13	24	22	18	12	22	21	17	12				
		kW	2.31	2.36	2.42	2.50	2.47	2.52	2.60	2.68	2.62	2.67	2.76	2.84	2.75	2.81	2.89	2.98	2.86	2.92	3.01	3.11	2.95	3.01	3.11	3.21				
		Amps	10.4	10.6	10.9	11.2	11.1	11.3	11.6	12.0	11.9	12.1	12.4	12.8	12.5	12.8	13.1	13.5	13.2	13.5	13.8	14.3	13.8	14.1	14.5	15.0				
		Hi PR	223	240	253	264	250	269	284	296	285	306	323	337	324	349	368	384	365	392	414	432	403	433	458	477				
		Lo PR	112	120	131	139	119	126	138	147	123	131	143	153	130	138	151	160	136	145	158	168	141	150	163	174				
	963	MBh	31.3	32.2	34.8	37.4	30.5	31.4	34.0	36.5	29.8	30.7	33.2	35.6	29.1	29.9	32.4	34.8	27.6	28.4	30.8	33.0	25.6	26.3	28.5	30.6				
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40				
		ΔT	24	22	18	13	24	22	18	13	24	23	18	13	25	23	19	13	24	22	18	13	23	21	17	12				
		kW	2.26	2.30	2.37	2.44	2.42	2.47	2.54	2.62	2.56	2.61	2.69	2.77	2.68	2.74	2.82	2.91	2.79	2.85	2.94	3.03	2.88	2.94	3.03	3.13				
		Amps	10.2	10.4	10.6	11.0	10.8	11.0	11.3	11.7	11.6	11.8	12.1	12.5	12.2	12.5	12.8	13.2	12.9	13.1	13.5	13.9	13.5	13.8	14.2	14.7				
		Hi PR	216	233	246	256	243	261	276	288	276	297	314	327	314	338	357	373	354	381	402	419	391	420	444	463				
		Lo PR	109	116	127	135	115	123	134	143	120	127	139	148	126	134	146	156	132	140	153	163	136	145	158	169				

IDB: Entering Indoor Dry Bulb Temperature
High and low pressures are measured at the liquid and suction service valves.

Shaded area reflects ACCA (TVA) conditions

kW = Total system power
Amps = outdoor unit amps (comp.+fan)

