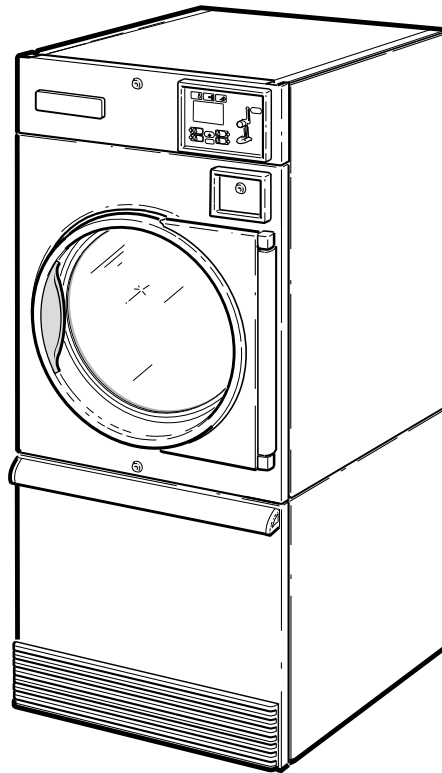


ON-PREMISES LAUNDRY PLANNING HANDBOOK



INDUSTRIAL
BY DESIGN



T478C

25, 30, 35 and 55 Pound Tumble Dryers

Refer to Installation Manual for full instructions.

Table of Contents

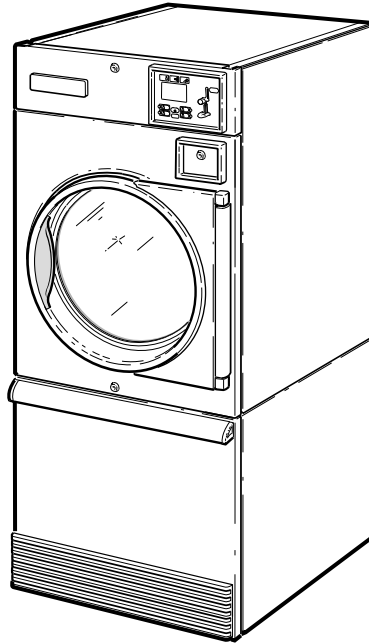
Tumble Dryers – 25, 30, 35 and 55	2
Introduction.....	2
Model Identification	2
Specifications and Dimensions	4
Cabinet Dimensions.....	6
Exhaust Outlet Locations.....	7
Gas Connection Locations.....	8
Electrical Connection Locations.....	9
Steam Connection Locations	10
Installation.....	11
Pre-Installation Inspection.....	11
Tumble Dryer Enclosure.....	12
Exhaust Requirements	13
Layout.....	13
Make-Up Air.....	13
Venting	13
Individual Venting.....	14
Manifold Venting.....	16
Electrical Requirements for Gas and Steam Models	19
Electrical Requirements for Electric Models.....	21

© Published by permission of the copyright owner.

All rights reserved. No part of the contents of this book may be reproduced or transmitted in any form or by any means without the expressed written consent of the publisher.

