



Model: EWR03FD

### Enhanced Duty Walk-In Oven

LEWCO Enhanced-Duty Batch Ovens are designed for critical applications, such as those in the advanced materials and aerospace industries. These models offer all of the same construction features as the Normal-Duty ovens; however the performance is "enhanced" by adding additional heat capacity and larger circulation fans. Enhanced-Duty ovens also guarantee a temperature uniformity of at least +/- 10°F. The EWR Series features a rear-mounted heater box, which is ideal for installations with height restrictions. Each unit is fully assembled, wired, and tested prior to shipment. All LEWCO ovens are manufactured to meet the requirements of NFPA 86.

#### Operating Temperature

- 200°F – 350°F (93°C -177°C)

#### Heating Source & Capacity

- Direct fired natural gas, modulating burner with direct coupled, digital actuated control valve provides visual indications of valve position
- High turndown ration allows rapid heat-up and tight temperature control.
- Low CO and NOX emissions
- F.M. compliant fuel train

#### Airflow Pattern

- Dual Airflow: Hot air is supplied from both of the side walls and returned through a top plenum.

#### General Construction

- 16 ga. aluminized steel interior
- 18 ga. cold rolled steel exterior
- Heat loss is minimized by a unique wall design featuring a welded inner shell and a completely isolated outer frame and covers.

#### Finish

- Blue or gray alkyd enamel
- Optional: Premium finish for corrosive environments

#### Doors

- Heavy-duty doors on an isolated door frame minimize heat loss. Wire core gaskets create a tight seal for efficient heating.
- Explosion venting latches
- Standard: Bi-parting swing doors
- Optional:
  - Vertical lift guillotine door
  - Door windows

#### Floor

- Standard: 12 ga. plate floor
- Optional:
  - 12 ga. plate floor with (1) pair inverted angle track
  - 12 ga. plate floor with (1) pair 6" wide wheel guides
  - Insulated (100 p.s.f. max.)
  - Insulated with (1) pair inverted angle track
  - Insulated with (1) pair 6" wide wheel guides
  - No floor

#### Input Voltage

- Standard 480/3/60
- Please consult factory for other available options.

#### Controls

- Single set-point temperature controller and redundant high-limit controller
- NEMA 12 enclosure with full voltage lockable disconnect switch
- Circulation fan(s) include air proving circuits that are electrically interlocked with the heating circuit.
- Controls are wired to NFPA 70 and 79 electrical standards, and meet the requirements of NFPA 86, Class B ovens.
- Optional:
  - Door Switch
  - Batch Timer
  - Ramp/ Soak controller
  - Data logger/ chart recorder
  - Zero speed switch for fans
  - Composite curing controls

#### Quality Assurance

- Each unit comes complete with a (1) year warranty and is fully assembled, wired, and tested prior to shipment.
- Unit manufactured under ISO 9001 Quality Certified System.



