

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name NJR Home Services
1415 Wyckoff Rd., Wall NJ 07719
Address Tel. 732-938-1260 Fax. 732-938-3010

Federal Employee No. 22-3609806

Telephone _____

Signature JOHN MAINES TEL. 732-938-1151



III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Zoning Officer									
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Department of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Department of Environmental Protection									
☐ Utility Dig No.									
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

Name of Code & Edition

Name of Code & Edition

Building _____	Energy _____	Other _____
Electrical _____	Barrier Free _____	_____
Plumbing _____	Flood Hazard _____	_____
Fire Protection _____	As Built Elevation Cert. _____	_____
Mechanical _____	Other _____	_____

X. CERTIFICATES ISSUED (office use only)

	No.	DATE ISSUED	DATE EXPIRED	DATE REISSUED	DATE EXPIRED
☐ Temporary Certificate of Occupancy	_____	_____	_____	_____	_____
☐ Temporary Certificate of Compliance	_____	_____	_____	_____	_____
☐ Continued Certificate of Occupancy	_____	_____	_____	_____	_____
☐ Certificate of Compliance	_____	_____	_____	_____	_____
☐ Certificate of Occupancy	_____	_____	_____	_____	_____
☐ Certificate of Approval	_____	_____	_____	_____	_____
☐ Lead Abatement Clearance Certificate	_____	_____	_____	_____	_____



CONSTRUCTION. PERMIT

Date Issued
Control #
Permit #

IDENTIFICATION Block 1422 Lot 19
Work Site Location 758 Tall Oaks Dr.
Buck 08704
Owner in Fee Mac Alder
Address same
Tel. [REDACTED]

Contractor NJR Home Services
Address 1415 Wyckoff Rd
Wall NJ 07719
Tel. (732) 938-1260
Lic. No. or Bldrs. Reg. No. _____
Fed. Emp. No. 22-3609806

Is hereby granted permission to perform the following work:

☐ BUILDING	☐ PLUMBING	☐ LEAD HAZARD ABATEMENT
☐ ELECTRICAL	☐ FIRE PROTECTION	☐ DEMOLITION
☐ ELEVATOR DEVICES	☐ ASBESTOS ABATEMENT	☐ OTHER _____
(Subchapter 8 only)		

DESCRIPTION OF WORK:

replace FWA furnace & A/C system

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$ 6800.

Construction Official

Date

U.C.C. F170
(rev. 3/96)

1 WHITE—INSPECTOR COPY

2 CANARY—OFFICE COPY

3 PINK—OFFICE COPY

4 GOLD—APPLICANT COPY

(see reverse side)

PAYMENTS (Office Use Only)

Building _____
Electrical _____
Plumbing _____
Fire Protection _____
Elevator Devices _____
Other _____
DCA Training Fee _____
Cert. of Occupancy _____
Other _____
Total _____
Check No. _____
Cash _____
Collected by: _____

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that work installed conforms to the approved plans and the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval given.

☐ Required inspections for all subcodes for one and two family dwellings are the following:

1. The bottom of footing trenches before placement of footings, except that in the case of pile foundations, inspections shall be made in accordance with the requirements of the building subcode;
2. Foundations and all walls up to grade level prior to back filling;
3. All structural framing and connections prior to covering with finish or infill material; plumbing underground services, rough piping, water service, sewer, septic services and storm drains; electrical rough wiring, panels and service installations; insulation installations;
4. Installation of all finished materials, sealings of exterior joints; plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. Any violations of the approved plans and/or permit will be noted and the holder of the permit notified of discrepancies.

☐ A complete copy of approved plans must be kept on the job site.

If you do not understand any of this information, please ask.

Date Issued 09/20/2002
Control #
Permit # 02-3596

UCC NEW JERSEY
CONSTRUCTION
PERMIT

[illegible]

Date Rec'd _____ Project Name _____ Location _____ Owner's Co. Name _____ Address _____ City _____ State _____ Zip _____ Telephone _____	Contractor <u>GILLEN ELECTRIC</u> Address <u>1011 DOUGHERTY DR</u> <u>CRAWFORD, GA 30812-</u> Telephone <u>(609) 771-1712</u> Lic. No. or Bids. Reg. No. <u>7298</u> Federal Exp. No. <u>15-8611485</u>
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It hereby ordered the ISSC to perform the following work:

☐ 1. RECEIPT	☐ 2. PLUMBING	☐ 3. LEAD HAZARD ABATEMENT
☐ 4. FIRE ALARMS	☐ 5. FIRE PROTECTION	☐ 6. DEMOLITION
☐ 7. ELEVATOR SERVICE	☐ 8. ROOFING ABATEMENT	☐ 9. OTHER _____

(Subchapter S only)

DECLASSIFIED BY: 6032
DATE: 08-11-2013

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction has not for a period of six (6) months, this permit is void.

Continued from Page 156

Dr. Norman J.

H.C.C. 5170 (r.v. 3/05)

PAYMENTS (Office Use Only)

Building	A
Electrical	53
Plumbing	35
Fire Protection	46
Elevator Devices	0
Other	
DCA State Permit Fee	0
Cert. of Occupancy	0
Other	
Total	134
Check No.	1189
Cash	
Collected By	JR

W/20/02 143884 00000004953
2906 9800.006

H023586	
ELECTRIC	\$53.00
PLUMBING	\$35.00
FIRE	\$46.00
CHECK	\$134.00

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
FIRE PROTECTION
SUBCODE
TECHNICAL SECTION

Date Received 08/31/2002
Date Issued 9/17/02
Control # C03-42
Permit # 02-3586

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000

Block 1422 Lot 19 Qual
Work Site Location 758 TALL OAKS DR
FURNACE AND A/C

Owner in Fee AIDER, MAC
Address SAME
BRICK NJ 08794-

Tele
Contractor NJR HOME SERVICES
Address 1415 WYCKOFF RD

WALL TOWNSHIP, NJ 07719-
Tele. (732) 938-1260
Lic. No. or Bldrs. Reg. No.
Federal Emp. No. 22-3609806

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present U Proposed U
Constr Class Present Proposed
Heating Systems [] New [X] Existing [] HVAC
Type: [X] Gas [] Oil [] Elect [] Solar
[] Other
Location:
Total Est Cost of Fire Prot Work \$ 40

Fire Alarm System
New [] Existing []
Location of Panel:
Fire Suppression/Standpipe Sys
New [] Existing []
Location of Main Control Valve

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[X] No Plans Required
Joint Plan Review Required:
[] Bldg [] Elect
[] Plumb [] Elevator
[] Fire Plans Approved
Date: 9-6-02
Approved By: [Signature]
SUBCODE APPROVAL
[] CO [] CCO [] CA
Date:
Approved By:

INSPECTIONS	Dates (Month/Day)			
	Type	Failure	Approval	Initial
Alarm Sys				
Suppr Test				
Standpipe				
Fire Pump				
PreEng Sys				
Mechanical				
Smoke Ctl				
TCO				
Final				
Other				

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature

D. TECHNICAL SITE DATA

Description of Work:
Water Supply Source
Method of Alarm/Suppr Sys Superv

Storage Tanks	FEE (Office Use Only)
Type: [] Flammable Liquid [] Combust Liquid	
[] LPG [] LNG Capacity 0 Fuel	
Alarm Systems [] 110v Interconnected NUMBER	
[] System	
Alarm Devices (smoke, heat, pulls, water/flow)	0
Supervisory Devices (tamper, low/high air)	0
Signalling Devices (horn/strobes, bells)	0
Other Devices	0
TOTAL	0
Suppression Systems	
Fire Pump 0 GPM Type	0
Dry Pipe/Alarm Valves	0
Pre-action Valves	0
Sprinkler Heads (Dry and Wet)	0
Standpipes	0
Pre-Engineered Systems	
Wet Chemical	0
Dry Chemical	0
CO2 Suppression	0
Foam Suppression	0
Halon Suppression	0
Other	0
Kitchen Hood Exhaust System	0
Smoke Control System	0
Gas [] or Oil [] Fired Appliances	0
Other FURNACE	46
Other	0

Administrative Surcharge	\$ 0
Paid [] Check #	Minimum Fee \$ 0
Collected by:	TOTAL FEE \$ 46
	DCA State Permit Fee \$ 0

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
ELECTRICAL
SUBCODE
TECHNICAL SECTION

Date Received 08/31/2002
Date Issued 9/12/02
Control # C03-42
Permit # 02-3586

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000

Block 1422 Lot 19 Qual _____
Work Site Location 758 TALL OAKS DR
FURNACE AND A/C
Owner in Fee AIDER, MAC
Address SAME
BRICK, NJ 08724-
Tele. _____
Contractor DILLON ELECTRIC
Address 1011 WOODMILL DR
CRANBURY, NJ 08512-
Tele. (609)371-1272
Lic. No. or Bldrs. Reg. No. 7490
Federal Emp. No. 15-8607405

B. ELECTRICAL CHARACTERISTICS

Use Group - Present U Proposed U
[] Pole/Pad # [] Temporary [] Other
Building Occupied as Utility Co.
Estimated Cost of Electrical Work \$ 85

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☒ No Plans Required
Joint Plan Review Required:
[] Bldg [] Plumb
[] Fire [] Elevator
[] Elect Plans Approved
Date: 9/12/02
Approved By: [Signature]
SUBCODE APPROVAL
[] CO [] CCO [] CA
Date: _____
Approved By: _____

