

BLOCK 1170.04 LOT 6 QUALIFICATION CODE C27-41 ADDRESS (SITE) 140 John St PERMIT NO. 04-2489

Township of Howell
Prevention Road, P.O. Box 580
Howell, New Jersey 07731



CONSTRUCTION PERMIT APPLICATION

MAIL 1/27

Application Completes: Sections I, II, III (optional), IV, VI, and VII

I. IDENTIFICATION

1. Proposed Work Site at: 140 John St
2. Name of Owner in Fee: CEMINARO Tel. [REDACTED]
Address: 140 John St Brick 08724
street municipality zip code
3. Ownership in Fee: Public ☐ Private ☒
4. Principal Contractor: Trinity Heating and Air Tel. (732) 180-3779
Address: 800 Rt. 9 South Freehold, New Jersey 07728
License No. OR, if new home, Builder Reg. No. _____ Exp. Date _____
Federal Employee No. 223292324 FAX: (_____) _____
5. Architect or Engineer _____ Tel. (_____) _____
Address _____
6. Responsible Person in Charge of Work: Trinity Heating and Air
Tel. (732) 180-3779 FAX (732) 180-6071

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$		
2. Electrical			
3. Plumbing			
4. Fire Protection			
5. Elevator Devices			
6. Subtotal	\$		
7. Less 20% for State Plan Review			
8. Subtotal	\$		
9. DCA Training Fee			
10. Subtotal			
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$		

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories _____
2. Height of Structure _____ ft.
3. Area — Largest Floor _____ sq. ft.
4. New Building Area _____ sq. ft.
5. Volume of New Structure _____ cu. ft.
6. Construction Classification _____
7. Total Land Area Disturbed _____ sq. ft.
8. Flood Hazard Zone _____
9. Base Flood Elevation _____ ft.
10. Wetlands yes _____
no _____
11. Max. Live Load _____
12. Max. Occupancy Load _____

(office use only)

II. PROPOSED WORK

- ☐ Minor Work
- ☐ New Building
- ☐ Addition
- ☐ Alteration
- ☒ Fire Protection
- ☒ Plumbing
- ☒ Electrical
- ☐ Elevator Devices
- ☐ Asbestos Abat. Subch. B
- ☐ Lead Hazard Abatement
- ☐ Demolition

TOTAL COSTS

3950

OPTIONAL (for office use only)

Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
JV			1-24-03	JB			
			1/29/03	JB			
			1-29-03	TO			

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

- ☐ Hotels (R-1)
- ☐ Multi-Family (R-2)
- ☐ Two-Family (R-3) BOCA
- ☐ Two-Family (R-4) CABO
- ☒ One-Family (R-3) BOCA
- ☐ One-Family (R-4) CABO

No. of dwelling units:

Before Construction _____

After Construction _____

Net Gain or Loss _____

B. NON-RESIDENTIAL

1. State Specific Use:

2. Use Group:

3. Change in Use Group, Indicate Former:

III. DO YOU WANT: (optional)

- ☐ Partial Releases
- ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

- ☐ Elevators/Escalators/Lifts/
Dumbwaiters/Moving Walks
- ☐ High Pressure Boilers
- ☐ Pressure Vessels
- ☐ Refrigeration Systems
- ☐ Cross-Connections/Backflow Preventers
- ☐ Hazardous Uses/Places of Assembly
- ☐ Sprinklers
- ☐ Smoke Control Systems in Open Wells
- ☐ Underground Storage Tanks

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 Trinity Heating and Air

Address 800 Rt. 9 South

Freehold, New Jersey 07728

Telephone (732) 780-3779

Signature Thomas Pollock

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



CONSTRUCTION PERMIT

Date Issued
Control #
Permit #

IDENTIFICATION Block 1170.04 Lot 6
Work Site Location 140 John St Contractor Trinity Heating + Air
BRICK Address 800 Rt 9 South Freehold,
Owner in Fee CERMINARO NJ 07728
Address SAME AS ABOVE Tel. (732) 780-3779
Tel. [REDACTED] Lic. No. or Bldrs. Reg. No. 223292324

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:

*install chimney liner
replace gas furnace & oven*

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 \$ 3950

Construction Official

Date

U.C.C. F170
(rev. 5/2K)

1 WHITE—INSPECTOR

2 CANARY—OFFICE

3 PINK—TAX ASSESSOR

4 GOLD—APPLICANT

(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.



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 _____

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



CONSTRUCTION PERMIT

Date Issued
Control #
Permit #

IDENTIFICATION Block 1170.04 Lot 6
Work Site Location 140 John St Contractor T. J. ...
BRICK Address 100 W. 1st St. ...
Owner in Fee CERMINARO NJ 07128
Address SAME AS ABOVE Tel. (732) 321-3779
Tel. [REDACTED] Lic. No. or Bldrs. Reg. No. 223292324

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:

*Install chimney liner
replace gas furnace & air*

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 \$ 3950

Construction Official

Date

U.C.C. F170
(rev. 5/2K)

1 WHITE—INSPECTOR

2 CANARY—OFFICE

3 PINK—TAX ASSESSOR

4 GOLD—APPLICANT

(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.

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

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



CONSTRUCTION PERMIT

Date Issued
Control #
Permit #

IDENTIFICATION Block 117-04 Lot 6
Work Site Location 117-04 Contractor 117-04
Address 117-04
Owner in Fee 117-04
Address 117-04
Tel. (117-04)
Lic. No. or Bldrs. Reg. No. 117-04

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:

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 \$ 117-04

Construction Official

Date

U.C.C. F170
(rev. 5/2K)

1 WHITE—INSPECTOR

2 CANARY—OFFICE

3 PINK—TAX ASSESSOR

4 GOLD—APPLICANT

(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.

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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.

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Date Issued 06/17/2004
Control #
Permit # 04-2489

UNION NEW JERSEY
CONSTRUCTION
PERMITS

IDENTIFICATION Block 1170.04 Lot 6

Qual

Work Site Location 140 JOHN ST
FURNACE AND A/C
Owner in Fee CERNIARO
Address SAME
BRIEF AT
Telephone

Contractor TRINITY HEATING & AIRE
Address 800 ROUTE 9 SOUTH
FREEHOLD, NJ 07728-
Telephone (732) 780-3779
Lic. No. or Bldg. Reg. No.
Federal Emp. No. 22-3222224

Is hereby granted permission to perform the following work:
☐ BUILDING ☐ LEAD HAZARD ABATEMENT
☐ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT ☐ OTHER
(Subchapter 8 only)
DESCRIPTION OF WORK:
A/C AND FURNACE

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 \$ 3,350

Construction Official

06/17/2004

Date

U.C.C. F170 (REV. 3/96) NJ UCCARS 5.24E

PAYMENTS (Office Use Only)
Building 0
Electrical 53
Plumbing 35
Fire Protection 46
Elevator Devices 0
Other
DCA State Permit Fee 4
Cert. of Occupancy 0
Other
Total 138
Check No. 21028
Cash
Collected By NJR

06/17/04 12:26PM 00155840346
XX02 SERV.002
#2489
ELECTRIC \$53.00
PLUMBING \$35.00
FIRE \$46.00
DCA \$4.00
CHECK \$138.00

BRICK
Plumbing, Heating, Air Conditioning
1170.04
1170.04



**FIRE
SUBCODE
TECHNICAL SECTION**

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

Block 1170.04 Lot 6

Work Site Location 140 John Street

Owner in Fee BRICK NEW JERSEY 08734

Address SOME AS ABOVE

Address SOME AS ABOVE

Address SOME AS ABOVE

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Date Received
Date Issued
Control #
Permit #

6-17-04
04-2489-2159

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

Replace gas furnace

Water Supply Source

Method of Alarm/Suppression System Supervision

Storage Tanks

Type: ☐ Flammable Liquid ☐ Combustible Liquid

☐ LPG ☐ LNG Capacity Fuel

Alarm Systems ☐ 110V Interconnected ☐ System

Alarm Devices (i.e., smoke, heat, pulls, water/flow)

Supervisory Devices (i.e., tamper, low/high air)

Signaling Devices (i.e., horn/strobes, bells)

Other Devices

TOTAL

Suppression Systems

Fire Pump GPM Type

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO₂ Suppression

Foam Suppression

Halon Suppression

Other

Kitchen Hood Exhaust System

Smoke Control System

Gas or Oil Fired Appliances

Other Chimney Liner

FEE (Office Use Only)

Administrative Surcharge \$

Minimum Fee \$

DCA Training Fee \$

TOTAL FEE \$

Township of Howell
Pavement Subcode
Howell, New Jersey 07734



FIRE
SUBCODE
TECHNICAL SECTION

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

Block 1170.04 Lot 6

Work Site Location 140 WIND STREET

Owner In Fee 140 WIND STREET

Address 140 WIND STREET

Tele. (732) 780-6671

Contractor TUDY HEATING AND AIR

Address 800 RIVERVIEW

Tele. (732) 780-6671

Fax (732) 780-6671

Lic. No. 1232173324

Federal Emp. No. 1232173324

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present Proposed

Const. Class Present Proposed

Heating Systems [] New [] Existing [] HVAC

Type: [] Gas [] Oil [] Electric [] Solar

Location: [] Other

Total Cost of Fire Protection Work \$ 452

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 Thomas Nelson



Date Received
Date Issued
Control #
Permit #

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

Water Supply Source

Method of Alarm/Suppression System Supervision

Storage Tanks

Type: [] Flammable Liquid [] Combustible Liquid

[] LPG [] LNG Capacity Fuel

Alarm Systems [] 110V Interconnected NUMBER

Alarm Devices (i.e., smoke, heat, pulls, water/flow)

Supervisory Devices (i.e., tamper, low/high air)

Signaling Devices (i.e., horn/strobes, bells)

Other Devices

TOTAL

Suppression Systems

Fire Pump GPM Type

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO₂ Suppression

Foam Suppression

Halon Suppression

FEE (Office Use Only)

Administrative Surcharge \$

Minimum Fee \$

DCA Training Fee \$

TOTAL FEE \$

Township of Howell
Preventorium Road - P.O. Box 680
Howell, New Jersey 07731



**PLUMBING
SUBCODE
TECHNICAL SECTION**



Date Received
Date Issued
Control #
Permit #

6-19-04
04-2489

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

Block 1170, 04 Lot 6

Work Site Location 140 John Street
BRICK 08724

Owner in Fee CERRIMANO

Address 3000 75 ABOVE

Contractor JOSEPH MARINO

Address 48 SAGE ROAD
THOMAS RIVER NJ 08753

Tele. (732) 780 3779 Fax (732) 780-6671

Lic. No. 62109

Federal Emp. No. _____

B. PLUMBING CHARACTERISTICS

Use Group Present Proposed _____

Building Sewer Size _____ Public Sewer _____ Private Septic _____

Water Service Size _____ Public Water _____ Private Well _____

Est. Cost of Plumbing Work \$ 1900

JOB SUMMARY (Office Use Only)

PLAN REVIEW _____

Joint Plan Review Required: _____

☐ Building ☐ Electric
☐ Fire ☐ Elevator
☐ Plumbing Plans Approved
Date: 4/29/03
Approved by: [Signature]

SUBCODE APPROVAL
☐ CO ☐ CCO ☐ CA
Date: _____
Approved by: _____

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's Seal
[Signature]

☐ Licensed Plumbing Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA (List of all fixtures.)

NO. _____

FIXTURE/EQUIPMENT _____

Water Closet _____

Urinal/Bidet _____

Bath Tub _____

Lavatory _____

Shower _____

Floor Drain _____

Sink _____

Dishwasher _____

Drinking Fountain _____

Washing Machine _____

Hose Bibb _____

Water Heater _____

Fuel Oil Piping _____

Gas Piping _____

Steam Boiler _____

Hot Water Boiler _____

Sewer Pump _____

Interceptor/Separator _____

Backflow Preventer _____

Greasetrap _____

Sewer Connection _____

	FEE (Office Use Only)
Administrative Surcharge	\$ _____
Minimum Fee	\$ _____
DCA Training Fee	\$ _____
TOTAL FEE	\$ _____

Township of Howell
Preventorium Road - P.O. Box 580,
Howell, New Jersey 07731



PLUMBING
SUBCODE
TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #
6-17-04
04-2489

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

Block 1170.04 Lot 6
Work Site Location 143 John Street
Owner in Fee Cherminans
Address Stone or above
Telephone 609-211-1111
Contractor Cherminans
Address 143 John Street
Tele. (772) 241-2771 Fax (772) 241-6671
Lic. No. 621108
Federal Emp. No. _____
B. PLUMBING CHARACTERISTICS
Use Group Present Proposed _____
Building Sewer Size _____ Public Sewer _____
Water Service Size _____ Public Water _____ Private Septic _____
Est. Cost of Plumbing Work \$ 1900 Private Well _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW
☒ No Plans Required
Joint Plan Review Required:
☐ Building ☐ Electric
☐ Fire ☐ Elevator
☐ Plumbing Plans Approved
Date: 6/13/04
Approved by: [Signature]
SUBCODE APPROVAL
☐ CO ☐ CCO ☐ CA
Date: _____
Approved by: _____

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's Seal

☐ Licensed Plumbing Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA (List of all fixtures.)