Tumble Dryers – 25, 30, 35 and 55

Introduction



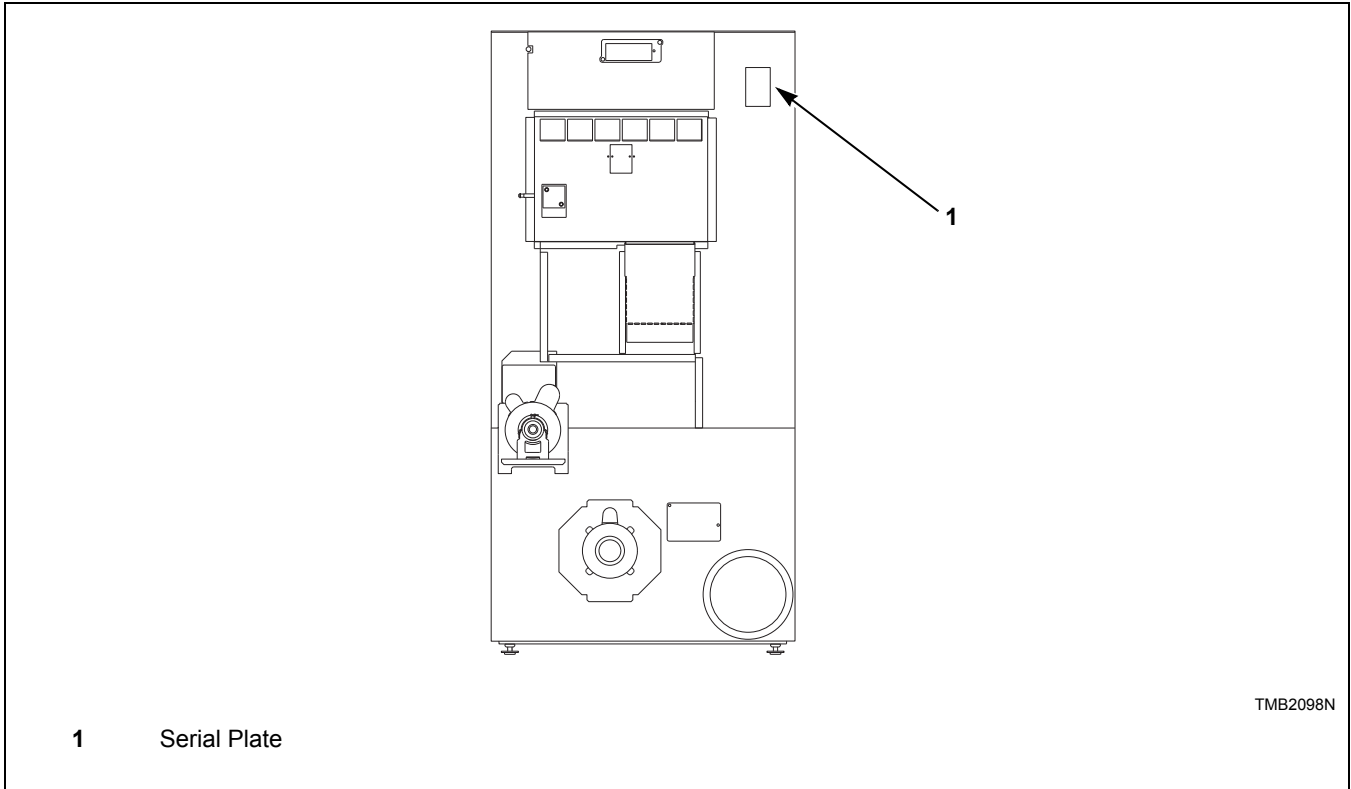
T478C

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	

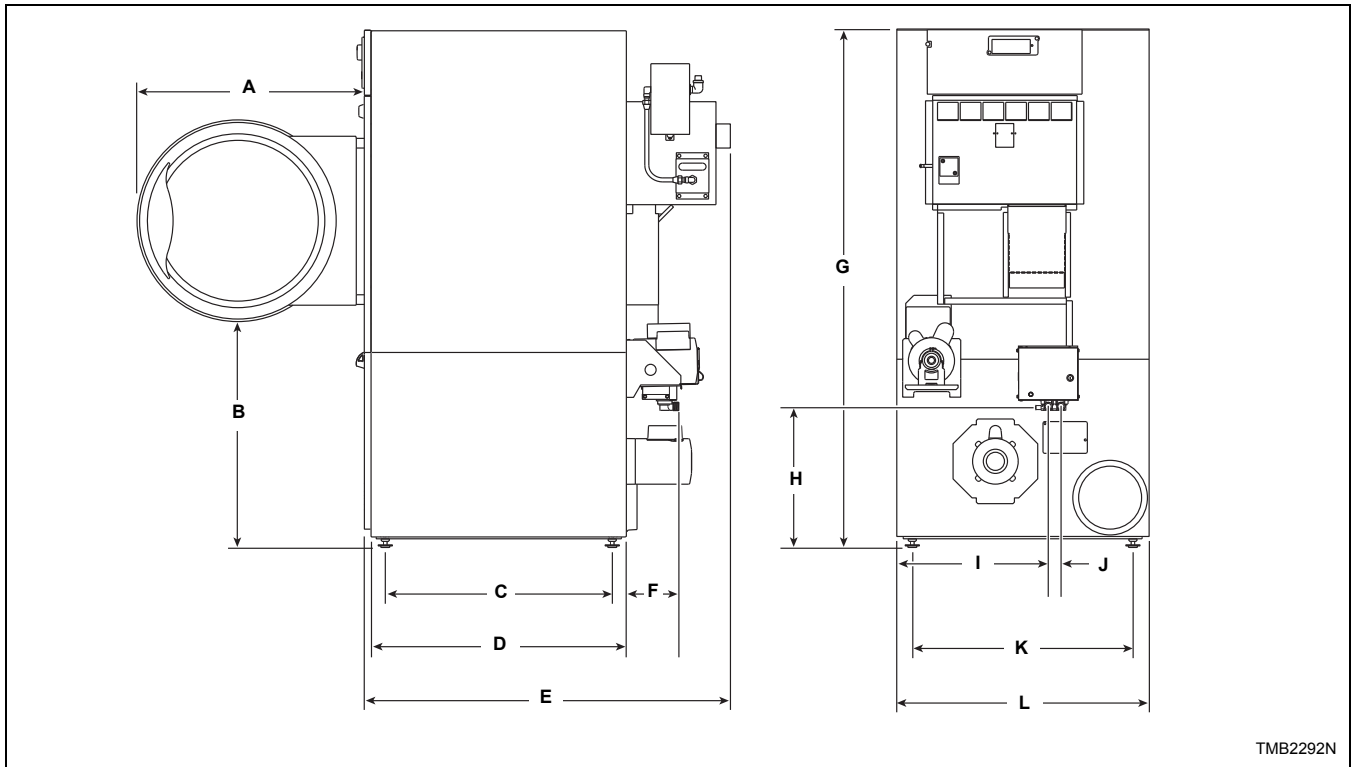
N/A = Not Applicable

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

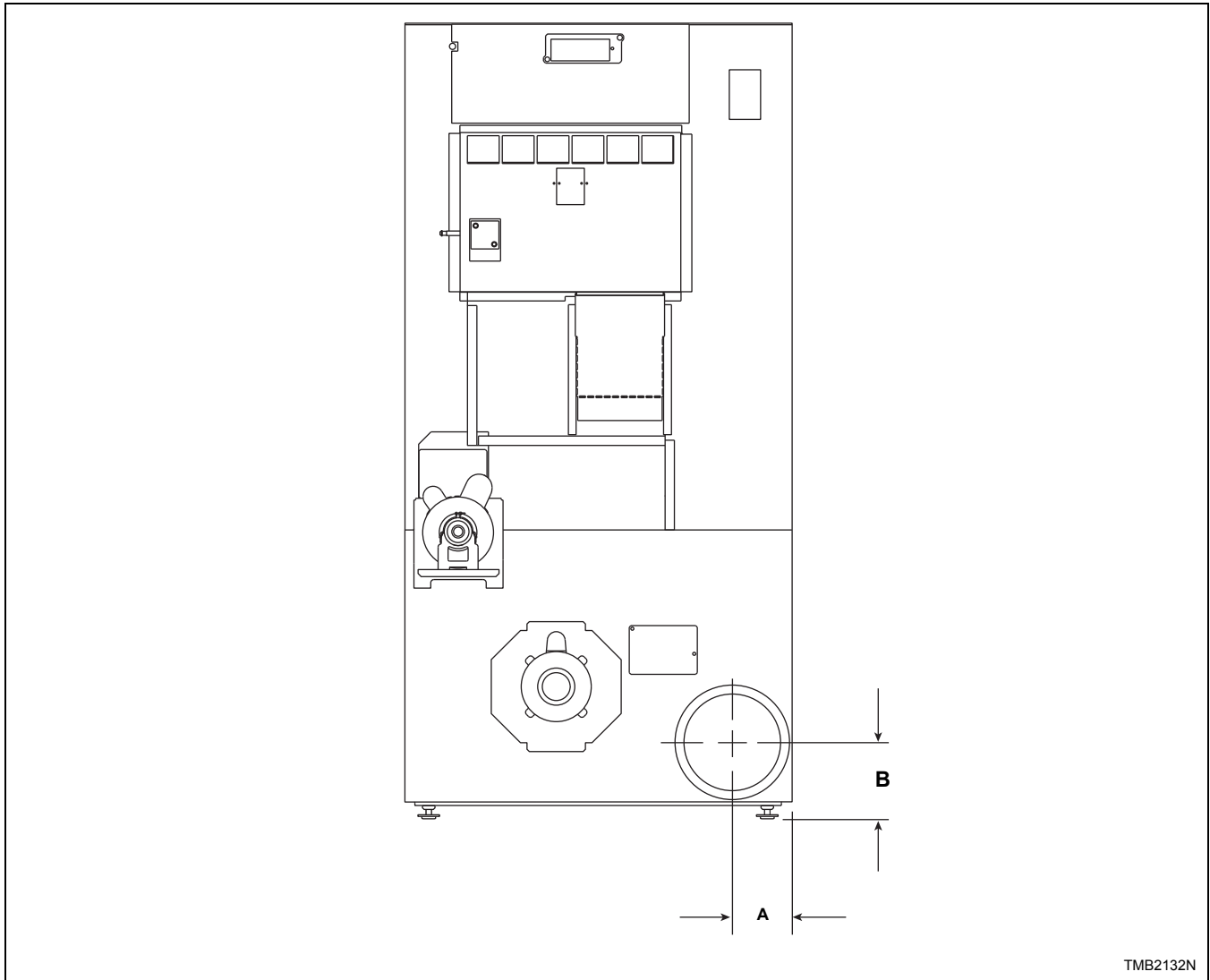


Models	A	B	C	D	E	F*
25 Pound	26.25 in. (667 mm)	27.5 in. (669 mm)	22.35 in. (568 mm)	25.75 in. (654 mm)	40.875 in. (1038 mm)	6.53 in. (166 mm)
30 Pound	26.25 in. (667 mm)	27.5 in. (669 mm)	28.35 in. (720 mm)	31.75 in. (806 mm)	46.875 in. (1191 mm)	6.53 in. (166 mm)
35 Pound	28 in. (711 mm)	27.5 in. (669 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).

