

Ruud Achiever® Series Highboy & Oll Furnaces with ECM/Variable Speed Motors





ROCA-***E: Highboy Series ROLA-***E: Lowboy Series

Input Ratio from 84,000 to 175,000 BTU/HR [24.61 to 51.28 kW]



- The Ruud Achiever® Series premium upflow oil furnace is for installation in proper ventilated utility rooms, closets or alcoves.
- ECM blower assemblies for heating and air conditioning applications
- ECM Control board located in furnace vestibule
- ECM controls set for 2-stage air conditioning, 2-stage heat pump back up
- 10-gauge primary and 14-gauge secondary heat exchanger
- Front cleanout ports extend through front wall for accessibility
- Efficiencies up to 85.9%
- Front or rear flue Lowboys available
- All furnaces have standard Honeywell controls
- Available with Beckett, Riello Carlin burners
- Extended vestibule on all units





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STANDARD EQUIPMENT

The Ruud *Achiever® Series* Oil Furnace is fully assembled and offers the option of 3 separate burner in a box combinations. Highboy and Lowboy configurations available. Standard Honeywell Controls and barometric draft control. The unit has an extended vestibule to conceal burner and operating controls. A 10-gauge primary and 14-gauge secondary heat exchanger include accessible cleanout ports that extend through the front wall of the furnace enclosure for ease of serviceability. Variable speed ECM motor and control board is engineered to accept 2-stage air conditioning and 2-stage heat pump backup. An external filter and filter rack is included ROCA series furnaces.

WARNING

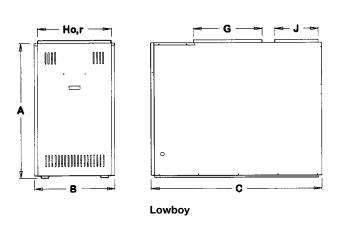
THIS FURNACE IS NOT APPROVED
OR RECOMMENDED
FOR USE IN MOBILE HOMES

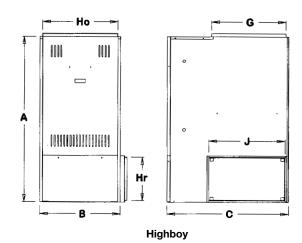
Specifications and Dimensions ECM Motor

| FURNACE | | | | | | | | | | | | |
|--|--------------------------------------|----------|------------|---------------|------------|-------------------|------------|------------|------------|------------|--|--|
| Furnace Type | | | Lowboy* | | | Highboy | | | | | | |
| Model | ROLA-070E | | | ROLA | -115E | | ROCA-070E | | ROCA-115E | | | |
| DIMENSIONS | | | | | | | | | | | | |
| Cabinet Height (A) | | 40" | | 46" | | | 53-5/8" | 56-1/2" | | | | |
| Cabinet Width (B) | | 20-1/4" | | 25-1/8" | | | 22-1/4" | 25-1/2" | | | | |
| Cabinet Depth (C) | | 47-1/2" | | 53- | 5/8" | | 33-1/8" | 38" | | | | |
| Centerline - Flue to Floor (D) | | 31-1/4" | | 38- | 1/2" | | 49-1/8" | 52-5/8" | | | | |
| Centerline - Flue to Side (E) | | 10-1/8" | | 12- | 1/2" | | 11-1/8" | | 12-3/4" | | | |
| Warm Air Supply Depth (G) | | 17-1/2" | | 21- | 1/2" | | 19-3/4" | | 23- | 3/8" | | |
| Warm Air Supply Width (Ho) | | 18-1/4" | | | 7/8" | | 20-1/2" | 23-3/4" | | | | |
| Return Air Supply Width (Hr) | | 18-1/4" | | 22- | 7/8" | | 15" | 15" | | | | |
| Return Air Supply Depth (J) | | 14" | | | 13-5/8" | | | | 23- | 5/8" | | |
| | | | | SPECIFICATI | ONS | | | | | | | |
| Flue Size | | 6" | | 6" | | | 6" | 6" | | | | |
| Filter Size | 16" x 20" (2) | | | 16" x 20" (2) | | | 16" x 25" | 16" x 25" | | | | |
| Blower Size | 100-10T | | | 100-10T | | | 100-10T | 100-10T | | | | |
| Shipping Weight | 323 lbs. | | 362 | | | | 298 lbs. | | 347 | lbs. | | |
| B.T.U.H. Input | 84,000 | 105,000 | 119,000 | 140,000 | 175,000 | 84,000 | 105,000 | 119,000 | 140,000 | 175,000 | | |
| B.T.U.H. Output | 71,000 | 88,000 | 99,000 | 116,000 | 143,000 | 71,000 | 88,000 | 99,000 | 116,000 | 143,000 | | |
| Beckett AFG Nozzle @ 100psi | .60 80°A | .75 80°B | .85 80°B | 1.00 80°B | 1.25 80°B | .60 80°A | .75 80°B | .85 80°B | 1.00 80°B | 1.25 80°B | | |
| Riello 40 Nozzle @ 150psi | .50 60°A | .60 60°A | .65 60°A | .85 80°B | 1.00 80°B | .50 60°A | .60 60°A | .65 60°A | .85 80°B | 1.00 80°B | | |
| Carlin EZ-1 Nozzle @ 100psi | .60 70°A | .75 70°A | .85 70°A | 1.00 60°SS | 1.25 60°SS | .60 70°A | .75 70°A | .85 70°A | 1.00 60°SS | 1.25 60°SS | | |
| AFUE Seasonal Efficiency | 85.9% | 85.4% | 85.0% | 85.0% | 84.2% | 85.9% | 85.4% | 85.0% | 85.0% | 82.3% | | |
| Blower Motor Drive | Direct/ECM Direct/ECI | | Direct/ECM | Direct/ECM | Direct/ECM | Direct/ECM | Direct/ECM | Direct/ECM | Direct/ECM | Direct/ECM | | |
| Heating Ext. Static Pressure In. [kPa] | .2 [.05] .2 [.05] | | .2 [.05] | .2 [.05] | .2 [.05] | .2 [.05] .2 [.05] | | .2 [.05] | .2 [.05] | .2 [.05] | | |
| Max. Ext. Static Pressure In. [kPa] | 1 1 1 | | .5 [.12] | .5 [.12] | .5 [.12] | .5 [.12] .5 [.12] | | .5 [.12] | .5 [.12] | .5 [.12] | | |
| Temperature Rise Range °F [°C] | 50-75 [28-42] 50-75 [28-42] 50-75 [2 | | | | | | | | | - 4 | | |
| Blower Motor Full Load Amps | 9.6 | 9.6 | 9.6 | 9.6 9.6 | | 9.6 9.6 | | 9.6 | 9.6 | 9.6 | | |
| Total Current | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 12.2 | | 12.2 | 12.2 | 12.2 | | |
| Minimum Circuit Ampacity | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | 14.5 | | |

