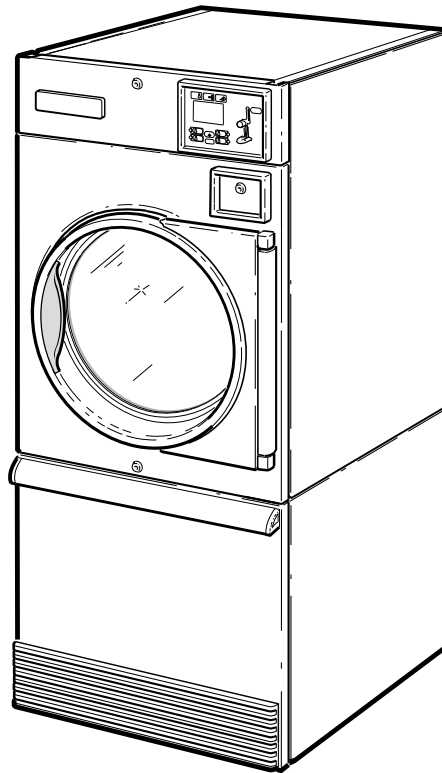


ON-PREMISES LAUNDRY PLANNING HANDBOOK



INDUSTRIAL
BY DESIGN



T478C

25, 30, 35 and 55 Pound Tumble Dryers

Refer to Installation Manual for full instructions.

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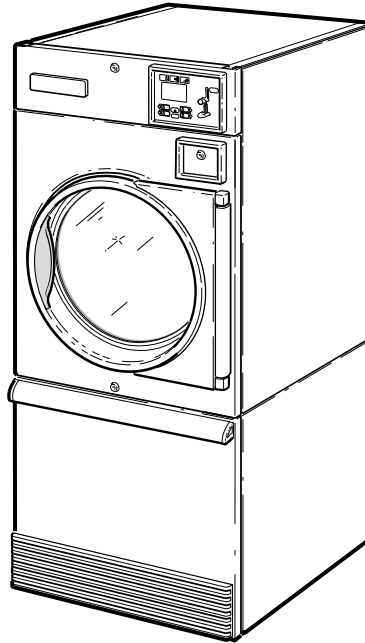
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Tumble Dryers – 25, 30, 35 and 55

Introduction



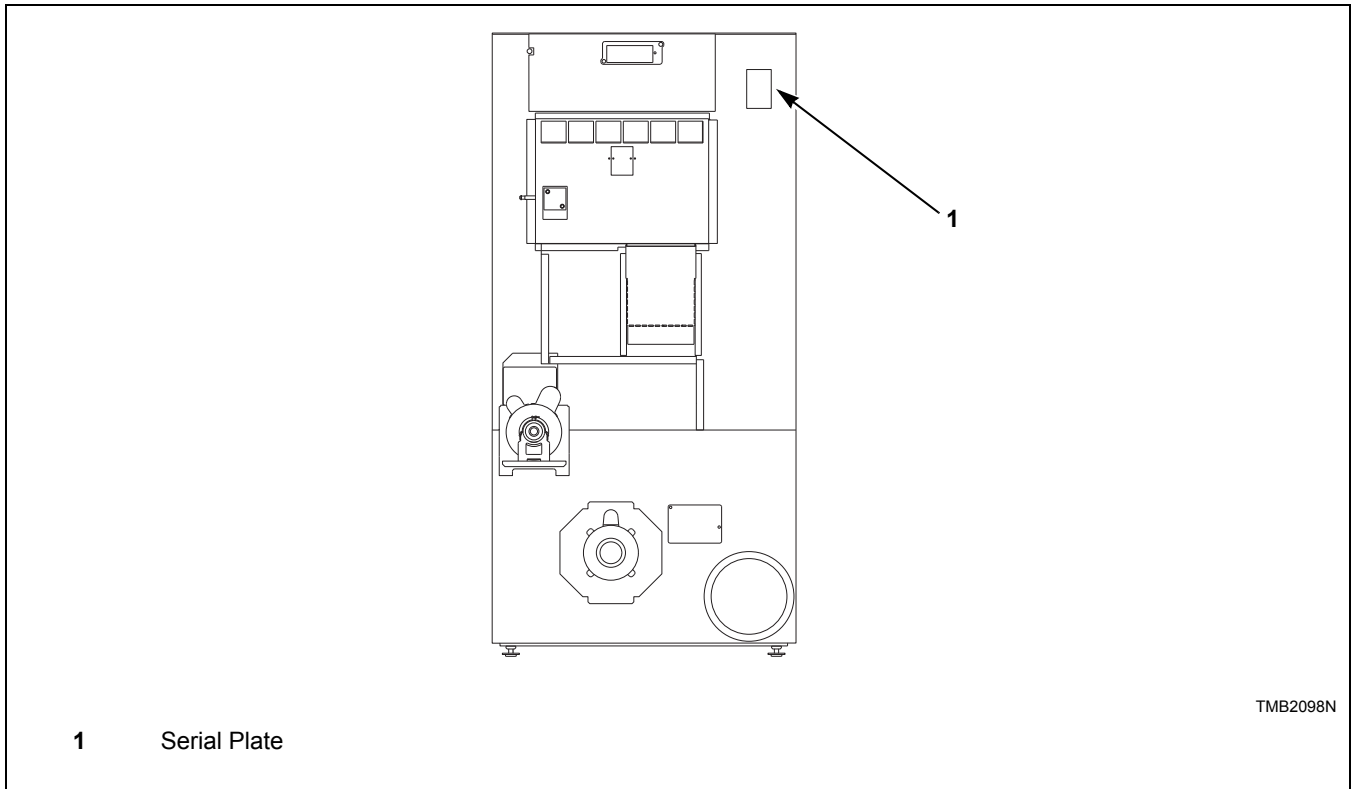
T478C

Model Identification

| | Gas | | Steam | | Electric | |
|-----------------|-------------------|------------------|----------------|--------|-------------------|--------|
| 25 Pound | IPD25G2 IT025L | IT025N IT025R | IPD25S2 | IT025S | IPD25E2 IT025E | IT025F |
| 30 Pound | IPD30G2 IT030L | IT030N IT030R | IPD30S2 | IT030S | IPD30E2 IT030E | IT030F |
| 35 Pound | IPD35G2 IT035L | IT035N IT035R | IPD35S2 | IT035S | IPD35E2 IT035E | IT035F |
| 55 Pound | IPD55G2 IT055L | IT055N IT055R | Not Applicable | | IPD55E2 IT055E | IT055F |

Includes models with the following control suffixes:

| | | |
|---|---|-----------------------------------|
| 3B – reversing DX4 vended | BK – reversing basic electronic, prep for central pay | DO – DMP OPL |
| 3K – reversing DX4 prep for central pay | BL – basic electronic, prep for central pay | EO – LED OPL |
| 3L – DX4 prep for central pay | BW – reversing basic electronic, prep for coin | QT – dual digital timer |
| 3O – DX4 OPL | BX – basic electronic, prep for coin | R3 – reversing DX4 OPL |
| 3V – DX4 vended | BY – basic electronic, prep for card | RE – reversing LED OPL |
| 3W – reversing DX4 prep for coin | BZ – reversing basic electronic, prep for card | RQ – reversing dual digital timer |
| 3X – DX4 prep for coin | | SD – single drop |
| BB – reversing basic electronic, coin | | SX – single drop, prep for coin |
| BC – basic electronic, coin | | |



| Conversion Table | | | | | | |
|----------------------------|-------|-----------------|--|-------------------|---------|----------------|
| Multiply | By | To Obtain | | Multiply | By | To Obtain |
| Btu | 0.252 | kCal | | Pounds/sq. inch | 0.06895 | Bars |
| Btu | 1055 | Joules | | Pounds/sq. inch | 0.070 | kg/sq. cm |
| Inch | 25.4 | Millimeters | | Pounds (lbs.) | 0.454 | Kilograms |
| Inches W.C. | 0.036 | Pounds/sq. inch | | Boiler Horsepower | 33,479 | Btu/hr. |
| Inches W.C. | 0.249 | kPa | | Boiler Horsepower | 34.5 | lbs. steam/hr. |
| lb/inch ² (psi) | 6.895 | kPa | | CFM | 0.471 | liters/second |
| ft ³ | 28.32 | Liters | | kW | 3414 | Btu/hr. |

Specifications and Dimensions

Refer to machine serial plate for additional specifications.

