

OUIFB/OLFB/OHFB/ OHRB/OLRB

SPECIFICATIONS

Configurations

- Upflow / Highboy
- Basement / Lowboy
- Horizontal / Counterflow

Heat Exchanger

- Heavy-duty 14 gauge steel with a long lasting, high temperature ceramic fiber combustion chamber
- Easy access large diameter stainless steel cleanout ports

Burner

- High quality Beckett™ Flame Retention NX Burner for efficient combustion
- High efficiency PSC Burner motor to provide consistent operation through all operating conditions
- Solid state ignition provides a consistent 10,000 volts for smooth ignition

Cabinet

- Foil-faced high density fiberglass insulation reduces heat loss and sound
- Pre-painted steel for maximum durability

Air Delivery

- Variable speed blower motor
- Motor features “soft start” and “soft stop” for quiet operation
- Active and passive dehumidification feature
- Easily removable slide-out blower design
- Dynamically balanced blower wheel and resilient motor mounts for smooth and quiet operation

Installation/Serviceability

- Includes a standard barometric damper
- Low GPH nozzle installed, higher GPH nozzle provided (shipped loose)

Advanced Burner Control

- Programmable valve-on delay and motor-off delay
- Three indicator lights for system monitoring and diagnostics
- Two communication ports for adding alarm contracts, programming display, and/or future wireless communications
- Welded relay protection with redundant motor relays
- Limited reset and limited recycle
- Sleek, modern design
- Technician Pump Prime mode



VARIABLE SPEED OIL FURNACES

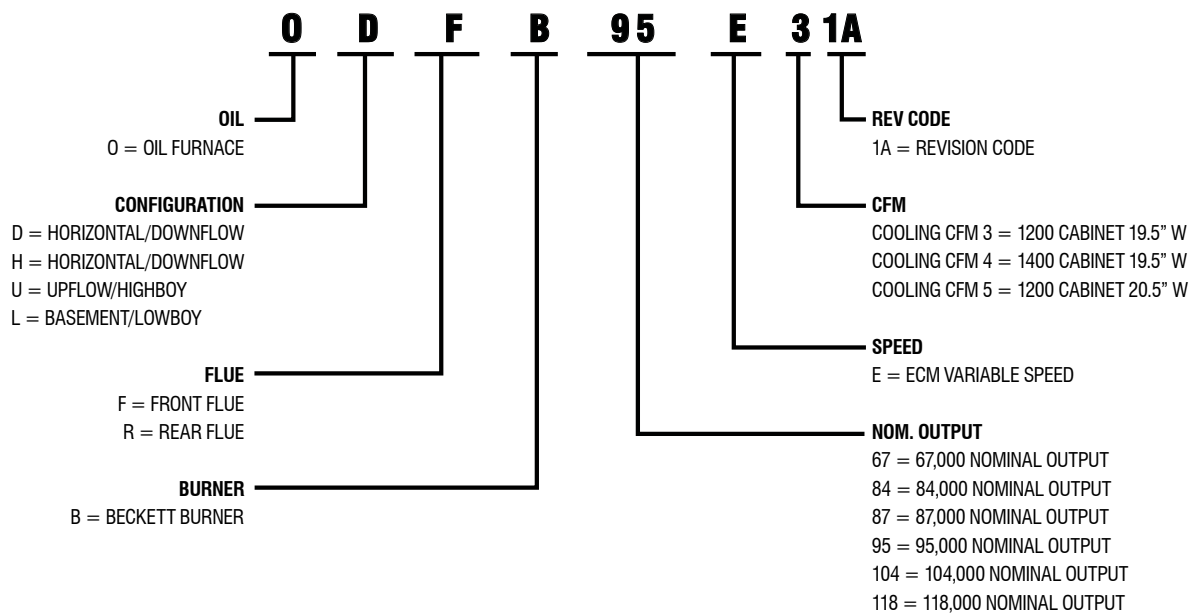
83% / 85%



Warranty

Standard warranty or Extended warranty available with product registration.
See warranty document for details or visit www.marsdelivers.com