# Industrial Batch Ovens

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| Model<br>(NFPA Class B) | Overall Dimensions |     |     | Door Swing Radius | Workspace Dimensions |     |     | Workspace Volume (cubic ft.) | Burner (BTU/ Hr) | Circulating Fan(s) (CFM) | Motor(s) (HP) | Air Changes per Minute | Exhaust Fan Capacity (CFM) | Exhaust Motor (HP) | Solvents per Batch (Gals.) | Ships Fully Assembled |
|-------------------------|--------------------|-----|-----|-------------------|----------------------|-----|-----|------------------------------|------------------|--------------------------|---------------|------------------------|----------------------------|--------------------|----------------------------|-----------------------|
|                         | "W                 | "D  | "H  |                   | "W                   | "D  | "H  |                              |                  |                          |               |                        |                            |                    |                            |                       |
| EWR03FD-48-48-60        | 79                 | 106 | 123 | 34"               | 48                   | 48  | 60  | 80                           | 200,000          | 3,500                    | 3             | 43.75                  | 100                        | 1/4                | 0                          | Yes                   |
| EWR03FD-48-48-72        | 81                 | 106 | 135 | 34"               | 48                   | 48  | 72  | 96                           | 200,000          | 4,000                    | 3             | 41.67                  | 100                        | 1/4                | 0                          | Yes                   |
| EWR03FD-48-48-96        | 83                 | 106 | 159 | 34"               | 48                   | 48  | 96  | 128                          | 200,000          | 5,500                    | 3             | 42.97                  | 100                        | 1/4                | 0                          | No                    |
| EWR03FD-60-60-60        | 95                 | 118 | 123 | 40"               | 60                   | 60  | 60  | 125                          | 200,000          | 5,000                    | 3             | 40.00                  | 100                        | 1/4                | 0                          | Yes                   |
| EWR03FD-60-60-72        | 95                 | 122 | 135 | 40"               | 60                   | 60  | 72  | 150                          | 200,000          | 6,000                    | 3             | 40.00                  | 100                        | 1/4                | 0                          | Yes                   |
| EWR03FD-60-60-96        | 97                 | 128 | 159 | 40"               | 60                   | 60  | 96  | 200                          | 200,000          | 8,000                    | 5             | 40.00                  | 100                        | 1/4                | 0                          | No                    |
| EWR03FD-72-72-72        | 109                | 140 | 135 | 46"               | 72                   | 72  | 72  | 216                          | 200,000          | 9,000                    | 7 1/2         | 41.67                  | 100                        | 1/4                | 0                          | Yes                   |
| EWR03FD-72-72-96        | 113                | 150 | 159 | 46"               | 72                   | 72  | 96  | 288                          | 200,000          | 12,000                   | 7 1/2         | 41.67                  | 100                        | 1/4                | 0                          | No                    |
| EWR03FD-72-120-96       | 125                | 198 | 159 | 46"               | 72                   | 120 | 96  | 480                          | 200,000          | 20,000                   | 15            | 41.67                  | 100                        | 1/4                | 0                          | No                    |
| EWR03FD-84-84-84        | 129                | 162 | 147 | 52"               | 84                   | 84  | 84  | 343                          | 200,000          | 14,000                   | 10            | 40.82                  | 100                        | 1/4                | 0                          | No                    |
| EWR03FD-84-96-84        | 133                | 174 | 147 | 52"               | 84                   | 96  | 84  | 392                          | 200,000          | 16,000                   | 10            | 40.82                  | 100                        | 1/4                | 0                          | No                    |
| EWR03FD-84-120-84       | 137                | 205 | 147 | 52"               | 84                   | 120 | 84  | 490                          | 400,000          | 20,000                   | 15            | 40.82                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-84-120-96       | 141                | 210 | 159 | 52"               | 84                   | 120 | 96  | 560                          | 400,000          | 24,000                   | 15            | 42.86                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-96-96-96        | 149                | 181 | 159 | 58"               | 96                   | 96  | 96  | 512                          | 400,000          | 22,000                   | 15            | 42.97                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-96-120-96       | 153                | 210 | 159 | 58"               | 96                   | 120 | 96  | 640                          | 400,000          | 26,000                   | 15            | 40.63                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-96-144-96       | 161                | 243 | 159 | 58"               | 96                   | 144 | 96  | 768                          | 400,000          | 16,000(x2)               | 10(x2)        | 40.20                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-96-168-96       | 167                | 267 | 159 | 58"               | 96                   | 168 | 96  | 896                          | 400,000          | 18,000(x2)               | 15(x2)        | 40.17                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-120-120-96      | 185                | 219 | 159 | 70"               | 120                  | 120 | 96  | 800                          | 400,000          | 16,000(x2)               | 10(x2)        | 40.00                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-120-120-120     | 193                | 224 | 183 | 70"               | 120                  | 120 | 120 | 1,000                        | 400,000          | 20,000(x2)               | 15(x2)        | 40.00                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-120-144-96      | 191                | 243 | 159 | 70"               | 120                  | 144 | 96  | 960                          | 400,000          | 20,000(x2)               | 15(x2)        | 41.67                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-120-144-120     | 197                | 255 | 183 | 70"               | 120                  | 144 | 120 | 1,200                        | 400,000          | 24,000(x2)               | 15(x2)        | 40.00                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-120-168-96      | 193                | 279 | 159 | 70"               | 120                  | 168 | 96  | 1,120                        | 400,000          | 24,000(x2)               | 15(x2)        | 42.85                  | 250                        | 1/4                | 0                          | No                    |
| EWR03FD-120-168-120     | 203                | 279 | 183 | 70"               | 120                  | 168 | 120 | 1,400                        | 700,000          | 28,000(x2)               | 15(x2)        | 40.00                  | 500                        | 1                  | 0                          | No                    |