| Specifications | | 025 Pound | | 030 Pound | | 035 Pound | | 055 Pound | |
|--|----------|--|-----------------------------|--|--|--|-----------------------------|--|--|
| Heat dissipation of surface area exposed to conditioned air: Btu/ft² (Joules/m²) | | 60 (681,392) | | 60 (681,392) | | 60 (681,392) | | 60 (681,392) | |
| Noise level measured during operation at operator position of 3.3 feet (1 meter) in front of machine and 5.2 feet (1.6 meters) from floor | | 60 dBA | | 61 dBA | | 63 dBA | | 63 dBA | |
| Net Weight (approximate): Pounds (kg) | | 300 (137) | | 330 (150) | | 360 (163) | | 435 (197) | |
| Standard Packaging Weight: Pounds (kg) | | 332 (151) | | 364 (165) | | 394 (179) | | 476 (216) | |
| Standard Packaging Shipping Dimensions: Inch (mm) | | 30 x 43 x 69 (762 x 1092 x 1753) | | 30 x 49 x 69 (762 x 1245 x 1753) | | 33 x 49 x 69 (838 x 1245 x 1753) | | 35.5 x 59 x 72 (902 x 1499 x 1829) | |
| Slat Crate Packaging Weight: Pounds (kg) | | 406 (184) | | 446 (202) | | 480 (218) | | 506 (230) | |
| Slat Crate Shipping Dimensions: Inch (mm) | | 34.5 x 46 x 87.75 (876 x 1168 x 2229) | | 34.5 x 52 x 87.75 (876 x 1321 x 2229) | | 37.5 x 52 x 87.75 (953 x 1321 x 2229) | | 40 x 60 x 87.25 (1016 x 1524 x 2216) | |
| Cylinder Size: Inch (mm) | | 26.5 x 24 (673 x 610) | | 26.5 x 30 (673 x 762) | | 30 x 30 (762 x 762) | | 33 x 35 (838 x 889) | |
| Cylinder Capacity (dry weight): Pounds (kg) | | 25 (11) | | 30 (13) | | 35 (16) | | 55 (24) | |
| Drive Motor Horsepower (kW) | | 1/4 (0.1865) | | 1/4 (0.1865) | | 1/4 (0.1865) | | Nonreversing 1/2 (0.373) Reversing 1/4 (0.1865) | |
| Fan Motor Horsepower (kW) | | 1/4 (0.1865) | | 1/4 (0.1865) | | 1/4 (0.1865) | | 1/2 | |
| Maximum Airflow per Pocket: C.F.M. (l/sec) | 50 Hertz | Classic Line 430 (203) | Eco Line 250 (118) | 430 (203) | | Classic Line 550 (260) | Eco Line 450 (212) | 600 (283) | |
| | 60 Hertz | Classic Line 500 (236) | Eco Line 300 (142) | 500 (236) | | Classic Line 650 (307) | Eco Line 550 (260) | 700 (330) | |
| Maximum Static Back Pressure: Inch W.C. (mbar, kPa) | 50 Hertz | Classic Line 0.6 (1.5, 0.15) | Eco Line 1.0 (2.5, 0.25) | 0.6 (1.5, 0.15) | | Classic Line 0.5 (1.3, 0.13) | Eco Line 0.7 (1.7, 0.17) | 0.5 (1.3, 0.13) | |
| | 60 Hertz | Classic Line 0.8 (2.0, 0.2) | Eco Line 1.4 (3.5, 0.35) | 0.8 (2.0, 0.2) | | Classic Line 0.6 (1.5, 0.15) | Eco Line 0.9 (2.2, 0.22) | 0.6 (1.5, 0.15) | |
| Gas Models | | | | | | | | | |

Table 1

| Specifications | | 025 Pound | | 030 Pound | | 035 Pound | | 055 Pound | |
|---|----------|---|---------------------------------------|--|--|--|---------------------------------------|---|---|
| Gas Connection | | 1/2 in. NPT | | 1/2 in. NPT | | 1/2 in. NPT | | 1/2 in. NPT | |
| Gas Burner Rating: Btu/hr. (kW, Mj/hr.) | 50 Hertz | Classic Line 64,000 (18.7, 67.5) | Eco Line 45,000 (13.2, 47.5) | Classic Line 73,000 (21.4, 77) | Eco Line 52,500 (15.4, 55.4) | Classic Line 90,000 (26.4, 95) | Eco Line 55,000 (16.1, 58.0) | Classic Line 102,000 (29.9, 107.6) | Eco Line 90,000 (26.4, 95.0) |
| | 60 Hertz | Classic Line 64,000 (18.7, 67.5) | Eco Line 52,500 (15.4, 55.4) | Classic Line 73,000 (21.4, 77) | Eco Line 55,000 (16.1, 58.0) | Classic Line 90,000 (26.4, 95) | Eco Line 64,000 (18.7, 67.5) | Classic Line 112,000 (32.8, 118.2) | Eco Line 105,000 (30.8, 110.8) |
| Electric Models | | | | | | | | | |
| Heating Element Rating: | 400/50/3 | 10 kW | | Classic Line - 21 kW Eco Line - 12 kW | Classic Line - 24 kW Eco Line - 12 kW | Classic Line - 27 kW Eco Line - 18 kW | | | |
| | Standard | Classic Line - 12 kW Eco Line - 9 kW | | | | | | | |
| Steam Models | | | | | | | | | |
| Steam Connection | | 3/4 in. NPT | | 3/4 in. NPT | | 3/4 in. NPT | | N/A | |
| Steam Coil Rating at 100 psig: Btu/hr. (kg/hr.) (recommended operating pressure 80-100 psig) | | 134,700 (63.1) | | 134,700 (63.1) | | 166,000 (77.8) | | N/A | |

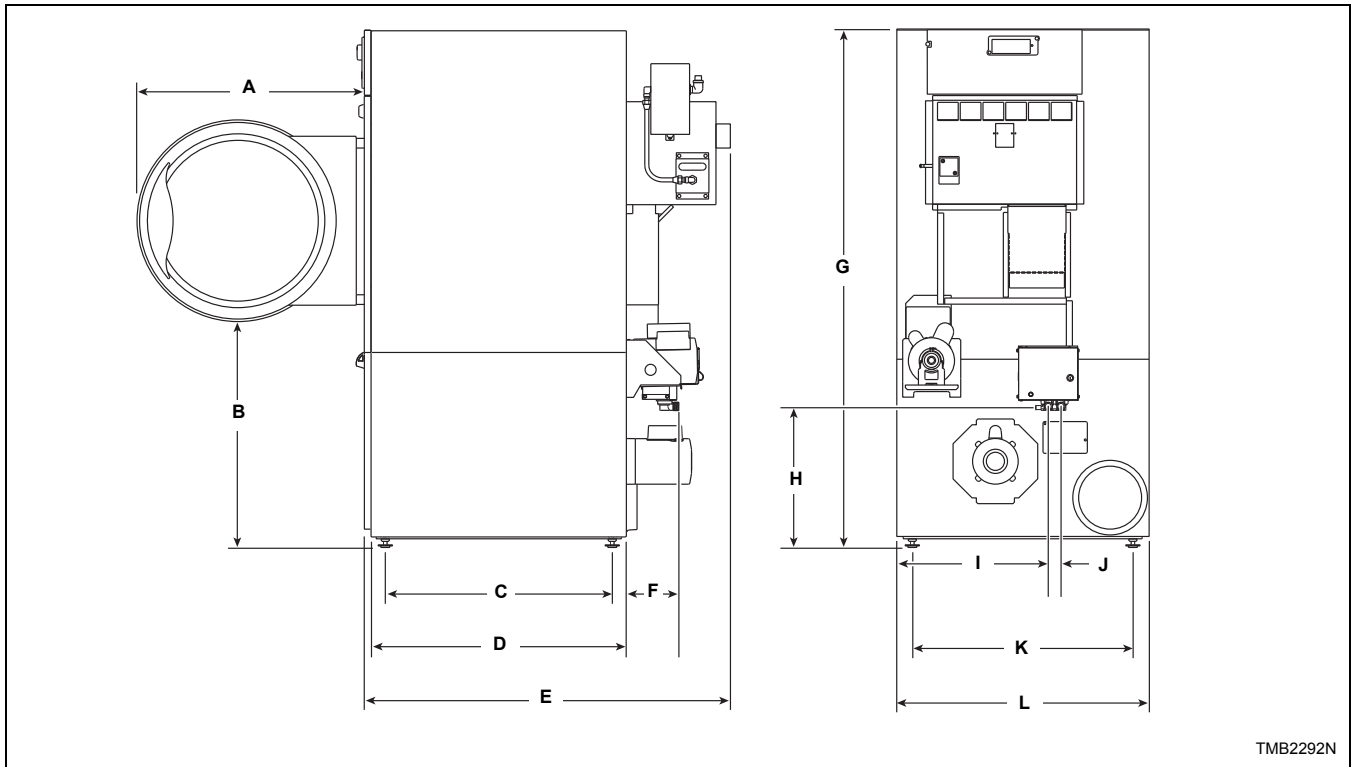
N/A = Not Applicable

Table 1

NOTE: All machines are shipped with extra nipple to convert to metric thread (from Standard).