INSPECTIONS

Dates (Month/Day)
Type Failure Failure Approval Initial
Rough _____
Temp Serv _____
Const Serv _____
TCO _____
Other _____
Service _____
Final _____
Temp. Cut-in-Card Date Issued _____
Final Cut-in-Card Date Issued _____

D. TECHNICAL SITE DATA

NO.	SIZE	ITEM	FEE (Office Use Only)
0		Lighting Fixtures	
0		Receptacles	
1		Switches	
0		Detectors	
0		Light Poles	
0		Motors-Fract HP	
0		Emergency & Exit Lights	
0		Communications Points	
0		Alarm Devices/F.A.C. Panel	
1		TOTAL NUMBERS	35
0		Pool Permit/with UW Lights	0
0		Storable Pool/Spa/Hot Tub	0
0	0	KW Elect Range/Receptacle	0
0	0	KW Oven/Surface Unit	0
0	0	KW Elect Water Heater	0
0	0	KW Elect Dryer/Receptacle	0
0	0	KW Dishwasher	0
0	0	HP Garbage Disposal	0
1	7	KW Central A/C Unit	9
1	3	HP/KW Space Heater/Air Handler	9
0	0	Baseboard Heat	0
0	0	HP Motors 1/+ HP	0
0	0	KW Transformer/Generator	0
0	0	AMP Service	0
0	0	AMP Subpanels	0
0	0	AMP Motor Control Center	0
0	0	KW Elect Sign/Outline Light	0
		Other	0
		Other	0

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature
[] Licensed Electrical Contractor [] Exempt Applicant

Administrative Surcharge \$ 0
Paid [] Check # Minimum Fee \$ 0
Collected by: TOTAL FEE \$ 53
DCA State Permit Fee \$ 0

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
PLUMBING
SUBCODE
TECHNICAL SECTION

Date Received 08/31/2002
Date Issued 9/12/02
Control # C03-42
Permit # 02-3586

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000

Block 1422 Lot 19 Qual
Work Site Location 758 TALL OAKS DR
FURNACE AND A/C
Owner in Fee AIDER, MAC
Address SAME
BRICK, NJ 08724-
Tele. [REDACTED]
Contractor NJR HOME SERVICES
Address 1415 WYCKOFF RD
WALL TOWNSHIP, NJ 07719-
Tele. (732) 938-1260
Lic. No. or Bldrs. Reg. No.
Federal Emp. No. 22-3609806

B. PLUMBING CHARACTERISTICS

Use Group Present U Proposed U
Building Sewer Size [] Public Sewer [] Private Septic
Water Sewer Size [] Public Water [] Private Well
Estimated Cost of Plumbing Work \$ 30

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[] No Plans Required
Joint Plan Review Required:
[] Bldg [] Elect
[] Fire [] Elevator
[] Plumb. Plans Approved
Date: 9/15/02
Approved By: [Signature]
SUBCODE APPROVAL
[] CO [] CCO [] CA
Approved By:
Date:

INSPECTIONS		Dates (Month/Day)	
Type	Failure	Approval	Initial
Slab			
Rough			
Water			
Sewer			
Fixtures			
Gas Equip.			
Gas Piping			
Solar			
TCO			

D. TECHNICAL SITE DATA (List all fixtures.)

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
0	Water Closet	0
0	Urinal / Bidet	0
0	Bath Tub	0
0	Lavatory	0
0	Shower	0
0	Floor Drain	0
0	Sink	0
0	Dishwasher	0
0	Drinking Fountain	0
0	Washing Machine	0
0	Hose Bib	0
0	Water Heater	0
0	Fuel Oil Piping	0
0	Gas Piping	0
0	Steam Boiler	0
0	Hot Water Boiler	0
0	Sewer Pump	0
0	Interceptor / Separator	0
0	Backflow Preventer	0
0	Greasetrap	0
0	Sewer Connection	0
0	Water Service Connection	0
0	Stacks	0
0	Other A/C	35
0	Other	0

Administrative Surcharge \$ 0
Paid [] Check # Minimum Fee \$ 0
Collected by: TOTAL FEE \$ 35
DCA State Permit Fee \$ 0

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Signature/Contractor Seal
[] Licensed Plumbing Contractor [] Exempt Applicant

CONDENSING UNITS

415

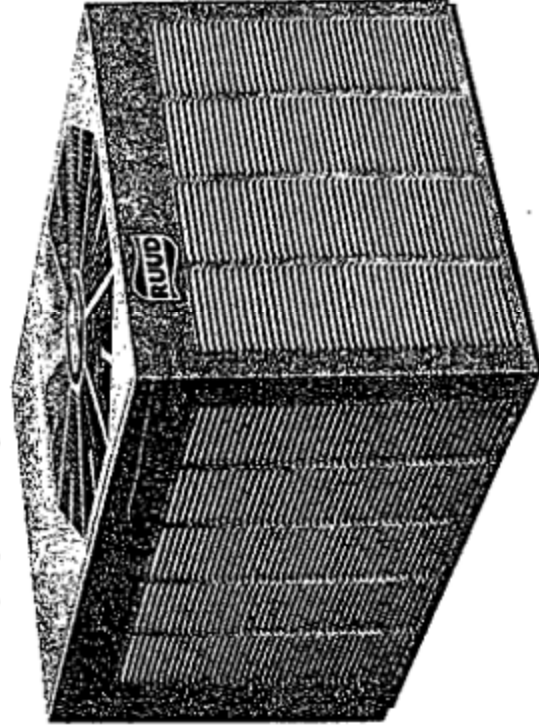


ACHIEVER 14™ SUPER HIGH EFFICIENCY CONDENSING UNITS

UAPA-SERIES
Nominal Sizes 2 to 5 Tons
[7.03 kW] to [17.58 kW]

Six Models

Cooling Capacities
24,000 to 60,000 BTU/HR
[7.03 kW] to [17.58 kW]



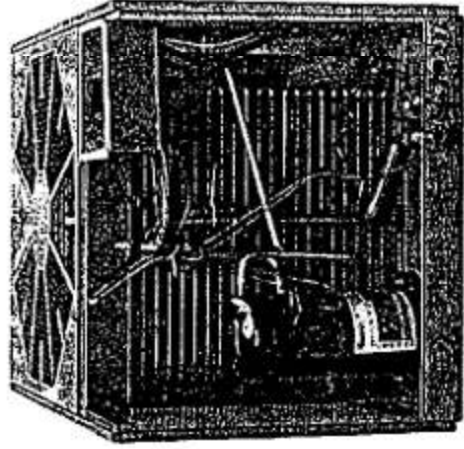
The Ruud® Achiever 14 Super High Efficiency UAPA-Condensing Unit was designed with performance in mind. These units offer comfort, energy conservation and dependability for single, multi-family and light commercial applications.

The Ruud Achiever 14 UAPA- Condensing Units are the result of an ongoing development program for improved efficiencies. With SEER's ranging to 14.0, these units continue a tradition of high efficiency.

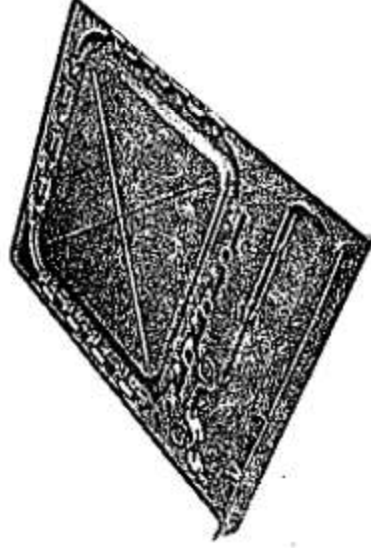
- Attractive, louvered wrap-around jacket protects the coil from yard hazards and weather extremes. Top grille is steel reinforced for extra strength. Cabinet is powder painted for all-weather protection.
- Air is discharged upward away from bushes and shrubs. The discharge pattern of the top grille provides minimum air restriction, resulting in quiet fan operation.
- Exclusive Combination Grille/Motor Mount secures the motor to the underside of the discharge grille. The grille protects the motor windings and bearings from rain and snow.
- All controls are accessible by removing one service panel. Removable top grille provides access to the condenser fan motor and condenser coil.
- Single speed motor designed for low speed, quiet, energy-saving operation.



*CERTIFIED UNDER THE
A.R.I. CERTIFICATION
PROGRAM—A.R.I.
STANDARD 210*



All controls and compressor are accessible for servicing by removal of the service panel.



Drawn Painted Base Pan.

COPELAND® COMPLIANT SCROLL®

Copeland's new scroll compressor is the key to efficiency for this Ruud model. It's the latest in high-efficiency compressor technology. The advanced compliant scroll compressor offers low noise and vibration characteristics and features tolerance to liquid refrigerant and system contamination. The Copeland Compliant Scroll also has low start torque, eliminating start problems in the field. And its unique design enables the UAPA- condensing unit to perform efficiently, quietly and reliably.