**NOTE: Sizes are approximate. LEWCO, Inc. reserves the right to change specifications without notice.**

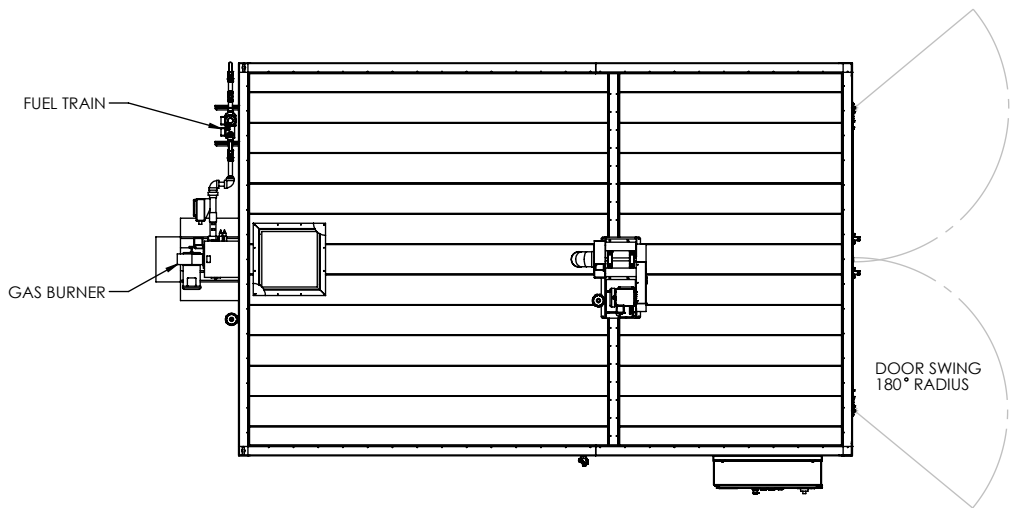


# Industrial Batch Ovens

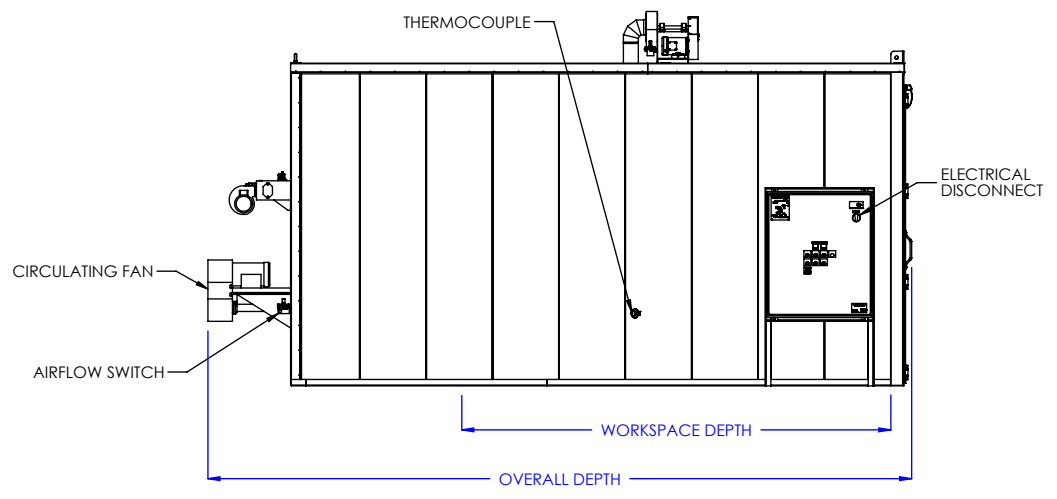
Model: EWR03FD

| Model<br>(NFPA Class A) | Overall Dimensions |     |     | Door Swing Radius | Workspace Dimensions |     |     | Workspace Volume (cubic ft.) | Burner (BTU/ Hr) | Circulating Fan (CFM) | Motor (HP) | Air Changes per Minute | Exhaust Fan Capacity (CFM) | Exhaust Motor (HP) | Solvents per Batch (Gals.) | Ships Fully Assembled |
|-------------------------|--------------------|-----|-----|-------------------|----------------------|-----|-----|------------------------------|------------------|-----------------------|------------|------------------------|----------------------------|--------------------|----------------------------|-----------------------|
|                         | "W                 | "D  | "H  |                   | "W                   | "D  | "H  |                              |                  |                       |            |                        |                            |                    |                            |                       |
| EWR03FD-48-48-60        | 79                 | 106 | 123 | 34"               | 48                   | 48  | 60  | 80                           | 200,000          | 3,500                 | 3          | 43.75                  | 250                        | 1/4                | 0.06                       | Yes                   |
| EWR03FD-48-48-72        | 81                 | 106 | 135 | 34"               | 48                   | 48  | 72  | 96                           | 200,000          | 4,000                 | 3          | 41.67                  | 250                        | 1/4                | 0.06                       | Yes                   |
| EWR03FD-48-48-96        | 83                 | 106 | 159 | 34"               | 48                   | 48  | 96  | 128                          | 200,000          | 5,500                 | 3          | 42.97                  | 250                        | 1/4                | 0.06                       | No                    |
| EWR03FD-60-60-60        | 95                 | 118 | 123 | 40"               | 60                   | 60  | 60  | 125                          | 200,000          | 5,000                 | 3          | 40.00                  | 250                        | 1/4                | 0.06                       | Yes                   |
| EWR03FD-60-60-72        | 95                 | 122 | 135 | 40"               | 60                   | 60  | 72  | 150                          | 200,000          | 6,000                 | 3          | 40.00                  | 250                        | 1/4                | 0.06                       | Yes                   |
| EWR03FD-60-60-96        | 97                 | 128 | 159 | 40"               | 60                   | 60  | 96  | 200                          | 200,000          | 8,000                 | 5          | 40.00                  | 250                        | 1/4                | 0.06                       | No                    |
| EWR03FD-72-72-72        | 109                | 140 | 135 | 46"               | 72                   | 72  | 72  | 216                          | 200,000          | 9,000                 | 7 1/2      | 41.67                  | 250                        | 1/4                | 0.06                       | Yes                   |
| EWR03FD-72-72-96        | 113                | 150 | 159 | 46"               | 72                   | 72  | 96  | 288                          | 200,000          | 12,000                | 7 1/2      | 41.67                  | 250                        | 1/4                | 0.06                       | No                    |
| EWR03FD-72-120-96       | 125                | 198 | 159 | 46"               | 72                   | 120 | 96  | 480                          | 200,000          | 20,000                | 15         | 41.67                  | 250                        | 1/4                | 0.10                       | No                    |