MODEL NUMBER GUIDE



PHYSICAL AND ELECTRICAL DATA

| AFUE | Configuration | Model | Nozzle Size | Input (BTUH) | Output (BTUH) | Nom. Cooling Capacity | Flue Dia. (in.) | Filter Size (in.) | Volts/Hz/ Phase | Max Time Delay Breaker or Fuse (amp) | Trans. (V.A.) | Shipping Weight (lb.) |
|------|--------------------------|--------------------------------|-------------|--------------|---------------|-----------------------|-----------------|--|-----------------|--------------------------------------|---------------|-----------------------|
| 83% | Horizontal / Counterflow | OHFB95-E3-1A | .65GPH-80°B | 105,000 | 85,000 | 1.5 - 3.0 | 6 | Filters are not supplied with these models | 120/60/1 | 15 | 40 | 225 |
| | | | .75GPH-80°B | 119,000 | 97,000 | | | | | | | |
| | | OHRB95-E3-1A | .65GPH-80°B | 105,000 | 85,000 | 1.5 - 3.0 | | | 120/60/1 | 15 | 40 | 225 |
| | | | .75GPH-80°B | 119,000 | 97,000 | | | | | | | |
| 85% | Upflow/ Highboy | OUFB87-E4-1A | .50GPH-60°A | 79,000 | 67,000 | 2.5 - 4.0 | 6 | 16 x 25* | 120/60/1 | 15 | 40 | 250 |
| | | | .65GPH-60°A | 105,000 | 87,000 | | | | | | | |
| | | OUFB118-E5-1A | .75GPH-60°A | 124,000 | 104,000 | 3.0 - 5.0 | | (2) * 16 x 25 | 120/60/1 | 15 | 40 | 270 |
| | | | .85GPH-60°A | 141,000 | 118,000 | | | | | | | |
| | Basement/ Lowboy | OLFB87-E4-1A OLRB87-E4-1A | .50GPH-60°A | 79,000 | 67,000 | 2.5 - 4.0 | 6 | 18 x 19 | 120/60/1 | 15 | 40 | 225F |
| | | | .65GPH-60°A | 105,000 | 87,000 | | | | | | | 230R |
| | | OLFB118-E5-1A OLRB118-E5-1A | .75GPH-60°A | 124,000 | 104,000 | 3.0 - 5.0 | | 19 x 21 | 120/60/1 | 15 | 40 | 270 |
| | | | .85GPH-60°A | 141,000 | 118,000 | | | | | | | |

1 Requires return air be brought to both sides above 1600 CFM
Note: All models shipped with lower input nozzle installed
* Filters not included