Tumble Dryers – 25, 30, 35 and 55

Cabinet Dimensions

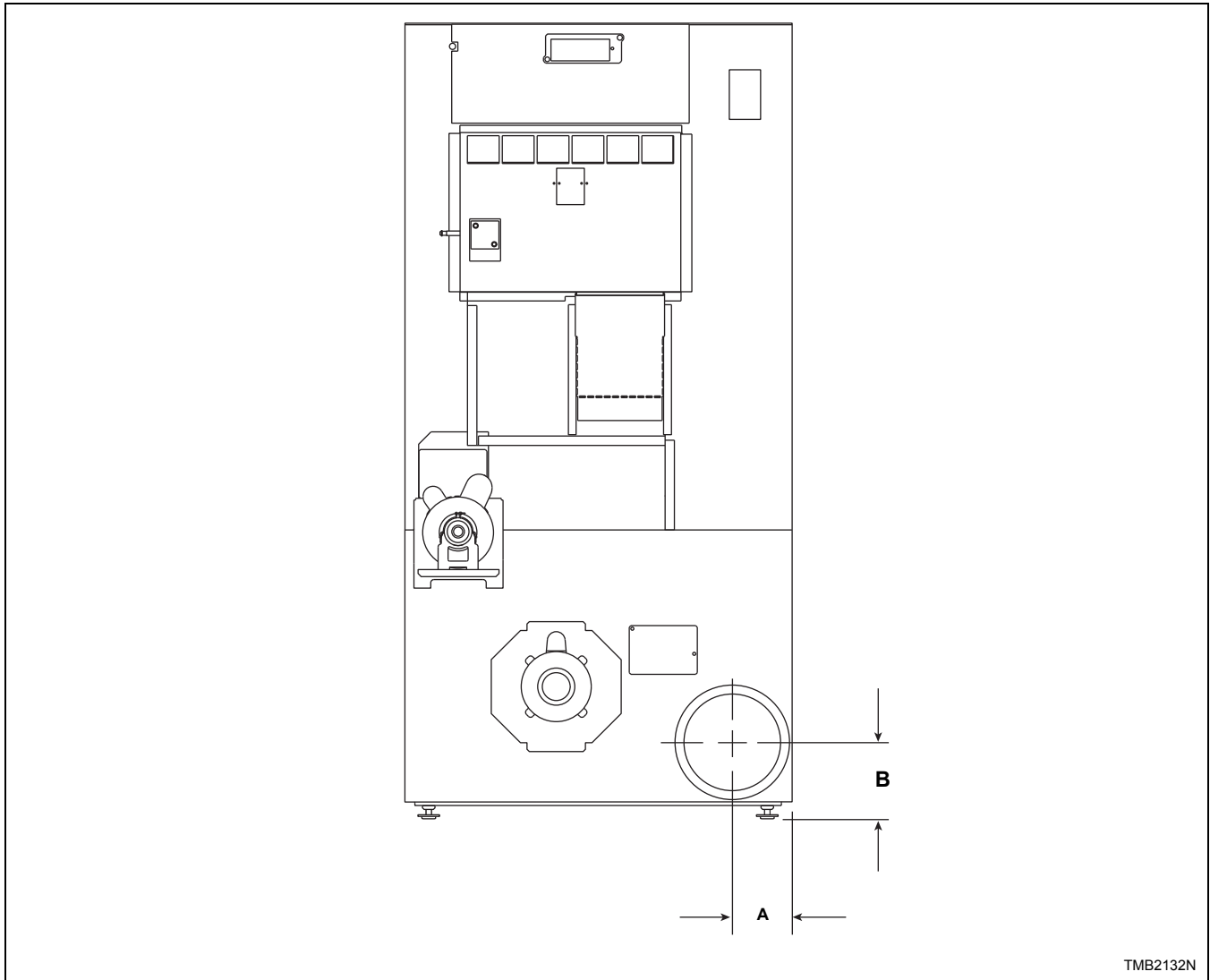


| Models | A | B | C | D | E | F* |
|-----------------|--------------------------|-------------------------|--------------------------|-------------------------|-------------------------|----------------------|
| 25 Pound | 26.25 in. (667 mm) | 27.5 in. (669 mm) | 22.35 in. (568 mm) | 25.75 in. (654 mm) | 40.875 in. (1038 mm) | 6.53 in. (166 mm) |
| 30 Pound | 26.25 in. (667 mm) | 27.5 in. (669 mm) | 28.35 in. (720 mm) | 31.75 in. (806 mm) | 46.875 in. (1191 mm) | 6.53 in. (166 mm) |
| 35 Pound | 28 in. (711 mm) | 27.5 in. (669 mm) | 28.35 in. (720 mm) | 31.75 in. (806 mm) | 46.875 in. (1191 mm) | 6.53 in. (166 mm) |
| 55 Pound | 31.88 in. (810 mm) | 26.87 in. (682.5 mm) | 33.75 in. (857.25 mm) | 38.25 in. (971.5 mm) | 53.62 in. (1365 mm) | 6.53 in. (166 mm) |
| Models | G | H* | I* | J* | K | L |
| 25 Pound | 63.875 in. (1622 mm) | 16.48 in. (419 mm) | 15.41 in. (391 mm) | 1.59 in. (40 mm) | 24.64 in. (626 mm) | 28 in. (711 mm) |
| 30 Pound | 63.875 in. (1622 mm) | 16.48 in. (419 mm) | 15.41 in. (391 mm) | 1.59 in. (40 mm) | 24.64 in. (626 mm) | 28 in. (711 mm) |
| 35 Pound | 63.875 in. (1622 mm) | 16.48 in. (419 mm) | 19.59 in. (497.5 mm) | 1.59 in. (40 mm) | 27.38 in. (695 mm) | 31.5 in. (800 mm) |
| 55 Pound | 66.72 in. (1694.7 mm) | 17.75 in. (451 mm) | 18.65 in. (474 mm) | 1.59 in. (40 mm) | 30.5 in. (774.7 mm) | 34.5 in. (876 mm) |

* Fire suppression system optional - may not be on machine.

NOTE: Facia panels available to increase height of models to 72.25 inches (183 mm) and 76.25 inches (1938 mm).

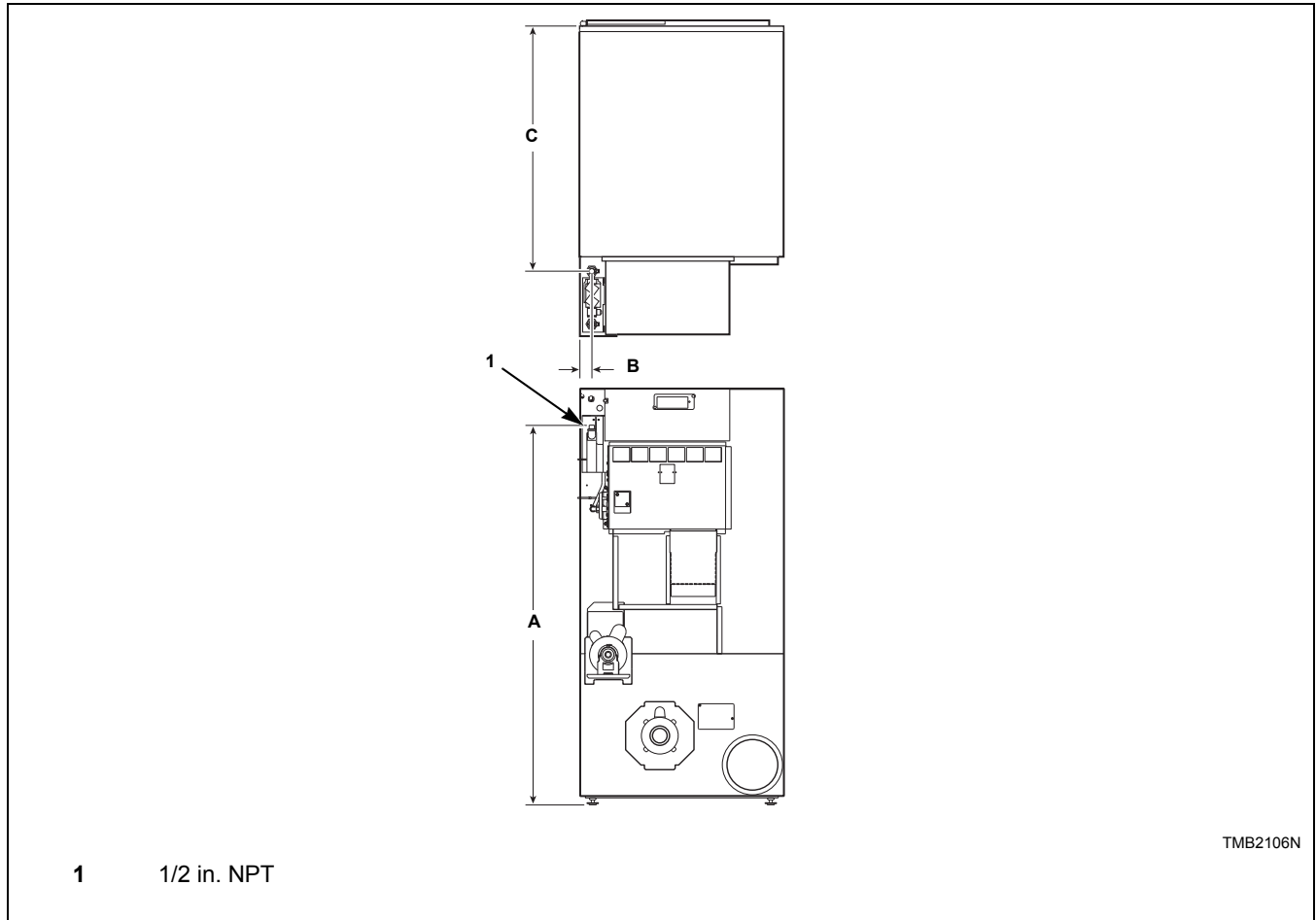
Exhaust Outlet Locations



TMB2132N

| Models | Rear Exhaust | | | |
|-----------------|--------------------------------|----------------------------|-----------------------|-------------------------|
| | Diameter | | A | B |
| 25 Pound | Classic Line 6 in. (152 mm) | Eco Line 4 in. (102 mm) | 3.875 in. (99 mm) | 4.625 in. (117 mm) |
| | 6 in. (152 mm) | | 3.875 in. (99 mm) | 4.625 in. (117 mm) |
| 30 Pound | 6 in. (152 mm) | | 3.875 in. (99 mm) | 4.625 in. (117 mm) |
| 35 Pound | Classic Line 8 in. (203 mm) | Eco Line 6 in. (152 mm) | 4.875 in. (124 mm) | 5.625 in. (143 mm) |
| | 8 in. (203 mm) | | 4.808 in. (122 mm) | 6.156 in. (156.3 mm) |