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
	Water Closet	\$ _____
	Urinal/Bidet	\$ _____
	Bath Tub	\$ _____
	Lavatory	\$ _____
	Shower	\$ _____
	Floor Drain	\$ _____
	Sink	\$ _____
	Dishwasher	\$ _____
	Drinking Fountain	\$ _____
	Washing Machine	\$ _____
	Hose Bibb	\$ _____
	Water Heater	\$ _____
	Fuel Oil Piping	\$ _____
	Gas Piping	\$ _____
	Steam Boiler	\$ _____
	Hot Water Boiler	\$ _____
	Sewer Pump	\$ _____
	Interceptor/Separator	\$ _____
	Backflow Preventer	\$ _____
	Greasetrap	\$ _____
	Sewer Connection	\$ _____
	Water Service Connection	\$ _____
	Stacks	\$ _____
	Other <u>Central Air</u>	\$ _____
	Other _____	\$ _____
	Other _____	\$ _____
	Administrative Surcharge	\$ _____
	Minimum Fee	\$ _____
	DCA Training Fee	\$ _____
	TOTAL FEE	\$ _____

Brick

Township of Howell
Prevention Bureau
Howell, New Jersey 07731



ELECTRICAL
SUBCODE
TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

6-17-04
04-2489

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

Block 1170.04 Lot 6
Work Site Location 140 John Street
Brick NJ 08724
Owner in Fee/Occupant Permanco
Address Same as above
Tele. [REDACTED]
Contractor Triumph Heating and Air
Address 800 R 9 South
Telephone Freehold, New Jersey 07728 Fax (732) 780-6671
Lic. No. 35638
Federal Emp. No. 22 3232324
B. ELECTRICAL CHARACTERISTICS
Use Group Present Proposed
☐ Pole/Pad # ☐ Temporary ☐ Other
Building Occupied as Utility Co.
Est. Cost of Elec. Work \$ 100

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)
☐ No Plans Required			Type:	Failure Failure Approval Initial
Joint Plan Review Required:			Rough	
☐ Building ☐ Plumbing			Temp. Serv.	
☐ Fire ☐ Elevator			Constr. Serv.	
☐ Elec. Plans Approved			TCO	
Date: <u>1 29 03</u>			Other	
Approved by: <u>Thomas Allen</u>			Service	
			Final	
SUBCODE APPROVAL			Temp. Cut-In-Card Date Issued	
☐ CO ☐ CCO ☐ CA			Final Cut-In-Card Date Issued	
Date: <u> </u>				
Approved by: <u> </u>				

C. CERTIFICATION IN LIEU OF OATH

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

Applicant's Signature/Contractor's Seal and Signature

☒ Licensed Electrical Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA

QTY	SIZE	ITEMS
		Lighting Fixtures
		Receptacles
		Switches
		Detectors
		Light Poles
		Motors—Fract. HP
		Emergency & Exit Lights
		Communications Points
		Alarm Devices/F.A.C. Panel
		TOTAL NUMBERS
		Pool Permit/with UV Lights
		Storable Pool/Spa/Hot Tub
		KW Elec. Range/Receptacle
		KW Oven/Surface Unit
		KW Elec. Water Heater
		KW Elec. Dryer/Receptacle
		KW Dishwasher
		HP Garbage Disposal
		KW Central A/C Unit
		HP/KW Space Heater/Air Handler
		KW Baseboard Heat
		HP Motors 1/+ HP
		KW Transformer/Generator
		AMP Service
		AMP Subpanels
		AMP Motor Control Center
		KW Elec. Sign/Outline Light
		<u>fuenaac</u>

Administrative Surcharge	\$
Minimum Fee	\$
DCA Training Fee	\$
TOTAL FEE	\$

U.C.C. F-120
(rev. 3/96)

1 White = Inspector Copy
2 Canary = Office Copy
3 Pink = Office Copy
4 Gold = Applicant Copy



CHIMNEY CERTIFICATION
FOR REPLACEMENT OF FUEL FIRED EQUIPMENT

BLOCK 1170.04 LOT 6 PERMIT # _____

WORK SITE ADDRESS 140 John Street Brick, New Jersey 08724

Applicant Tony Cerminaro
Certifying Individual _____ Company Trinity Heating and Air
Address 800 Rt. 9 South Freehold New Jersey 07728
City State Zip Code

Check the Appropriate Box

Type of Replacement:

- ☐ Oil to Gas Conversion
☒ Gas Appliance Replacement
☐ Oil to Oil Replacement
☐ Other _____

Existing Vent/Chimney:

- ☐ B Label Vent
☐ L Label Vent
☐ Masonry Chimney — Tile Lined
☐ Flexible Liner
☐ Power Vent/Exhauster
☒ Other Terracotta (installing chimney Liner)

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

Date

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.

CONDENSING UNITS

CONTRACTOR
DOUBLE J. CONSTRUCTION CO., INC.

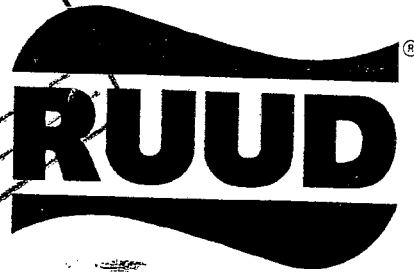
Project: *SE 4000*

Location: _____
DATE: _____

Approved _____

Approved with corrections as noted on submittal data and/or
change orders (S).

SIGNATURE _____
TITLE _____



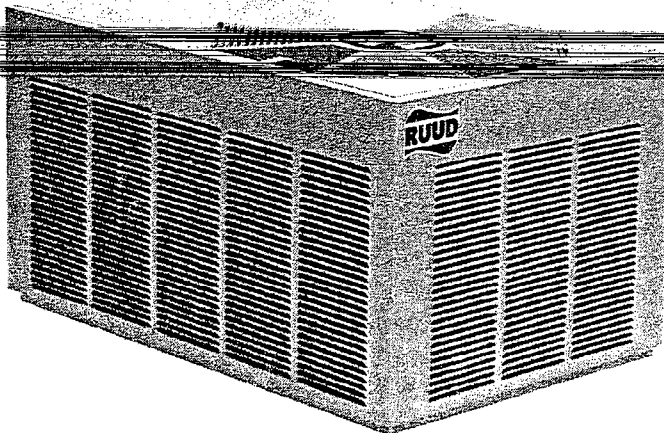
ACHIEVER 10® CONDENSING UNITS

Seven Models

Cooling Capacities
17,000 to 56,500 BTU/HR
[4.98 kW] to [16.56 kW]

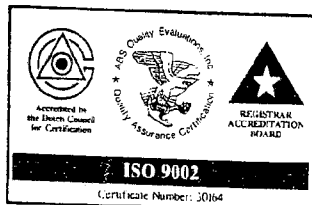
UAKA- SERIES

Nominal Sizes 1½ to 5 Tons
[5.28 kW] to [17.58 kW]



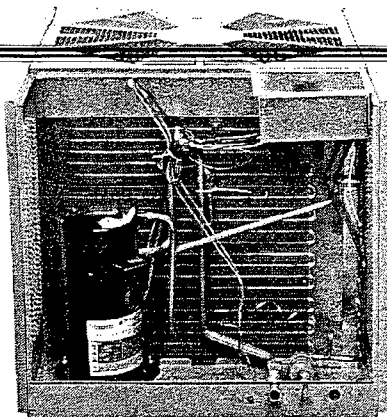
The Ruud® Achiever 10 UAKA- Condensing Unit was designed with performance in mind. These units offer comfort, energy conservation and dependability for single, multi-family and light commercial applications.

- 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.

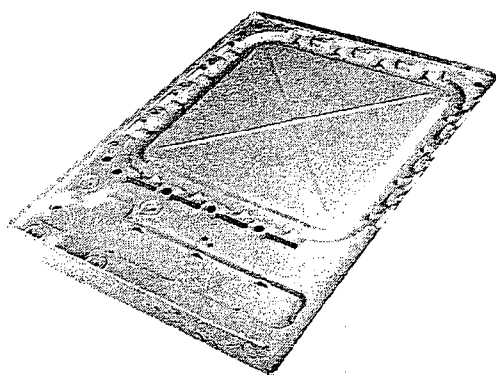


CERTIFIED UNDER THE
A.R.I. CERTIFICATION
PROGRAM—A.R.I.
STANDARD 210*

*575 VOLT MODELS ARE NOT
A.R.I. CERTIFIED



All controls and compressor are accessible for servicing by removal of the service panel. (Unit pictured with field installed high and low pressure controls and filter drier.)



Drawn Painted Base Pan

Engineering Features

UAKA- Series Condensing Units

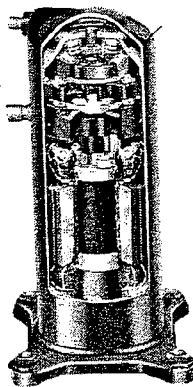
1. Compressor is hermetically sealed and incorporates internal high temperature motor overload protection, and durable insulation on the motor windings. It is externally mounted on rubber grommets to reduce vibration and noise.
2. All refrigerant connections are on the exterior of the unit, located close to the ground for neat appearing installations.
3. Cabinet is constructed of powder painted galvanized steel. The full wraparound louvered grille protects the coil from damage.
4. Copper Tube—Aluminum Fin coils are used on all models.
5. The control box is located in the top corner of the cabinet providing for easy access through a service panel.
6. Service valves are standard on all models.
7. Power and control wiring are kept separate.
8. Every unit is factory charged and tested.
9. Separate compressor compartment for easy service access.
10. Drawn, painted base pan for extra corrosion resistance and sound reduction.

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) (3-phase models only).
- **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 65°F [18°C].
- **High Pressure Control** (Model No. RXAB-A03)
- **Low Pressure Control**—Deactivates system if refrigerant loss occurs. (Model No. RXAC-A03)
- **Crankcase Heater**—Available through the Universal Parts® Department.
- **Start Kit**—Available through the Universal Parts® Department.

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 UAKA- Condensing unit to perform more efficiently.



[] Designates Metric Conversions

Model Number Identification

<u>U</u>	<u>A</u>	<u>K</u>	<u>A</u>	<u>—</u>	<u>024</u>	<u>J</u>	<u>A</u>	<u>Z</u>
RUUD	CONDENSING UNIT	TYPE-K STANDARD EFFICIENCY	DESIGN SERIES		NOMINAL COOLING CAPACITY	ELECTRICAL DESIGNATION	VARIATIONS	Z = COPELAND ZR COMPLIANT SCROLL COMPRESSOR
					018 = 18,000 BTU/HR [5.28 kW]	J = 208/230-1-60	A = STANDARD MODEL	S = SWEAT CONNECTION
					024 = 24,000 BTU/HR [7.03 kW]	C = 208/230-3-60		
					030 = 30,000 BTU/HR [8.79 kW]	D = 460-3-60		
					036/037 = 36,000 BTU/HR [10.55 kW]	Y = 575-3-60		
					042 = 42,000 BTU/HR [12.31 kW]			
					048 = 48,000 BTU/HR [14.07 kW]			
					060 = 60,000 BTU/HR [17.58 kW]			