BLOWER PERFORMANCE DATA

| AFUE | Configuration | Model | Motor Size (hp) | Blower Size | Nozzle GPH | Temp. Rise °F | Blower Speed Tap | Heating CFM @ 0.50" ESP | Cooling Adjustment | Cooling CFM @ .50 ext static pressure in W.C. | | | |
|------|--------------------------|---------------|-----------------|-------------|------------|---------------|------------------|-------------------------|--------------------|---|-------------|-------------|-------------|
| | | | | | | | | | | Setting "A" | Setting "B" | Setting "C" | Setting "D" |
| 83% | HORIZONTAL / COUNTERFLOW | ODFB95-E3-1A | 1/2 | 10 x 10 | | --- | --- | --- | Nom | 1200 | 1000 | 800 | 600 |
| | | | | | | | --- | --- | (+) | 1350 | 1125 | 900 | 700 |
| | | | | | | | --- | --- | (-) | 975 | 830 | 670 | 525 |
| | | | | | | | 70 | 1000 | --- | --- | --- | --- | --- |
| | | | | | | | 70 | 1200 | --- | --- | --- | --- | --- |
| | | | | | | | | | | | | | |
| | | OHRB95-E3-1A | 1/2 | 10 x 10 | | --- | --- | --- | Nom | 1200 | 1000 | 800 | 600 |
| | | | | | | | --- | --- | (+) | 1350 | 1150 | 900 | 675 |
| | | | | | | | --- | --- | (-) | 1000 | 850 | 675 | 500 |
| | | | | | | | 60 | 900 | --- | --- | --- | --- | --- |
| | | | | | | | 60 | 1100 | --- | --- | --- | --- | --- |
| | | | | | | | | | | | | | |
| 85% | UPFLOW / HIGHBOY | OUFB87-E4-1A | 1/2 | 10 x 10 | | --- | --- | --- | Nom | 1400 | 1200 | 1000 | 800 |
| | | | | | | | --- | --- | (+) | 1500 | 1400 | 1200 | 1000 |
| | | | | | | | --- | --- | (-) | 1200 | 1000 | 900 | 650 |
| | | | | | | | .50 | 50 | D Tap Setting* | 1200 | --- | --- | --- |
| | | | | | | | .65 | 50 | A Tap Setting* | 1500 | --- | --- | --- |
| | | | | | | | | | | | | | |
| | | OUFB118-E5-1A | 3/4 | 12 x 11 | | --- | --- | --- | Nom | 2000 | 1800 | 1600 | 1200 |
| | | | | | | | --- | --- | (+) | 2000 | 2000 | 1800 | 1600 |
| | | | | | | | --- | --- | (-) | 1700 | 1550 | 1400 | 1200 |
| | | | | | | | .75 | 60 | C Tap Setting* | 1550 | --- | --- | --- |
| | | | | | | | .85 | 60 | A Tap Setting* | 1850 | --- | --- | --- |
| | | | | | | | | | | | | | |
| | BASEMENT / LOWBOY | OLFB87-E4-1A | 1/2 | 10 x 9 | | --- | --- | --- | Nom | 1400 | 1200 | 1000 | 800 |
| | | | | | | | --- | --- | (+) | 1500 | 1400 | 1200 | 950 |
| | | | | | | | --- | --- | (-) | 1200 | 1050 | 860 | 650 |
| | | | | | | | .50 | 50 | D Tap Setting* | 1200 | --- | --- | --- |
| | | | | | | | .65 | 50 | B Tap Setting* | 1450 | --- | --- | --- |
| | | | | | | | | | | | | | |
| | | OLFB118-E5-1A | 1 | 12 x 10 | | --- | --- | --- | Nom | 2000 | 1800 | 1600 | 1200 |
| | | | | | | | --- | --- | (+) | 2100 | 2000 | 1800 | 1350 |
| | | | | | | | --- | --- | (-) | 1650 | 1500 | 1350 | 950 |
| | | | | | | | .75 | 60 | C Tap Setting* | 1550 | --- | --- | --- |
| | | | | | | | .85 | 60 | B Tap Setting* | 1730 | --- | --- | --- |
| | | | | | | | | | | | | | |
| | | OLRB87-E4-1A | 1/2 | 10 x 9 | | --- | --- | --- | Nom | 1400 | 1200 | 1000 | 800 |
| | | | | | | | --- | --- | (+) | 1500 | 1400 | 1200 | 950 |
| | | | | | | | --- | --- | (-) | 1200 | 1050 | 860 | 650 |
| | | | | | | | .50 | 50 | D Tap Setting* | 1200 | --- | --- | --- |
| | | | | | | | .65 | 50 | A Tap Setting* | 1550 | --- | --- | --- |
| | | | | | | | | | | | | | |
| | | OLRB118-E5-1A | 1 | 12 x 10 | | --- | --- | --- | Nom | 2000 | 1800 | 1600 | 1200 |
| | | | | | | | --- | --- | (+) | 2100 | 2000 | 1800 | 1350 |
| | | | | | | | --- | --- | (-) | 1650 | 1500 | 1350 | 950 |
| | | | | | | | .75 | 60 | D Tap Setting* | 1450 | --- | --- | --- |
| | | | | | | | .85 | 60 | B Tap Setting* | 1730 | --- | --- | --- |
| | | | | | | | | | | | | | |

Note: All units shipped with low fire nozzle

* Required tap to maintain recommended rise.

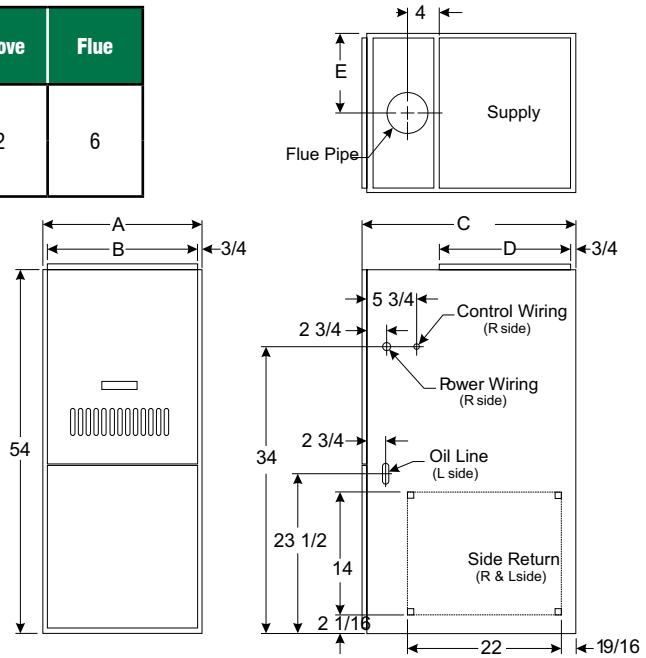


UPFLOW: DIMENSIONS (IN.)

| Model | A | B | C | D | E |
|---------------|--------|----|--------|--------|--------|
| OUFB87-E4-1A | 19 1/2 | 18 | 30 5/8 | 19 5/8 | 9 3/4 |
| OUFB118-E5-1A | 22 1/2 | 21 | 33 1/8 | 22 1/8 | 11 1/4 |

UPFLOW: CLEARANCES TO COMBUSTIBLES (IN.)