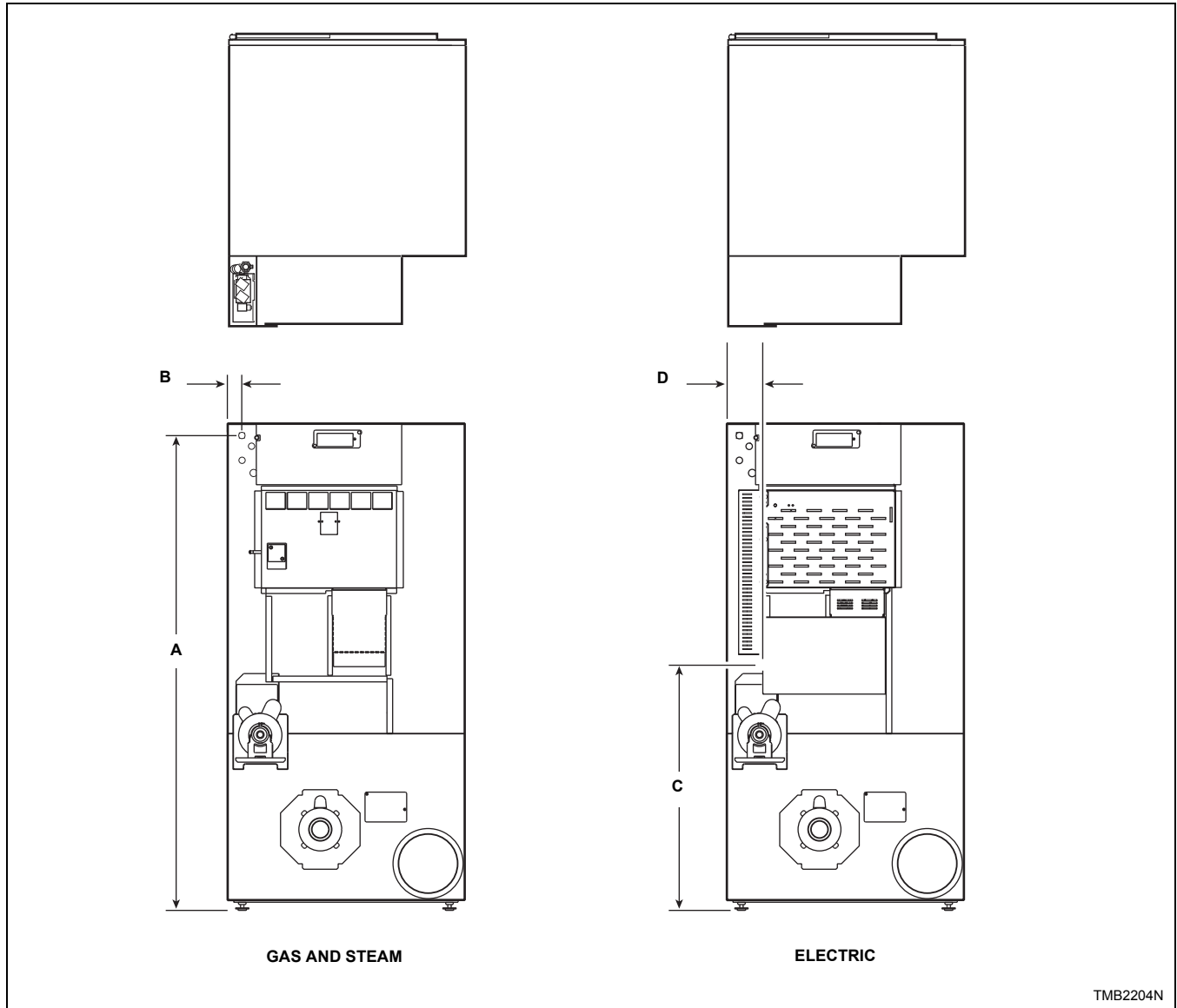
Gas Connection Locations



| Models | Gas Connection – CE and Australian Units | | |
|-----------------|--|----------------------|--------------------|
| | A | B | C |
| 25 Pound | 59 in. (1500 mm) | 1.5 in. (38.1 mm) | 29 in. (737 mm) |
| 30 Pound | 59 in. (1500 mm) | 1.5 in. (38.1 mm) | 35 in. (889 mm) |
| 35 Pound | 59 in. (1500 mm) | 2.5 in. (64 mm) | 35 in. (889 mm) |
| 55 Pound | 59 in. (1500 mm) | 2.5 in. (64 mm) | 35 in. (889 mm) |

| Models | Gas Connection – Non-CE and Non-Australian Units | | |
|-----------------|--|-------------------------|---------------------------|
| | A | B | C |
| 25 Pound | 57 in. (1450 mm) | 2.5 in. (64 mm) | 35.5 in. (927 mm) |
| 30 Pound | 57 in. (1450 mm) | 2.5 in. (64 mm) | 43 in. (1092 mm) |
| 35 Pound | 57 in. (1450 mm) | 4 in. (101.6 mm) | 43 in. (1092 mm) |
| 55 Pound | 55.285 in. (1404 mm) | 1.621 in. (41.17 mm) | 46.75 in. (1187.45 mm) |

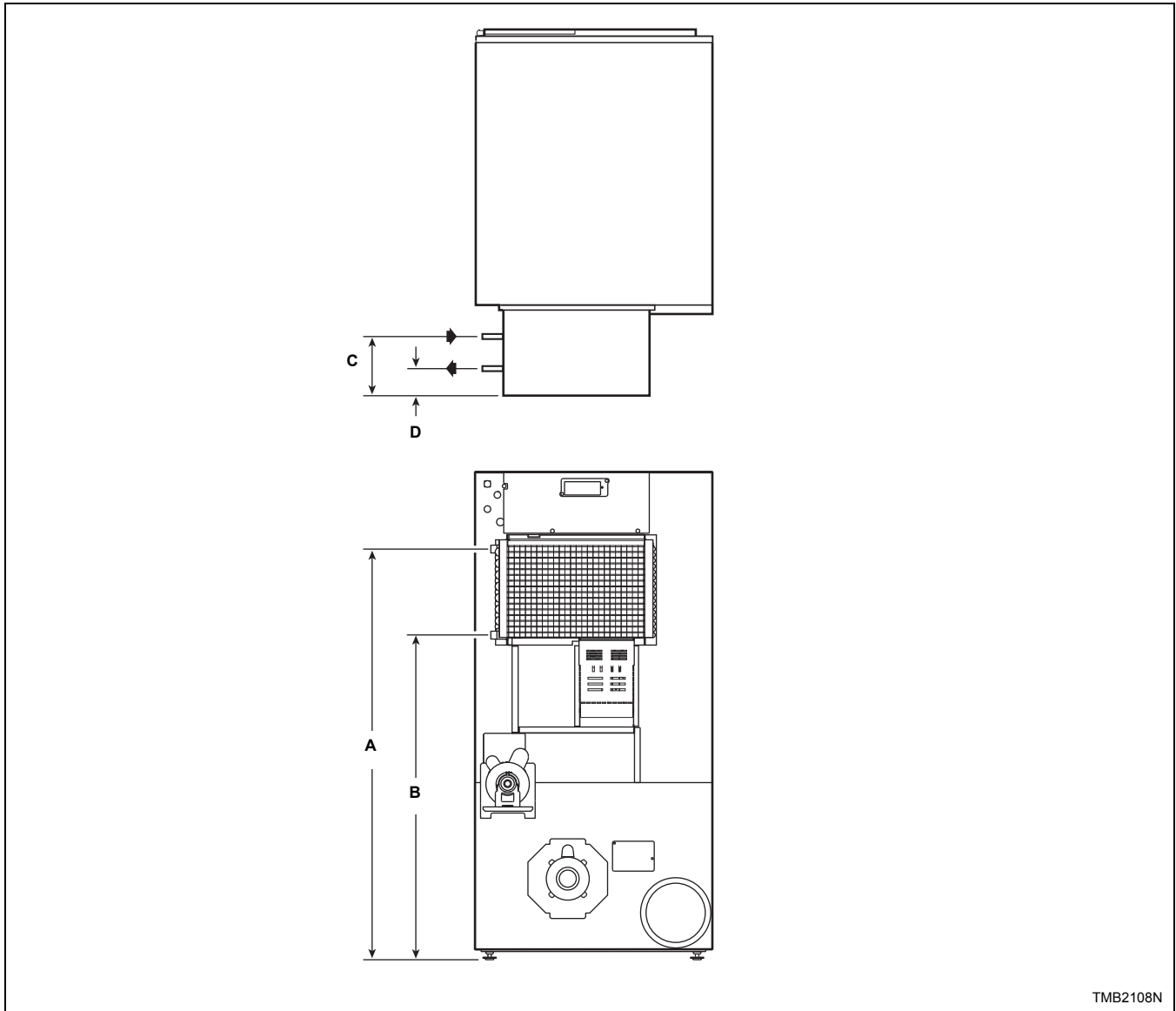
Electrical Connection Locations



TMB2204N

| Models | Electrical Service | | | |
|--------------------|----------------------------|-------------------------|---------------------------|-------------------------|
| | Gas and Steam Models | | Electric Models | |
| | A | B | C | D |
| 25/30 Pound | 62.25 in. (1581 mm) | 2 in. (51 mm) | 28 in. (711 mm) | 3.25 in. (83 mm) |
| 35 Pound | 62.25 in. (1581 mm) | 3 in. (76 mm) | 28 in. (711 mm) | 4.25 in. (108 mm) |
| 55 Pound | 65.187 in. (1655.75 mm) | 1.765 in. (44.83 mm) | 32.526 in. (826.16 mm) | 6.547 in. (166.3 mm) |

Steam Connection Locations



| Models | Inlet | | Outlet | |
|-----------------------|------------------------|----------------------|-----------------------|---------------------|
| | A | C | B | D |
| 25/30/35 Pound | 53.75 in. (1365 mm) | 6.29 in. (160 mm) | 42.5 in. (1080 mm) | 2.39 in. (61 mm) |

NOTE: All connections use 3/4 inch NPT pipe.

Installation


Pre-Installation Inspection

Upon delivery, visually inspect the crate, carton and parts for any visible shipping damage. If the crate, carton, or cover is damaged or signs of possible damage are evident, have the carrier note the condition on the shipping papers before the shipping receipt is signed, or advise the carrier of the condition as soon as it is discovered.

Remove the crate and protective cover as soon as possible and check the items listed on the packing list. Advise the carrier of any damaged or missing articles as soon as possible. A written claim should be filed with the carrier immediately if articles are damaged or missing.

IMPORTANT: Warranty is void unless tumble dryer is installed according to instructions in this manual. Installation should comply with minimum specifications and requirements detailed herein, and with applicable local gas fitting regulations, municipal building codes, water supply regulations, electrical wiring regulations, and any other relevant statutory regulations. Due to varied requirements, applicable local codes should be thoroughly understood and all pre-installation work arranged for accordingly.