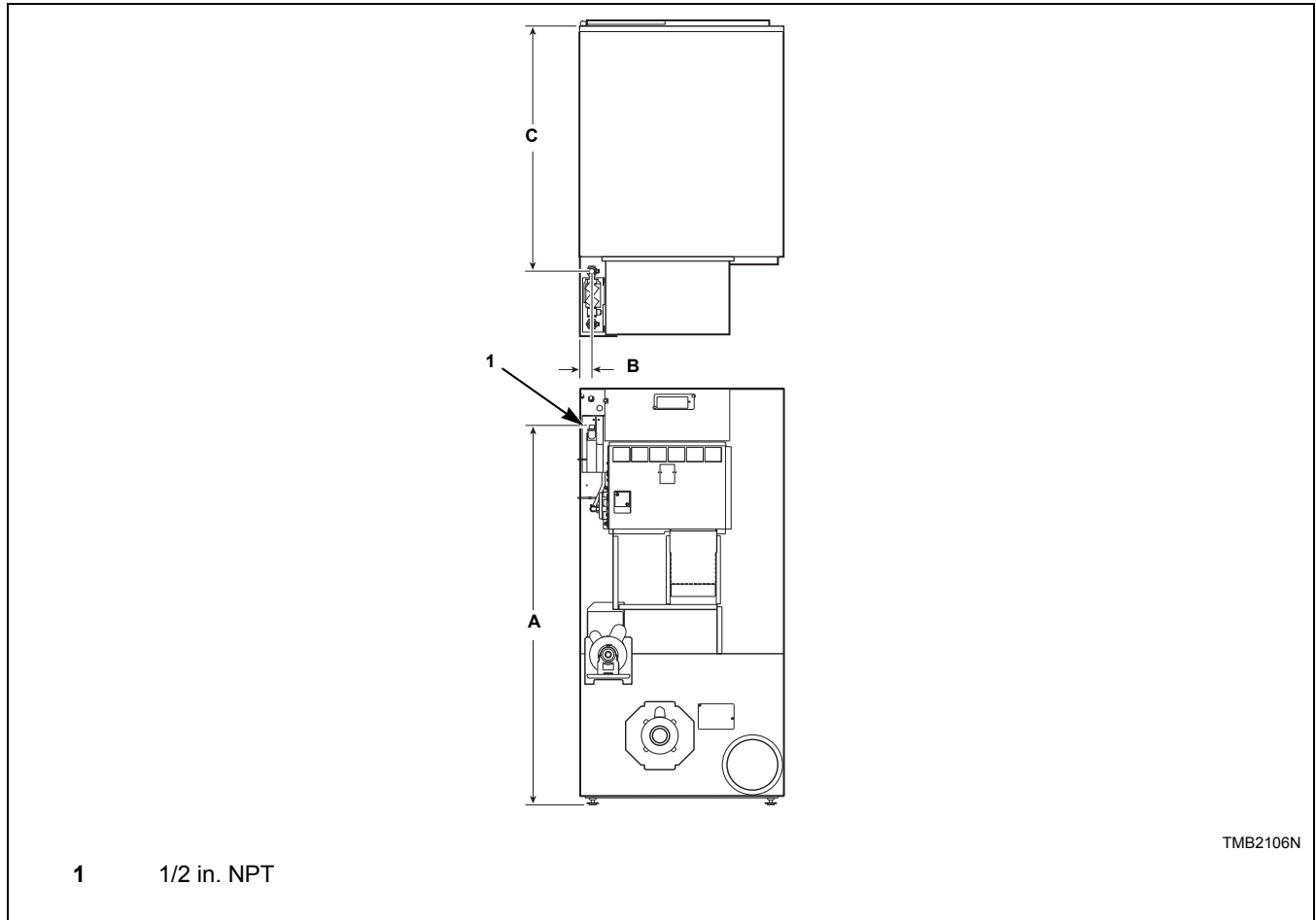
Exhaust Outlet Locations



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)