^{*} Specify front or rear flue on Lowboy models

[] Designates Metric Conversions





Model Number Identification—Highboy and Lowboy Models

| <u>R</u> | <u>o</u> | Ŀ | <u>A</u> | <u>070</u> | <u>E</u> | <u>04</u> | <u>B</u> | <u>F</u> |
|----------|-----------------------------|-----------------------------|-----------------------|---|--------------------------------|--|--|---|
| Ruud | Oil Furnace esignates | Type C = Highboy L = Lowboy | Design Series ersions | Heating Input Designation (Output BTU/HR) 070 = 70,000 [20.5 kW] 115 = 115,000 [33.8 kW] | Motor Type E = ECM Motor | Heating and Cooling Designation 03 = Up to 3 tons cooling CFM for 070 models 04 = Up to 4 tons cooling CFM for 070 models 05 = Up to 5 tons cooling CFM for 115 models | Burner Type B = Beckett Burners C = Carlin Burners R = Riello Burners | Variations (Applies only to ROLA Models) F = Front Flue R = Rear Flue |

Blower Performance Data—Highboy and Lowboy Models

| MODEL | LOWBOY | | | | | | | HIGHBOY | | | | | | | | |
|------------------------|------------------------|------|------|-------------|------|------|-------------|---------|------|-------------|------|-------------|------|------|-------------|------|
| MODEL | R0LA-070E03 | | | ROLA-070E04 | | | ROLA-115E05 | | | ROCA-070E03 | | ROCA-070E04 | | | ROCA-115E05 | |
| Horsepower/Speed | 3/4 HP, Variable Speed | | | | | | | | | | | | | | | |
| Heating CFM | 900 | 1100 | 1250 | 900 | 1100 | 1250 | 1550 | 1925 | 900 | 1100 | 1250 | 900 | 1100 | 1250 | 1550 | 1925 |
| Cooling CFM 1-1/2 Tons | 600 | 600 | 600 | N/A | N/A | N/A | N/A | N/A | 600 | 600 | 600 | N/A | N/A | N/A | N/A | N/A |
| Cooling CFM 2 Tons | 800 | 800 | 800 | N/A | N/A | N/A | N/A | N/A | 800 | 800 | 800 | N/A | N/A | N/A | N/A | N/A |
| Cooling CFM 2-1/2 Tons | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | N/A | N/A | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | N/A | N/A |
| Cooling CFM 3 Tons | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
| Cooling CFM 3-1/2 Tons | N/A | N/A | N/A | 1400 | 1400 | 1400 | 1400 | 1400 | N/A | N/A | N/A | 1400 | 1400 | 1400 | 1400 | 1400 |
| Cooling CFM 4 Tons | N/A | N/A | N/A | 1600 | 1600 | 1600 | 1600 | 1600 | N/A | N/A | N/A | 1600 | 1600 | 1600 | 1600 | 1600 |
| Cooling CFM 5 Tons | N/A | N/A | N/A | N/A | N/A | N/A | 2000 | 2000 | N/A | N/A | N/A | N/A | N/A | N/A | 2000 | 2000 |
| Shipping Weight | 323 | 323 | 323 | 323 | 323 | 323 | 362 | 362 | 298 | 298 | 298 | 298 | 298 | 298 | 347 | 347 |

GENERAL TERMS OF LIMITED WARRANTY*

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

*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.

Oil Heat Exchanger....Limited Lifetime Any Other Part.....Five (5) Years



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