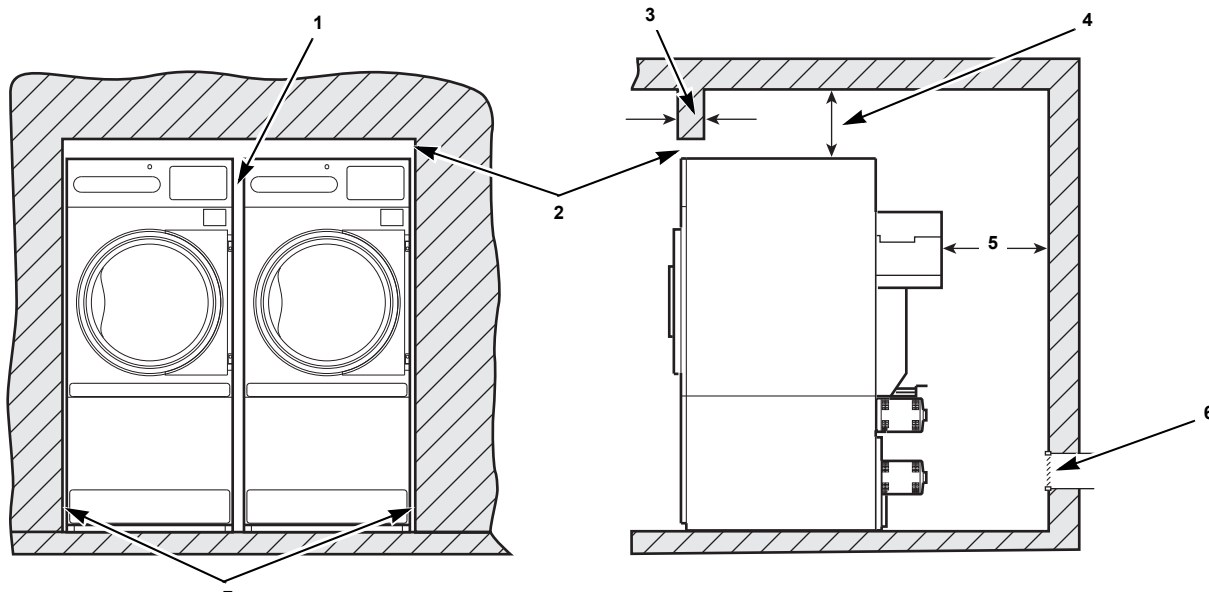
Tumble Dryer Enclosure



WARNING

To reduce the risk of severe injury, clearance of tumble dryer cabinet from combustible construction must conform to the minimum clearances.

W056R1




TMB2021N

NOTE: Shaded areas indicate adjacent structure.

- 1** 0.5 in. (13 mm) recommended between machines for removal or installations.
- 2** Allow 2-4 in. (51-102 mm) opening at top of machine to aid in removal or installation. A removable trim piece may be used to conceal the opening; zero clearance allowed for trim.
- 3** 4 in. (102 mm) Maximum Header Thickness
- 4** 12 in. (305 mm) Minimum Clearance
- 5** 24 in. (610 mm) minimum, 36 in. (914 mm) recommended for maintenance purposes.
- 6** Provision for make-up air: Minimum 1 square foot required per tumble dryer. Location for reference only. May be anywhere behind tumble dryer.
- 7** 0.25 in. (6 mm) recommended for removal or installation purposes, zero clearance allowed.

Figure 1

Exhaust Requirements

| | |
|---|----------------|
|  | WARNING |
| <p>A drying tumble dryer produces combustible lint. To reduce the risk of fire, the tumble dryer must be exhausted to the outdoors.</p> <p style="text-align: right;">W057R1</p> <p>To reduce the risk of fire and accumulation of combustible gases, DO NOT exhaust tumble dryer air into a window well, gas vent, chimney or enclosed, unventilated area such as an attic wall, ceiling, crawl space under a building, or concealed space of a building.</p> <p style="text-align: right;">W059R1</p> | |

Layout

Whenever possible, install tumble dryers along an outside wall where duct length can be kept to a minimum, and make-up air can be easily accessed. Elbows and long vents tend to increase drying time. Construction must not block the airflow at the rear of the tumble dryer. Doing so would prevent adequate air supply to the tumble dryer's combustion chamber.

Make-Up Air

A tumble dryer is forced air exhausted and requires provisions for make-up air to replace the air exhausted by the tumble dryer.

IMPORTANT: Do not obstruct the flow of combustion and ventilation air.

Make-up air openings should be as close to the tumble dryer(s) as possible.

The required make-up air opening to the outside for each tumble dryer is:


110 square inches (709 sq. cm)
for 25 and 30 pound models

144 square inches (928 sq. cm)
for 35 and 55 pound models

Make-up air openings with louvers will restrict airflow. The opening must be increased to compensate for area taken up by louvers.

Make-up air openings for a room containing tumble dryer(s) and/or gas fired hot water heater or other gravity vented appliances must be increased sufficiently to prevent downdrafts in any of the vents when all tumble dryers are in operation. Do not locate gravity vented appliances between tumble dryer(s) and make-up air openings. If it is necessary to duct make-up air to the tumble dryer(s), increase the area of the ductwork by 25% to compensate for any restriction in air movement.

Venting


| | |
|---|----------------|
|  | WARNING |
| <p>To reduce the risk of fire due to increased static pressure, we do not recommend installation of in-line secondary lint filters or lint collectors. If secondary systems are mandated, frequently clean the system to assure safe operation.</p> <p style="text-align: right;">W749</p> | |

IMPORTANT: Installing in-line filters or lint collectors will cause increased static pressure. Failure to maintain the secondary lint system will decrease tumble dryer efficiency and may void machine warranty.

For maximum efficiency and minimum lint accumulation, tumble dryer air must be exhausted to the outdoors by the shortest possible route.

Proper sized exhaust ducts are essential for proper operation. All elbows should be sweep type. Exhaust ducts must be assembled so the interior surfaces are smooth, so the joints do not permit the accumulation of lint. DO NOT use plastic, thin foil, or Type B flexible ducts – rigid metal ducts are recommended. Use exhaust ducts made of sheet metal or other noncombustible material. DO NOT use sheet metal screws or fasteners on exhaust pipe joints which extend into the duct and catch lint. Use of duct tape or pop-rivets on all seams and joints is recommended, if allowed by local code.

Verify that old ducts are thoroughly cleaned out before installing new tumble dryer(s).

| | |
|--|----------------|
|  | WARNING |
| <p>Improperly sized or assembled ductwork causes excess back pressure which results in slow drying, lint collecting in the duct, lint blowing back into the room, and increased fire hazard.</p> <p style="text-align: right;">W355</p> | |

Tumble Dryers – 25, 30, 35 and 55

NOTE: Exhaust ducts must be constructed of sheet metal or other noncombustible material. Such ducts must be equivalent in strength and corrosion resistance to ducts made of galvanized sheet steel not less than 0.0195 inches (0.495 mm) thick. Local codes may require additional thickness.

Where the exhaust duct pierces a combustible wall or ceiling the opening must be sized per local codes. The space around the duct may be sealed with noncombustible material. Refer to *Figure 2*.

IMPORTANT: For best performance provide an individual exhaust duct for each tumble dryer. Do not install a hot water heater in a room containing tumble dryers. It is better to have the water heater in a separate room with a separate air inlet.

Individual Venting

For maximum efficiency and performance, it is preferred to exhaust tumble dryer(s) individually to the outdoors.

IMPORTANT: At no point may the cross sectional area of installed venting be less than the cross sectional area of the exhaust outlet of the tumble dryer.

The exhaust duct must be designed so the static back pressure measured 12 inches (305 mm) from the exhaust outlet does not exceed the maximum allowable pressure specified in the Specifications and Dimensions Table or on the installation sticker on the rear of the tumble dryer.

NOTE: Static back pressure must be measured with the tumble dryer running.

The maximum allowable length venting of the same diameter as the exhaust thimble is 14 feet (4.3 m) and two 90° elbows or equivalent. If the equivalent length of a duct required for an installation exceeds the maximum allowable equivalent length, the diameter of a round duct must be increased by 10% for each additional 20 feet (6.1 m). Cross section area of a rectangular duct must be increased by 20% for each additional 20 feet (6.1 m). Refer to *Table 2* to determine equivalent venting.

NOTE: The maximum length of a flexible metal duct must not exceed 2.4 m (7.87 ft.) as required to meet UL2158, clause 7.3.2A.

| Duct Diameter | Equivalent Length of Rigid Straight Duct |
|--|--|
| 6 in. (152 mm) | One 90° elbow = 7 ft. (2.1 m) |
| 8 in. (203 mm) | One 90° elbow = 9.3 ft. (2.83 m) |
| 10 in. (254 mm) | One 90° elbow = 11.6 ft. (3.5 m) |
| 12 in. (305 mm) | One 90° elbow = 14 ft. (4.3 m) |
| 14 in. (356 mm) | One 90° elbow = 16 ft. (4.9 m) |
| 16 in. (406 mm) | One 90° elbow = 18.7 ft. (5.7 m) |
| 18 in. (457 mm) | One 90° elbow = 21 ft. (6.4 m) |
| Equivalent Length (feet) = 1.17 x Duct Diameter (inches) | |

Table 2

Example: A 12 inch (305 mm) diameter duct’s equivalent length of 14 feet (4.3 m) of duct and two 90° elbows is:

$$\begin{aligned}
 \text{Equivalent Length} &= 14 \text{ feet (4.3 m)} + (2) \text{ 90°} \\
 &\quad \text{elbows} \\
 &= 14 \text{ feet (4.3 m)} + 14 \text{ feet} \\
 &\quad \text{(4.3 m)} + 14 \text{ feet (4.3 m)} \\
 &= 42 \text{ feet (12.8 meters)}
 \end{aligned}$$

With the tumble dryer in operation, airflow at any point in the duct should be at least 1200 feet per minute (366 meters per minute) to ensure that lint remains airborne. If 1200 feet per minute cannot be maintained, schedule monthly inspections and cleaning of the ductwork.