			OUTDOOR AMBIENT TEMPERATURE																							
			65°F				75°F				85°F				95°F				105°F				115°F			
			ENTERING INDOOR WET BULB TEMPERATURE																							
IDB	AIRFLOW	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	
80	1238	MBh	35.5	36.3	38.8	41.4	34.7	35.4	37.9	40.5	33.8	34.6	37.0	39.5	33.0	33.7	36.1	38.5	31.4	32.1	34.2	36.6	29.1	29.7	31.7	33.9
		S/T	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.84	0.63	1.00	1.00	0.84	0.63
		ΔT	25	24	21	17	26	25	21	17	25	25	21	17	25	25	22	17	23	24	21	17	22	22	20	16
		kW	2.34	2.39	2.46	2.54	2.51	2.56	2.64	2.72	2.66	2.72	2.80	2.89	2.79	2.85	2.94	3.03	2.90	2.96	3.06	3.16	3.00	3.06	3.16	3.26
		Amps	10.6	10.8	11.0	11.4	11.2	11.5	11.8	12.1	12.0	12.3	12.6	13.0	12.7	13.0	13.3	13.8	13.4	13.7	14.1	14.5	14.1	14.4	14.8	15.3
		Hi PR	227	245	258	270	255	275	290	302	290	312	330	344	331	356	376	392	372	400	423	441	411	442	467	487
	Lo PR	115	122	133	142	121	129	141	150	126	134	146	156	132	141	154	164	139	148	161	172	143	153	167	177	
	1100	MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6	35.9	38.4	32.1	32.8	35.0	37.4	30.5	31.1	33.3	35.5	28.2	28.8	30.8	32.9
		S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	0.98	0.80	0.60	1.00	0.99	0.81	0.60
		ΔT	26	25	22	18	27	26	22	18	27	26	22	18	27	26	23	18	25	26	22	18	24	24	21	17
		kW	2.33	2.37	2.44	2.52	2.49	2.54	2.62	2.70	2.64	2.69	2.78	2.86	2.77	2.83	2.92	3.01	2.88	2.94	3.03	3.13	2.98	3.04	3.14	3.24
		Amps	10.5	10.7	11.0	11.3	11.2	11.4	11.7	12.0	11.9	12.2	12.5	12.9	12.6	12.9	13.2	13.7	13.3	13.6	14.0	14.4	14.0	14.2	14.7	15.1
		Hi PR	225	242	256	267	253	272	287	299	287	309	327	341	327	352	372	388	368	396	418	436	407	438	462	482
	Lo PR	114	121	132	140	120	128	139	148	125	133	145	154	131	139	152	162	137	146	159	170	142	151	165	176	
	963	MBh	31.8	32.5	34.7	37.1	31.1	31.7	33.9	36.3	30.3	31.0	33.1	35.4	29.6	30.2	32.3	34.5	28.1	28.7	30.7	32.8	26.0	26.6	28.4	30.4
		S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.01	0.95	0.77	0.58	1.02	0.95	0.78	0.58
		ΔT	27	26	22	18	27	26	23	18	27	26	23	18	27	26	23	18	27	26	23	18	25	24	21	17
		kW	2.28	2.32	2.39	2.46	2.44	2.49	2.56	2.64	2.58	2.63	2.71	2.80	2.71	2.76	2.85	2.94	2.81	2.87	2.96	3.06	2.90	2.97	3.06	3.16
Amps		10.3	10.5	10.7	11.0	10.9	11.1	11.4	11.8	11.7	11.9	12.2	12.6	12.3	12.6	12.9	13.3	13.0	13.2	13.6	14.1	13.6	13.9	14.3	14.8	
Hi PR		218	235	248	259	245	264	279	291	279	300	317	330	317	342	361	376	357	384	406	423	395	425	448	468	
Lo PR	110	117	128	136	116	124	135	144	121	129	141	150	127	135	148	157	133	142	155	165	138	147	160	170		
85	1238	MBh	36.1	36.8	38.6	41.1	35.3	36.0	37.7	40.2	34.4	35.1	36.8	39.2	33.6	34.2	35.9	38.3	31.9	32.5	34.1	36.4	29.6	30.1	31.6	33.7
		S/T	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82
		ΔT	27	27	25	22	26	27	26	22	26	26	26	22	25	25	26	22	24	24	25	22	22	22	23	21
		kW	2.36	2.41	2.48	2.55	2.53	2.58	2.66	2.74	2.68	2.74	2.82	2.91	2.81	2.87	2.96	3.06	2.93	2.99	3.08	3.18	3.02	3.09	3.19	3.29
		Amps	10.6	10.8	11.1	11.5	11.3	11.5	11.9	12.2	12.1	12.4	12.7	13.1	12.8	13.1	13.4	13.9	13.5	13.8	14.2	14.6	14.2	14.5	14.9	15.4
		Hi PR	230	247	261	272	258	277	293	306	293	315	333	347	334	359	379	396	376	404	427	445	415	447	472	492
	Lo PR	116	123	135	143	122	130	142	151	127	135	148	157	134	142	155	165	140	149	163	173	145	154	168	179	
	1100	MBh	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1	35.7	38.1	32.6	33.3	34.8	37.2	31.0	31.6	33.1	35.3	28.7	29.3	30.6	32.7
		S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.96	0.78
		ΔT	28	28	26	23	29	28	27	23	28	28	27	23	27	28	27	23	26	26	26	23	24	24	25	21
		kW	2.34	2.39	2.46	2.54	2.51	2.56	2.64	2.72	2.66	2.72	2.80	2.89	2.79	2.85	2.94	3.03	2.90	2.96	3.06	3.16	3.00	3.06	3.16	3.26
		Amps	10.6	10.8	11.0	11.4	11.2	11.5	11.8	12.1	12.0	12.3	12.6	13.0	12.7	13.0	13.3	13.8	13.4	13.7	14.1	14.5	14.1	14.4	14.8	15.3
		Hi PR	227	245	258	270	255	275	290	302	290	312	330	344	331	356	376	392	372	400	423	441	411	442	467	487
	Lo PR	115	122	133	142	121	129	141	150	126	134	146	156	132	141	154	164	139	148	161	172	143	153	167	177	
	963	MBh	32.4	33.0	34.6	36.9	31.6	32.2	33.8	36.0	30.9	31.5	32.9	35.1	30.1	30.7	32.1	34.3	28.6	29.2	30.5	32.6	26.5	27.0	28.3	30.2
		S/T	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		ΔT	29	28	27	23	29	29	27	23	29	29	27	23	29	29	27	24	27	28	27	23	25	26	25	22
		kW	2.29	2.34	2.41	2.48	2.46	2.50	2.58	2.66	2.60	2.65	2.73	2.82	2.73	2.78	2.87	2.96	2.83	2.89	2.98	3.08	2.93	2.99	3.08	3.18
Amps		10.3	10.5	10.8	11.1	11.0	11.2	11.5	11.9	11.8	12.0	12.3	12.7	12.4	12.7	13.0	13.4	13.1	13.4	13.7	14.2	13.7	14.0	14.4	14.9	
Hi PR		221	237	251	261	248	266	281	293	282	303	320	334	321	345	364	380	361	388	410	428	399	429	453	472	
Lo PR	111	118	129	138	118	125	137	145	122	130	142	151	128	137	149	159	135	143	156	166	139	148	162	172		