| EWR03FD-84-84-84        | 129                | 162 | 147 | 52"               | 84                   | 84  | 84  | 343                          | 200,000          | 14,000                | 10         | 40.82                  | 250                        | 1/4                | 0.10                       | No                    |
| EWR03FD-84-96-84        | 133                | 174 | 147 | 52"               | 84                   | 96  | 84  | 392                          | 200,000          | 16,000                | 10         | 40.82                  | 250                        | 1/4                | 0.10                       | No                    |
| EWR03FD-84-120-84       | 137                | 205 | 147 | 52"               | 84                   | 120 | 84  | 490                          | 400,000          | 20,000                | 15         | 40.82                  | 500                        | 1                  | 0.25                       | No                    |
| EWR03FD-84-120-96       | 141                | 210 | 159 | 52"               | 84                   | 120 | 96  | 560                          | 400,000          | 24,000                | 15         | 42.86                  | 500                        | 1                  | 0.25                       | No                    |
| EWR03FD-96-96-96        | 149                | 181 | 159 | 58"               | 96                   | 96  | 96  | 512                          | 400,000          | 22,000                | 15         | 42.97                  | 500                        | 1                  | 0.25                       | No                    |
| EWR03FD-96-120-96       | 153                | 210 | 159 | 58"               | 96                   | 120 | 96  | 640                          | 400,000          | 26,000                | 15         | 40.63                  | 500                        | 1                  | 0.25                       | No                    |
| EWR03FD-96-144-96       | 161                | 243 | 159 | 58"               | 96                   | 144 | 96  | 768                          | 400,000          | 16,000(x2)            | 10(x2)     | 40.20                  | 500                        | 1                  | 0.25                       | No                    |
| EWR03FD-120-120-96      | 185                | 219 | 159 | 70"               | 120                  | 120 | 96  | 800                          | 400,000          | 16,000(x2)            | 10(x2)     | 40.00                  | 500                        | 1                  | 0.25                       | No                    |
| EWR03FD-120-120-120     | 193                | 224 | 183 | 70"               | 120                  | 120 | 120 | 1,000                        | 400,000          | 20,000(x2)            | 15(x2)     | 40.00                  | 500                        | 1                  | 0.25                       | No                    |
| EWR03FD-120-144-96      | 191                | 243 | 159 | 70"               | 120                  | 144 | 96  | 960                          | 400,000          | 20,000(x2)            | 15(x2)     | 41.67                  | 500                        | 1                  | 0.25                       | No                    |
| EWR03FD-120-144-120     | 197                | 255 | 183 | 70"               | 120                  | 144 | 120 | 1,200                        | 400,000          | 24,000(x2)            | 15(x2)     | 40.00                  | 500                        | 1                  | 0.25                       | No                    |
| EWR03FD-120-168-96      | 193                | 279 | 159 | 70"               | 120                  | 168 | 96  | 1,120                        | 400,000          | 24,000(x2)            | 15(x2)     | 42.85                  | 500                        | 1                  | 0.25                       | No                    |
| EWR03FD-120-168-120     | 203                | 279 | 183 | 70"               | 120                  | 168 | 120 | 1,400                        | 700,000          | 28,000(x2)            | 15(x2)     | 40.00                  | 1,000                      | 1 1/2              | 0.51                       | No                    |