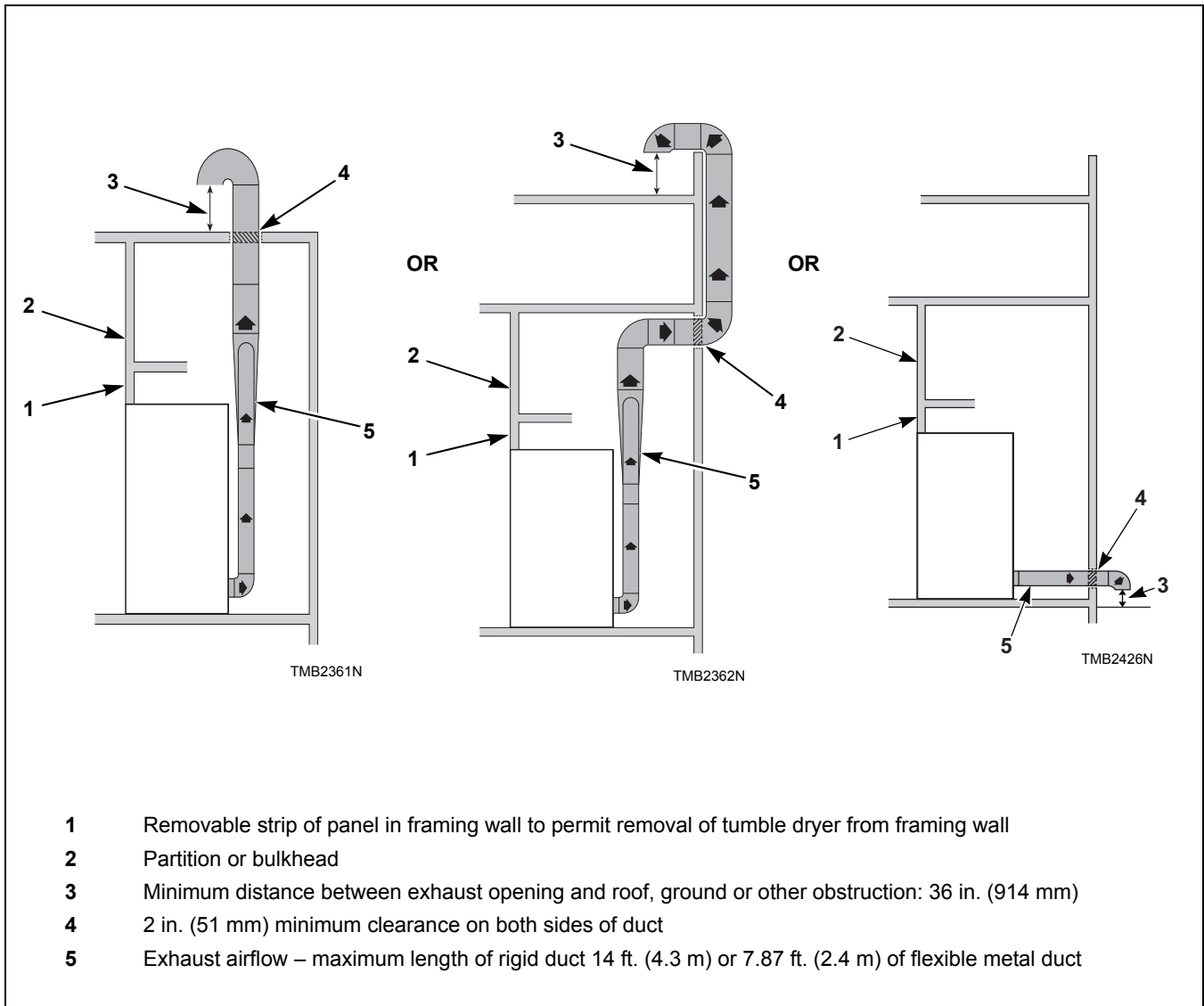


Figure 2

NOTE: Do not install wire mesh or screen in exhaust duct opening to avoid lint build-up or impacting proper discharge of air from tumble dryers.

NOTE: Where exhaust duct pierces a combustible wall or ceiling, the opening must be sized per local codes.

NOTE: Inside of duct must be smooth. Do not use sheet metal screws to join sections.

NOTE: Locate exhaust far enough away from make-up air location to prevent re-introduction.

Consult your local building code for regulations which may also apply.

Manifold Venting

While it is preferable to exhaust tumble dryers individually to the outdoors, a main collector duct may be used if it is sized according to *Figure 4* or *Figure 5*. This illustration indicates minimum diameters, which should be increased if the collector length exceeds 14 feet (4.3 meters) and two 90° elbows. The diameter of a round duct must be increased by 10% for each additional 20 feet (6.1 meters). Cross sectional area of a rectangular or square duct must be increased 20% for each additional 20 feet (6.1 meters). Refer to *Table 3* or *Table 3* to determine equivalent ducting sizing. The collector duct may be rectangular or square in cross section, as long as the area is not reduced. Provisions **MUST** be made for lint removal and cleaning of the collector duct.

The vent collector system must be designed so the static back pressure measured 12 inches (305 mm) from the exhaust outlet does not exceed the maximum allowable pressure specified in the Specifications and Dimensions Table or on the installation sticker on the rear of tumble dryer. Static back pressure must be measured with all tumble dryers vented into the collector operating.

NOTE: Never connect a tumble dryer duct at a 90° angle to the collector duct. Refer to *Figure 3*. Doing so will cause excessive back pressure, resulting in poor performance. Never connect two tumble dryer exhaust ducts directly across from each other at the point of entry to the collector duct.

With the tumble dryer in operation, airflow at any point in the duct should be at least 1200 feet per minute (366 meters per minute) to ensure that lint remains airborne. If 1200 feet per minute cannot be maintained, schedule monthly inspections and cleaning of the ductwork.

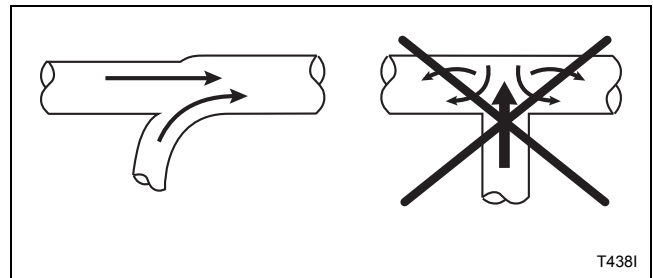


Figure 3

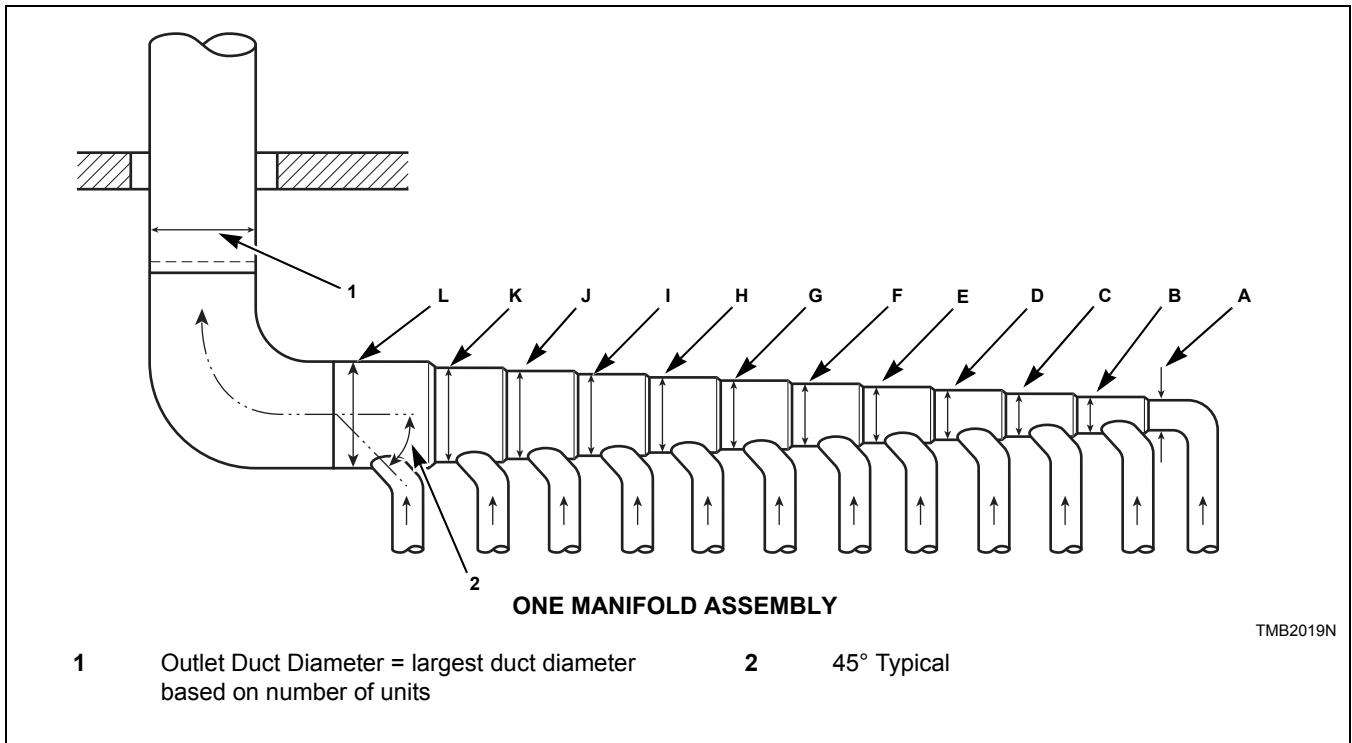


Figure 4

| Duct Station | Eco Line 25 Pound | Classic Line 25 and All 30 Pound | 35 and 55 Pound |
|--------------|-------------------|----------------------------------|-----------------|
| A | 4 in. (102 mm) | 6 in. (152 mm) | 8 in. (203 mm) |
| B | 6 in. (152 mm) | 10 in. (254 mm) | 12 in. (305 mm) |
| C | 8 in. (203 mm) | 12 in. (305 mm) | 15 in. (381 mm) |
| D | 10 in. (254 mm) | 14 in. (356 mm) | 17 in. (432 mm) |
| E | 12 in. (305 mm) | 16 in. (406 mm) | 19 in. (483 mm) |
| F | 12 in. (305 mm) | 18 in. (457 mm) | 21 in. (533 mm) |
| G | 14 in. (356 mm) | 19 in. (483 mm) | 23 in. (584 mm) |
| H | 14 in. (356 mm) | 20 in. (508 mm) | 24 in. (610 mm) |
| I | 15 in. (381 mm) | 22 in. (559 mm) | 26 in. (660 mm) |
| J | 16 in. (406 mm) | 23 in. (584 mm) | 27 in. (686 mm) |
| K | 17 in. (432 mm) | 24 in. (610 mm) | 28 in. (711 mm) |
| L | 18 in. (457 mm) | 25 in. (635 mm) | 30 in. (762 mm) |

Table 3

NOTE: Table 3 represents units with the same vent size. If multiple vent sizes are used, consult a local HVAC specialist.