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

Performance Data @ ARI Standard Conditions—Cooling

Model Numbers		80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					ARI	Indoor
Outdoor Unit UAKA-	Indoor Coil and/or Air Handler	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER	Sound Rating ①	CFM [L/s]
018JAZ	RCBA-A021 (UHQA-08)	17,600 [5.16]	12,300 [3.60]	5,300 [1.56]	9.80	10.00	7.2	600 [285]
	RCBA-2453 ②	17,000 [4.98]	12,000 [3.51]	5,000 [1.47]	9.50	10.00	7.2	600 [285]
	RCBA-2453 (UBEA-14)	17,200 [5.04]	12,200 [3.57]	5,000 [1.47]	9.65	10.10	7.2	600 [285]
	RCBA-2453 (UBHA-14)	17,200 [5.04]	12,200 [3.57]	5,000 [1.47]	9.65	10.10	7.2	600 [285]
	RCBA-2453 + RXMD-C02	17,000 [4.98]	12,000 [3.51]	5,000 [1.47]	9.50	10.10	7.2	600 [285]
	RCBA-2453 + RXMD-C02 (UBEA-14)	17,200 [5.04]	12,200 [3.57]	5,000 [1.47]	9.65	10.20	7.2	600 [285]
	RCBA-2453 + RXMD-C02 (UBHA-14)	17,200 [5.04]	12,200 [3.57]	5,000 [1.47]	9.65	10.20	7.2	600 [285]
	RCGA-24A1	16,900 [4.95]	11,800 [3.45]	5,100 [1.50]	9.35	10.00	7.2	600 [285]
	RCGA-24A1 (UBEA-14)	17,000 [4.98]	11,900 [3.48]	5,100 [1.50]	9.50	10.20	7.2	600 [285]
	RCGA-24A1 (UBHA-14)	17,000 [4.98]	11,900 [3.48]	5,100 [1.50]	9.50	10.20	7.2	600 [285]
	RCHA-24A1	16,900 [4.95]	11,800 [3.45]	5,100 [1.50]	9.35	10.00	7.2	600 [285]
	RCHA-24A1 (UBEA-14)	17,000 [4.98]	11,900 [3.48]	5,100 [1.50]	9.50	10.20	7.2	600 [285]
	RCHA-24A1 (UBHA-14)	17,000 [4.98]	11,900 [3.48]	5,100 [1.50]	9.50	10.20	7.2	600 [285]
	RCLB-A024	18,100 [5.31]	12,900 [3.78]	5,200 [1.53]	9.60	10.00	7.2	600 [285]
	RCTB-A018	17,100 [5.01]	11,800 [3.45]	5,300 [1.56]	9.00	10.00	7.2	600 [285]
	RCTB-A018 (UHQA-08)	17,400 [5.10]	12,100 [3.54]	5,300 [1.56]	9.60	10.35	7.2	600 [285]
	RCTH-A024	17,500 [5.13]	12,600 [3.69]	4,900 [1.44]	9.50	10.30	7.2	600 [285]
024JAZ	RCBA-2457 ②	22,800 [6.66]	16,500 [4.83]	6,300 [1.83]	9.05	10.00	7.2	800 [380]
	RCBA-2457 (UBEA-14)	23,000 [6.72]	16,700 [4.89]	6,300 [1.83]	9.25	10.15	7.2	800 [380]
	RCBA-2457 (UBHA-14)	23,000 [6.72]	16,700 [4.89]	6,300 [1.83]	9.25	10.15	7.2	800 [380]
	RCBA-2457 + RXMD-C02	22,800 [6.66]	16,500 [4.83]	6,300 [1.83]	9.05	10.10	7.2	800 [380]
	RCBA-2457 + RXMD-C02 (UBEA-14)	23,000 [6.72]	16,700 [4.89]	6,300 [1.83]	9.25	10.25	7.2	800 [380]
	RCBA-2457 + RXMD-C02 (UBHA-14)	23,000 [6.72]	16,700 [4.89]	6,300 [1.83]	9.25	10.25	7.2	800 [380]
	RCGA-24A2	22,600 [6.60]	16,000 [4.68]	6,600 [1.92]	8.75	10.00	7.2	800 [380]
	RCGA-24A2 (UBEA-14)	22,800 [6.66]	16,200 [4.74]	6,600 [1.92]	8.90	10.15	7.2	800 [380]
	RCGA-24A2 (UBHA-14)	22,800 [6.66]	16,200 [4.74]	6,600 [1.92]	8.90	10.15	7.2	800 [380]
	RCHA-24A2	22,600 [6.60]	16,000 [4.68]	6,600 [1.92]	8.75	10.00	7.2	800 [380]
	RCHA-24A2 (UBEA-14)	22,800 [6.66]	16,200 [4.74]	6,600 [1.92]	8.90	10.15	7.2	800 [380]
	RCHA-24A2 (UBHA-14)	22,800 [6.66]	16,200 [4.74]	6,600 [1.92]	8.90	10.15	7.2	800 [380]
	RCLB-A024	23,400 [6.84]	17,100 [5.01]	6,300 [1.83]	9.15	10.00	7.2	800 [380]
	RCLB-A024 (UHQA-08)	23,800 [6.96]	17,500 [5.13]	6,300 [1.83]	9.70	10.15	7.2	800 [380]
	RCTB-A024	23,000 [6.72]	16,500 [4.83]	6,500 [1.89]	8.85	10.00	7.2	800 [380]
	RCTB-A024 (UHQA-08)	23,400 [6.84]	16,900 [4.95]	6,500 [1.89]	9.25	10.15	7.2	800 [380]
	RCTH-A024	23,200 [6.78]	16,800 [4.92]	6,400 [1.86]	8.90	10.00	7.2	800 [380]
030JAZ	RCAH-Z037	27,600 [8.10]	20,200 [5.94]	7,400 [2.16]	9.45	10.00	7.4	1,000 [470]
	RCBA-3765 ②	28,200 [8.28]	21,200 [6.24]	7,000 [2.04]	9.60	10.00	7.4	1,000 [470]
	RCBA-3765 (UBEA-17)	28,400 [8.34]	21,400 [6.30]	7,000 [2.04]	9.85	10.20	7.4	1,000 [470]
	RCBA-3765 + RXMD-C02	28,200 [8.28]	21,200 [6.24]	7,000 [2.04]	9.60	10.10	7.4	1,000 [470]
	RCBA-3765 + RXMD-C02 (UBEA-17)	28,400 [8.34]	21,400 [6.30]	7,000 [2.04]	9.85	10.30	7.4	1,000 [470]
	RCBA-3765 + RXMD-C02 (UBHA-17)	28,400 [8.34]	21,400 [6.30]	7,000 [2.04]	9.85	10.30	7.4	1,000 [470]
	RCGA-37A1	28,200 [8.28]	20,600 [6.06]	7,600 [2.22]	9.55	10.00	7.4	1,000 [470]
	RCGA-37A1 (UBEA-17)	28,400 [8.34]	20,800 [6.12]	7,600 [2.22]	9.80	10.20	7.4	1,000 [470]
	RCGA-37A1 (UBHA-17)	28,400 [8.34]	20,800 [6.12]	7,600 [2.22]	9.80	10.20	7.4	1,000 [470]
	RCHA-36A1	28,200 [8.28]	20,600 [6.06]	7,600 [2.22]	9.55	10.00	7.4	1,000 [470]
	RCHA-36A1 (UBEA-17)	28,800 [8.46]	21,200 [6.24]	7,600 [2.22]	9.80	10.20	7.4	1,000 [470]
	RCHA-36A1 (UBHA-17)	28,800 [8.46]	21,200 [6.24]	7,600 [2.22]	9.80	10.20	7.4	1,000 [470]
	RCLB-A030	29,000 [8.52]	22,200 [6.48]	6,800 [2.04]	9.75	10.00	7.4	1,000 [470]
	RCLB-A030 (UHQA-13)	29,200 [8.58]	22,400 [6.54]	6,800 [2.04]	10.00	10.30	7.4	1,000 [470]
	RCTB-A036	29,000 [8.52]	21,800 [6.36]	7,200 [2.16]	9.70	10.20	7.4	1,000 [470]
	RCTB-A036 (UHQA-13)	29,200 [8.58]	22,000 [6.42]	7,200 [2.16]	9.95	10.50	7.4	1,000 [470]
	RCTH-A036	29,000 [8.52]	21,800 [6.36]	7,200 [2.16]	9.70	10.20	7.4	1,000 [470]
036CAS/DAS	RCBA-3673 ②	35,000 [10.26]	27,000 [7.91]	8,000 [2.34]	9.40	10.00	7.6	1,200 [565]
	RCBA-3673 (UBEA-17)	35,400 [10.37]	27,400 [8.03]	8,000 [2.34]	9.75	10.30	7.6	1,200 [565]
	RCBA-3673 (UBHA-17)	35,400 [10.37]	27,400 [8.03]	8,000 [2.34]	9.75	10.30	7.6	1,200 [565]
	RCBA-3673 + RXMD-C02	35,000 [10.26]	27,000 [7.91]	8,000 [2.34]	9.40	10.10	7.6	1,200 [565]
	RCBA-3673 + RXMD-C02 (UBEA-17)	35,400 [10.37]	27,400 [8.03]	8,000 [2.34]	9.75	10.40	7.6	1,200 [565]
	RCBA-3673 + RXMD-C02 (UBHA-17)	35,400 [10.37]	27,400 [8.03]	8,000 [2.34]	9.75	10.40	7.6	1,200 [565]
	RCGA-36A2	34,600 [10.14]	25,495 [7.47]	9,105 [2.67]	9.35	10.00	7.6	1,200 [565]
	RCGA-36A2 (UBEA-17)	35,000 [10.26]	25,895 [7.59]	9,105 [2.67]	9.70	10.30	7.6	1,200 [565]
	RCGA-36A2 (UBHA-17)	35,000 [10.26]	25,895 [7.59]	9,105 [2.67]	9.70	10.30	7.6	1,200 [565]
	RCHA-36A1	34,600 [10.14]	25,495 [7.47]	9,105 [2.67]	9.35	10.00	7.6	1,200 [565]
	RCHA-36A1 (UBEA-17)	35,000 [10.26]	25,895 [7.59]	9,105 [2.67]	9.70	10.30	7.6	1,200 [565]
	RCHA-36A1 (UBHA-17)	35,000 [10.26]	25,895 [7.59]	9,105 [2.67]	9.70	10.30	7.6	1,200 [565]
	RCLB-A036	35,400 [10.37]	26,600 [7.80]	8,800 [2.58]	9.50	10.10	7.6	1,150 [543]
	RCLB-A036 (UHQA-13)	35,400 [10.37]	26,600 [7.80]	8,800 [2.58]	9.45	10.05	7.6	1,150 [543]

① Sound rating in accordance with ARI Standard 270.