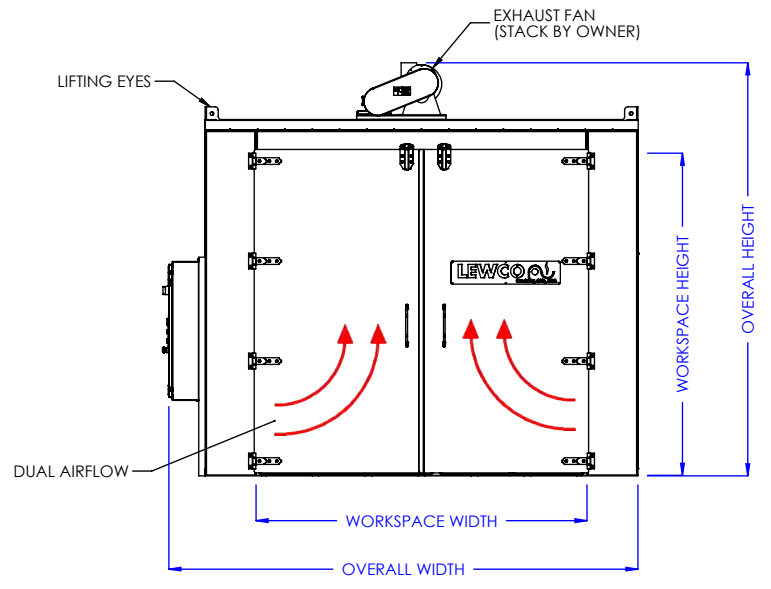
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PLAN VIEW



LEFT SIDE ELEVATION



FRONT ELEVATION

MODEL: EWR03FD

DESCRIPTION: ENHANCED DUTY WALK-IN OVEN, REAR MOUNT HEATER, 350° F, FUEL-FIRED, DUAL AIRFLOW

**WARNING:** OVENS PROCESSING FLAMMABLE VOLATILES OR COMBUSTIBLE MATERIALS ARE CLASSIFIED BY NFPA 86 AS "CLASS A" OVENS AND REQUIRE SPECIFIC SAFETY FEATURES. KNOW THE PROPERTIES OF THE MATERIALS BEING HEATED. EXPLOSION OR FIRE MAY RESULT FROM MISAPPLICATION.

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