Model Number Identification

U	A	P	A	024	
RUUD	CONDENSING UNIT	TYPE-P SUPER HI-EFFICIENCY	DESIGN SERIES	NOMINAL COOLING CAPACITY	
				024 = 24,000 BTU/HR [7.03 kW]	
				030 = 30,000 BTU/HR [8.79 kW]	
				036 = 36,000 BTU/HR [10.55 kW]	
				042 = 42,000 BTU/HR [12.31 kW]	
				048 = 48,000 BTU/HR [14.07 kW]	
				049 = 48,000 BTU/HR [14.07 kW]	
				060 = 60,000 BTU/HR [17.58 kW]	
				061 = 60,000 BTU/HR [17.58 kW]	

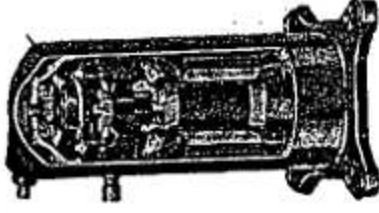
Engineering Features

UAPA- Series Condensing Units

1. Scroll compressor is hermetically sealed and incorporates internal high temperature motor overload protection, and durable insulation on the motor windings. It is externally mounted on rubber grommets to reduce vibration and noise.
2. Compressors have an internal pressure relief assembly to protect against excessive pressure differential.
3. All refrigerant connections are on the exterior of the unit, located close to the ground for neat appearing installations.
4. Cabinet is constructed of powder painted galvanized steel. The full wraparound louvered grille protects the coil from damage.
5. Copper Tube—Aluminum Fin coils are used on all models.
6. The control box is located in the top corner of the cabinet providing for easy access through a service panel.
7. Service valves are standard on all models.
8. Power and control wiring are kept separate.
9. Every unit is factory charged and tested.
10. Separate compressor compartment for easy service access.
11. Drawn, painted base pan for extra corrosion resistance and sound reduction.
12. **UAPA—JAZ Series** has a **10 year compressor limited warranty** and a liquid line filter drier. The JAZ Series also has factory installed low pressure control, high pressure control, time delay control and sound enclosure.

Field Installed Accessories

- **Compressor Time Delay Control**—Compressor will remain off for five minutes after power or thermostat interruption, allowing system pressures to equalize. (Model No. RXMD-B01)
- **Low Ambient Switch**—Cycles outdoor fan to maintain adequate condensing pressures assuring liquid refrigerant flow to the coil. Allows indoor cooling with outdoor temperatures down to 0°F [-17.8°C]. (Model No. RXAD-A04) It is recommended that this control be installed in units to be operated at outdoor ambient temperatures under 70°F [21°C].
- **Hard Start Kits**—Standard on 036/042/048/060 models. Option for 024 and 030 models.



J	A*	Z
ELECTRICAL DESIGNATION	VARIATIONS	COMPRESSOR TYPE
J = 208/230-1-60	A = DELUXE MODEL	Z = COPELAND ZR COMPLIANT SCROLL COMPRESSOR

Performance Data @ ARI Standard Conditions—Cooling

Outdoor Unit J/A/P/A	Model Numbers Indoor/Coil and/or Air Handler	80°F 126.5°C DB/67°F (19.5°C) WB Indoor Air 95°F (35°C) DB Outdoor Air					ARI Sound Rating O	Indoor CFM L/s
		Total Capacity BTU/h [kW]	Net Sensible BTU/h [kW]	Net Latent BTU/h [kW]	EER	SEER		
024JA	RCGA-24A2	22,200 [6.48]	16,400 [4.80]	5,800 [1.68]	10.50	12.00	7.4	800 [380]
	RCGA-24A2 (UBEA-14)	22,400 [6.54]	16,600 [4.86]	5,800 [1.68]	10.80	12.20	7.4	800 [380]
	RCGA-24A2 (UBHA-14)	22,400 [6.54]	16,600 [4.86]	5,800 [1.68]	10.80	12.20	7.4	800 [380]
	RCGA-24A2 (UGFD-067MCK7)	22,600 [6.60]	16,800 [4.92]	5,800 [1.68]	11.30	12.90	7.4	800 [380]
	RCGA-24A2 (UGFD-077MCK7)	22,800 [6.66]	17,000 [4.98]	5,800 [1.68]	11.50	13.10	7.4	800 [380]
	RCGA-24A2 (UGLH-057BMK7)	22,800 [6.66]	17,000 [4.98]	5,800 [1.68]	11.70	13.40	7.4	800 [380]
	RCGA-24A2 (UGLH-077BRK7)	22,800 [6.66]	17,000 [4.98]	5,800 [1.68]	11.90	13.60	7.4	800 [380]
	RCGA-24A2 (UGPH-057BMK7)	22,800 [6.66]	17,000 [4.98]	5,800 [1.68]	11.70	13.40	7.4	800 [380]
	RCGA-24A2 (UGPH-077BRK7)	22,800 [6.66]	17,000 [4.98]	5,800 [1.68]	11.90	13.60	7.4	800 [380]
	RCGA-24A2 + RXMD-C02 (UBEA-14)	22,400 [6.54]	16,600 [4.86]	5,800 [1.68]	10.80	12.30	7.4	800 [380]
	RCGA-24A2 + RXMD-C02 (UBHA-14)	22,400 [6.54]	16,600 [4.86]	5,800 [1.68]	10.80	12.30	7.4	800 [380]
	RCGJ-24A2	23,400 [6.84]	17,100 [5.01]	6,300 [1.83]	10.95	12.50	7.4	800 [380]
	RCGJ-24A2 (UBHU-17) Ⓢ	24,000 [7.02]	17,700 [5.13]	6,300 [1.83]	12.20	14.00	7.4	800 [380]
	RCGJ-24A2 (UGFD-067MCK7)	23,800 [6.96]	17,500 [5.13]	6,300 [1.83]	11.90	13.40	7.4	800 [380]
	RCGJ-24A2 (UGFD-077MCK7)	24,000 [7.02]	17,700 [5.19]	6,300 [1.83]	12.10	13.50	7.4	800 [380]
	RCGJ-24A2 (UGLH-057BMK7)	24,000 [7.02]	17,700 [5.19]	6,300 [1.83]	12.25	14.00	7.4	800 [380]
	RCGJ-24A2 (UGLH-077BRK7)	24,000 [7.02]	17,700 [5.19]	6,300 [1.83]	12.40	14.20	7.4	800 [380]
	RCGJ-24A2 (UGPH-057BMK7)	24,000 [7.02]	17,700 [5.19]	6,300 [1.83]	12.25	14.00	7.4	800 [380]
	RCGJ-24A2 (UGPH-077BRK7)	24,000 [7.02]	17,700 [5.19]	6,300 [1.83]	12.40	14.20	7.4	800 [380]
	RCGJ-24A2 + RXMD-C02	23,400 [6.84]	17,100 [5.01]	6,300 [1.83]	10.95	12.60	7.4	800 [380]
036JA	RCGA-36A2	32,800 [9.60]	24,200 [7.08]	8,600 [2.52]	10.55	12.00	7.6	1,200 [560]
	RCGA-36A2 (UBEA-17)	33,000 [9.66]	24,400 [7.14]	8,600 [2.52]	10.80	12.20	7.6	1,200 [560]
	RCGA-36A2 (UBHA-17)	33,000 [9.66]	24,400 [7.14]	8,600 [2.52]	10.80	12.20	7.6	1,200 [560]
	RCGA-36A2 (UGFD-067MCK7)	33,200 [9.72]	24,600 [7.20]	8,600 [2.52]	10.60	12.20	7.6	1,200 [560]
	RCGA-36A2 (UGFD-077MCK7)	33,600 [9.84]	25,000 [7.32]	8,600 [2.52]	11.50	13.20	7.6	1,200 [560]
	RCGA-36A2 (UGFD-097ZCM7)	33,400 [9.78]	24,800 [7.26]	8,600 [2.52]	11.40	13.10	7.6	1,200 [560]
	RCGA-36A2 (UGFD-107ZCM7)	33,600 [9.84]	25,000 [7.32]	8,600 [2.52]	11.40	13.10	7.6	1,200 [560]
	RCGA-36A2 (UGFD-127RCM7)	33,400 [9.78]	24,800 [7.26]	8,600 [2.52]	11.35	13.20	7.6	1,200 [560]
	RCGA-36A2 (UGLH-057BMK7)	33,400 [9.78]	24,800 [7.26]	8,600 [2.52]	11.45	13.30	7.6	1,200 [560]
	RCGA-36A2 (UGLH-077BRK7)	33,400 [9.78]	24,800 [7.26]	8,600 [2.52]	11.35	13.20	7.6	1,200 [560]
	RCGA-36A2 (UGPH-057BMK7)	33,400 [9.78]	24,800 [7.26]	8,600 [2.52]	11.45	13.30	7.6	1,200 [560]
	RCGA-36A2 (UGPH-077BRK7)	33,400 [9.78]	24,800 [7.26]	8,600 [2.52]	11.55	13.40	7.6	1,200 [560]
	RCGA-36A2 + RXMD-C02	32,800 [9.60]	24,200 [7.08]	8,600 [2.52]	10.55	12.10	7.6	1,200 [560]
	RCGA-36A2 + RXMD-C02 (UBEA-17)	33,000 [9.66]	24,400 [7.14]	8,600 [2.52]	10.80	12.30	7.6	1,200 [560]
	RCGA-36A2 + RXMD-C02 (UBHA-17)	33,000 [9.66]	24,400 [7.14]	8,600 [2.52]	10.80	12.30	7.6	1,200 [560]
	RCGJ-36A2	34,200 [10.02]	25,000 [7.32]	9,700 [2.82]	10.95	12.50	7.6	1,200 [560]
	RCGJ-36A2 (UBHU-21) Ⓢ	35,000 [10.26]	25,300 [7.44]	9,700 [2.82]	12.00	14.00	7.6	1,200 [560]
	RCGJ-36A2 (UGFD-067MCK7)	34,400 [10.08]	24,700 [7.26]	9,700 [2.82]	11.10	12.60	7.6	1,200 [560]
	RCGJ-36A2 (UGFD-077MCK7)	34,600 [10.14]	24,900 [7.32]	9,700 [2.82]	11.40	12.90	7.6	1,200 [560]
	RCGJ-36A2 (UGFD-097ZCM7)	35,000 [10.26]	25,300 [7.44]	9,700 [2.82]	12.00	13.60	7.6	1,200 [560]

Ⓢ Sound rating in accordance with ARI Standard 270.