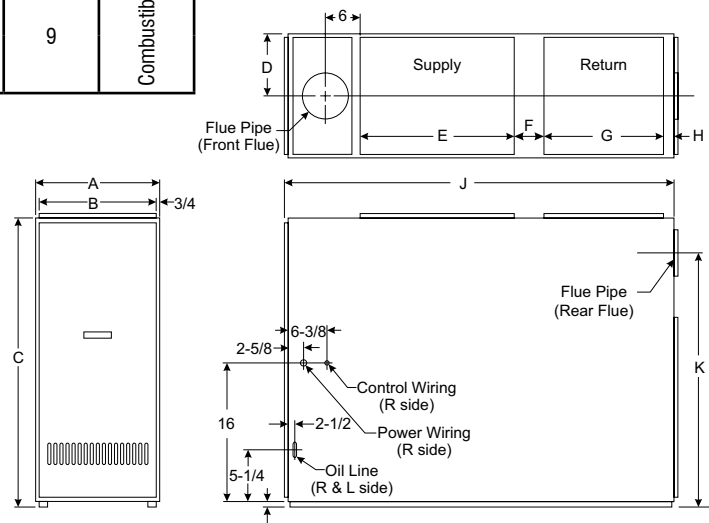
| Model | Front | Sides | Rear | Floor | Above | Flue |
|---------------|-------|-------|------|-------------|-------|------|
| OUFB87-E4-1A | 4 | 0 | 0 | Combustible | 2 | 6 |
| OUFB118-E5-1A | | | | | | |

**BASEMENT: DIMENSIONS (IN.)**

| Model | A | B | C | D | E | F | G | H | J | K |
|--------------------------------|--------|----|----|--------|----|-------|----|-------|----|-----|
| OLFB87-E4-1A OLRB87-E4-1A | 19 1/2 | 18 | 37 | 9 3/4 | 21 | 3 1/4 | 16 | 1 1/2 | 52 | N/A |
| OLFB118-E5-1A OLRB118-E5-1A | 22 1/2 | 21 | 37 | 11 1/4 | 21 | 3 1/4 | 16 | 1 1/2 | 52 | N/A |

BASEMENT: CLEARANCES TO COMBUSTIBLES (IN.)

| Model | Front | Sides | Rear | Above | Flue | Floor |
|--------------------------------|-------|-------|------|-------|------|-------------|
| OLFB87-E4-1A OLRB87-E4-1A | 4 | 6 | 24 | 2 | 9 | Combustible |
| OLFB118-E5-1A OLRB118-E5-1A | | | | | | |



HORIZONTAL/COUNTERFLOW: DIMENSIONS (IN.)

| Model | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S |
|--------------|----|--------|--------|--------|-------|-------|-------|----|----|-------|-------|--------|--------|---|--------|---|--------|
| OHFB95-E3-1A | 59 | 20 1/2 | 20 1/2 | 18 1/4 | 18/14 | 1 1/4 | 1 1/4 | 18 | 18 | 1 1/4 | 1 1/4 | 32 1/2 | 10 1/4 | 3 | 41 1/2 | 3 | 14 1/2 |
| OHRB95-E3-1A | 59 | 20 1/2 | 20 1/2 | 18 1/4 | 18/14 | 1 1/4 | 1 1/4 | 18 | 18 | 1 1/4 | 1 1/4 | 32 1/2 | 10 1/4 | 3 | 41 1/2 | 3 | 14 1/2 |