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

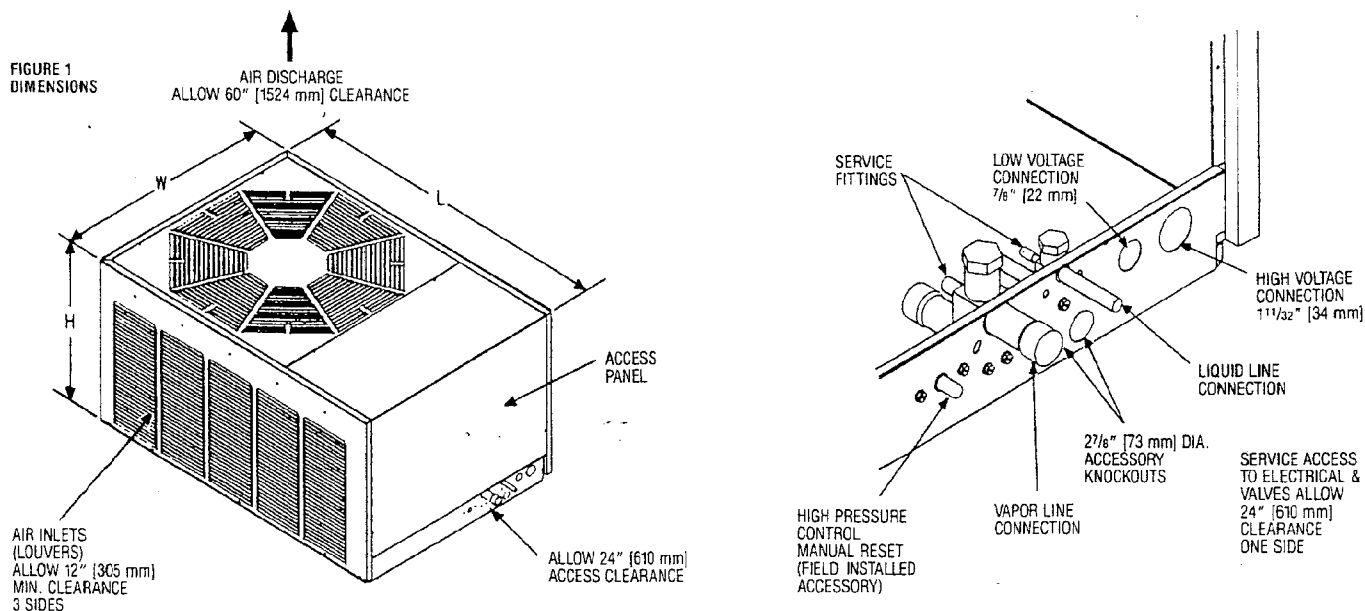
[] Designates Metric Conversions

Model Number	ELECTRICAL							PHYSICAL					
	Phase	Compr.	Compr.	Fan	Min. Circuit	Fuse or HACR		Outdoor Coil			Weight		
	Hertz	(RLA)	(LRA)	Motor	Capacity	Circuit Breaker		Face Area	No.	CFM	R22	Net	Shipping
	Volts			(FLA)	Amperes	Min. Amperes	Max. Amperes	Sq. Ft. [m²]	Rows	[L/s]	Oz. [g]	Lbs. [kg]	Lbs. [kg]
8JAZ	1-60-208/230	9.7/9.7	50	.9	13/13	20/20	20/20	5.0 [465]	1.00	1850 [873]	46 [1304]	135 [61.2]	145 [65.8]
4JAZ	1-60-208/230	12.2/12.2	61	.9	16/16	20/20	25/25	6.1 [567]	1.00	1950 [920]	50 [1417]	140 [63.5]	150 [68.0]
10JAZ	1-60-208/230	14.1/14.1	76	.9	19/19	25/25	30/30	9.1 [845]	1.00	1960 [925]	66 [1871]	155 [70.3]	165 [74.8]
6CAS	3-60-208/230	11.5/11.5	78	1.3	16/16	20/20	25/25	11.0 [1.022]	1.00	2700 [1274]	75 [2126]	180 [81.6]	190 [86.2]
6DAS	3-60-460	5.8	40	.6	8	15	15	11.0 [1.022]	1.00	2700 [1274]	75 [2126]	180 [81.6]	190 [86.2]
7CAZ	3-60-208/230	10.3/10.3	77	1.3	14/14	20/20	20/20	11.0 [1.022]	1.00	2700 [1274]	79 [2240]	180 [81.6]	190 [86.2]
7DAZ	3-60-460	5.1	39	.6	7	15	15	11.0 [1.022]	1.00	2700 [1274]	79 [2240]	180 [81.6]	190 [86.2]
7JAZ	1-60-208/230	16.5/16.5	95	1.3	22/22	30/30	35/35	11.0 [1.022]	1.00	2700 [1274]	79 [2240]	180 [81.6]	190 [86.2]
2CAS	3-60-208/230	14.1/14.1	130	1.3	19/19	25/25	30/30	11.0 [1.022]	1.00	2700 [1274]	79 [2240]	190 [86.2]	200 [90.7]
2CAZ	3-60-208/230	12.4/12.4	88	1.3	17/17	20/20	25/25	11.0 [1.022]	1.00	2700 [1274]	79 [2240]	190 [86.2]	200 [90.7]
2DAS	3-60-460	7.1	64	.6	10	15	15	11.0 [1.022]	1.00	2700 [1274]	79 [2240]	190 [86.2]	200 [90.7]
2DAZ	3-60-460	6.4	44	.6	9	15	15	11.0 [1.022]	1.00	2700 [1274]	79 [2240]	190 [86.2]	200 [90.7]
2JAZ	1-60-208/230	18.3/18.3	109	1.3	24/24	30/30	40/40	11.0 [1.022]	1.00	2700 [1274]	79 [2240]	190 [86.2]	200 [90.7]
8CAS	3-60-208/230	13.7/13.7	82	2.0	20/20	25/25	30/30	15.8 [1.468]	1.00	4100 [1935]	113 [3203]	220 [99.8]	230 [104.3]
8CAZ	3-60-208/230	13.5/13.5	91	2.0	19/19	25/25	30/30	15.8 [1.468]	1.00	4100 [1935]	103 [2920]	220 [99.8]	230 [104.3]
8DAS	3-60-460	6.9	41	1.0	10	15	15	15.8 [1.468]	1.00	4100 [1935]	113 [3203]	220 [99.8]	230 [104.3]
8DAZ	3-60-460	6.8	46	1.0	10	15	15	15.8 [1.468]	1.00	4100 [1935]	103 [2920]	220 [99.8]	230 [104.3]
8JAZ	1-60-208/230	21.9/21.9	131	2.0	29/29	35/35	50/50	15.8 [1.468]	1.00	4100 [1935]	103 [2920]	220 [99.8]	230 [104.3]
8YAS	3-60-575	5.2	36	.7	8	15	15	15.8 [1.468]	1.00	4100 [1935]	113 [3203]	220 [99.8]	230 [104.3]
OCAS	3-60-208/230	17.0/17.0	150	2.0	24/24	30/30	40/40	15.8 [1.468]	1.00	4150 [1959]	112 [3175]	250 [113.4]	260 [117.9]
OCAZ	3-60-208/230	17.2/17.2	128	2.0	24/24	30/30	40/40	15.8 [1.468]	1.00	4150 [1959]	112 [3175]	250 [113.4]	260 [117.9]
ODAS	3-60-460	9.6	73	1.0	13	20	20	15.8 [1.468]	1.00	4150 [1959]	112 [3175]	250 [113.4]	260 [117.9]
ODAZ	3-60-460	9.1	63	1.0	12/12	15	20	15.8 [1.468]	1.00	4150 [1959]	112 [3175]	250 [113.4]	260 [117.9]
OJAZ	1-60-208/230	28.9/28.9	175	2.0	39/39	50/50	60/60	15.8 [1.468]	1.00	4150 [1959]	112 [3175]	250 [113.4]	260 [117.9]
OYAS	3-60-575	8.3	59	.7	12	15	15	15.8 [1.468]	1.00	4150 [1959]	112 [3175]	250 [113.4]	260 [117.9]

] Designates Metric Conversions

Unit Dimensions

FIGURE 1
DIMENSIONS



Piston Sizes

(Part Number 61-23414-**)

Model Number UAKA-	Height "H" (Inches) [mm]	Length "L" (Inches) [mm]	Width "W" (Inches) [mm]
-018/024	16 ³ / ₄ [425.45]	33 ¹ / ₁₆ [855.66]	23 ¹ / ₄ [590.55]
-030	20 ³ / ₄ [527.05]	33 ¹ / ₁₆ [855.66]	23 ¹ / ₄ [590.55]
-036/-037/-042	20 ³ / ₄ [527.05]	38 ¹ / ₁₆ [982.66]	27 ¹ / ₈ [688.98]
-048/-060	26 ³ / ₄ [679.45]	42 ⁹ / ₁₆ [1081.09]	31 [787.4]

Model Size	Evaporator Coil Piston Size
-018	53
-024	57
-030	65
-037	65
042	72
-048	82
-060	89

[] Designates Metric Conversions

GENERAL TERMS OF LIMITED WARRANTY*

Ruud 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.

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

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

Performance Data @ ARI Standard Conditions—Cooling

Model Numbers		80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air					ARI	Indoor
Outdoor Unit UAKA-	Indoor Coil and/or Air Handler	Total Capacity BTU/h [kW]	Net Sensible BTU/h [kW]	Net Latent BTU/h [kW]	EER	SEER	Sound Rating Ⓢ	CFM [L/s]
036CAS/DAS	RCTB-A036	34,400 [10.08]	26,000 [7.80]	8,400 [2.46]	9.35	10.50	7.6	1,200 [565]
	RCTB-A036 (UHQA-13)	34,400 [10.08]	26,000 [7.80]	8,400 [2.46]	9.35	10.50	7.6	1,200 [565]
	RCTB-A037	35,200 [10.32]	26,600 [7.80]	8,600 [2.52]	9.45	10.70	7.8	1,200 [565]
	RCTH-A036	34,200 [10.02]	25,800 [7.56]	8,400 [2.46]	9.30	10.50	7.8	1,200 [565]
037CAZ/DAZ	RCBA-3765	35,400 [10.38]	25,200 [7.38]	10,200 [3.00]	9.50	10.00	7.8	1,200 [565]
	RCBA-3765 (UBEA-17)	35,600 [10.44]	25,400 [7.44]	10,200 [3.00]	9.70	10.15	7.8	1,200 [565]
	RCBA-3765 (UBHA-17)	35,600 [10.44]	25,400 [7.44]	10,200 [3.00]	9.70	10.15	7.8	1,200 [565]
	RCBA-3765 + RXMD-C02	35,400 [10.38]	25,200 [7.38]	10,200 [3.00]	9.50	10.05	7.8	1,200 [565]
	RCBA-3765 + RXMD-C02 (UBEA-17)	35,600 [10.44]	25,400 [7.44]	10,200 [3.00]	9.70	10.20	7.8	1,200 [565]
	RCBA-3765 + RXMD-C02 (UBHA-17)	35,600 [10.44]	25,400 [7.44]	10,200 [3.00]	9.70	10.20	7.8	1,200 [565]
	RCGA-36A2	35,000 [10.26]	24,800 [7.26]	10,200 [3.00]	9.60	10.50	7.8	1,200 [565]
	RCGA-36A2 (UBEA-17)	35,200 [10.32]	25,000 [7.32]	10,200 [3.00]	9.70	10.70	7.8	1,200 [565]
	RCGA-36A2 (UBHA-17)	35,200 [10.32]	25,000 [7.32]	10,200 [3.00]	9.70	10.70	7.8	1,200 [565]
	RCHA-36A1	35,000 [10.26]	24,800 [7.26]	10,200 [3.00]	9.60	10.50	7.8	1,200 [565]
	RCHA-36A1 (UBEA-17)	35,200 [10.32]	25,000 [7.32]	10,200 [3.00]	9.70	10.70	7.8	1,200 [565]
	RCHA-36A1 (UBHA-17)	35,200 [10.32]	25,000 [7.32]	10,200 [3.00]	9.70	10.70	7.8	1,200 [565]
037JAZ	RCTH-A036	35,400 [10.38]	25,200 [7.38]	10,200 [3.00]	9.60	10.50	7.8	1,200 [565]
	RCBA-3765 Ⓢ	35,400 [10.38]	25,200 [7.38]	10,200 [3.00]	9.50	10.00	7.8	1,200 [565]
	RCBA-3765 (UBEA-17)	35,600 [10.44]	25,400 [7.44]	10,200 [3.00]	9.70	10.15	7.8	1,200 [565]
	RCBA-3765 (UBHA-17)	35,600 [10.44]	25,400 [7.44]	10,200 [3.00]	9.70	10.15	7.8	1,200 [565]
	RCBA-3765 + RXMD-C02	35,400 [10.38]	25,200 [7.38]	10,200 [3.00]	9.50	10.05	7.8	1,200 [565]
	RCBA-3765 + RXMD-C02 (UBEA-17)	35,600 [10.44]	25,400 [7.44]	10,200 [3.00]	9.70	10.20	7.8	1,200 [565]
	RCBA-3765 + RXMD-C02 (UBHA-17)	35,600 [10.44]	25,400 [7.44]	10,200 [3.00]	9.70	10.20	7.8	1,200 [565]
	RCGA-36A2	35,000 [10.26]	24,800 [7.26]	10,200 [3.00]	9.60	10.50	7.8	1,200 [565]
	RCGA-36A2 (UBEA-17)	35,200 [10.32]	25,000 [7.32]	10,200 [3.00]	9.70	10.70	7.8	1,200 [565]
	RCGA-36A2 (UBHA-17)	35,200 [10.32]	25,000 [7.32]	10,200 [3.00]	9.70	10.70	7.8	1,200 [565]
	RCHA-36A1	35,000 [10.26]	24,800 [7.26]	10,200 [3.00]	9.60	10.50	7.8	1,200 [565]
	RCHA-36A1 (UBEA-17)	35,200 [10.32]	25,000 [7.32]	10,200 [3.00]	9.70	10.70	7.8	1,200 [565]
	RCHA-36A1 (UBHA-17)	35,200 [10.32]	25,000 [7.32]	10,200 [3.00]	9.70	10.70	7.8	1,200 [565]
	RCLB-A036	35,600 [10.44]	25,654 [7.50]	9,946 [2.94]	9.40	10.00	7.8	1,200 [565]
	RCLB-A036 (UHQA-13)	35,600 [10.44]	25,654 [7.50]	9,946 [2.94]	9.40	10.05	7.8	1,200 [565]
	RCTB-A036	35,400 [10.38]	25,454 [7.44]	9,946 [2.94]	9.35	10.10	7.8	1,200 [565]
042CAS/DAS/CAZ/DAZ/JAZ	RCTB-A036 (UHQA-13)	35,400 [10.38]	25,454 [7.44]	9,946 [2.94]	9.40	10.15	7.8	1,200 [565]
	RCTB-A037	36,600 [10.74]	26,780 [7.86]	9,820 [2.88]	9.60	10.15	7.8	1,200 [565]
	RCTH-A036	35,400 [10.38]	25,596 [7.50]	9,804 [2.88]	9.35	10.00	7.8	1,200 [565]
	RCBA-4873	40,000 [11.70]	28,900 [8.46]	11,100 [3.25]	9.20	10.00	7.8	1,400 [660]
	RCBA-4873 (UBEA-21)	40,500 [11.85]	29,400 [8.64]	11,100 [3.25]	9.45	10.25	7.8	1,400 [660]
	RCBA-4873 (UBHA-21)	40,500 [11.85]	29,400 [8.64]	11,100 [3.25]	9.45	10.25	7.8	1,400 [660]
	RCBA-4873 + RXMD-C02	40,000 [11.70]	28,900 [8.46]	11,100 [3.25]	9.20	10.05	7.8	1,400 [660]
	RCBA-4873 + RXMD-C02 (UBEA-21)	40,500 [11.85]	29,400 [8.64]	11,100 [3.25]	9.45	10.30	7.8	1,400 [660]
	RCBA-4873 + RXMD-C02 (UBHA-21)	40,500 [11.85]	29,400 [8.64]	11,100 [3.25]	9.45	10.30	7.8	1,400 [660]
	RCGA-48A1	39,500 [11.55]	28,200 [8.28]	11,300 [3.31]	9.15	10.30	7.8	1,400 [660]
	RCGA-48A1 (UBEA-21)	40,000 [11.70]	28,700 [8.40]	11,300 [3.31]	9.40	10.55	7.8	1,400 [660]
	RCGA-48A1 (UBHA-21)	40,000 [11.70]	28,700 [8.40]	11,300 [3.31]	9.40	10.55	7.8	1,400 [660]
	RCHA-48A1	39,500 [11.55]	28,200 [8.28]	11,300 [3.31]	9.15	10.30	7.8	1,400 [660]
	RCHA-48A1 (UBEA-21)	40,000 [11.70]	28,700 [8.40]	11,300 [3.31]	9.40	10.55	7.8	1,400 [660]
	RCHA-48A1 (UBHA-21)	40,000 [11.70]	28,700 [8.40]	11,300 [3.31]	9.40	10.55	7.8	1,400 [660]
	RCLB-A048 (UHQA-16)	40,000 [11.70]	28,812 [8.46]	11,188 [3.28]	9.30	10.10	7.8	1,400 [660]
048CAS/DAS/CAZ/DAZ/JAZ	RCMB-A048 (UHQA-16)	40,500 [11.85]	29,312 [8.58]	11,188 [3.28]	9.40	10.15	7.8	1,400 [660]
	RCTB-A048 (UHQA-16)	40,000 [11.70]	29,089 [8.52]	10,911 [3.20]	9.30	10.05	7.8	1,400 [660]
	RCTH-A048	39,500 [11.55]	28,200 [8.28]	11,300 [3.31]	9.20	10.30	7.8	1,400 [660]
	RCBA-4882 Ⓢ	46,000 [13.50]	33,200 [9.72]	12,800 [3.78]	9.65	10.00	8.0	1,600 [755]
	RCBA-4882 (UBEA-21)	46,000 [13.50]	33,200 [9.72]	12,800 [3.78]	9.75	10.10	8.0	1,600 [755]
	RCBA-4882 (UBHA-21)	46,000 [13.50]	33,200 [9.72]	12,800 [3.78]	9.75	10.10	8.0	1,600 [755]
	RCBA-4882 + RXMD-C02	46,000 [13.50]	33,200 [9.72]	12,800 [3.78]	9.65	10.10	8.0	1,600 [755]
	RCBA-4882 + RXMD-C02 (UBEA-21)	46,000 [13.50]	33,200 [9.72]	12,800 [3.78]	9.75	10.20	8.0	1,600 [755]
	RCBA-4882 + RXMD-C02 (UBHA-21)	46,000 [13.50]	33,200 [9.72]	12,800 [3.78]	9.75	10.20	8.0	1,600 [755]
	RCGA-48A1	46,000 [13.50]	33,000 [9.66]	13,000 [3.84]	9.70	10.30	8.0	1,600 [755]
	RCGA-48A1 (UBEA-21)	46,000 [13.50]	33,000 [9.66]	13,000 [3.84]	9.80	10.40	8.0	1,600 [755]
	RCGA-48A1 (UBHA-21)	46,000 [13.50]	33,000 [9.66]	13,000 [3.84]	9.80	10.40	8.0	1,600 [755]
	RCHA-48A1	46,000 [13.50]	33,000 [9.66]	13,000 [3.84]	9.70	10.30	8.0	1,600 [755]
	RCHA-48A1 (UBEA-21)	46,000 [13.50]	33,000 [9.66]	13,000 [3.84]	9.80	10.20	8.0	1,600 [755]