Ⓢ Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversion

Performance Data @ ARI Standard Conditions—Cooling (cont.)

Model Numbers		60°F (16.5°C) DB, 57°F (14.2°C) WB Indoor Air 65°F (18.3°C) DB, 59°F (15.0°C) WB Outdoor Air						ARI Sound Rating (dBA)	Indoor CFM (L/s)
Outdoor Unit UAPA	Indoor Unit and/or Air Handler	Total Capacity BTU/h (kW)	Net Sensible BTU/h (kW)	Net Latent BTU/h (kW)	EER	SEER			
036JA	RCGJ-36A2 (UGFD-107ZCM?)	35,000 (10.26)	25,300 (7.44)	9,700 (2.82)	11.90	13.50	7.6	1,200 (565)	
	RCGJ-36A2 (UGFD-127RCM?)	35,000 (10.26)	25,300 (7.44)	9,700 (2.82)	11.90	13.50	7.6	1,200 (565)	
	RCGJ-36A2 (UGLH-0578MK?)	34,800 (10.20)	25,100 (7.38)	9,700 (2.82)	11.80	13.80	7.6	1,200 (565)	
	RCGJ-36A2 (UGLH-0778RM?)	35,000 (10.26)	25,300 (7.44)	9,700 (2.82)	12.00	14.00	7.6	1,200 (565)	
	RCGJ-36A2 (UGLH-1078RM?)	34,600 (10.14)	24,900 (7.32)	9,700 (2.82)	11.60	13.50	7.6	1,200 (565)	
	RCGJ-36A2 (UGLH-1278RM?)	34,800 (10.20)	25,100 (7.38)	9,700 (2.82)	11.90	13.80	7.6	1,200 (565)	
	RCGJ-36A2 (UGPH-0578MK?)	34,800 (10.20)	25,100 (7.38)	9,700 (2.82)	11.80	13.80	7.6	1,200 (565)	
	RCGJ-36A2 (UGPH-0778RM?)	35,000 (10.26)	25,300 (7.44)	9,700 (2.82)	12.00	14.00	7.6	1,200 (565)	
	RCGJ-36A2 (UGPH-1078RM?)	34,600 (10.14)	24,900 (7.32)	9,700 (2.82)	11.60	13.50	7.6	1,200 (565)	
	RCGJ-36A2 (UGPH-1278RM?)	34,800 (10.20)	25,100 (7.38)	9,700 (2.82)	11.90	13.80	7.6	1,200 (565)	
	RCGJ-36A2 + RXMD-C02	34,800 (10.20)	25,100 (7.38)	9,700 (2.82)	11.90	13.80	7.6	1,200 (565)	
	RCGA-48A1 (UBEA-21)	39,000 (11.40)	28,500 (8.34)	10,500 (3.06)	10.65	12.00	7.6	1,400 (660)	
042JA	RCGA-48A1 (UBHA-21)	39,000 (11.40)	28,500 (8.34)	10,500 (3.06)	11.00	12.20	7.6	1,400 (660)	
	RCGA-48A1 (UGFD-097ZCM?)	39,000 (11.40)	28,500 (8.34)	10,500 (3.06)	11.00	12.20	7.6	1,400 (660)	
	RCGA-48A1 (UGFD-107ZCM?)	40,000 (11.70)	29,500 (8.64)	10,500 (3.06)	11.40	13.00	7.6	1,400 (660)	
	RCGA-48A1 (UGFD-127RCM?)	40,000 (11.70)	29,500 (8.64)	10,500 (3.06)	11.30	12.90	7.6	1,400 (660)	
	RCGA-48A1 (UGPH-0578MK?)	39,000 (11.40)	28,500 (8.34)	10,500 (3.06)	11.40	13.00	7.6	1,400 (660)	
	RCGA-48A1 (UGPH-0778RM?)	39,000 (11.40)	28,500 (8.34)	10,500 (3.06)	11.40	13.00	7.6	1,400 (660)	
	RCGA-48A1 (UGPH-1078RM?)	39,500 (11.55)	29,000 (8.52)	10,500 (3.03)	11.35	12.90	7.6	1,400 (660)	
	RCGA-48A1 (UGPH-1278RM?)	39,500 (11.55)	29,000 (8.52)	10,500 (3.03)	11.35	12.90	7.6	1,400 (660)	
	RCGA-48A1 (UGPH-1278RM?)	39,500 (11.55)	29,000 (8.52)	10,500 (3.03)	11.35	12.90	7.6	1,400 (660)	
	RCGA-48A1 (UGPH-1278RM?)	39,500 (11.55)	29,000 (8.52)	10,500 (3.03)	11.35	12.90	7.6	1,400 (660)	
	RCGA-48A1 (UGPH-1278RM?)	39,500 (11.55)	29,000 (8.52)	10,500 (3.03)	11.35	12.90	7.6	1,400 (660)	
	RCGA-48A1 (UGPH-1278RM?)	39,500 (11.55)	29,000 (8.52)	10,500 (3.03)	11.35	12.90	7.6	1,400 (660)	
048JA/ 049JA	RCGA-48A1 (UBEA-21)	42,000 (12.30)	31,000 (9.06)	11,000 (3.21)	10.90	12.00	7.6	1,575 (745)	
	RCGA-48A1 (UBHA-21)	42,000 (12.30)	31,000 (9.06)	11,000 (3.21)	10.90	12.00	7.6	1,575 (745)	
	RCGA-48A1 (UGFD-097ZCM?)	42,500 (12.45)	31,500 (9.24)	11,000 (3.21)	11.40	12.90	7.6	1,590 (750)	
	RCGA-48A1 (UGFD-107ZCM?)	42,500 (12.45)	31,500 (9.24)	11,000 (3.21)	11.30	12.70	7.6	1,590 (750)	
	RCGA-48A1 (UGFD-127RCM?)	42,500 (12.45)	31,500 (9.24)	11,000 (3.21)	11.20	12.60	7.6	1,590 (750)	
	RCGA-48A1 (UGLH-0578MK?)	42,500 (12.45)	31,500 (9.24)	11,000 (3.21)	11.35	13.00	7.6	1,575 (745)	
	RCGA-48A1 (UGLH-0778RM?)	42,500 (12.45)	31,500 (9.24)	11,000 (3.21)	11.35	13.00	7.6	1,575 (745)	
	RCGA-48A1 (UGLH-1078RM?)	42,500 (12.45)	31,500 (9.24)	11,000 (3.21)	11.40	13.10	7.6	1,575 (745)	
	RCGA-48A1 (UGLH-1278RM?)	42,500 (12.45)	31,500 (9.24)	11,000 (3.21)	11.35	13.00	7.6	1,575 (745)	
	RCGA-48A1 (UGPH-0578MK?)	42,500 (12.45)	31,500 (9.24)	11,000 (3.21)	11.40	13.10	7.6	1,575 (745)	
	RCGA-48A1 (UGPH-0778RM?)	42,500 (12.45)	31,500 (9.24)	11,000 (3.21)	11.35	13.00	7.6	1,575 (745)	
	RCGA-48A1 (UGPH-1078RM?)	42,500 (12.45)	31,500 (9.24)	11,000 (3.21)	11.40	13.10	7.6	1,575 (745)	
050JA/ 051JA	RCGA-48A1 (UBEA-21)	44,000 (12.90)	32,000 (9.36)	12,000 (3.54)	11.35	12.50	7.6	1,600 (755)	
	RCGA-48A1 (UBHA-21)	44,000 (12.90)	32,000 (9.36)	12,000 (3.54)	11.35	12.50	7.6	1,600 (755)	
	RCGA-48A1 (UGFD-097ZCM?)	44,500 (13.05)	32,500 (9.54)	12,000 (3.54)	12.15	14.00	7.6	1,600 (755)	
	RCGA-48A1 (UGFD-107ZCM?)	44,000 (12.90)	32,000 (9.36)	12,000 (3.54)	11.70	13.20	7.6	1,600 (755)	
	RCGA-48A1 (UGFD-127RCM?)	43,500 (12.75)	31,500 (9.24)	12,000 (3.54)	11.60	13.10	7.6	1,600 (755)	
	RCGA-48A1 (UGLH-0578MK?)	43,500 (12.75)	31,500 (9.24)	12,000 (3.54)	11.50	13.00	7.6	1,600 (755)	
	RCGA-48A1 (UGLH-0778RM?)	44,000 (12.90)	32,000 (9.36)	12,000 (3.54)	11.65	13.40	7.6	1,600 (755)	
	RCGA-48A1 (UGLH-1078RM?)	44,000 (12.90)	32,000 (9.36)	12,000 (3.54)	11.90	13.70	7.6	1,600 (755)	
	RCGA-48A1 (UGLH-1278RM?)	44,000 (12.90)	32,000 (9.36)	12,000 (3.54)	11.65	13.40	7.6	1,600 (755)	
	RCGA-48A1 (UGPH-0578MK?)	44,000 (12.90)	32,000 (9.36)	12,000 (3.54)	11.90	13.70	7.6	1,600 (755)	
	RCGA-48A1 (UGPH-0778RM?)	44,000 (12.90)	32,000 (9.36)	12,000 (3.54)	11.90	13.70	7.6	1,600 (755)	
	RCGA-48A1 (UGPH-1078RM?)	44,000 (12.90)	32,000 (9.36)	12,000 (3.54)	11.90	13.70	7.6	1,600 (755)	

① Sound rating in accordance with ARI Standard 270.