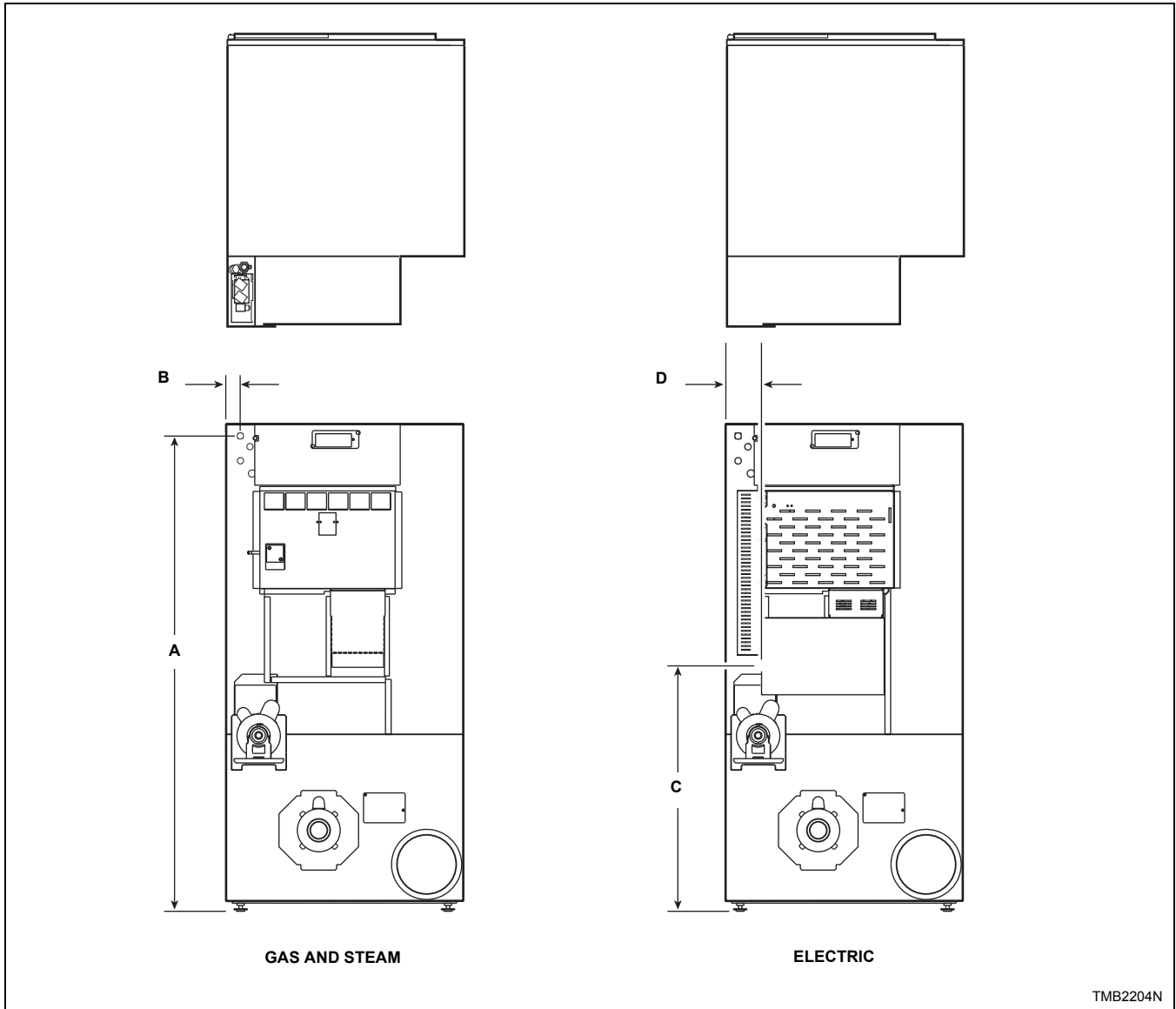
Gas Connection Locations



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)

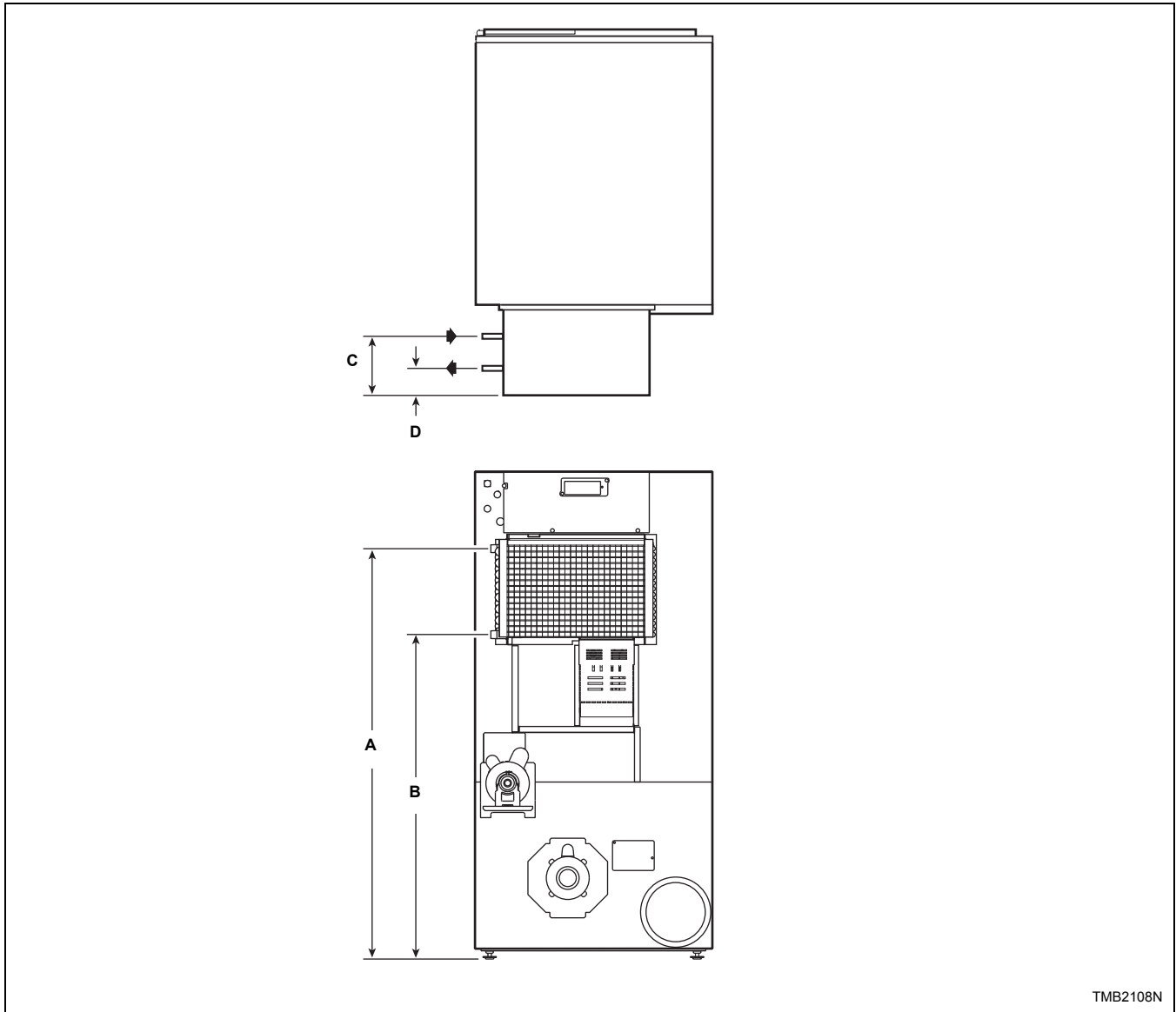
Models	Gas Connection – Non-CE and Non-Australian Units		
	A	B	C
25 Pound	57 in. (1450 mm)	2.5 in. (64 mm)	35.5 in. (927 mm)
30 Pound	57 in. (1450 mm)	2.5 in. (64 mm)	43 in. (1092 mm)
35 Pound	57 in. (1450 mm)	4 in. (101.6 mm)	43 in. (1092 mm)
55 Pound	55.285 in. (1404 mm)	1.621 in. (41.17 mm)	46.75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