NOTE: Duct clean-out recommended every 6 feet (183 cm).

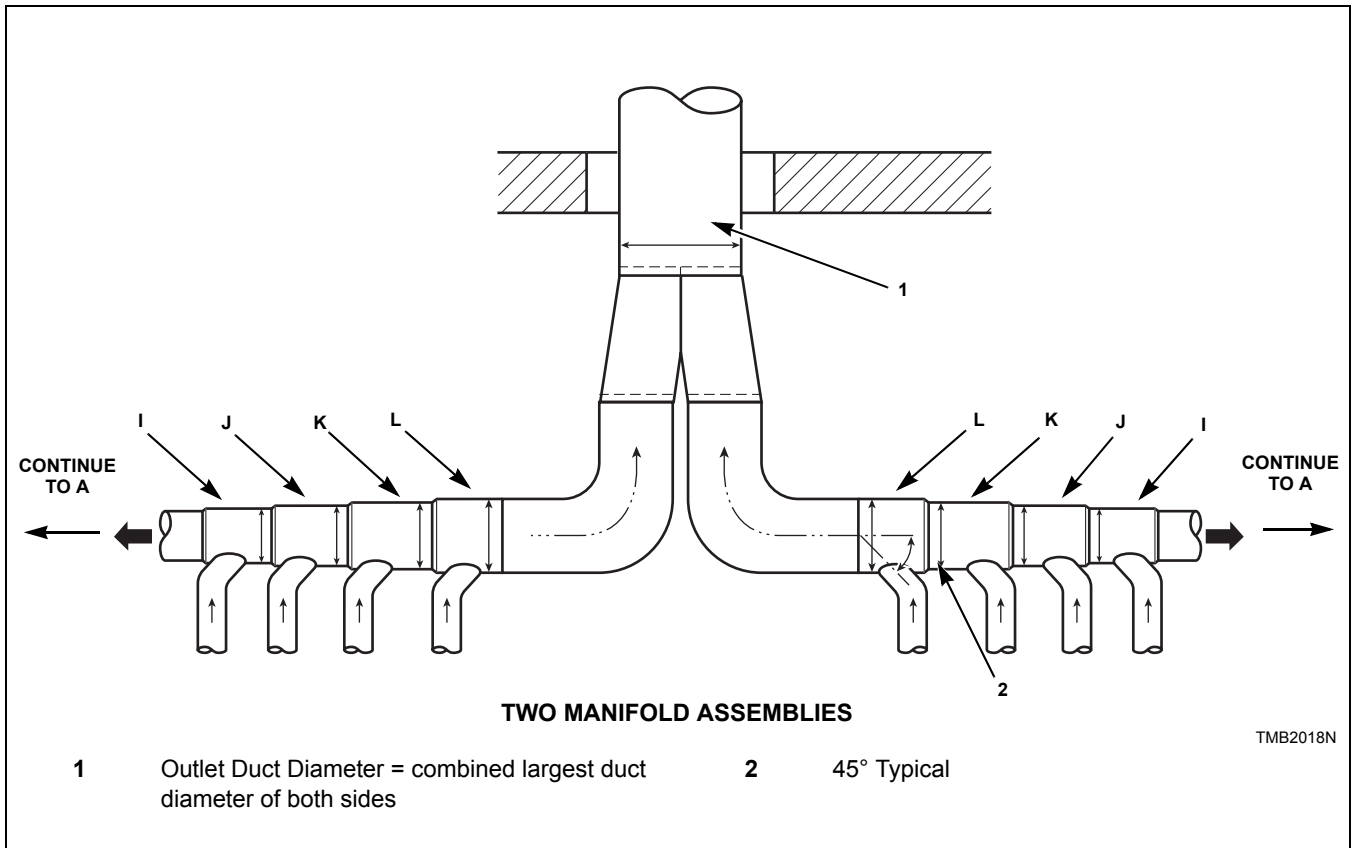


Figure 5

Refer to *Table 3* for measurements for each manifold.

Electrical Requirements for Gas and Steam Models

Refer to *Table 4* and *Table 5*.

NOTE: Minimum wire sizes are obtained from Canadian Electrical Code for 75°C Conductors and are intended for use as a guideline only. Electrical connections should be made only by a qualified electrical contractor in accordance with all applicable local and national requirements.

NOTE: Electrical specifications below are subject to change without notice. Always refer to product

For 25, 30 and 35 Pound Gas and Steam Models:

serial plate for most current specifications of product being installed.

NOTE: Use copper conductors only.

NOTE: 3 Phase Only – Each tumble dryer must be connected to its own individual branch circuit breaker, not fuses, to avoid the possibility of “single phasing” and causing premature failure of the motor(s).

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|----------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Nonreversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 120V/60Hz/1ph | L1, Neutral, and ground | 12.0 | N/A | 15A – 1 pole | 14 (2.5) |
| 208-240V/60Hz/1ph | L1, L2, Neutral, and ground | 6.7 | N/A | 10A – 2 pole | 14 (2.5) |
| 120V/60Hz/1ph | L1, Neutral, and ground | 7.5** | N/A | 10A – 1 pole | 14 (2.5) |
| 208-240V/60Hz/1ph | L1, L2, Neutral, and ground | 4.5** | N/A | 10A – 2 pole | 14 (2.5) |
| 100V/60Hz/1ph | L1, Neutral, and ground | 11.0 | N/A | 15A – 1 pole | 14 (2.5) |
| 200-220V/60Hz/1ph | L1, Neutral, and ground | 5.8 | N/A | 10A – 1 pole | 14 (2.5) |
| 100V/50Hz/1ph | L1, Neutral, and ground | 12.1 | N/A | 20A – 1 pole | 12 (4) |
| 200V/50Hz/1ph | L1, Neutral, and ground | 7.5 | N/A | 10A – 1 pole | 14 (2.5) |
| 230-240V/50Hz/1ph | L1, Neutral, and ground | 7.5 | N/A | 10A – 1 pole | 14 (2.5) |
| 200-208V/60Hz/3ph | L1, L2, L3, and ground | 3.2 | 4.0 | 10A* – 3 pole | 14 (2.5) |
| 240V/60Hz/3ph | L1, L2, L3, and ground | 3.2 | 4.0 | 10A* – 3 pole | 14 (2.5) |
| 200V/50Hz/3ph | L1, L2, L3, and ground | 2.9 | 3.5 | 10A* – 3 pole | 14 (2.5) |
| 230-240V/50Hz/3ph | L1, L2, L3, and ground | 3.5 | N/A | 10A* – 3 pole | 14 (2.5) |
| 380V/50 or 60Hz/3ph | L1, L2, L3, and ground | 1.5 | 2.0 | 10A* – 3 pole | 14 (2.5) |
| 400-415V/50Hz/3ph | L1, L2, L3, and ground | 1.6 | 2.0 | 10A* – 3 pole | 14 (2.5) |
| 440V/60Hz/3ph | L1, L2, L3, and ground | 1.6 | N/A | 10A* – 3 pole | 14 (2.5) |
| 460-480V/60Hz/3ph | L1, L2, L3, and ground | 1.6 | 2.0 | 10A* – 3 pole | 14 (2.5) |

* 3 Phase machines should not have fuses, breakers only.

** Special low Amp blower model, 025 Series only.

N/A = Not Applicable

Table 4

Tumble Dryers – 25, 30, 35 and 55

For 55 Pound Gas Models:

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|--------------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Nonreversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 120V/60Hz/1ph | L1, Neutral, and ground | 9.2 | N/A | 15A – 1 pole | 14 (2.5) |
| 208-240V/60Hz/1ph | L1, L2, Neutral, and ground | 6.5 | N/A | 10A – 2 pole | 14 (2.5) |
| 100V/60Hz/1ph | L1, Neutral, and ground | 9.8 | N/A | 15A – 1 pole | 14 (2.5) |
| 100V/50Hz/1ph | L1, Neutral, and ground | 10 | N/A | 15A – 1 pole | 14 (2.5) |
| 200V/50Hz/1ph | L1, Neutral, and ground | 6.2 | N/A | 15A – 1 pole | 14 (2.5) |
| 230-240V/50Hz/1ph | L1, Neutral, and ground | 5.5 | N/A | 10A – 1 pole | 14 (2.5) |
| 200-208V/60Hz/3ph | L1, L2, L3, and ground | 4.0 | 4.0 | 10A* – 3 pole | 14 (2.5) |
| 240V/60Hz/3ph | L1, L2, L3, and ground | 4.0 | 4.5 | 10A* – 3 pole | 14 (2.5) |
| 380V/50Hz/3ph | L1, L2, L3, and ground | 2.0 | 2.5 | 10A* – 3 pole | 14 (2.5) |
| 400-415V/50Hz/3ph | L1, L2, L3, and ground | 2.0 | 2.5 | 10A* – 3 pole | 14 (2.5) |

* 3 Phase machines should not have fuses, breakers only.
 N/A = Not Applicable

Table 5

Electrical Requirements for Electric Models

Refer to *Tables 8, 9, 11 and 13.*

NOTE: Minimum wire sizes are obtained from Canadian Electrical Code Table 2 for 75°C Conductors and are intended for use as a guideline only. Electrical connections should be made only by a qualified electrical contractor in accordance with all applicable local and national requirements.

NOTE: Electrical specifications below are subject to change without notice. Always refer to product serial plate for most current specifications of product being installed.

NOTE: Use copper conductors only.