② Highest sales volume tested combination required by D.O.E. test procedures.

[] Designates Metric Conversions

Electrical and Physical Data

Model Number UAIPA	ELECTRICAL							PHYSICAL					
	Phase Frequency (Hz) Voltage (Volts)	Rated Load Amperes (FLA)	Compressor Locked Rotor Amperes (LRA)	Fan Motor Full Load Amperes (FLA)	Minimum Circuit Amperage Amperes	Fuse or HACR Circuit Breaker Minimum Amperes	Maximum Amperes	Face Area Sq Ft [In ²]	No. Rows	CFM [L/s]	R22 Oz [g]	Weight	
024JA	1-60-208/230	10.3/10.3	56	.8	14/14	20/20	20/20	11.0 [1.022]	1	2110 [996]	72 [2041]	175 [79.4]	185 [83]
030JA	1-60-208/230	13.5/13.5	72.5	.8	18/18	25/25	30/30	15.0 [1.468]	1	2355 [1111]	104 [2948]	220 [99.8]	230 [104]
036JA	1-60-208/230	16.0/16.0	88	1.2	21/21	30/30	35/35	15.4 [1.431]	2	3190 [1506]	183 [5188]	255 [115.7]	265 [120]
042JA	1-60-208/230	17.9/17.9	104	1.2	24/24	30/30	40/40	15.4 [1.431]	2	3190 [1506]	157 [4451]	255 [115.7]	265 [120]
048JA/ 049JA	1-60-208/230	18.3/18.3	109	2.0	25/25	30/30	40/40	22.2 [2.062]	2	3500 [1652]	240 [6804]	300 [136.1]	323 [146]
060JA/ 061JA	1-60-208/230	23.7/23.7	129	2.0	32/32	40/40	50/50	22.2 [2.062]	2	3500 [1652]	262 [7428]	320 [145.1]	343 [155]

Unit Dimensions

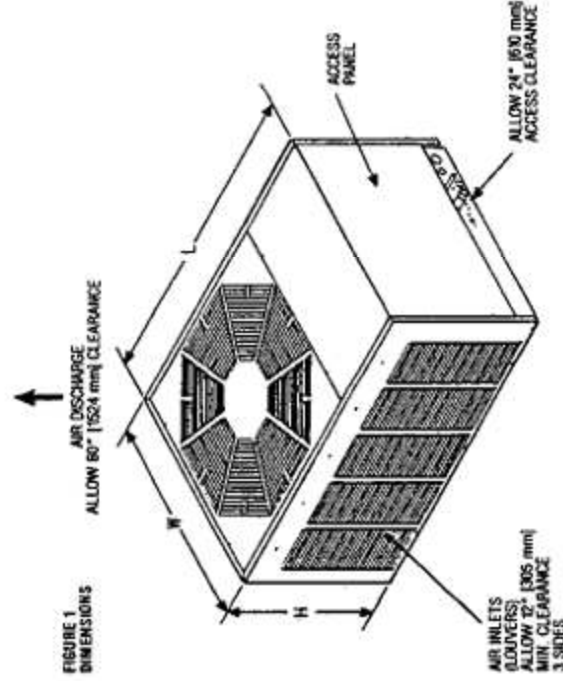
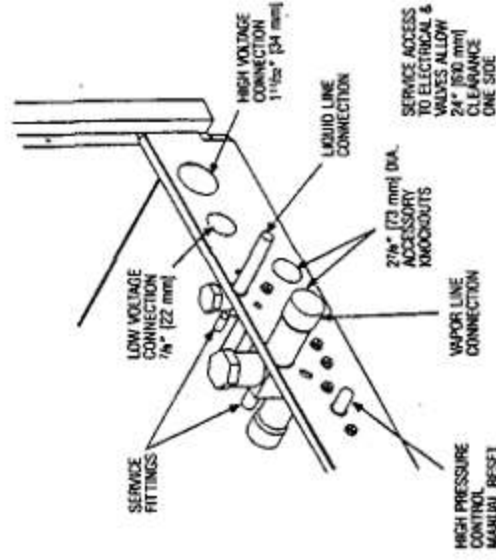


FIGURE 1
DIMENSIONS



[] Designates Metric Conversions

Model Numbers UAP	Height "H" (inches) [mm]	Length "L" (inches) [mm]	Width "W" (inches) [mm]
024	20 3/4 [527]	38 1/16 [903]	27 1/8 [689]
030/036/042	26 3/4 [539]	42 9/16 [1082]	31 [787]
048/049/060/061	34 3/4 [883]	43 [1092]	31 [787]

**GENERAL TERMS OF
LIMITED WARRANTY***

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

Condenser Coil leaks caused by

Compressor Five (5) Year
factory defects Ten (10) Year
Any Other Part One (1) Year

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

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

Condensing Unit Refrigerant Line Size Information

System Capacity Tons [kW]	Line Size [Inch (mm)]	Liquid Line Size Outdoor Unit Above Indoor Coil		Liquid Line Size Outdoor Unit Below Indoor Coil	
		Total Length - Feet (m)	Vertical Separation - Feet (m)	Total Length - Feet (m)	Vertical Separation - Feet (m)
2 [7.03]	1/4" [6.35]	25 [7.62]	50 [15.24]	25 [7.62]	50 [15.24]
	5/16" [7.94]	24 [7.32]	34 [10.36]	23 [7.01]	48 [14.63]
2.5 [8.79]	1/4" [6.35]	25 [7.62]	50 [15.24]	25 [7.62]	50 [15.24]
	5/16" [7.94]	19 [5.79]	33 [10.06]	23 [7.01]	48 [14.63]
3 [10.55]	3/8" [9.53]	25 [7.62]	50 [15.24]	25 [7.62]	50 [15.24]
	5/16" [7.94]	25 [7.62]	50 [15.24]	25 [7.62]	50 [15.24]
3.5 [12.30]	3/8" [9.53]	25 [7.62]	50 [15.24]	25 [7.62]	50 [15.24]
	5/16" [7.94]	25 [7.62]	50 [15.24]	25 [7.62]	50 [15.24]
4 [14.06]	3/8" [9.53]	25 [7.62]	50 [15.24]	25 [7.62]	50 [15.24]
	1/2" [12.7]	25 [7.62]	50 [15.24]	25 [7.62]	50 [15.24]
5 [17.58]	3/8" [9.53]	25 [7.62]	50 [15.24]	25 [7.62]	50 [15.24]
	1/2" [12.7]	25 [7.62]	50 [15.24]	25 [7.62]	50 [15.24]

*Standard line size

- NOTES:
- This chart is applicable for condensing units.
 - If the separation height exceeds the table values, reduce the indoor coil flow-check piston two sizes plus one size for each additional 10 feet (3.05 m).
Example 1: A 5 ton (17.58 kW) condensing unit with a total line length of 125 feet (38.10 m) with a vertical separation of 101 feet (30.78 m) utilizing a 1/2" (12.7 mm) liquid line. Table = 38 feet (11.58 m) maximum vertical separation for 125 feet (38.10 m) run. Separation exceeds table by (101 - 38) = 63 feet (19.20 m). Therefore, reduce the indoor coil flow-check piston 2 + 6 = 8 sizes (For example, a #89 piston would reduce to a #81 piston).
 - Do not exceed 120 feet (36.58 m) maximum vertical separation.
 - No changes are required for expansion valve coils.
 - Do not exceed table values for capillary tube coils.
 - Always use the smallest liquid line possible to minimize system charge.
 - Chart may be used to size horizontal runs.

NOTES:

- This chart is applicable for condensing units.
Example 1: A 2.5 ton (8.79 kW) condensing unit with a total line length of 75 feet (22.86 m) with a vertical separation of 30 feet (9.14 m) requires a liquid line size of 1/4" (6.35 mm).
- This chart may also be used to size horizontal runs.
Example 2: A 5 ton (17.58 kW) condensing unit may have a total horizontal run of 100 feet (30.48 m) if using the 3/8" (9.53 mm) liquid line. The total horizontal run if using 1/2" (12.7 mm) liquid line size will be 150 feet (45.72 m).
- Do not exceed vertical separation as indicated on the chart.
- Always use the smallest liquid line possible to minimize system charge.
- No changes required for flow-check pistons or expansion valve coils.

UAPA-		Suction Line Lengths Size versus Capacity Multiplier				
		024	030	036	042	048/049
10" Suction Line Connection Size	Optional	.98	1.00	1.00	1.00	.99
	Standard	1.00	1.01	1.01	1.01	1.00
Suction Line Run - Feet (m)	Optional	.96	.99	.98	.99	.97
	Standard	1.00	1.00	1.00	1.01	1.01
25' [7.62]	Optional	.93	.97	.96	.96	.95
	Standard	.98	.99	.99	.99	.99
50' [15.24]	Optional	.97	.99	.98	.99	.98
	Standard	.99	1.00	1.00	1.00	1.00
100' [30.48]	Optional	.93	.97	.96	.96	.95
	Standard	.98	.99	.99	.99	.99
150' [45.72]	Optional	.97	.99	.98	.99	.98
	Standard	.99	1.00	1.00	1.00	1.00

NOTES: Capacity Multiplier x Rated Capacity = Actual Capacity.

Additional compressor oil is not required for runs up to 150 feet (45.72 m).

Oil traps in vertical runs are not required for any height up to 125 feet (38.10 m). See Liquid Line chart for Vertical Separation Requirements and Limitations.