Electrical Connection Locations



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.

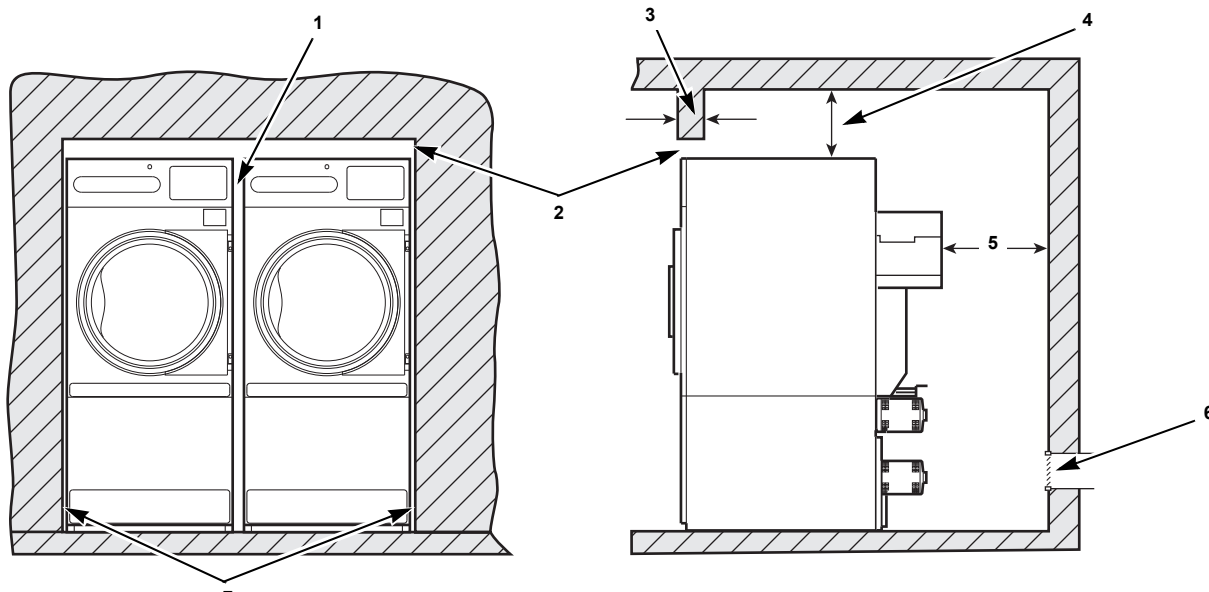
Tumble Dryer Enclosure



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:

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

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.