IDB: Entering Indoor Dry Bulb Temperature

High and low pressures are measured at the liquid and suction service valves.

Shaded area reflects AHRI (TVA) conditions

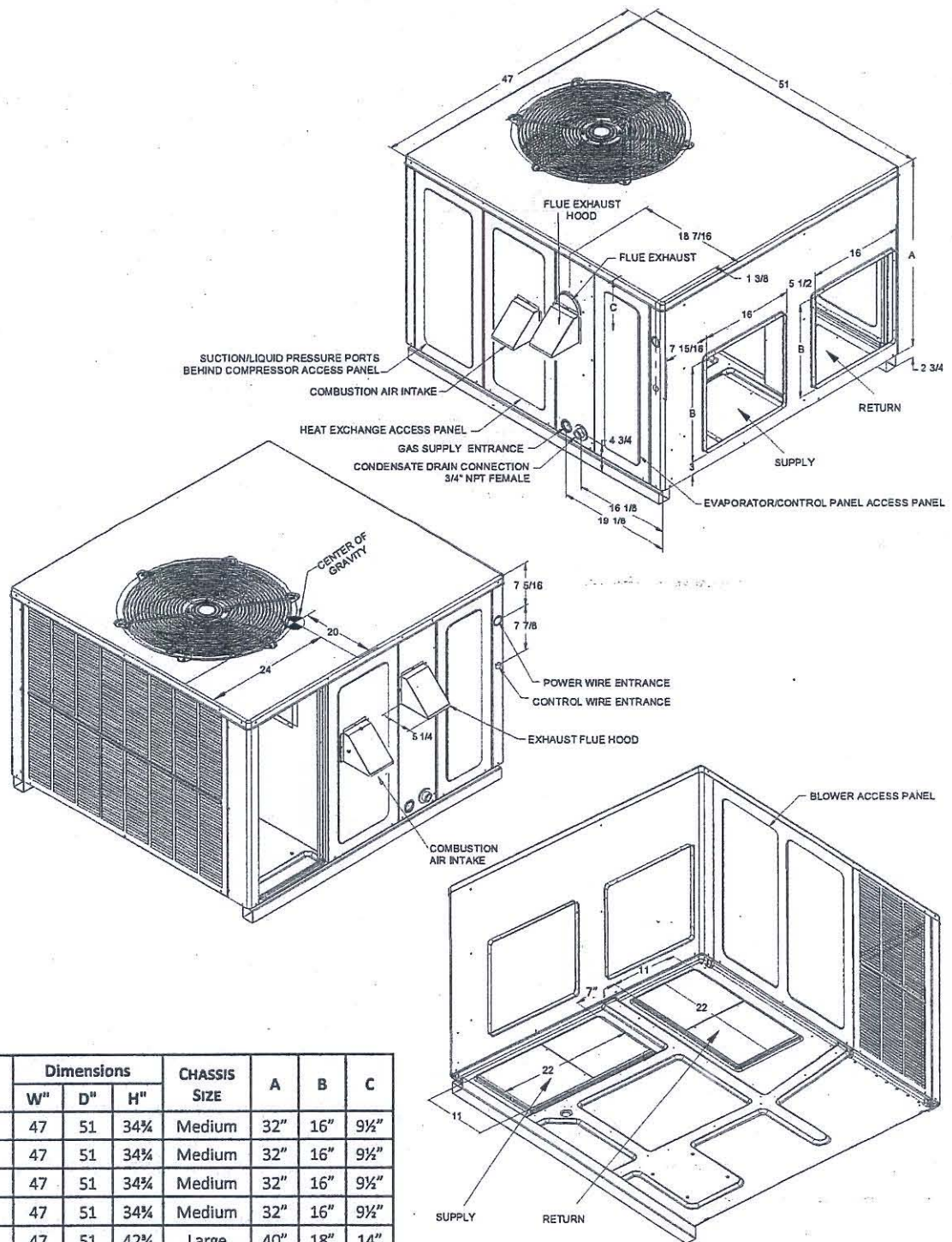
kW = Total system power

Amps = outdoor unit amps (comp.+fan)

EXPANDED COOLING DATA — GP1548***41** — SINGLE STAGE (CONT.)