Ⓢ Sound rating in accordance with ARI Standard 270.

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

] Designates Metric Conversions

Performance Data @ ARI Standard Conditions—Cooling (Con't.)

Model Numbers		80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air					ARI	
Outdoor Unit UAKA-	Indoor Coil and/or Air Handler	95°F [35°C] DB Outdoor Air					Sound Rating ①	Indoor CFM [L/s]
		Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER		
048CAS/DAS/CAZ/DAZ/JAZ	RCHA-48A1 (UBHA-21)	46,000 [13.50]	33,000 [9.66]	13,000 [3.84]	9.80	10.20	8.0	1,600 [755]
	RCLB-A048	45,500 [13.35]	33,200 [9.72]	12,300 [3.63]	9.65	10.00	8.0	1,600 [755]
	RCLB-B048	46,000 [13.50]	33,400 [9.78]	12,600 [3.72]	9.70	10.00	8.0	1,600 [755]
	RCMB-A048	46,000 [13.50]	33,400 [9.78]	12,600 [3.72]	9.70	10.00	8.0	1,600 [755]
	RCMB-A048 (UHQA-16)	46,000 [13.50]	33,400 [9.78]	12,600 [3.72]	9.95	10.10	8.0	1,600 [755]
	RCTB-A048	46,000 [13.50]	33,600 [9.84]	12,400 [3.66]	9.65	10.30	8.0	1,600 [755]
	RCTB-A048 (UHQA-16)	46,000 [13.50]	33,600 [9.84]	12,400 [3.66]	9.95	10.40	8.0	1,600 [755]
048YAS	RCTH-A048	46,500 [13.65]	33,800 [9.90]	12,700 [3.75]	9.80	10.30	8.0	1,600 [755]
	RCBA-4876 ②	46,500 [13.65]	35,800 [10.50]	10,700 [3.15]	9.45	10.00	8.0	1,600 [755]
	RCBA-4876 (UBEA-21)	47,000 [13.80]	36,300 [10.62]	10,700 [3.18]	9.75	10.20	8.0	1,600 [755]
	RCBA-4876 (UBHA-21)	47,000 [13.80]	36,300 [10.62]	10,700 [3.18]	9.75	10.20	8.0	1,600 [755]
	RCBA-4876 + RXMD-C02	46,500 [13.65]	35,800 [10.50]	10,700 [3.15]	9.45	10.10	8.0	1,600 [755]
	RCBA-4876 + RXMD-C02 (UBEA-21)	47,000 [13.80]	36,300 [10.62]	10,700 [3.18]	9.75	10.30	8.0	1,600 [755]
	RCBA-4876 + RXMD-C02 (UBHA-21)	47,000 [13.80]	36,300 [10.62]	10,700 [3.18]	9.75	10.30	8.0	1,600 [755]
	RCGA-48A1	46,000 [13.50]	33,920 [9.96]	12,080 [3.54]	9.40	10.00	8.0	1,600 [755]
	RCGA-48A1 (UBEA-21)	46,500 [13.65]	34,420 [10.08]	12,080 [3.57]	9.65	10.20	8.0	1,600 [755]
	RCGA-48A1 (UBHA-21)	46,500 [13.65]	34,420 [10.08]	12,080 [3.57]	9.65	10.20	8.0	1,600 [755]
	RCHA-48A1	46,000 [13.50]	33,920 [9.96]	12,080 [3.54]	9.40	10.00	8.0	1,600 [755]
	RCHA-48A1 (UBEA-21)	46,500 [13.65]	34,420 [10.08]	12,080 [3.57]	9.65	10.20	8.0	1,600 [755]
	RCHA-48A1 (UBHA-21)	46,500 [13.65]	34,420 [10.08]	12,080 [3.57]	9.65	10.20	8.0	1,600 [755]
	RCLB-A048	46,000 [13.50]	34,500 [10.14]	11,500 [3.36]	9.45	10.00	8.0	1,550 [730]
	RCLB-B048	47,000 [13.80]	35,300 [10.32]	11,700 [3.48]	9.55	10.10	8.0	1,550 [730]
	RCMB-A048	47,000 [13.80]	35,300 [10.32]	11,700 [3.48]	9.50	10.15	8.0	1,550 [730]
	RCMB-A048 (UHQA-16)	47,500 [13.95]	35,800 [10.50]	11,700 [3.45]	9.70	10.40	8.0	1,550 [730]
	RCTB-A048	46,500 [13.65]	35,300 [10.26]	11,400 [3.39]	9.35	10.35	8.0	1,600 [755]
	RCTB-A048 (UHQA-16)	46,500 [13.65]	35,200 [10.32]	11,300 [3.33]	9.65	10.65	8.0	1,600 [755]
	RCTH-A048	47,000 [13.80]	35,500 [10.38]	11,500 [3.42]	9.50	10.45	8.0	1,600 [755]
060CAS/DAS	RCBA-6089 ②	56,000 [16.35]	43,100 [12.60]	12,900 [3.75]	9.45	10.00	8.2	2,000 [945]
	RCBA-6089 (UBEA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.20	8.2	2,000 [945]
	RCBA-6089 (UBHA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.20	8.2	2,000 [945]
	RCBA-6089 + RXMD-C02	56,000 [16.35]	43,100 [12.60]	12,900 [3.75]	9.45	10.10	8.2	2,000 [945]
	RCBA-6089 + RXMD-C02 (UBEA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.30	8.2	2,000 [945]
	RCBA-6089 + RXMD-C02 (UBHA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.30	8.2	2,000 [945]
060CAZ/DAZ/JAZ/YAS	RCGA-60A1	55,500 [16.20]	40,865 [12.00]	14,635 [4.20]	9.40	10.00	8.2	2,000 [945]
	RCGA-60A1 (UBEA-24)	56,000 [16.35]	41,365 [12.15]	14,635 [4.20]	9.60	10.15	8.2	2,000 [945]
	RCGA-60A1 (UBHA-24)	56,000 [16.35]	41,365 [12.15]	14,635 [4.20]	9.60	10.15	8.2	2,000 [945]
	RCQB-C060	57,000 [16.65]	42,500 [12.45]	14,500 [4.20]	9.10	10.10	8.2	2,000 [945]
	RCQB-C060 (UHQA-20)	57,000 [16.65]	42,500 [12.45]	14,500 [4.20]	9.10	10.15	8.2	2,000 [945]
	RCTB-B060 (UHQA-20)	54,500 [15.90]	41,200 [12.07]	13,300 [3.90]	9.40	10.00	8.2	1,950 [920]
060CAZ/DAZ/JAZ/YAS	RCBA-6089 ②	56,000 [16.35]	43,100 [12.60]	12,900 [3.75]	9.45	10.00	8.2	2,000 [945]
	RCBA-6089 (UBEA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.20	8.2	2,000 [945]
	RCBA-6089 (UBHA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.20	8.2	2,000 [945]
	RCBA-6089 + RXMD-C02	56,000 [16.35]	43,100 [12.60]	12,900 [3.75]	9.45	10.10	8.2	2,000 [945]
	RCBA-6089 + RXMD-C02 (UBEA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.30	8.2	2,000 [945]
	RCBA-6089 + RXMD-C02 (UBHA-24)	56,500 [16.50]	43,600 [12.75]	12,900 [3.75]	9.70	10.30	8.2	2,000 [945]
	RCGA-60A1	55,500 [16.20]	40,865 [12.00]	14,635 [4.20]	9.40	10.00	8.2	2,000 [945]
	RCGA-60A1 (UBEA-24)	56,000 [16.35]	41,365 [12.15]	14,635 [4.20]	9.60	10.15	8.2	2,000 [945]
	RCGA-60A1 (UBHA-24)	56,000 [16.35]	41,365 [12.15]	14,635 [4.20]	9.60	10.15	8.2	2,000 [945]
	RCHA-60A1	55,500 [16.20]	40,865 [12.00]	14,635 [4.20]	9.40	10.00	8.2	2,000 [945]
	RCHA-60A1 (UBEA-24)	56,000 [16.35]	41,365 [12.15]	14,635 [4.20]	9.60	10.15	8.2	2,000 [945]
	RCHA-60A1 (UBHA-24)	56,000 [16.35]	41,365 [12.15]	14,635 [4.20]	9.60	10.15	8.2	2,000 [945]
	RCQB-C060	57,000 [16.65]	42,500 [12.45]	14,500 [4.20]	9.10	10.10	8.2	2,000 [945]
	RCQB-C060 (UHQA-20)	57,000 [16.65]	42,500 [12.45]	14,500 [4.20]	9.10	10.15	8.2	2,000 [945]

