

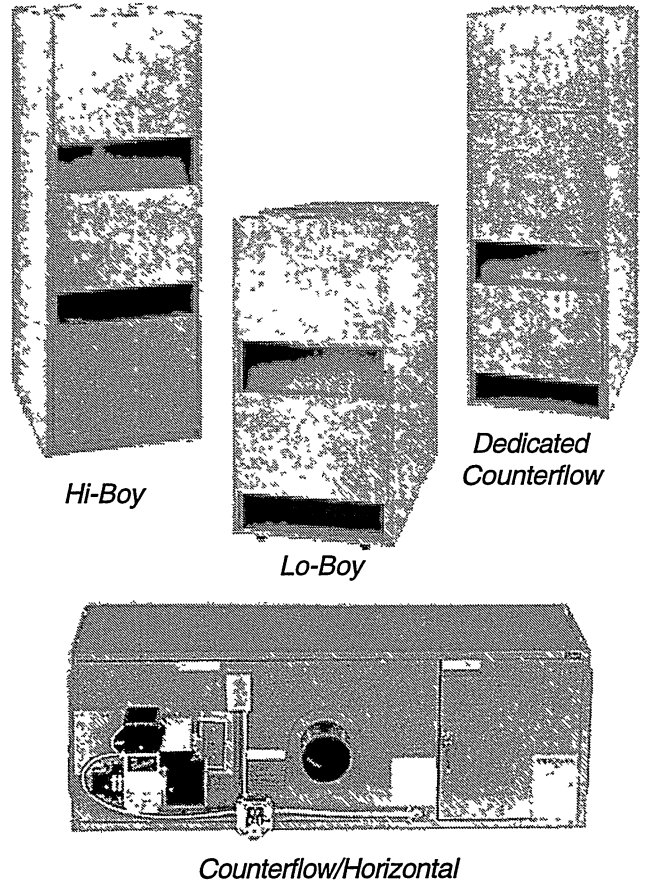
# TECHNICAL SPECIFICATIONS

## O3 Series Oil Furnaces

### Models

|                       |                        |
|-----------------------|------------------------|
| <b>O3LD-112A Rear</b> | <b>O3LD-112A Front</b> |
| <b>O3LD-148A-16 R</b> | <b>O3LD-148A-16 F</b>  |
| <b>O3HD-112A-16</b>   | <b>O3MD-096A-16</b>    |
| <b>O3CD-096A-16</b>   |                        |

The O3 Series Oil Furnace from Nordyne combines time proven design in the Classic Low Boy, High Boy, Horizontal/Counterflow and Dedicated Counterflow configurations. The units are multi-fired for a wide range of outputs (.60 to 1.25 G.P.H. depending on model). Classic design, versatility and reliability are important attributes that oil heat professionals have come to rely upon. In addition, the O3 Series Oil Furnace is backed by the best warranty in the business — 6 years on parts and limited lifetime on the Heat Exchanger. Thanks for choosing the O3 Series.



## FEATURES and BENEFITS

- **Warranty** – The best warranty in the business! **6 years on parts and a limited lifetime heat exchanger warranty.**
- **Cabinet Construction** – 20 gauge steel. Seal-Tite design, completely assembled at factory with leveling legs.
- **Finish** – Electrostatic powder coat for greater durability.
- **Firing Rates** – Multi-firing rates for a wide range of applications.
- **Burner** – Factory pre-wired, pre-assembled and tested. Constant ignition, pressure atomizing type. Shipped assembled in furnace. Ready to connect to fuel supply line.
- **Controls** – Constant ignition primary control, combination blower and limit control.
- **Heat Exchanger** – 14 gauge, hot rolled alloy steel. Large, accessible heat exchanger clean-out ports.
- **Radiator** – “Wrap-around” type for maximum heat transfer.
- **Blower** – Squirrel cage type. Permanently lubricated, resilient mounted.
- **Blower Motor** – Designed for heavy-duty, continuous operation. Thermally protected. Three-speed direct drive is standard.
- **Blower Assembly** – Entire unit with motor can be easily removed for servicing.
- **Filters** – Extra large filtration area.
- **Insulation** – Spun glass and aluminum foil for “hand cool” cabinet.
- **Access Door** – Easily removed for access to burner and controls. Completely enclosed controls and burner.
- **A.F.U.E.** Ratings up to 84%.
- **Flue** – Low Boy models are available front or rear flue as a no cost option.
- **Air Conditioning** – Pre-wired fan center relay is standard on all direct drive models.