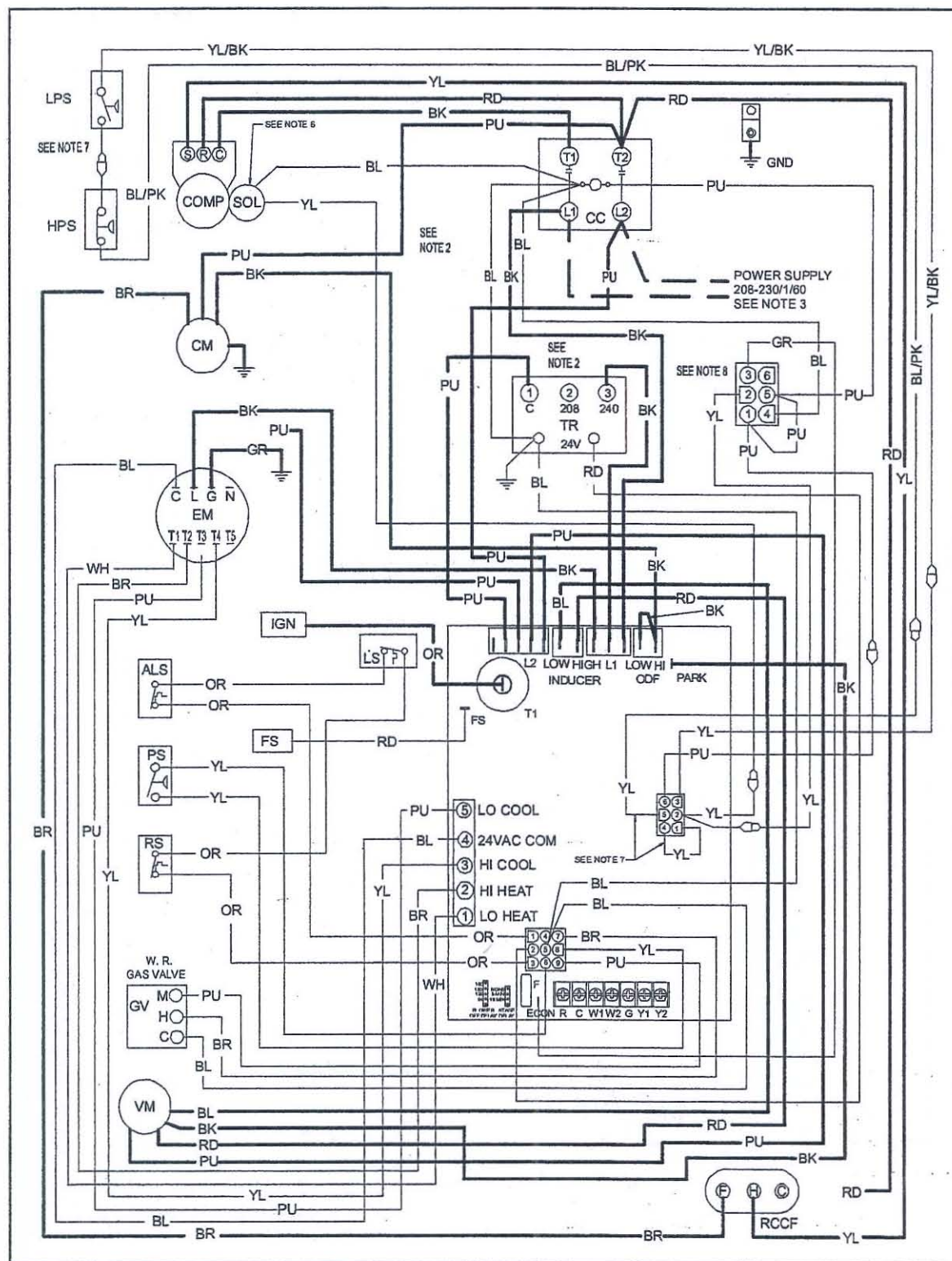
PRODUCT SPECIFICATIONS

DIMENSIONS



Model	Dimensions			CHASSIS SIZE	A	B	C
	W"	D"	H"				
GPG152407041A*	47	51	34 3/4	Medium	32"	16"	9 1/2"
GPG153009041A*	47	51	34 3/4	Medium	32"	16"	9 1/2"
GPG153609041A*	47	51	34 3/4	Medium	32"	16"	9 1/2"
GPG153709041A*	47	51	34 3/4	Medium	32"	16"	9 1/2"
GPG154211541A*	47	51	42 3/4	Large	40"	18"	14"
GPG154811541A*	47	51	42 3/4	Large	40"	18"	14"
GPG154911541A*	47	51	42 3/4	Large	40"	18"	14"
GPG156014041A*	47	51	42 3/4	Large	40"	18"	14"