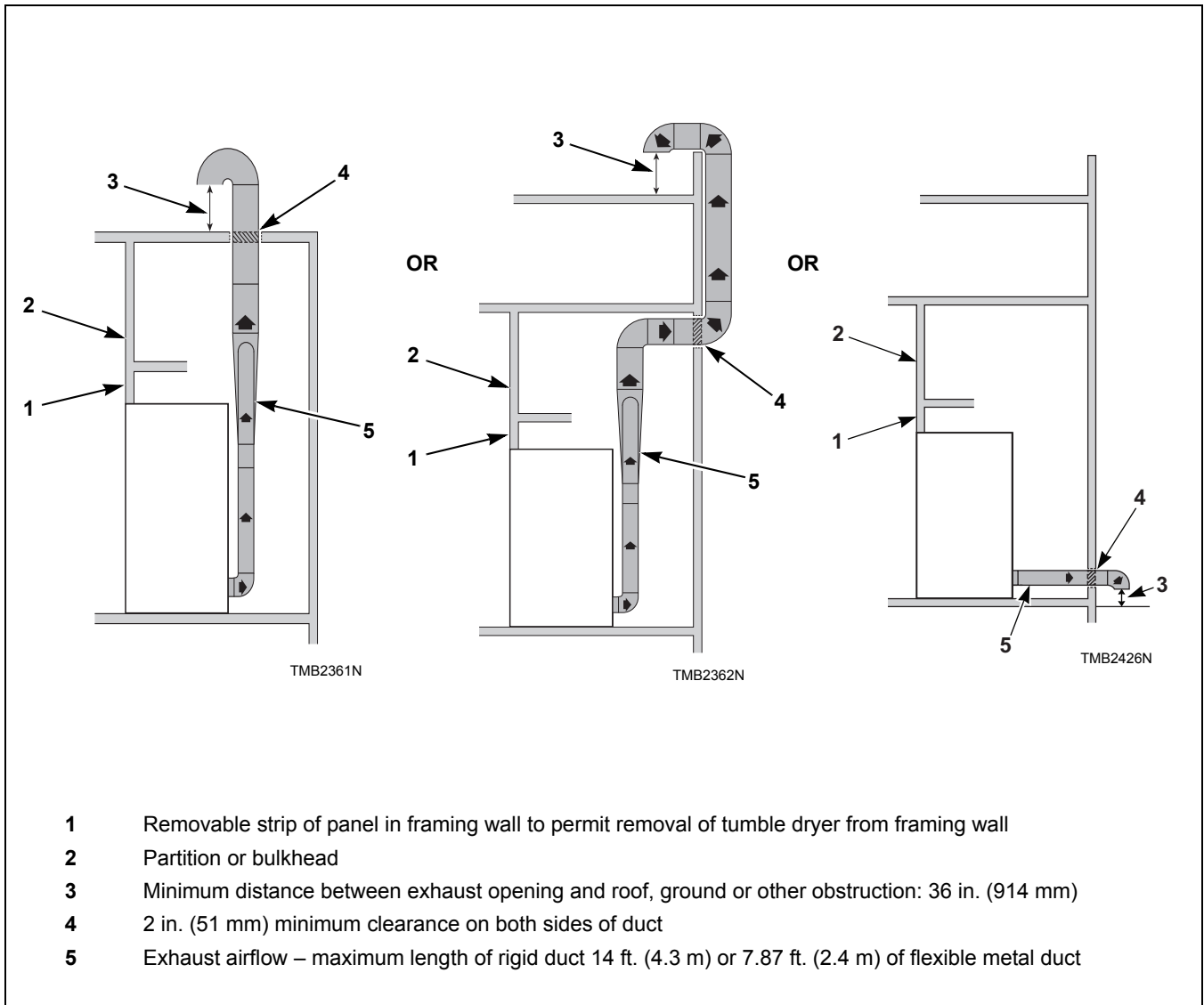


Figure 2

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.