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

Condensing Unit Refrigerant Line Size Information

System Capacity Tons [kW]	Line Size (Inch O.D.) [mm]	Liquid Line Size Outdoor Unit Above Indoor Coil						Liquid Line Size Outdoor Unit Below Indoor Coil					
		Total Length—Feet [m]						Total Length—Feet [m]					
		25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [38.10]	150 [45.72]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [38.10]	150 [45.72]
		Vertical Separation—Feet [m]						Vertical Separation—Feet [m]					
1.5 [5.28]	1/4" [6.35]	25 [7.62]	50 [15.24]	70 [21.34]				25 [7.62]	23 [7.01]	8 [2.44]			
	5/16 [7.94]			36 [10.97]	42 [12.80]	48 [14.63]	54 [16.46]			36 [10.97]	30 [9.14]	24 [7.32]	18 [5.49]
2 [7.03]	1/4" [6.35]	25 [7.62]	50 [15.24]					25 [7.62]	23 [7.01]				
	5/16 [7.94]		24 [7.32]	34 [10.36]	44 [13.41]	54 [16.46]	64 [19.51]		48 [14.63]	38 [11.58]	28 [8.53]	18 [5.49]	8 [2.44]
2.5 [8.79]	1/4" [6.35]	25 [7.62]	50 [15.24]					25 [7.62]	23 [7.01]				
	5/16 [7.94]		19 [5.79]	33 [10.06]	47 [14.33]	61 [18.59]			50 [15.24]	39 [11.89]	25 [7.62]	11 [3.35]	
	3/8 [9.53]					11 [3.35]	15 [4.57]						57 [17.37]
3 [10.55]	5/16" [7.94]	25 [7.62]	50 [15.24]	70 [21.34]				25 [7.62]	23 [7.01]	9 [2.74]			
	3/8 [9.53]			34 [10.36]	40 [12.19]	46 [14.02]	52 [15.85]			38 [11.58]	32 [9.75]	26 [7.92]	20 [6.10]
3.5 [12.30]	5/16" [7.94]	25 [7.62]	50 [15.24]	75 [22.86]				25 [7.62]	23 [7.01]	9 [2.74]			
	3/8 [9.53]			32 [9.75]	39 [11.89]	46 [14.02]	53 [16.15]			40 [12.19]	33 [10.06]	26 [7.92]	19 [5.79]
4 [14.06]	3/8" [9.53]	25 [7.62]	44 [13.41]	53 [16.15]	61 [18.59]	70 [21.34]		25 [7.62]	28 [8.53]	19 [5.79]	11 [3.35]	3 [0.91]	
	1/2 [12.7]					37 [11.28]	39 [11.89]					35 [10.67]	33 [10.06]
5 [17.58]	3/8" [9.53]	25 [7.62]	48 [14.63]	61 [18.59]	72 [21.95]			25 [7.62]	23 [7.01]	11 [3.35]	3 [0.91]		
	1/2 [12.7]				35 [10.67]	38 [11.58]	41 [12.50]					37 [11.28]	34 [10.36]
												31 [9.45]	

*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 5/16" [7.94 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.

Suction Line Length/Size versus Capacity Multiplier

UAKA		018	024	030	036/037	042	048	060
Unit Suction Line Connection Size		3/8" [15.88 mm] I.D. Sweat	3/4" [19.05 mm] I.D. Sweat				1 1/8" [28.58 mm] I.D. Sweat*	
Suction Line Run—Feet [m]		3/8" [15.88 mm] O.D. Standard	5/8" [15.88 mm] O.D. Optional				7/8" [22.23 mm] O.D. Optional	
		3/8" [15.88 mm] O.D. Optional	3/4" [19.05 mm] O.D. Standard				1 1/8" [28.58 mm] O.D. Standard	
		3/8" [15.88 mm] O.D. Optional	5/8" [22.23 mm] O.D. Optional				1 1/8" [31.51 mm] O.D. Optional	
25' [7.62]	Optional	—	.98	—	—	—	.99	.99
	Standard	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	Optional	1.01	1.01	1.01	1.01	1.01	1.01	1.01
50' [15.24]	Optional	—	.96	—	—	—	.97	.97
	Standard	.98	.99	.99	.98	.97	1.00	.99
	Optional	1.00	1.00	1.00	1.00	1.00	1.01	1.01
100' [30.48]	Optional	—	.93	—	—	—	.96	.95
	Standard	.96	.98	.97	.96	.94	.99	.99
	Optional	.99	.99	.99	.99	.98	1.00	1.00
150' [45.72]	Optional	—	—	—	—	—	.93	.91
	Standard	.97	.97	.95	.93	.90	.99	.98
	Optional	.98	.98	.97	.97	.96	1.00	.99

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 100 feet [30.48 m]. See Liquid Line chart for Vertical Separation Requirements and Limitations.

*Adapter to 1 1/8" [28.58 mm] factory supplied.

[] Designates Metric Conversions

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

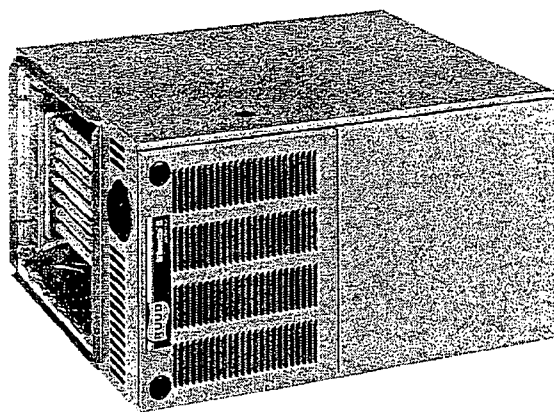
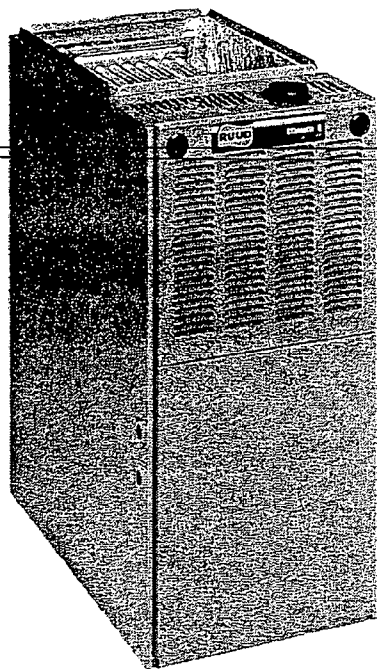
RUUD
AIR CONDITIONING
DIVISION

5600 Old Greenwood Road, Fort Smith, Arkansas 72908



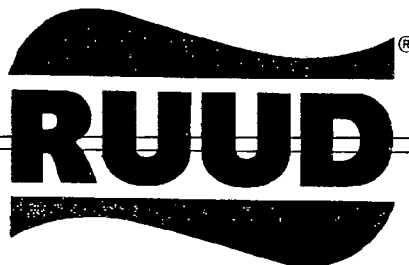
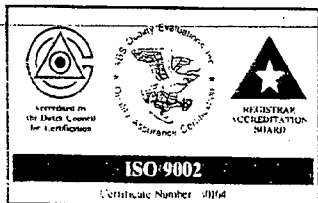
"In keeping with its policy of continuous progress and product improvement, Ruud reserves the right to make changes without notice."

GAS FURNACES



UGPH- SERIES

Models with Input Rates from
45,000 to 150,000 BTU/HR
[13 to 44 kW]
(U.S. & Canadian Models)



SILHOUETTE® II 80% A.F.U.E.[†] UPFLOW/ HORIZONTAL GAS FURNACES

The Ruud® Silhouette® II line of upflow/horizontal gas furnaces are designed for utility rooms, closets, alcoves, or attics. Because of the Silhouette's low-profile 34 inch [864 mm] height, the upflow model can also be used to satisfy most applications that traditionally call for a horizontal furnace.

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

Features

- Patented Heat Exchanger, constructed of both stainless and aluminized steel for the maximum in corrosion resistance.
- Low profile "34 inch" design is lighter and easier to handle, and leaves room for optional equipment.
- Convertible from upflow to horizontal left or right without field conversion.
- Left or right side gas and electric inlet connections with quick, simple change.
- Hot surface ignition models equipped with remote sense, feature an integrated board with humidifier and electronic air cleaner hookups.
- Insulated blower compartment, a slow-open gas valve and a specially designed draft inducer motor make it one of the quietest furnaces on the market today.
- Pre-paint galvanized steel cabinet.
- Molded permanent filter.
- Grab-holes in doors to aid in easy door removal and replacement.

A variety of cooling coils and plenums designed to use with Ruud Silhouette II gas furnaces are available as optional accessories.

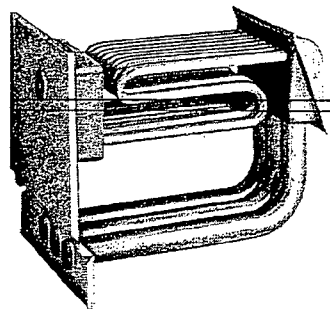
H.S.I. model furnaces can be installed in an upflow position or laid on either side in a horizontal position. No field converting required.

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

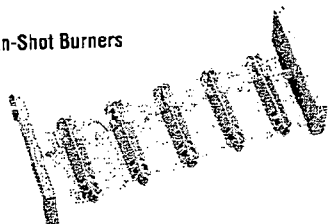


RUUD SILHOUETTE II 80% UPFLOW/HORIZONTAL GAS FURNACE

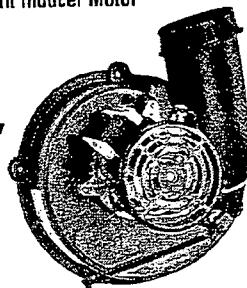
Heat Exchanger



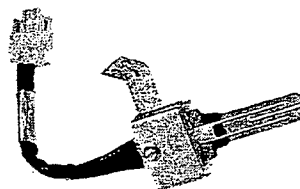
In-Shot Burners



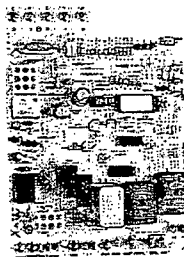
Draft Inducer Motor



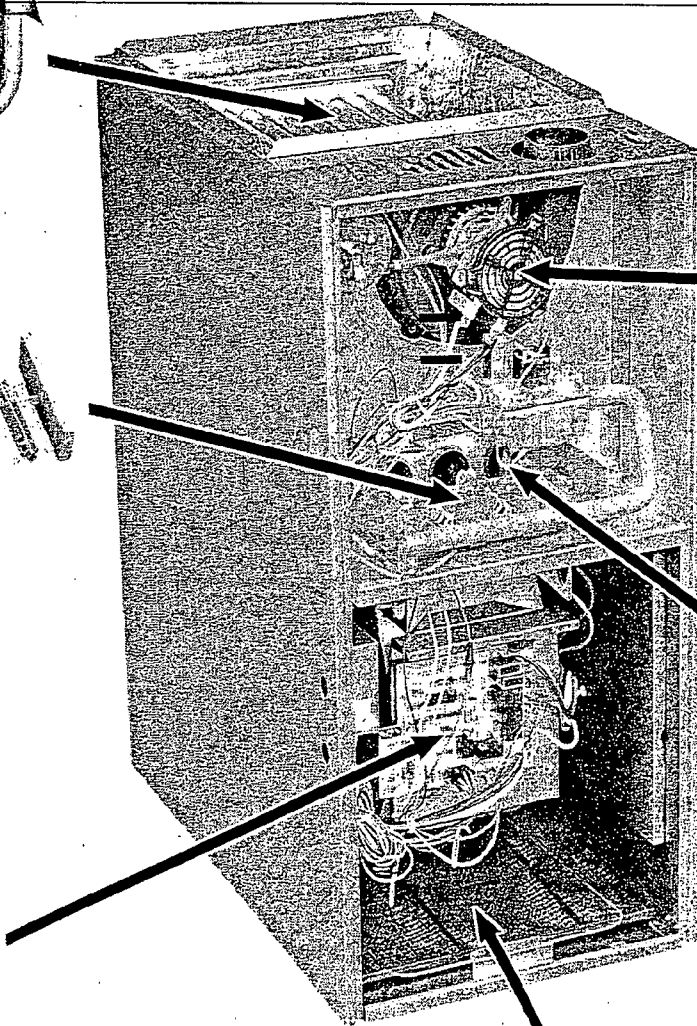
Hot Surface Ignitor
with Remote Sense



Integrated
Furnace
Control



Molded Permanent Filter



STANDARD EQUIPMENT

Completely assembled and wired; induced draft blower; pressure switch; redundant main gas control; blower compartment door safety switch; solid state time on/time off blower control; limit control; manual shut-off valve; pressure regulator for natural and L.P. (propane) gas; transformer; direct drive multi-speed blower motor. Furnaces are equipped with cooling/heating relay and transformer (40VA) ready for air conditioning applications. (Please note: a thermostat is not included as standard equipment.) Flame sensor diagnostics; H.S.I. only twinning options; fused transformer (secondary); 3rd speed fan option for continuous fan; common heat/cool terminal for H.S.I.