WIRING DIAGRAMS

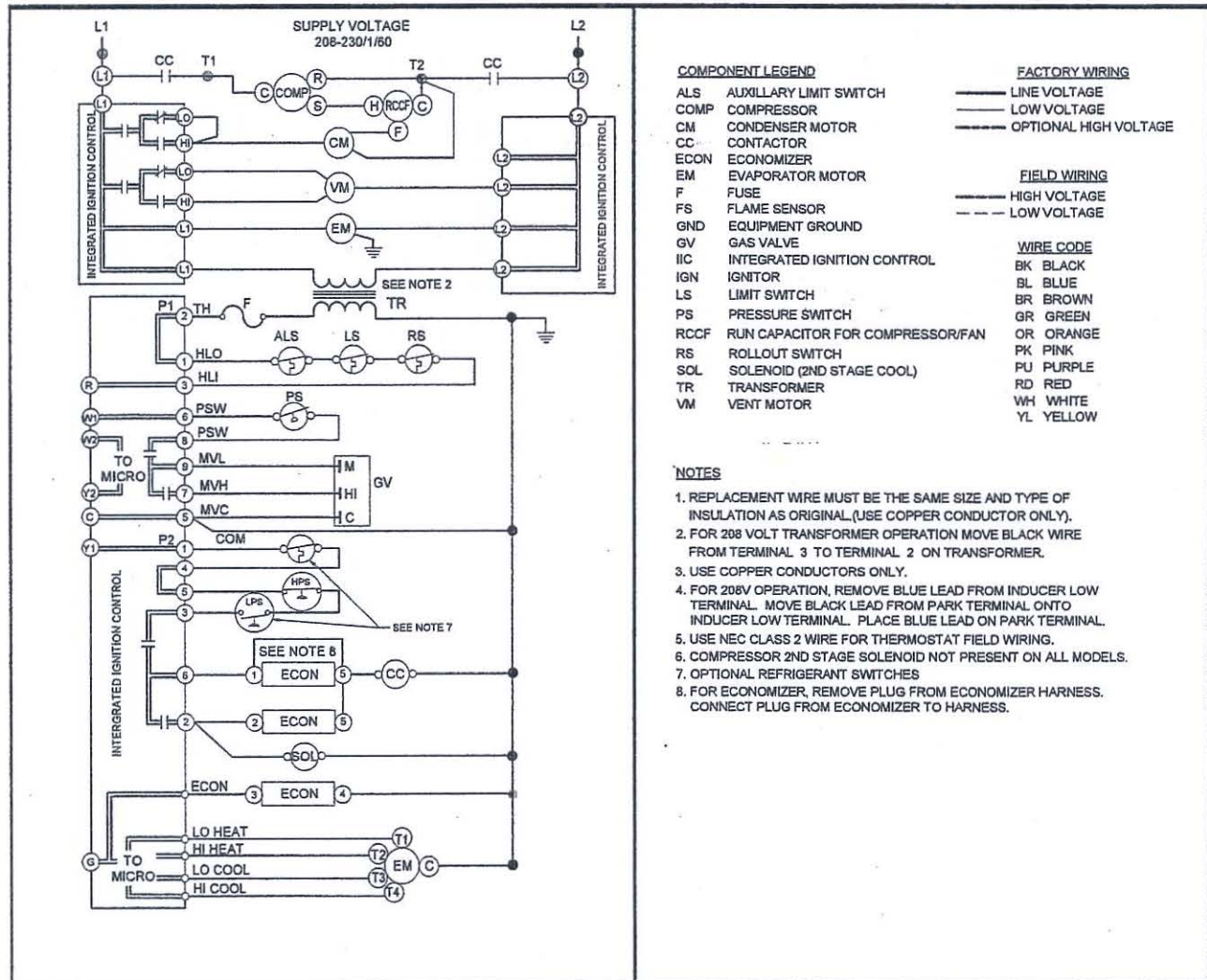


High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.



Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

WIRING DIAGRAMS (CONT.)



DIAGNOSTIC LED - RED	STATUS	CHECK
ON	NORMAL OPERATION	-
OFF	NO POWER OR INTERNAL CONTROL FAULT	CHECK INPUT POWER CHECK FUSE(S) REPLACE CONTROL
1 FLASH	IGNITION FAILURE	GAS FLOW GAS PRESSURE GAS VALVE FLAME SENSOR
2 FLASHES	PRESSURE SWITCH OPEN	CHECK PRESSURE SWITCH CHECK TUBING CHECK VENT MOTOR
3 FLASHES	PRESSURE SWITCH CLOSED WITHOUT INDUCER ON	CHECK PRESSURE SWITCH CHECK WIRING FOR SHORTS
4 FLASHES	OPEN LIMIT SWITCH	CHECK MAIN LIMIT SWITCH CHECK AUXILIARY LIMIT SW. CHECK ROLLOUT LIMIT SW.
5 FLASHES	FALSE FLAME DETECTED	CHECK GAS VALVE CHECK FOR SHORTS IN FLAME SENSOR WIRING
6 FLASHES	COMPR. SHORT CYCLE DELAY	3 MIN COMP. SHORT CYCLE DELAY

DIAGNOSTIC LED - RED	STATUS	CHECK
7 FLASHES	LIMIT OPEN 5 TIMES IN SAME CALL FOR HEAT	CHECK MAIN LIMIT SWITCH CHECK AUXILIARY LIMIT SW.
8 FLASHES	IDT/ODT OPEN	CHECK JUMPER BETWEEN 1 AND 4 ON 6-CIRCUIT CONNECTOR CHECK OPTIONAL REFRIGERANT SWITCHES
9 FLASHES	PSW/LOC OPEN	CHECK REFRIGERANT SWITCHES FOR LOSS OF CHARGE OR HIGH HEAD PRESSURE

