

Tumble Dryers

25 Pound (11 Kilogram) Capacity

30 Pound (13 Kilogram) Capacity

35 Pound (16 Kilogram) Capacity

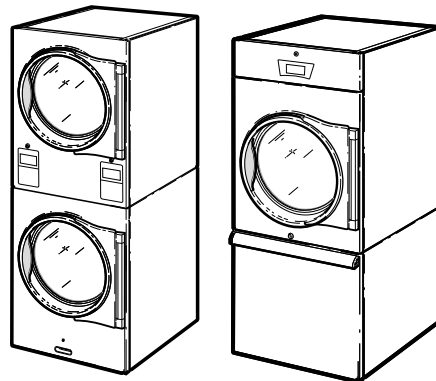
Stacked 30 Pound (13/13 Kilogram) Capacity

Stacked 45 Pound (20/20 Kilogram) Capacity

55 Pound (24 Kilogram) Capacity

18 Digit Model Numbers with 4 and 5 in 13th Position

Refer to Page 12 for Model Identification



TMB1286C_SVG

Original Instructions

Keep These Instructions for Future Reference.

CAUTION: Read the instructions before using the machine.

(If this machine changes ownership, this manual must accompany machine.)

Installation must conform with local codes or, in the absence of local codes, with:

In the U.S.A., installation must conform to the latest edition of the American National Standard Z223.1/ NFPA 54 “National Fuel Gas Code” and Standard ANSI/NFPA 70 “National Electric Code.”

In Canada, installation must comply with Standards CAN/CSA-B149.1 Natural Gas and Propane Installation Code and CSA C22.1, latest edition, Canadian Electric Code, Part I.

In Australia and New Zealand, installation must comply with the Gas Installations Standard AS/NZS 5601 Part 1: General Installations.

In Europe, before installation, check that the local distribution conditions, nature of gas and pressure, and the adjustment of the appliance are compatible.

This equipment has been designed and certified to comply with IEC/EN 60335 electrical safety standards for tumble dryers.



Read all instructions before using tumble dryer.

IMPORTANT: If it is unavoidable that fabrics that contain vegetable or cooking oil or have been contaminated by hair care products be placed in a tumble dryer, they should first be washed in hot water with extra detergent. This will reduce, but not eliminate, the hazard.

	WARNING
FOR YOUR SAFETY, the information in this manual must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury or death.	
W033	

	DANGER
Electric shock hazard will result in death or serious injury. Disconnect all electric power to appliance and accessories and wait five (5) minutes before servicing.	
W925	

Units are IPx4 when enclosed per these instructions.

	WARNING
<ul style="list-style-type: none">• Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.• WHAT TO DO IF YOU SMELL GAS:<ul style="list-style-type: none">• Do not try to light any appliance.• Do not touch any electrical switch; do not use any phone in your building.• Clear the room, building or area of all occupants.• Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.• If you cannot reach your gas supplier, call the fire department.• Installation and service must be performed by a qualified installer, service agency or the gas supplier.	
W052	

IMPORTANT: Information must be obtained from a local gas supplier on instructions to be followed if the user smells gas. These instructions must be posted in a prominent location. Step-by-step instructions of the above safety information must be posted in a prominent location near the tumble dryer for customer use.

IMPORTANT: Post the following statement in a prominent location

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

IMPORTANT: The installer must fully test the tumble dryer after installation and demonstrate to the owner how to operate the machine.

IMPORTANT: The machine shall only be installed in a room separated from inhabited rooms, incorporating appropriate ventilation specified in the National Installation Regulations.

IMPORTANT: The tumble dryer is not to be used if industrial chemicals have been used for cleaning.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/ panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

W002R1



WARNING

- Installation of unit must be performed by a qualified installer.
- Install tumble dryer according to manufacturer's instructions and local codes.
- DO NOT install a tumble dryer with flexible plastic venting materials. If flexible metal (foil type) duct is installed, it must be of a specific type identified by the appliance manufacturer as suitable for use with tumble dryer. Refer to section on connecting exhaust system. Flexible venting materials are known to collapse, be easily crushed, and trap lint. These conditions will obstruct tumble dryer airflow and increase the risk of fire.

W752R1



CAUTION

TO AVOID THE RISK OF FIRE THIS DRYER MUST BE EXHAUSTED OUTDOORS.

W928



WARNING

To reduce the risk of serious injury: Avoid contact with hot surfaces.

W927



WARNING

Electrical shock hazard can cause death or serious injury. To reduce the risk of electric shock, disconnect all electric power to appliance and accessories before servicing.

W929



WARNING

Moving parts hazard can cause serious injury. Disconnect electric power to unit before servicing. Unexpected start of machinery will occur if the unit is equipped with the extended tumble feature.