OPTIONAL EQUIPMENT

Side filter frame assembly. Return air cabinet for all sizes. (See Page 6)

The complete terms of limited and other warranties are available at our sales office, or through local installer.

All models can be converted by a qualified Ruud 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 Ruud 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

PHYSICAL DATA AND SPECIFICATIONS

U.S. AND CANADA MODELS (UPFLOW/HORIZONTAL)

NOTES: All models are 115V, 60HZ, 1Ø. Gas connection size for all models is 1/2" [12.7 mm] N.P.T.
 ① In accordance with D.O.E. test procedures.
 ② See Conversion Kit Index Form No. 92-21519-52 for U.S. models and Form No. 92-21519-53 for Canadian models for high altitude derate.

MODEL IDENTIFICATION—UPFLOW MODELS

[] Designates Metric Conversions

UPFLOW DIMENSIONS

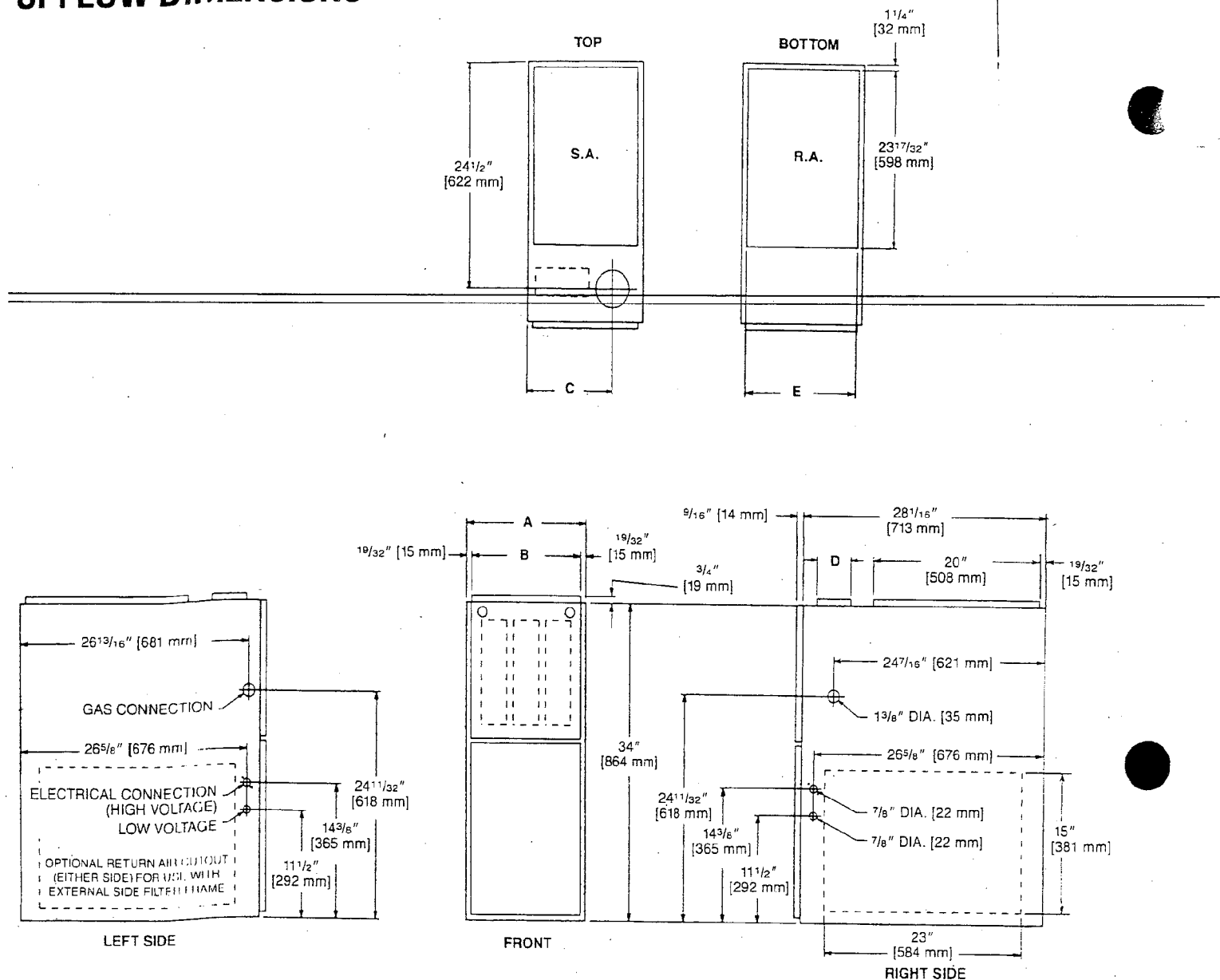


TABLE 1. DIMENSIONS AND CLEARANCE TO COMBUSTIBLE MATERIAL (INCHES) [mm]

MODEL UGPH-	A	B	C	D	E	REDUCED CLEARANCES (IN.) [mm]						SHIP. WGTs. (LBS.) [kg]
						LEFT SIDE	RIGHT SIDE	BACK	TOP	FRONT	VENT	
04, 05	14 [356]	12 27/32 [326]	10 3/8 [263]	①	11 1/2 [292]	0	4 [102] ②	0	1 [25]	3 [76]	6 [152] ③	85 [38.6]
06, 07	17 1/2 [445]	16 11/32 [415]	12 1/8 [308]	①	15 [381]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	105 [47.6]
10 (A)	17 1/2 [445]	16 11/32 [415]	12 1/8 [308]	①	15 [381]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	115 [52.2]
10 (B)	21 [533]	19 27/32 [504]	13 7/8 [352]	①	18 1/2 [470]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
12	24 1/2 [622]	23 11/32 [593]	15 5/8 [397]	①	22 [559]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]
15	24 1/2 [622]	23 11/32 [593]	15 5/8 [397]	①	22 [559]	0	0	0	1 [25]	3 [76]	6 [152] ③	150 [68]

NOTES: ① May require a 3" [76 mm] to 4" [102 mm] or 3" [76 mm] to 5" [127 mm] adapter.

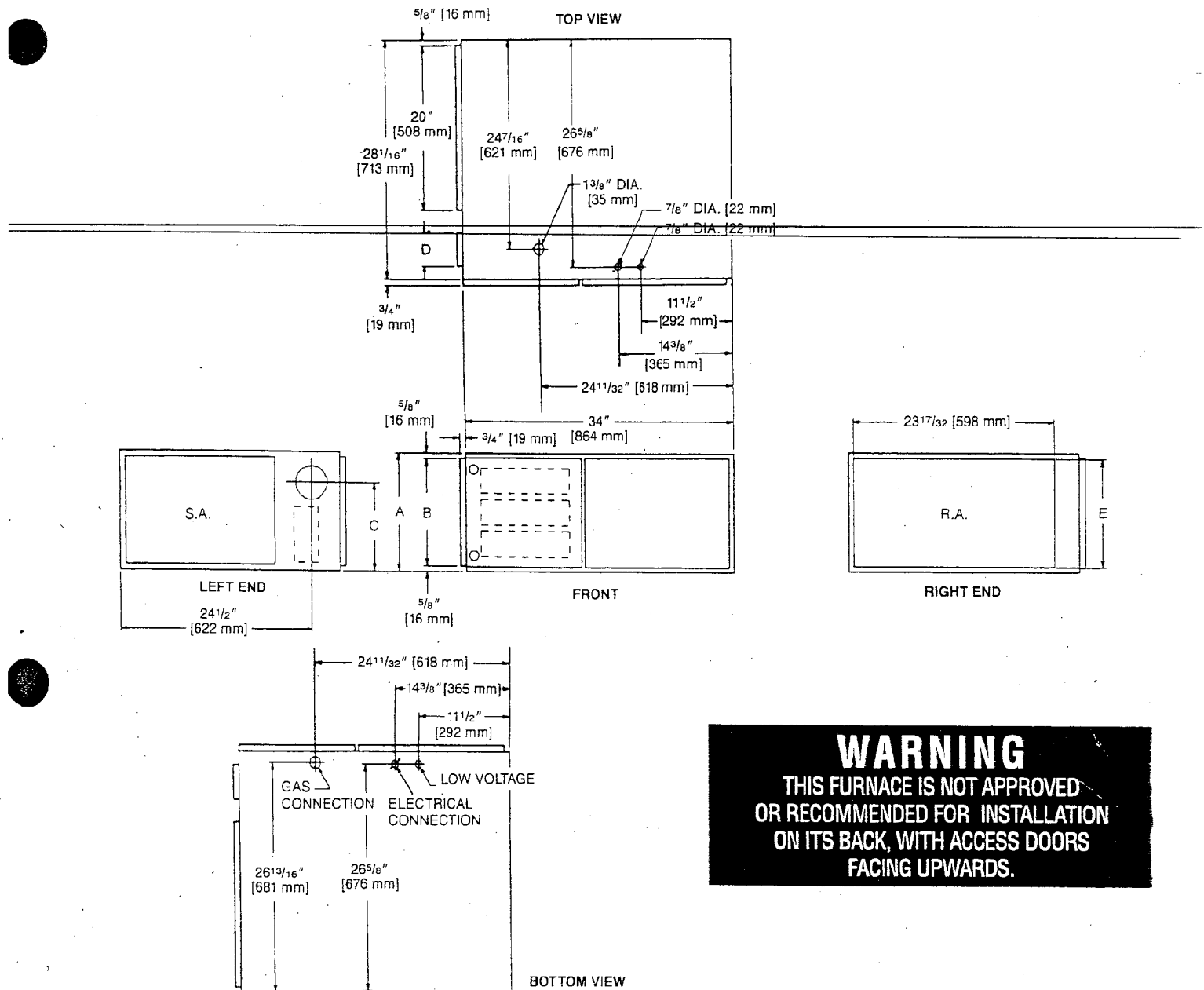
② May be 0" [0 mm] with type B vent.

③ May be 1" [25 mm] with type B vent.

Furnaces must be vented in accordance with ANSI Z21.47-1993 • CAN/CGA-2.3-M93 venting table guidelines included with each furnace, and in accordance with local codes.

[] Designates Metric Conversions

HORIZONTAL DIMENSIONS



WARNING
THIS FURNACE IS NOT APPROVED
OR RECOMMENDED FOR INSTALLATION
ON ITS BACK, WITH ACCESS DOORS
FACING UPWARDS.

TABLE 1. DIMENSIONS AND CLEARANCE TO COMBUSTIBLE MATERIAL (INCHES) [mm]

MODEL UGPH-	A	B	C	D	E	REDUCED CLEARANCES (IN.) [mm]						
						LEFT SIDE	RIGHT SIDE	BACK	TOP	FRONT	VENT	SHIP. WGTS. (LBS.) [kg]
04, 05	14 [356]	12 ²⁷ / ₃₂ [326]	10 ³ / ₈ [263]	①	11 ¹ / ₂ [292]	0	4 [102] ②	0	1 [25]	3 [76]	6 [152] ③	85 [38.6]
06, 07	17 ¹ / ₂ [445]	16 ¹¹ / ₃₂ [415]	12 ¹ / ₈ [308]	①	15 [381]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	105 [47.6]
10 (A)	17 ¹ / ₂ [445]	16 ¹¹ / ₃₂ [415]	12 ¹ / ₈ [308]	①	15 [381]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	115 [52.2]
10 (B)	21 [533]	19 ²⁷ / ₃₂ [504]	13 ⁷ / ₈ [352]	①	18 ¹ / ₂ [470]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
12	24 ¹ / ₂ [622]	23 ¹¹ / ₃₂ [593]	15 ⁵ / ₈ [397]	①	22 [559]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]
15	24 ¹ / ₂ [622]	23 ¹¹ / ₃₂ [593]	15 ⁵ / ₈ [397]	①	22 [559]	0	0	0	1 [25]	3 [76]	6 [152] ③	150 [68]

NOTES: ① May require a 3" [76 mm] to 4" [102 mm] or 3" [76 mm] to 5" [127 mm] adapter.