*Adapter to 1 1/8" (28.58 mm) factory supplied.

[] Designates Metric Conversions

GAS FURNACES



ACHIEVER® 90 PLUS® HIGH EFFICIENCY UPFLOW GAS FURNACES

The Ruud® 90 Plus High Efficiency line of upflow gas furnaces are designed for utility rooms, closets or alcoves. Because of the low-profile 34 inch height, the UGRA-model installed vertically can satisfy most applications that traditionally call for a horizontal furnace.

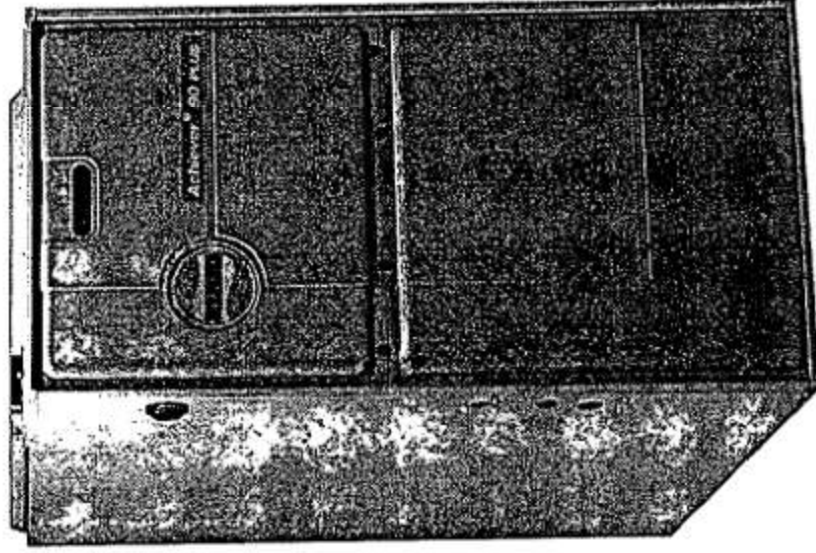
The design is certified by the American Gas Association and Canadian models are certified by the Canadian Gas Association.

Features

- Heat exchanger is constructed of all stainless steel for maximum corrosion resistance and thermal fatigue reliability.
- Low profile "34 inch" design is lighter and easier to handle and leaves room for optional accessories.
- Left or right side gas, electric, and condensate drainage connections on upflow models.
- Integrated control board manages all operational functions and provides hookups for humidifier and electronic air cleaner.
- An insulated blower compartment, a slow-opening gas valve and a specially designed inducer system make it one of the quietest furnaces on the market today.
- Pre-paint galvanized steel cabinet.
- Molded permanent filters.
- Optional indoor or outdoor combustion air. In addition, combustion air may be piped to either the top or side of the cabinet on all upflow models. A special molded fitting is provided to ease installation.
- Transformer and control fuse protection.
- Solid bottom is standard.
- Control board diagnostics.

A variety of cooling coils and plenums designed to use with the Achiever 90 Plus gas furnaces are available as optional accessories for air conditioning models.

[†]A.F.U.E. (Annual Fuel Utilization Efficiency) calculated in accordance with Department of Energy test procedures.



UGRA-SERIES

Models with Input Rates
from 45,000 to 120,000 BTU/HR
[13.19 to 35.17 kW]

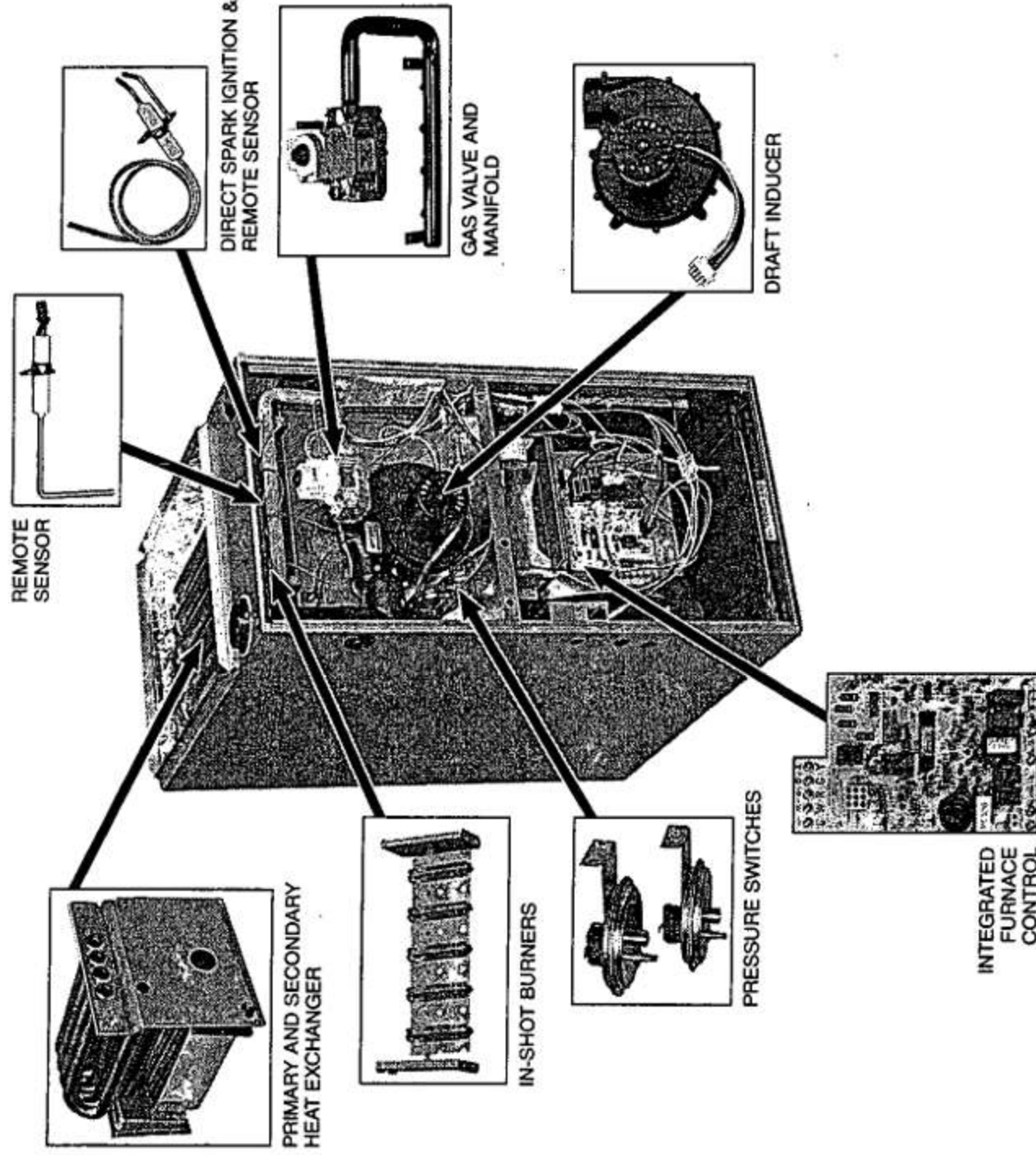
(U.S. & Canadian Models)

(All Models 90% A.F.U.E.[†] or Above)





ACHIEVER 90 PLUS HIGH EFFICIENCY UPFLOW GAS FURNACE



STANDARD EQUIPMENT

Completely assembled and wired; heat exchanger; primary: 409 and aluminized 409 stainless steel, secondary: 29-4C stainless steel; induced draft; pressure switches; redundant main gas control; blower compartment door safety switch; solid state time on/off blower control; limit controls; manual shut-off valve; 100% safety lock out; cool fan off delay; field selectable heat fan off delay; one hour automatic retry; power and self-test diagnostics; flame sense current diagnostics; electronic air cleaner connections; twinning (built-in) features; humidifier connections; humidifier on/off delay; low speed continuous fan option; single speed option for heating and cooling applications; pressure regulator for natural and L.P. (propane) gases; transformer; direct drive, multi-speed blower motor. (Please note: a thermostat is not included as standard equipment.)

OPTIONAL EQUIPMENT

Side and bottom filter racks; return air cabinet for all sizes. (See Page 4)
NOTE: Furnace is not listed for use with fuels other than natural or L.P. (propane) gas.

All models can be converted by a qualified distributor or local service dealer to use L.P. (propane) gas without changing burners. Factory approved kits must be used to convert from natural to L.P. (propane) gas and may be ordered as optional accessories from a parts distributor.

For L.P. (propane) operation, refer to Conversion Kit Index Form No. 92-21519-52 for U.S. models and Form No. 92-21519-53 for Canadian models.