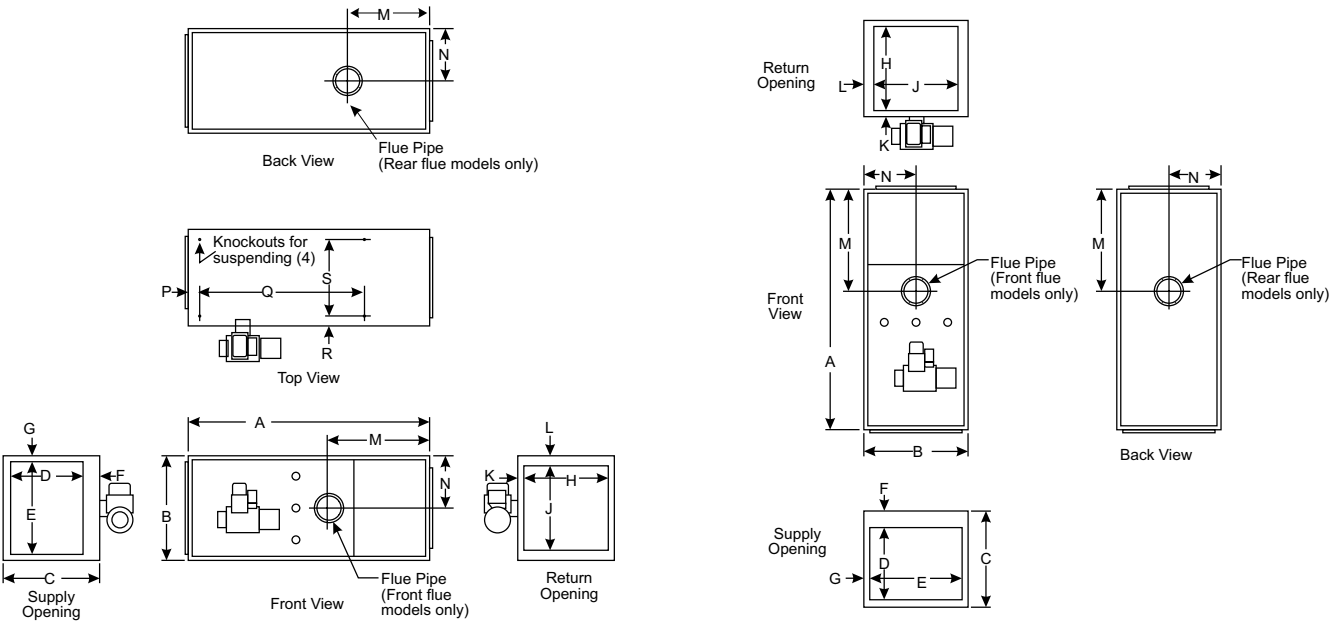
HORIZONTAL: CLEARANCES TO COMBUSTIBLES (IN.)

| Model | Front | Sides | Rear | Floor | Above | Flue |
|--------------|-------|-------|------|-------------|-------|------|
| OHFB95-E3-1A | 24 | 1 | 1 | Combustible | 1 | 7 |
| OHRB95-E3-1A | | 6 | 24 | | 4 | 9 |

COUNTERFLOW: CLEARANCES TO COMBUSTIBLES (IN.)

| Model | Front | Sides | Rear | Floor | Above | Flue |
|--------------|-------|-------|------|-------------|-------|------|
| OHFB95-E3-1A | 16 | 1 | 1 | Combustible | 0 | 1 |
| OHRB95-E3-1A | | | | | | |

* The minimum clearance shown to the flue pipe may be reduced by using special protection permitted by local building codes and National Fire Protection Association Standards and CSA 139.



ACCESSORIES

| DESCRIPTION | USED WITH | CATALOG NUMBER | KIT NUMBER |
|-------------------------------------|---|----------------|----------------|
| Clean Out Kit | All Models | 1.841025 | ABRSH380-3 |
| Field Controls Side Wall Vent Kit * | All Models | See Note Below | See Note Below |
| Evaporator Coil Mounting Kit | L85B(F/R)67/87 to EU1P (18,24,30,36,43,48) BN "B Width" | 1.841175 | AGOILKDC19 |
| | L85BF/R67/87 to EU1P (30,43,48,49,50,60) "C Width" | 1.841176 | AGOILKDC22 |
| | L85BF/R104/118 to EU1P (60, 62) DN "D Width" | 1.841177 | AGOILKDC24 |
| Combustion Air Kit | All Models | 1.841038 | ABOOT571 |
| Clean Out Cap Kit | All Models | 1.841037 | ACAP570 |
| Filter Rack | Only Upflow units (Basement models have racks pre-installed) | R37398C001 | 5 Pack |
| Filter Kit | Only Horizontal / Counterflow units | 1.841050 | AFILT535-1 |

* This can be ordered from Field Controls, part number SWG-5-CK61.



Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.

"This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."