NOTE: 3 Phase Only – Each tumble dryer must be connected to its own individual branch circuit breaker, not fuses, to avoid the possibility of “single phasing” and causing premature failure of the motor(s).

For 9 kW Classic Line 25 Pound Electric Models:

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|----------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Nonreversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 400V/50Hz/3ph | L1, L2, L3, and ground | 16 | N/A | 20A* – 3 pole | 12 (4) |

* 3 Phase machines should not have fuses, breakers only.
N/A = Not Applicable

Table 6

For 9 kW Eco Line 25 Pound Electric Models:

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|----------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Nonreversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 380V/50Hz/3ph | L1, L2, L3, and ground | 14.8 | N/A | 20A* - 3 pole | 12 (4) |
| 400-415V/50Hz/3ph | L1, L2, L3, and ground | 13.7 | N/A | 20A* – 3 pole | 12 (4) |

* 3 Phase machines should not have fuses, breakers only.
N/A = Not Applicable

Table 7

Tumble Dryers – 25, 30, 35 and 55

For 12 kW 25 Pound Electric Models:

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|----------------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Nonreversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 208V/60Hz/1ph | L1, L2, Neutral, and ground | 64 | N/A | 80A – 2 pole | 4 (25) |
| 240V/60Hz/1ph | L1, L2, Neutral, and ground | 57 | N/A | 80A – 2 pole | 4 (25) |
| 200V/50Hz/1ph | L1, Neutral, and ground | 63 | N/A | 80A – 1 pole | 4 (25) |
| 200V/60Hz/1ph | L1, L2 and ground | 64 | N/A | 80A – 2 pole | 4 (25) |
| 230-240V/50Hz/1ph | L1, Neutral, and ground | 58 | N/A | 80A – 1 pole | 4 (25) |
| 200-208V/60Hz/3ph | L1, L2, L3, and ground | 37 | 37 | 50A* – 3 pole | 6 (16) |
| 200V/50Hz/3ph | L1, L2, L3, and ground | 36 | 36 | 50A* – 3 pole | 6 (16) |
| 230-240V/50Hz/3ph | L1, L2, L3, and ground | 33 | N/A | 50A* – 3 pole | 6 (16) |
| 240V/60Hz/3ph | L1, L2, L3, and ground | 33 | 33 | 50A* – 3 pole | 6 (16) |
| 380V/50 or 60Hz/3ph | L1, L2, L3, and ground | 20 | 20 | 25A* – 3 pole | 10 (6) |
| 400-415V/50Hz/3ph | L1, L2, L3, and ground | 18 | 18 | 25A* – 3 pole | 10 (6) |
| 440V/60Hz/3ph | L1, L2, L3, and ground | 17 | 17 | 25A* – 3 pole | 10 (6) |
| 460-480V/60Hz/3ph | L1, L2, L3, and ground | 16 | 16 | 25A* – 3 pole | 10 (6) |

* 3 Phase machines should not have fuses, breakers only.
N/A = Not Applicable

Table 8

For 21 kW Classic Line 30 Pound Electric Models:

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|------------------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Non-reversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 208V/60Hz/1ph | L1, L2, Neutral, and ground | 108 | N/A | 150A – 2 pole | 1/0 (50) |
| 240V/60Hz/1ph | L1, L2, Neutral, and ground | 94 | N/A | 125A – 2 pole | 1 (35) |
| 200V/60Hz/1ph | L1, Neutral, and ground | 108 | N/A | 150A – 1 pole | 1/0 (50) |
| 200V/50Hz/1ph | L1, Neutral, and ground | 105 | N/A | 150A – 1 pole | 1/0 (50) |
| 230-240V/50Hz/1ph | L1, Neutral, and ground | 95 | N/A | 125A – 2 pole | 1 (35) |
| 200-208V/60Hz/3ph** | L1, L2, L3, and ground | 62 | 62 | 80A* – 3 pole | 4 (25) |
| 200V/50Hz/3ph** | L1, L2, L3, and ground | 60 | 60 | 80A* – 3 pole | 4 (25) |
| 230-240V/50Hz/3ph** | L1, L2, L3, and ground | 55 | N/A | 70A* – 3 pole | 4 (25) |
| 240V/60Hz/3ph** | L1, L2, L3, and ground | 54 | 54 | 70A* – 3 pole | 4 (25) |
| 380V/50 or 60Hz/3ph** | L1, L2, L3, and ground | 33 | 33 | 45A* – 3 pole | 8 (10) |
| 400-415V/50Hz/3ph** | L1, L2, L3, and ground | 31 | 31 | 40A* – 3 pole | 8 (10) |
| 440V/60Hz/3ph | L1, L2, L3, and ground | 29 | N/A | 40A* – 3 pole | 8 (10) |
| 460-480V/60Hz/3ph** | L1, L2, L3, and ground | 27 | 27 | 35A* – 3 pole | 8 (10) |

* 3 Phase machines should not have fuses, breakers only.
** These serial plate voltages are only options available on the 30 series electric models.
N/A = Not Applicable

Table 9

For 12 kW Eco Line 30 Pound Electric Models:

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|--------------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Non-reversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 380V/50Hz/3ph | L1, L2, L3, and ground | 19.4 | 19.4 | 25A* - 3 pole | 10 (6) |
| 400-415V/50Hz/3ph | L1, L2, L3, and ground | 17.8 | 17.8 | 25A* - 3 pole | 10 (6) |

* 3 Phase machines should not have fuses, breakers only.

Table 10

For 24 kW Classic Line 35 Pound Electric Models:

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|----------------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Nonreversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 208V/60Hz/1ph | L1, L2, Neutral, and ground | 122 | N/A | 175A – 2 pole | 2/0 (70) |
| 240V/60Hz/1ph | L1, L2, Neutral, and ground | 107 | N/A | 150A – 2 pole | 1/0 (50) |
| 200V/60Hz/1ph | L1, Neutral, and ground | 122 | N/A | 175A – 1 pole | 2/0 (70) |
| 200V/50Hz/1ph | L1, Neutral, and ground | 119 | N/A | 150A – 1 pole | 1/0 (50) |
| 230-240V/50Hz/1ph | L1, Neutral, and ground | 108 | N/A | 150A – 1 pole | 1/0 (50) |
| 200-208V/60Hz/3ph | L1, L2, L3, and ground | 71 | 71 | 90A* – 3 pole | 3 (26.7) |
| 200V/50Hz/3ph | L1, L2, L3, and ground | 65 | 65 | 90A* – 3 pole | 3 (26.7) |
| 230-240V/50Hz/3ph | L1, L2, L3, and ground | 62 | N/A | 80A* – 3 pole | 4 (25) |
| 240V/60Hz/3ph | L1, L2, L3, and ground | 62 | 62 | 80A* – 3 pole | 4 (25) |
| 380V/50 or 60Hz/3ph | L1, L2, L3, and ground | 38 | 38 | 50A* – 3 pole | 6 (16) |
| 400-415V/50Hz/3ph | L1, L2, L3, and ground | 35 | 35 | 45A* – 3 pole | 8 (10) |
| 440V/60Hz/3ph | L1, L2, L3, and ground | 33 | N/A | 45A* – 3 pole | 8 (10) |
| 460-480V/60Hz/3ph | L1, L2, L3, and ground | 31 | 31 | 40A* – 3 pole | 8 (10) |

* 3 Phase machines should not have fuses, breakers only.

N/A = Not Applicable

Table 11

For 12 kW Eco Line 35 Pound Electric Models

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|--------------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Nonreversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 380V/50Hz/3ph | L1, L2, L3, and ground | 19.3 | 19.3 | 25A* - 3 pole | 10 (6) |
| 400-415V/50Hz/3ph | L1, L2, L3, and ground | 17.8 | 17.8 | 25A* - 3 pole | 10 (6) |

* 3 Phase machines should not have fuses, breakers only.

Table 12

Tumble Dryers – 25, 30, 35 and 55

For 27 kW Classic Line 55 Pound Electric Models:

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|--------------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Nonreversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 208V/60Hz/1ph | L1, L2, Neutral, and ground | 129 | N/A | 175A – 2 pole | 2/0 (70) |
| 240V/60Hz/1ph | L1, L2, Neutral, and ground | 115 | N/A | 150A – 2 pole | 1/0 (50) |
| 200V/60Hz/1ph | L1, Neutral, and ground | 122 | N/A | 175A – 1 pole | 2/0 (70) |
| 200V/50Hz/1ph | L1, Neutral, and ground | 131 | N/A | 175A – 1 pole | 2/0 (70) |
| 230-240V/50Hz/1ph | L1, Neutral, and ground | 119 | N/A | 150A – 1 pole | 1/0 (50) |
| 200-208V/60Hz/3ph | L1, L2, L3, and ground | 79 | 79 | 100A* – 3 pole | 3 (26.7) |
| 240V/60Hz/3ph | L1, L2, L3, and ground | 65 | 65 | 80A* – 3 pole | 4 (25) |
| 380V/50Hz/3ph | L1, L2, L3, and ground | 43 | 43 | 60A* – 3 pole | 8 (10) |
| 400-415V/50Hz/3ph | L1, L2, L3, and ground | 38 | 38 | 50A* – 3 pole | 8 (10) |

* 3 Phase machines should not have fuses, breakers only.
N/A = Not Applicable

Table 13

For 18 kW Eco Line 55 Pound Electric Models:

| Serial Plate Voltage | Terminal Block Connections Required | Serial Plate Amps | | Recommended Circuit | |
|--------------------------|-------------------------------------|-------------------|-----------|---------------------|----------------------------------|
| | | Nonreversing | Reversing | Breaker Rating | Wire Size AWG (mm ²) |
| 380V/50Hz/3ph | L1, L2, L3, and ground | 29 | 29 | 40A* - 3 pole | 6 (16) |
| 400-415V/50Hz/3ph | L1, L2, L3, and ground | 26 | 26 | 35A* - 3 pole | 6 (16) |

* 3 Phase machines should not have fuses, breakers only.
N/A = Not Applicable

Table 14