WARNING
THIS FURNACE IS NOT APPROVED
OR RECOMMENDED
FOR USE IN MOBILE HOMES

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

PHYSICAL DATA AND SPECIFICATIONS—UPFLOW MODELS

U.S. and Canadian Models

MODEL NUMBERS	UGRA-04EMAE* UGRA-04NMAE*	UGRA-06EMAE* UGRA-06NMAE*	UGRA-07EMAE* UGRA-07NMAE*	UGRA-07EYBG* UGRA-07NYBG*	UGRA-08EJAJ* UGRA-09NJAJ*	UGRA-10EJAJ* UGRA-10NJAJ*	UGRA-12EJAJ* UGRA-12NJAJ*
INPUT-BTU/HR [kW] Ⓞ	45,000 [13.19]	60,000 [17.58]	75,000 [21.98]	75,000 [21.98]	90,000 [26.38]	105,000 [30.77]	120,000 [35.17]
HEATING CAPACITY BTU/HR [kW]	42,000 [12.31]	56,000 [16.41]	70,000 [20.51]	70,000 [20.51]	84,000 [24.62]	97,000 [28.43]	113,000 [33.12]
HIGH ALTITUDE INPUT [kW] Ⓞ	40,500 [11.87]	54,000 [15.83]	67,500 [19.78]	67,500 [19.78]	81,000 [23.74]	94,500 [27.70]	108,000 [31.65]
HIGH ALTITUDE OUTPUT CAPACITY [kW] Ⓞ	37,800 [11.07]	50,400 [14.77]	63,000 [18.46]	63,000 [18.46]	76,000 [22.27]	87,500 [25.64]	100,000 [29.31]
BLOWER (D x W) [mm]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	12 x 7 [305 x 178]	12 x 11 [305 x 279]	12 x 11 [305 x 279]	11 x 10 [279 x 254]
MOTOR H.P. [W]- SPEEDS-TYPE	1/2 [373]-4-PSC	1/2 [373]-4-PSC	1/2 [373]-4-PSC	3/4 [559]-4-PSC	3/4 [559]-4-PSC	3/4 [559]-4-PSC	3/4 [559]-4-PSC
MOTOR FULL LOAD AMPS	6.8	6.8	6.8	9.5	9.5	9.5	9.5
HEATING SPEED	MED-LO	MED-LO	MED-HI	MED-LO	MED-LO	MED-LO	MED-LO
COOLING SPEED	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
HEAT EXT. STATIC PRESSURE (IN. W.C.) [kPa]	.10 [.025]	.12 [.029]	.12 [.029]	.12 [.029]	.15 [.037]	.20 [.049]	.20 [.049]
RATED EXT. STATIC PRESSURE (IN. W.C.) [kPa]	.50 [.124]	.50 [.124]	.50 [.124]	.50 [.124]	.50 [.124]	.50 [.124]	.50 [.124]
HEATING CFM Ⓞ 2" [.049 kPa] W.C. E.S.P. [L/s]	885 [417]	845 [398]	1050 [495]	1275 [600]	1465 [691]	1445 [682]	1580 [745]
COOLING CFM Ⓞ 5" [.124 kPa] W.C. E.S.P. [L/s]	1195 [564]	1100 [519]	1110 [524]	1540 [725]	1910 [901]	1810 [854]	1900 [897]
TEMPERATURE RISE RANGE °F [°C]	30-60 [16.7-33.3]	40-70 [22.2-38.9]	45-75 [25-41.7]	40-70 [22.2-38.9]	35-65 [19.4-36.1]	50-80 [27.8-44.4]	50-80 [27.8-44.4]
RETURN AIR CABINETS (OPT.) RXGR- FILTER SIZE [mm]	C17B (2) 12" x 16" [305 x 406]	C17B (2) 12" x 16" [305 x 406]	C17B (2) 12" x 16" [305 x 406]	C21B (2) 12" x 20" [305 x 508]	C21B (2) 20" x 16" [508 x 406]	C21B (2) 20" x 16" [508 x 406]	C24B (2) 24" x 16" [609 x 406]
STANDARD, HIGH VELOCITY PERMANENT FILTER (IN.)	15 3/4 x 25 x 1	15 3/4 x 25 x 1	15 3/4 x 25 x 1	15 3/4 x 25 x 1	19 1/4 x 25 x 1	19 1/4 x 25 x 1	22 3/4 x 25 x 1
APPROX. SHIPPING WEIGHT (LBS.) [kg]	111 [50.3]	117 [53.1]	123 [55.8]	123 [55.8]	148 [67.1]	152 [68.9]	160 [72.6]
AirUE Ⓞ	94.3%	93.3%	92.8%	92.8%	93.5%	92.0%	94.2%
CALIFORNIA SEASONAL EFFICIENCY Ⓞ	86.7%	87.6%	87.9%	85.8%	87.3%	86.9%	89.6%

NOTES: All models are 115V, 60HZ, 1Ø. Gas connection size for all models is 1/2" [13 mm] N.P.T.

* Designates "S" for U.S., "B" for Canadian Models.

① See Conversion Kit Index Form No. 92-21519-52 (U.S.) or 92-21519-53 (Canadian) for high altitude derate.

② Canadian models only.

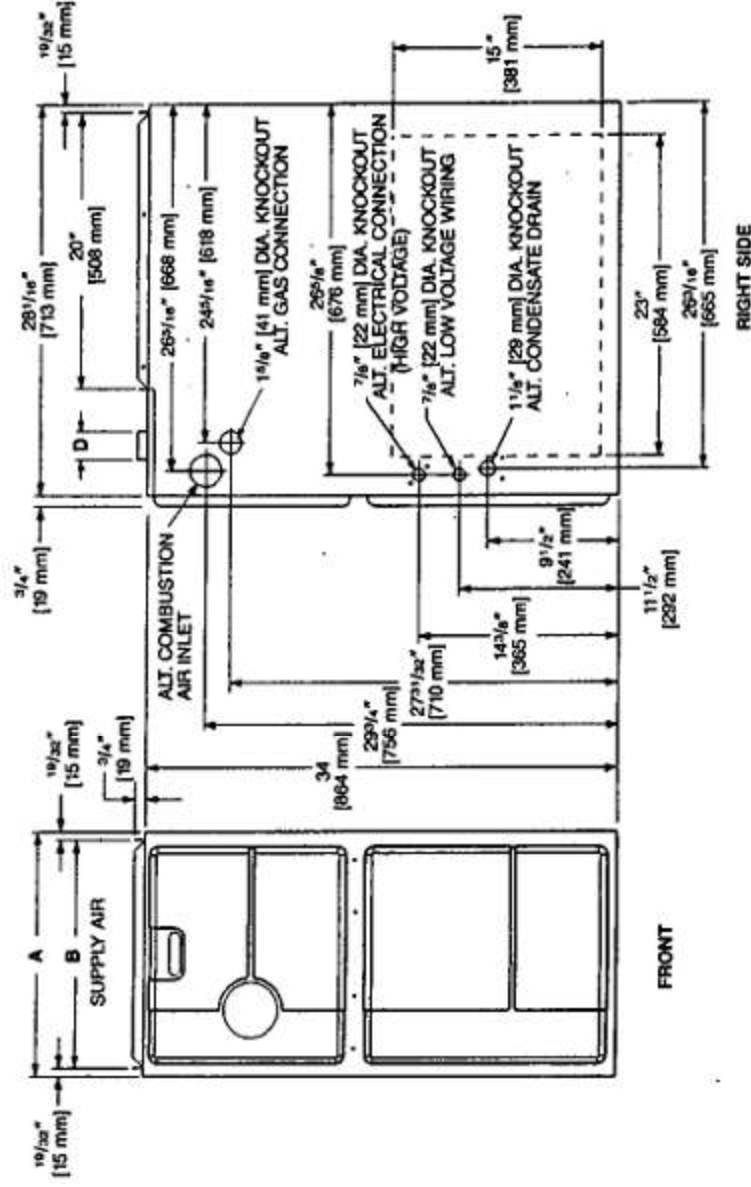
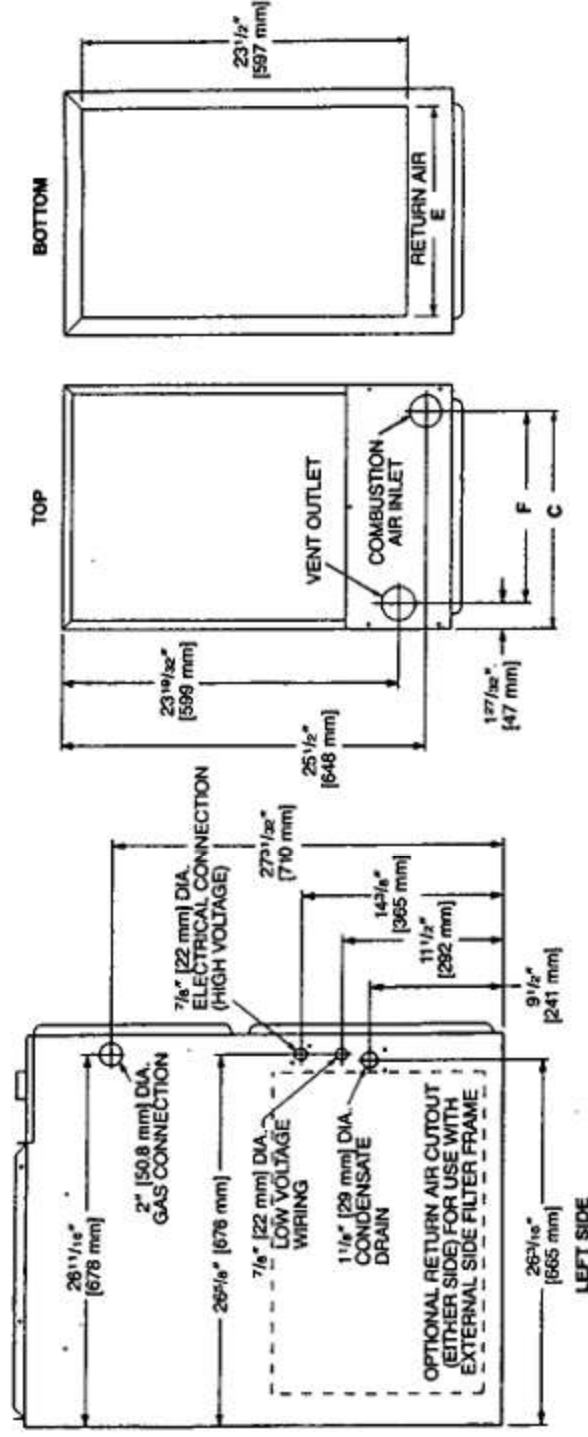
③ In accordance with D.O.E. test procedures.