② May be 0" [0 mm] with type B vent.

③ May be 1" [25 mm] with type B vent.

Furnaces must be vented in accordance with ANSI Z21.47-1993 • CAN/CGA-2.3-M93 venting table guidelines included with each furnace, and in accordance with local codes.

ACCESSORIES—UPFLOW

PLENUM DATA FOR "A" COILS

Plenum adapters are required in some instances for use on upflow applications when plenum and furnace size do not match.

FURNACE WIDTH IN. [mm]	PLENUM WIDTH IN. [mm]	PLENUM ADAPTER UPFLOW	COIL PLENUM
14 [356]	16 1/4 [413]	RXAA-C171	RXAL-B16BU
14 [356]	20 1/4 [514]	RXAA-C172	RXAL-B20BU
17 1/2 [445]	16 1/4 [413]	RXAA-C185	RXAL-B16BU
17 1/2 [445]	20 1/4 [514]	RXAA-C173	RXAL-B20BU
17 1/2 [445]	21 5/8 [549]	RXAA-C187	RXAL-B21BU
17 1/2 [445]	25 1/4 [641]	RXAA-C174	RXAL-B25BU
21 [533]	25 1/4 [641]	RXAA-C175	RXAL-B25BU
21 [533]	22 1/4 [565]	RXAA-C176	RXAL-B22BU
21 [533]	21 5/8 [549]	RXAA-C188	RXAL-B21BU
24 1/2 [622]	25 1/4 [641]	RXAA-C177	RXAL-B25BU
24 1/2 [622]	21 5/8 [549]	RXAA-C187	RXAL-B21BU

e: See Form Number C22-206 for MultiFlex coil data.

INTERNAL BOTTOM FILTER RACK: RXGF-CB

INTERNAL SIDE RETURN FILTER RACK: RXGF-CA

FILTER RACK FILTER SIZES† INCHES [mm]	
MODEL UGPH-	RXGF-CA (SIDE)
04, 05, 06, 07, 10*A	15 3/4 x 25 [400 x 635]
10*BRJ	15 3/4 x 25 [400 x 635]
12, 15	15 3/4 x 25 [400 x 635]

er racks are shipped without filters.

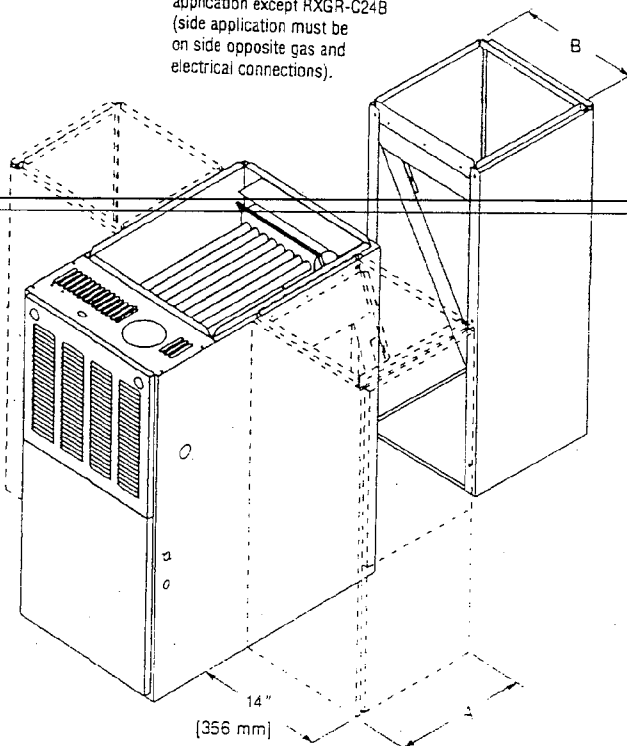
ers shipped with furnace may be used or a suitable 1" [25.4 mm] filter.
signates "E" or "N".

PF-F01 and F02

SIL FUEL KIT—is for use with Ruud Heat Pumps and
quette II warm air furnaces. RXPF-F02 meets TVA requirements.

ACCESSORY RETURN AIR CABINETS

Return Air Cabinets may be
installed on rear or either side
application except RXGR-C24B
(side application must be
on side opposite gas and
electrical connections).



THE RXGR-C24B MAY ONLY BE INSTALLED
ON REAR AND LEFT SIDES.

RETURN AIR CABINETS	A IN. [mm]	B IN. [mm]	FILTER SIZE IN. [mm]
RXGR-C14B	14 [356]	12 27/32 [326]	(2) 12 x 16 [305 x 406]
RXGR-C17B	17 1/2 [445]	16 11/32 [415]	(2) 12 x 16 [305 x 406]
RXGR-C21B	21 [533]	19 27/32 [504]	(2) 20 x 16 [508 x 406]
RXGR-C24B	24 1/2 [622]	23 11/32 [593]	(2) 24 x 16 [610 x 406]

WARNING: IMPORTANT NOTICE

A SOLID METAL BASE PLATE (SEE TABLE) MUST BE IN PLACE WHEN THE FURNACE IS INSTALLED WITH SIDE OR REAR AIR RETURN DUCTS. FAILURE TO INSTALL A BASE PLATE COULD CAUSE PRODUCTS OF COMBUSTION TO BE CIRCULATED INTO THE LIVING SPACE AND CREATE POTENTIALLY HAZARDOUS CONDITIONS. SOLID BOTTOM IS AVAILABLE FACTORY INSTALLED WITH OPTION CODE 253.

FURNACE WIDTH IN. [mm]	SOLID BOTTOM KIT NO.	BASE PLATE NO.	BASE PLATE SIZE IN. [mm]
14 [356]	RXGB-D14	AE-61874-01	11 5/8 x 23 9/16 [295 x 598]
17 1/2 [445]	RXGB-D17	AE-61874-02	15 1/2 x 23 9/16 [384 x 598]
21 [533]	RXGB-D21	AE-61874-03	18 5/8 x 23 9/16 [473 x 598]
24 1/2 [622]	RXGB-D24	AE-61874-04	25 3/2 x 23 9/16 [651 x 598]

Designates Metric Conversions

BLOWER PERFORMANCE DATA—OUTFLOW/HORIZONTAL MODELS

MODEL NUMBER UGPH- SERIES	BLOWER SIZE [mm]	MOTOR H.P. [W]	BLOWER SPEED	CFM [L/s] AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES [kPa] WATER COLUMN						
				.1 [.02]	.2 [.05]	.3 [.07]	.4 [.10]	.5 [.12]	.6 [.15]	.7 [.17]
04EAUS* 04NAUSR	11 x 6 [279 x 152]	1/2 [373]	LOW	650 [307]	620 [293]	585 [276]	550 [260]	510 [241]	475 [224]	435 [205]
			MED-LO	935 [441]	905 [427]	870 [411]	835 [394]	795 [375]	755 [356]	715 [337]
			MED-HI HIGH	1140 [538] 1315 [621]	1105 [522] 1275 [602]	1065 [503] 1230 [580]	1025 [484] 1195 [564]	980 [463] 1155 [545]	935 [441] 1120 [529]	885 [418] 1085 [512]
05EAUE* 05NAUER	11 x 6 [279 x 152]	1/2 [373]	LOW	675 [319]	655 [309]	635 [300]	610 [288]	585 [276]	555 [262]	520 [245]
			MED-LO	950 [448]	930 [439]	905 [427]	880 [415]	860 [406]	830 [392]	800 [378]
			MED-HI HIGH	1115 [526] 1270 [599]	1090 [514] 1250 [590]	1070 [505] 1225 [578]	1040 [491] 1200 [566]	1015 [479] 1165 [550]	985 [465] 1130 [533]	945 [446] 1085 [512]
06EAUE* 06NAUER	11 x 6 [279 x 152]	1/2 [373]	LOW	820 [387]	800 [378]	780 [368]	755 [356]	730 [345]	705 [333]	675 [319]
			MED-LO	970 [458]	955 [451]	940 [444]	910 [429]	880 [415]	845 [399]	805 [380]
			MED-HI HIGH	1110 [524] 1265 [597]	1090 [514] 1240 [585]	1070 [505] 1210 [571]	1040 [491] 1175 [555]	1010 [477] 1140 [538]	975 [460] 1100 [519]	935 [441] 1055 [498]
07EAMG* 07NAMGR	11 x 7 [279 x 178]	3/4 [559]	LOW	1245 [588]	1220 [576]	1195 [564]	1165 [550]	1135 [536]	1105 [522]	1065 [503]
			MED-LO	1555 [734]	1515 [715]	1475 [696]	1435 [677]	1395 [658]	1350 [637]	1300 [614]
			MED-HI HIGH	1810 [854] 2050 [967]	1755 [828] 1985 [937]	1705 [805] 1915 [904]	1645 [776] 1845 [871]	1585 [748] 1785 [842]	1530 [722] 1715 [809]	1470 [694] 1655 [781]
10EAME* 10NAMR	11 x 7 [279 x 178]	1/2 [373]	LOW	925 [437]**	890 [420]**	865 [408]**	835 [394]**	810 [382]**	775 [366]**	745 [352]**
			MED-LO	1050 [496]	1040 [491]	1030 [486]	990 [467]	960 [453]	920 [434]	890 [420]
			MED-HI HIGH	1220 [576] 1410 [665]	1195 [564] 1380 [651]	1160 [547] 1345 [635]	1140 [538] 1300 [614]	1105 [522] 1255 [592]	1065 [503] 1205 [569]	1020 [481] 1150 [543]
10EBRJ* 10NBRJR	11 x 10 [279 x 254]	3/4 [559]	LOW	1295 [611]	1275 [602]	1250 [590]	1225 [578]	1195 [564]	1165 [550]	1135 [536]
			MED-LO	1645 [776]	1615 [762]	1580 [746]	1550 [732]	1510 [713]	1465 [691]	1425 [673]
			MED-HI HIGH	2045 [965] 2320 [1095]	2000 [944] 2260 [1067]	1955 [923] 2200 [1038]	1905 [899] 2130 [1005]	1845 [871] 2060 [972]	1785 [842] 1985 [937]	1720 [812] 1910 [901]
12EARJ* 12NARJR	11 x 10 [279 x 254]	3/4 [559]	LOW	1280 [604]	1275 [602]	1265 [597]	1245 [588]	1215 [573]	1185 [559]	1145 [540]
			MED-LO	1645 [776]	1635 [772]	1615 [762]	1590 [750]	1560 [736]	1520 [717]	1470 [694]
			MED-HI HIGH	2050 [967] 2365 [1116]	2015 [951] 2310 [1090]	1960 [925] 2250 [1062]	1935 [913] 2185 [1031]	1885 [890] 2115 [998]	1835 [866] 2035 [960]	1775 [838] 1950 [920]
15EARJ* 15NARJR	11 x 10 [279 x 254]	3/4 [559]	LOW	1270 [599]	1250 [590]	1220 [576]	1195 [564]	1165 [550]	1135 [536]	1105 [522]
			MED-LO	1620 [765]	1595 [753]	1570 [741]	1545 [729]	1515 [715]	1480 [698]	1440 [680]
			MED-HI HIGH	2010 [949] 2340 [1104]	1985 [937] 2275 [1074]	1960 [925] 2215 [1045]	1915 [904] 2145 [1012]	1850 [873] 2080 [982]	1800 [850] 2010 [949]	1730 [816] 1940 [916]

NOTES: *Designates "R" for U.S. models, and "A" for Canadian models.

**Not to be used as a heating speed.

Data compiled with factory filters installed.

[] Designates Metric Conversions

GENERAL TERMS OF LIMITED WARRANTY*

Ruud 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.

Gas Heat Exchanger Limited Warranty Twenty (20) Years
 Draft Inducer Limited Warranty Five (5) Years
 Integrated Control Board
 Limited Warranty Five (5) Years
 Any Other Part One (1) Year

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

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

**RHEEM
AIR CONDITIONING
DIVISION**



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