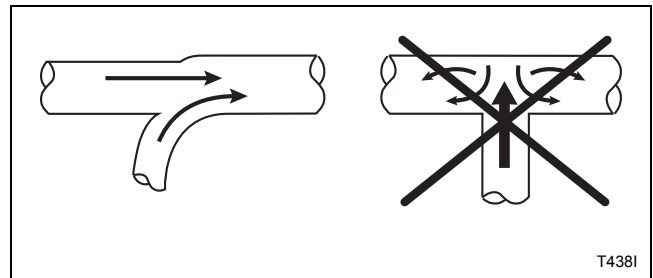


Figure 3

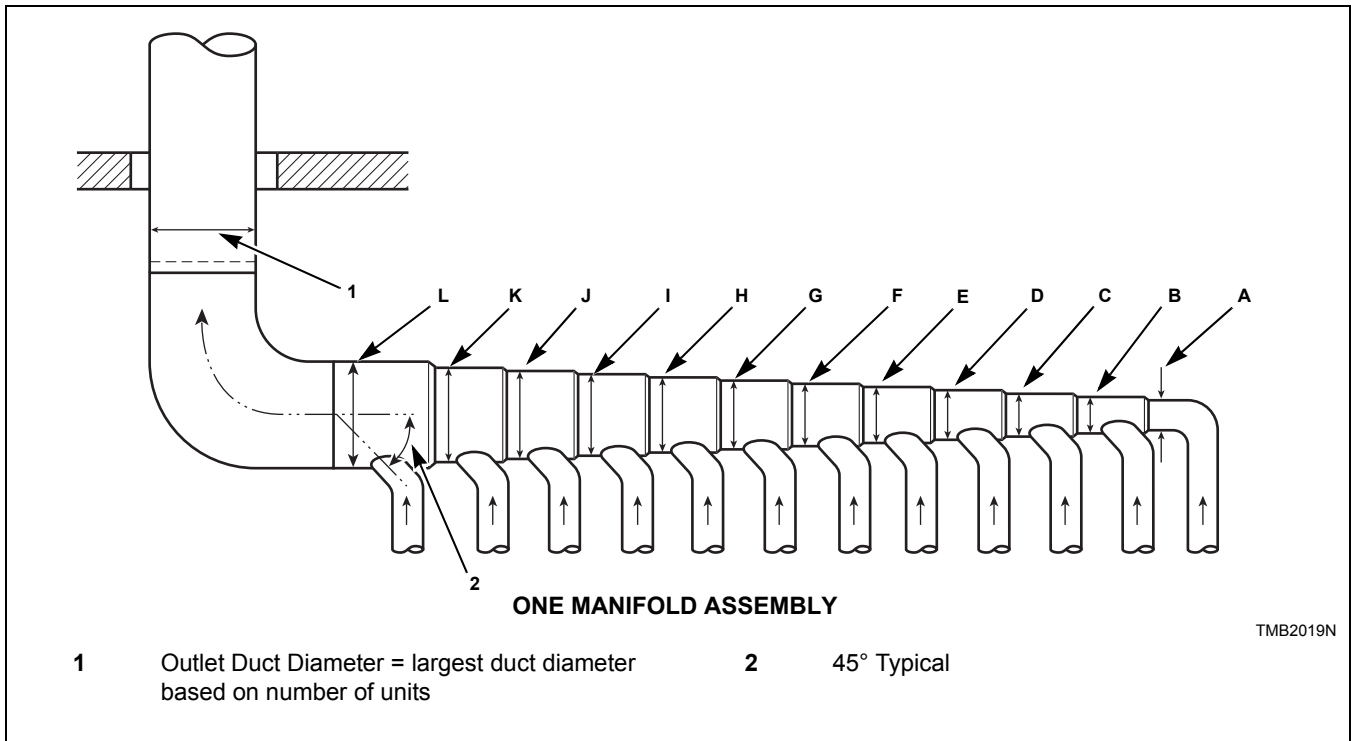


Figure 4

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).

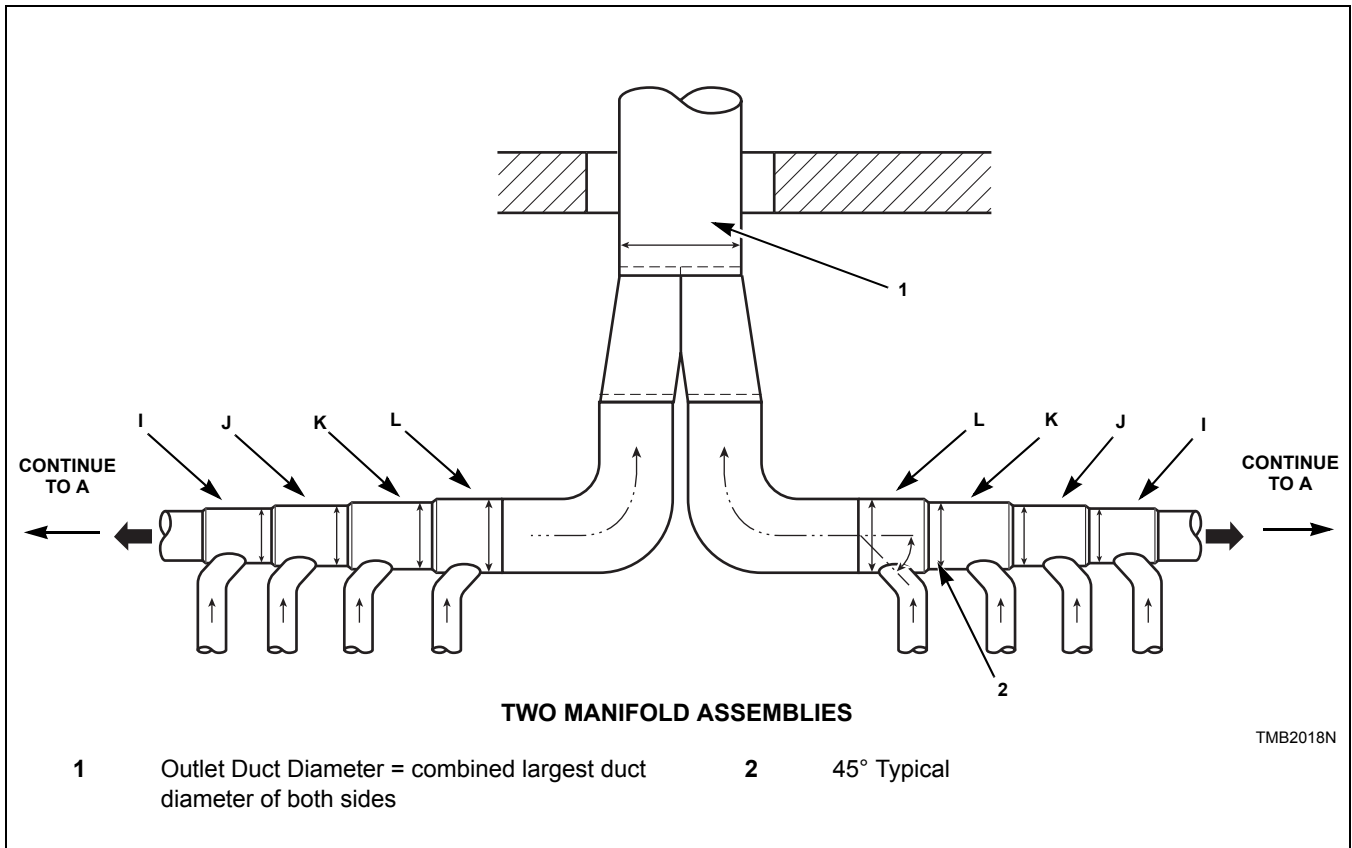


Figure 5

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