MODEL IDENTIFICATION

U	G	R	A		07E	M	A	E	S
Roud	Gas Furnace	Upflow/ Condensing Gas Furnace	Design Series		Heating Input Designation	Blower Size	Variations	Heat/Cool Designation	Fuel Code
					Electric Ignition— NOx Models		A = Std. B = Wide Cabinet	E = 1100-1300 CFM [519-613.5 L/s] G = 1500-1700 CFM [707.9-802.3 L/s] J = 1900-2100 CFM [896.7-991.1 L/s]	\$ = U.S. Natural Gas B = Canadian Natural Gas
					Electric Ignition				
					Input BTU/Hr				
					04E	45,000 [13 kW]			
					06N	60,000 [17.6 kW]			
					07N	75,000 [22 kW]			
					09N	90,000 [26.4 kW]			
					10N	105,000 [30.7 kW]			
					12N	120,000 [35.2 kW]			

[] Designates Metric Conversions

UPFLOW MODELS



MODEL UGRA-	A	B	C	D	E	F	LEFT SIDE	MINIMUM CLEARANCE (IN.) [mm]					SHIP WGTS. [kg]
								RIGHT SIDE	BACK	TOP	FRONT	VENT	
04*M	17 1/2 [445]	16 11/32 [415]	15 5/8 [397]	2 [51]	15 [422]	13 25/32 [352]	0	0	0	1 [25]	2 [51]	0	111 [50]
06*M	17 1/2 [445]	16 11/32 [415]	15 5/8 [397]	2 [51]	15 [422]	13 25/32 [352]	0	0	0	1 [25]	2 [51]	0	117 [53]
07*M	17 1/2 [445]	16 11/32 [415]	15 5/8 [397]	2 [51]	15 [422]	13 25/32 [352]	0	0	0	1 [25]	2 [51]	0	123 [56]
07*Y	21 [533]	19 27/32 [504]	19 1/8 [487]	2 [51]	18 1/2 [511]	17 9/32 [441]	0	0	0	1 [25]	2 [51]	0	123 [56]
09*Z	21 [533]	19 27/32 [504]	19 1/8 [487]	2 [51]	18 1/2 [511]	17 9/32 [441]	0	0	0	1 [25]	2 [51]	0	148 [67]
10*Z	21 [533]	19 27/32 [504]	19 1/8 [487]	2 [51]	18 1/2 [511]	17 9/32 [441]	0	0	0	1 [25]	2 [51]	0	152 [69]
12*R	24 1/2 [622]	23 11/32 [593]	22 3/8 [575]	2 [51]	22 [600]	20 35/32 [530]	0	0	0	1 [25]	2 [51]	0	160 [73]

[] Designates Metric Conversions

CHIMNEY CERTIFICATION FOR REPLACEMENT OF
FUEL FIRED EQUIPMENT

BLOCK: 1422 LOT: 19 PERMIT #: _____

WORKSITE ADDRESS: 758 Tall Oaks Dr

CERTIFYING INDIVIDUAL (PRINT NAME)

Name: John Maines
Address _____
Street: 1415 Wyckoff Rd
State: NJ

COMPANY

Name: NJR Home Services
City: Wall
Zip: 07719
Phone# () 732-938-1260

CHECK THE APPROPRIATE BOX

TYPE OF REPLACEMENT

- () Oil to Gas Conversion
(☒) Gas appliance Replacement
() Oil to Oil Replacement
() Other (describe): _____

EXISTING VENT/CHIMNEY:

- () B label vent
() L label vent
() Masonry chimney-tile lined
() Flexible liner
(☒) Other (describe): 9070

PLEASE SIGN ONE OF THE FOLLOWING CERTIFICATION STATEMENTS
CERTIFICATION

FOR OIL TO GAS CONVERSIONS:

I hereby certify that the chimney/vent is free and clear of obstruction and is substantially clean of residue from its previous use serving an oil appliance. I further certify that the chimney/vent is appropriately lined and sized for the appliance being installed.

Signature _____ Date _____

OIL TO OIL OR GAS TO GAS REPLACEMENTS

I hereby certify that the existing chimney/vent is free and clear of obstruction. I further certify that the existing chimney/vent is appropriately lined and sized for the appliance being installed.

Signature John Maines Date 8/27/02

CERTIFICATION NOT SUBMITTED:

I choose not to submit a certification. I understand that I will be required to be present for the inspection to remove and reinstall the chimney vent connector.

Signature _____ Date _____

DIRECT VENT APPLIANCE:

NO CERTIFICATION REQUIRED:

Signature _____ Date _____

THIS FORM MUST BE RETURNED TO THE CODE ENFORCEMENT OFFICE PRIOR TO
FINAL INSPECTION.



BUILDING PERMITS

BLK: 1422 **LOT:** 19

App Code: CMB

Make payable to: BRICK TWP

Permit Fee: \$134

Mail to: 401 Chambers Bridge Rd, Brick NJ 08723

Customer Name: Alder, Mac

Address: 758 Tall Oaks Dr, Brick

Block: 1423 Lot: 14

Owner's Name: Mac Alden

Owner's Mailing Address: 758 Tall Oaks Dr.

Briar 08724

Phone: [REDACTED]

BUILDING

Contractor: _____
Address: _____
Phone#: _____
Lis #: _____
Federal Emp # or SSN: _____

Technical Data
Description of Work: _____

ELECTRICAL

Contractor: Dillon Electric
Address: 1011 Woodmill Dr
Cranbury NJ 08512
Phone#: 609-371-1272
Lis #: 7490
Federal Emp # or SSN: 158607405

Technical Data
Item _____ Quantity _____

Lighting Fixtures _____
Receptacles _____
Switches _____
Detectors _____
Light Poles _____
Motors w/ Fract. HP _____
Emergency & Exit Lights _____
Communication Points _____
Alarm Devices/FAC Panel _____
Total _____

Type of Work

New Building _____ Siding _____ sq ft
Addition _____ Fence _____
Alteration _____ Pool _____
Roofing _____ Demolition _____
Asbestos Abatement _____ Sign _____

Building Characteristics

Use Group Present: _____ Proposed: _____
No of Stories: _____
Height of Structure: _____
Area of the largest floor: _____
Area of New Building: _____
Volume of Structure: _____
Total Land Disturbed: _____
Cost of Alteration: _____
Cost of New Building: _____

Total Cost of Building Work: _____

Signature: _____
Please Print Name: _____

Pool _____
Spa/Hot Tub/Storable Pool _____ KW
Electric Range _____ KW
Oven/Surface Unit _____ KW
Electric Water Heater _____ KW
Electric Dryer _____ KW
Dishwasher _____ KW
Garbage Disposal _____ HP
A/C Unit - Central Air _____ KW
Space Heater/Air Handler _____ KW
Baseboard Heating _____ KW
Motors 1+ HP _____
Transformer/Generator _____ KW
Light Stander _____ AMP
Service _____ AMP
Subpanel _____ AMP
Motor Control Center _____ AMP
Sign/Outline Light _____ KW
Furnace _____
Steam Boiler _____
Other: Changout

Estimated Cost of Electrical Work: 85.1

Signature: Mac Alden
Please Print Name: Mac Alden

Lis #:
Federal Emp # or SSN 22-3609806

Lis #:
Federal Emp # or SSN 22-3609806

Technical Data

Fixtures
Water Closets
Urinals/Bidets
Bath Tub
Lavatory
Shower
Floor Drain
Sink
Dishwasher
Drinking Fountain
Washing Machine
Hose Bib
Gas Piping
Fuel Oil Piping
Water Heater
Steam Boiler
Hot Water Boiler
Sewer Pump
Interceptor/Separator
Backflow Preventer
Greasetrap
Water Cooled A/C or Refrig. Unit
Septic Tank Closure
Sewer Service Connection
Water Service Connection
Active Solar System
Auxiliary Meter
Sprinkler Heads
Sump Pump
Other: *replaced
furnace &
A/C system*

Quantity

Technical Data

Description of Work:

Heating Type: ☒ Gas ☐ Oil ☐ Electric ☐ Solar
Heating System is ☐ New ☒ Existing
Location of Furnace/Boiler:

Water Supply Source
Method of Valve Supervision
Local Alarm Supervision
Central Supervision:
Proprietary Supervision:

Flammable Storage Tanks capacity fuel
Combustible Storage Tanks capacity fuel
LPG Storage Tanks capacity fuel

Item Quantity

Wet Sprinkler Heads
Dry Sprinkler Heads
Total

Smoke Detectors
Heat Detectors
Total

Stand Pipes
Kitchen Hood Exhaust System

Pre-Engineered Systems:

CO2 Suppression
Halooh Suppression
Foam Suppression
Dry Chemical
Wet Chemical

Gas/ Oil Fired Appliances:

Number of gas/oil fired appliances

Furnace

Gas/Wood Fireplace
Gas Logs
Wood Burning Stove
Other: *A/C system*

Estimated Cost of Plumbing Work *\$30.-*

Signature: *John Mains*
Please Print Name: *John Mains*

CONTRACTOR'S SEAL

Estimated Cost of Fire Work *\$40.-*

Signature: *John Mains*
Print Name: *John Mains*