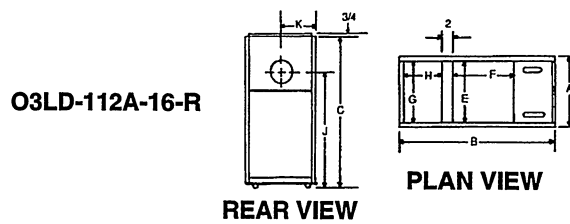
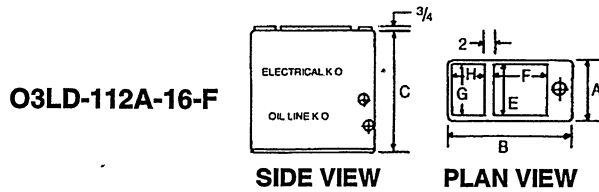
# Lo-Boy Front & Rear Flue Outlet

O3LD-112A R  
O3LD-112A F

High Output Models  
O3LD-148A-16 R  
O3LD-148A-16 F

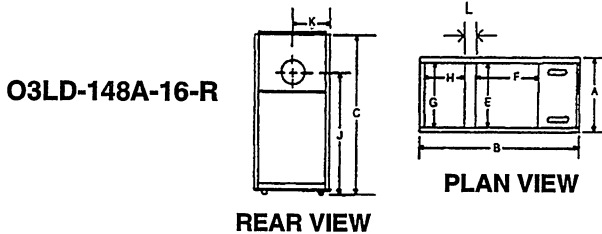
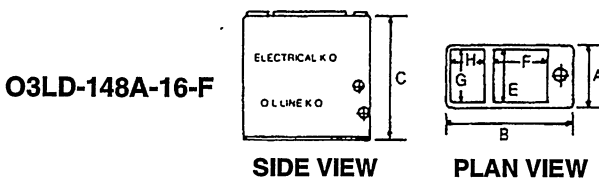
## DIMENSIONS:

| Model No.      | Casing Size |         |          | W.A. Plenum |         | R.A. Plenum |         | Dia. of Flue Pipe | Location of Flue Pipe |    |
|----------------|-------------|---------|----------|-------------|---------|-------------|---------|-------------------|-----------------------|----|
|                | Width A     | Depth B | Height C | Width E     | Depth F | Width G     | Depth H |                   | J                     | K  |
| O3LD-112A-16-F | 22          | 46      | 42-1/8   | 20          | 20      | 20          | 12-1/2  | 6                 | —                     | —  |
| O3LD-112A-16-R | 22          | 46      | 42-1/8   | 20          | 20      | 20          | 12-1/2  | 6                 | 31                    | 11 |



## High Output

| Model No.      | Furnace Casing |         |          | Warm Air Supply |         | Return Air |         | Dia. of Flue Pipe | Location of Flue Pipe |        |   |
|----------------|----------------|---------|----------|-----------------|---------|------------|---------|-------------------|-----------------------|--------|---|
|                | Width A        | Depth B | Height C | Width E         | Depth F | Width G    | Depth H |                   | J                     | K      | L |
| O3LD-148A-16-R | 25-1/4         | 52-1/2  | 46       | 23              | 21-1/2  | 23         | 13-1/2  | 6                 | 38-1/2                | 12-1/2 | 4 |
| O3LD-148A-16-F | 25-1/4         | 52-1/2  | 46       | 23              | 21-1/2  | 23         | 13-1/2  | 6                 | —                     | —      | 4 |



## SYSTEM SPECIFICATIONS:

| Model No.       | BTU Input | Heating Capacity BTU/HR | AFUE | AFUE w/vent Damper | Blower Performance CFM @ 0.5 w.c. D. Drive | Nozzle G.P.H. (Oil) | Angle of Spray (Oil) | No. & Size of Filters | Ship Wt. |
|-----------------|-----------|-------------------------|------|--------------------|--|---------------------|----------------------|-----------------------|----------|
| O3LD-112A-16-F* | 85,000    | 68,000                  | 82.0 | 84.0               | 950 - 1,300 - 1,600                        | 0.60                | .60x80°A             | (1) 20x20             | 315      |
|                 | 105,000   | 84,000                  | 81.0 | 82.0               | 950 - 1,300 - 1,600                        | 0.75                | .75x80°A             | (1) 20x20             | 315      |
|                 | 120,000   | 96,000                  | 80.0 | 81.5               | 950 - 1,300 - 1,600                        | 0.85                | .85x80°A             | (1) 20x20             | 315      |
|                 | 140,000   | 112,000                 | 80.0 | 81.0               | 950 - 1,300 - 1,600                        | 1.00                | 1.00x80°A            | (1) 20x20             | 315      |
| O3LD-112A-16-R* | 85,000    | 68,000                  | 82.0 | 84.0               | 950 - 1,300 - 1,600                        | 0.60                | .60x80°A             | (2) 10x20             | 315      |
|                 | 105,000   | 84,000                  | 81.0 | 82.0               | 950 - 1,300 - 1,600                        | 0.75                | .75x80°A             | (2) 10x20             | 315      |
|                 | 120,000   | 96,000                  | 80.0 | 81.5               | 950 - 1,300 - 1,600                        | 0.85                | .85x80°A             | (2) 10x20             | 315      |
|                 | 140,000   | 112,000                 | 80.0 | 81.0               | 950 - 1,300 - 1,600                        | 1.00                | 1.00x80°A            | (2) 10x20             | 315      |