DIAGNOSTIC LED - AMBER	STATUS	CHECK
OFF	NO FLAME PRESENT	-
ON	NORMAL FLAME PRESENT	-
1 FLASH	LOW FLAME SIGNAL	GAS FLOW GAS PRESSURE GAS VALVE FLAME SENSOR
2 FLASHES	FALSE FLAME DETECTED	CHECK GAS VALVE CHECK FOR SHORTS IN FLAME SENSOR WIRING

0140G00533 REV A

Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.



WARNING

High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.



ACCESSORIES

DESCRIPTION	PART NUMBERS		
	SMALL CHASSIS	MEDIUM CHASSIS	LARGE CHASSIS
Concentric Converter	CDK1-2	CDK1-2	CDK3
Horizontal Duct Cover	---	20464501PDGK	20464502PDGK
Downflow Economizer	PGED101	PGED102	PGED103
Horizontal Economizer	PGEH101	PGEH102	PGEH103
Filter Rack	PGFR101	PGFR102	PGFR103
Downflow Manual Damper	PGMDD101	PGMDD102	PGMDD103
Downflow Motorized Damper	PGMDMD101	PGMDMD102	PGMDMD103
Horizontal Manual Damper	PGMDH101	PGMDH102	PGMDH103
Horizontal Motorized Damper	PGMDMH101	PGMDMH102	PGMDMH103
Roof Curb	PGC101	PGC102	PGC103
Downflow Square-to-Round	SQRP101	SQRP102	SQRP103
Horizontal Square-to-Round	SQRP101	SQRP102	SQRP103
The above accessories are offered by McDaniel Metals • Main: (281) 987-8400 • Fax: (281) 987-9494			
LPM-05	L.P. Conversion Kit	---	---

PRODUCT SPECIFICATIONS

NOTES