## High Output

| Model No.      | Input BTU/H | Output BTU/H | AFUE | Blower Size | Blower Motor H.P. | Blower Performance CFM @ 0.5 w.c. D. Drive | Nominal Cooling Cap. Tons | Nozzle G.P.H. (Oil) | Angle of Spray (Oil) | No. & Size of Filters | Ship Wt. |
|----------------|-------------|--------------|------|-------------|-------------------|--|---------------------------|---------------------|----------------------|-----------------------|----------|
| O3LD-148A-16-R | 140,000     | 120,000      | 85.0 | 120-12T     | 3/4               | 1,400 - 1,600 - 2,000                      | 4 - 5                     | 1.00                | 80°B                 | (2) 16 x 20           | 410      |
|                | 175,000     | 148,500      | 84.2 | 120-12T     | 3/4               | 1,400 - 1,600 - 2,000                      | 4 - 5                     | 1.25                | 80°B                 | (2) 16 x 20           | 410      |
| O3LD-148A-16-F | 140,000     | 120,000      | 85.0 | 120-12T     | 3/4               | 1,400 - 1,600 - 2,000                      | 4 - 5                     | 1.00                | 80°B                 | (2) 16 x 20           | 410      |
|                | 175,000     | 148,500      | 84.2 | 120-12T     | 3/4               | 1,400 - 1,600 - 2,000                      | 4 - 5                     | 1.25                | 80°B                 | (2) 16 x 20           | 410      |

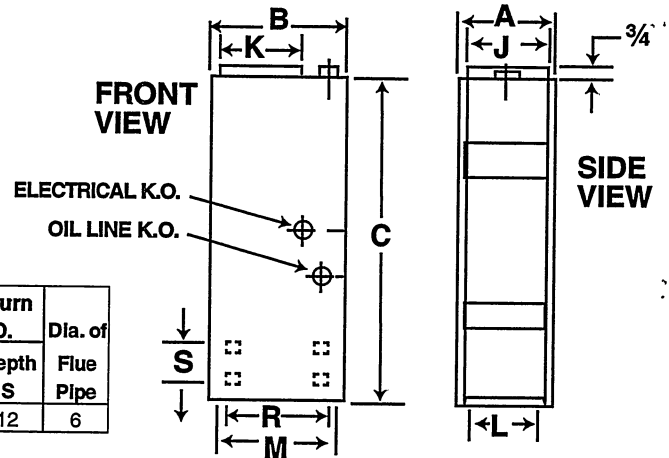
\*Factory set for 105,000 BTU/HR input (.75 gph).  
Three-Speed Direct Drive Blower Standard  
Beckett Burner Standard

**Caution** - All oil furnaces require proper set-up and installation by a certified oil heat technician.

# Hi-Boy O3HD-112A-16

## DIMENSIONS:

| Model No.     | Casing Size |       |        | W.A. Plenum (Top) |       | R.A. Plenum (Bottom) |       | Side Return Air K.O. |       | Dia. of Flue Pipe |
|---------------|-------------|-------|--------|-------------------|-------|----------------------|-------|----------------------|-------|-------------------|
|               | Width       | Depth | Height | Width             | Depth | Width                | Depth | Width                | Depth |                   |
|               | A           | B     | C      | J                 | K     | L                    | M     | R                    | S     |                   |
| O3HD-112A-16* | 22          | 31    | 58     | 20                | 20    | 14                   | 23    | 20                   | 12    | 6                 |



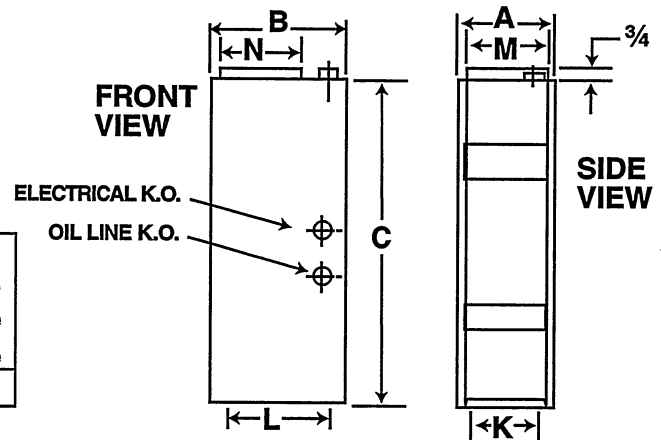
## SYSTEM SPECIFICATIONS:

| Model No.     | BTU Input | Heating Capacity BTU/HR | AFUE | AFUE w/vent Damper | Blower Performance CFM @ 0.5 w.c. D. Drive | Nozzle G.P.H. (Oil) | Angle of Spray (Oil) | No. & Size of Filters | Ship Wt. |
|---------------|-----------|-------------------------|------|--------------------|--|---------------------|----------------------|-----------------------|----------|
| O3HD-112A-16* | 85,000    | 68,000                  | 82.0 | 84.0               | 950 - 1,300 - 1,600                        | 0.60                | .60x80°A             | (1) 16x25             | 290      |
|               | 105,000   | 84,000                  | 81.0 | 82.0               | 950 - 1,300 - 1,600                        | 0.75                | .75x80°B             | (1) 16x25             | 290      |
|               | 120,000   | 96,000                  | 80.0 | 81.5               | 950 - 1,300 - 1,600                        | 0.85                | .85x80°B             | (1) 16x25             | 290      |
|               | 140,000   | 112,000                 | 80.0 | 81.0               | 950 - 1,300 - 1,600                        | 1.00                | 1.00x80°B            | (1) 16x25             | 290      |

# Dedicated Counterflow O3CD-096A-16

## DIMENSIONS:

| Model No.    | Casing Size |       |        | W.A. Plenum (bottom) |       | R.A. Plenum (top) |       | Dia. of Flue Pipe |
|--------------|-------------|-------|--------|----------------------|-------|-------------------|-------|-------------------|
|              | Width       | Depth | Height | Width                | Depth | Width             | Depth |                   |
|              | A           | B     | C      | K                    | L     | M                 | N     |                   |
| O3CD-096A-16 | 22          | 31    | 60.0   | 17.00                | 19.25 | 20                | 20    | 6                 |



## SYSTEM SPECIFICATIONS:

| Model No.    | BTU Input | Heating Capacity BTU/HR | AFUE | AFUE w/vent Damper | Blower Performance CMF @ 0.5 w.c. D Drive | Nozzle G.P.H. (Oil) | Angle of Spray (Oil) | No. & Size of Filters | Ship Wt. |
|--------------|-----------|-------------------------|------|--------------------|---|---------------------|----------------------|-----------------------|----------|
| O3CD-096A-16 | 85000     | 68000                   | 82.0 | 84.0               | 950 - 1,300 - 1,600                       | 0.60                | .60 x 80° A          | (2) 10 x 20           | 300      |
|              | 105000    | 84000                   | 81.0 | 82.0               | 950 - 1,300 - 1,600                       | 0.75                | .75 x 80° A          | (2) 10 x 20           | 300      |
|              | 120000    | 96000                   | 80.0 | 81.5               | 950 - 1,300 - 1,600                       | 0.85                | .85 x 80° A          | (2) 10 x 20           | 300      |

\*Factory set for 105,000 BTU/HR input (.75 gph).

Three-Speed Direct Drive Blower Standard

Beckett Burner Standard

**Caution** - All oil furnaces require proper set-up and installation by a certified oil heat technician.

# Horizontal/Counterflow

## O3MD-096A-16

### DIMENSIONS:

| Model No.     | Cabinet Size |        |        | W.A. Plenum (Top) |        | R.A. Plenum (Bottom) |        | Dia. of Flue Pipe |
|---------------|--------------|--------|--------|-------------------|--------|----------------------|--------|-------------------|
|               | Width        | Depth  | Height | Width             | Depth  | Width                | Depth  |                   |
| O3MD-096A-16* | 22-1/4       | 22-1/4 | 61-1/4 | 16-1/4            | 16-1/4 | 16-1/4               | 16-1/4 | 6                 |

### SYSTEM SPECIFICATIONS:

| Model No.     | BTU Input | Heating Capacity BTU/HR | AFUE | Nozzle G.P.H. (Oil) | Nozzle Type (Oil) | Blower CFM @ 0.5 w.c. | Ship Wt. |
|---------------|-----------|-------------------------|------|---------------------|-------------------|-----------------------|----------|
| O3MD-096A-16* | 85,000    | 68,000                  | 83.5 | 0.60                | .60x80°A          | 950 - 1,300 - 1,600   | 275      |
|               | 105,000   | 84,000                  | 82.0 | 0.75                | .75x80°A          | 950 - 1,300 - 1,600   | 275      |
|               | 120,000   | 96,000                  | 81.0 | 0.85                | .85x80°A          | 950 - 1,300 - 1,600   | 275      |

\*Factory set for 105,000 BTU/HR input (.75 gph).

Optional non-combustible floor base is available. Part # CSFB-T169

Furnace requires external filter rack.

Three-Speed Direct Drive Blower Standard

Beckett Burner Standard

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