W937



WARNING

Lint compartment must be cleaned daily

To avoid the risk of fire:

- Use for drying water washed fabrics only.
- DO NOT dry articles containing foam rubber, plastic, or similarly textured rubber like materials.
- DO NOT put articles soiled with cooking oil in dryer as cooking oil may not be removed during washing. Due to the remaining oil the fabric may catch on fire by itself.
- DO NOT put articles soiled with flammable liquids or flammable cleaning solvents in dryer.

W930



CAUTION

- Risk of fire, a clothes dryer produces combustible lint. Exhaust outdoors. Care should be taken to prevent the accumulation of lint around the exhaust opening and in the surrounding area.
- DO NOT reach into the dryer until all moving parts have stopped.
- DO NOT let children play on or in the dryer.

W931

In Australia and New Zealand:



WARNING

- **DO NOT operate this appliance before reading the instruction booklet.**
- **DO NOT place articles on or against this appliance.**
- **DO NOT store chemicals or flammable materials or spray aerosols near this appliance.**
- **DO NOT operate with panels, covers or guards removed from this appliance.**
- **DO NOT load materials containing flammable solvents into this appliance.**
- **If repeated ignition reset is required, the dryer should not be used and a service call booked.**



Risk of fire/flammable material.

W926

The following information applies to the state of Massachusetts, USA.

- This appliance can only be installed by a Massachusetts licensed plumber or gas fitter.
- This appliance must be installed with a 36 inch [91 cm] long flexible gas connector.
- A “T-Handle” type gas shut-off valve must be installed in the gas supply line to this appliance.
- This appliance must not be installed in a bedroom or bathroom.

Regulatory Statements

PRODUCT COMPLIANCE

Users of this product are cautioned not to make modifications or changes that are not approved by Alliance Laundry Systems, LLC. Doing so may void the compliance of this product with applicable laws and regulatory requirements and may result in the loss of the user’s authority to operate the equipment.

UNITED STATES

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions; (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. How-

ever, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the radio or television receiving antenna.
- Increase the separation between the computer equipment or receiver.
- Connect the equipment into an outlet on a circuit different from that to which the radio or television receiver is connected.
- Consult the dealer or experienced radio television technician for help.



CAUTION

To comply with the limits of the Class B device, pursuant to Part 15 of the FCC Rules, this device is to comply with Class B limits. All peripherals must be shielded and grounded. Operation with non-certified peripherals or non-shielded cables is likely to result in interference and reception of the device.

W1004

Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The radio installed in this equipment and is intended to operate with minimum distance 20cm between the radiator and your body.

Limited Channels Fixed For Use In USA: IEEE 802.11b or 802.11g or 802.11n(HT20) operation of this product in the U.S. is firmware-limited to Channel 1 through 11.

CANADA - CAN ICES-3(B)/NMB-3(B)

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s license-exempt RSS(s) standards. Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure Statement: This equipment complies with Innovation, Science and Economic Development Canada’s radiation exposure limits set forth for in RSS-102. The radio installed in this equipment is installed and is intended to operate with minimum distance 20cm between the radiator and your body.

EUROPE

Products bearing the CE mark comply with the following EU directives:

- EMC Directive 2014/30/EU

- Machinery Directive 2006/42/EC
- Gas Appliance Directive 2016/426/EU
- RoHS Directive 2011/65/EU and its amendment directives; Commission Delegated Directive 2015/863 to restrict four phthalates

If the product has telecommunications functionality, it also complies with the requirements of the following EU directive:

- Radio Equipment Directive 2014/53/EU

Compliance with these Directives implies conformity to harmonized European standards that are noted in the EU Declaration of Conformity which is available upon request.

Alliance Laundry Systems products comply with the requirement of Article 12 as it can be operated in at least one Member State as examined and the product is compliant with Article 11 as it has no restrictions on putting into service in all EU member states.

This device contains a 2.4GHz transceiver, intended for indoor use only in all EU member states, EFTA states, and Switzerland. Attention has been given to allowed operational frequencies. For detailed information concerning installations in France, the user should contact the national spectrum authority in France (<http://www.arcep.fr/>)

Be aware that outdoor installations require special attention and will only be handled by trained and qualified installation personnel. No one from the general-public is permitted to install wireless products outdoors when external antennas, power and grounding must be installed for use.

AUSTRALIA/NEW ZEALAND

The radio in this equipment complies with and is certified to the Australian and New Zealand regulatory requirements.

BRAZIL ANATEL

This device is not entitled to protection against harmful interference and may not interfere with duly authorized systems.

CHINA SRRC

The radio device has received certification of conformance in accordance with the People's Republic of China State Radio Regulation Committee (SRRC) certification scheme. Integrations of this radio into a final product does not require additional radio certification provided installation instructions are followed. No changes are authorized to the radio or the antenna of the approved device.

JAPAN

This product is equipped with a certified wireless device pursuant to Article 2-1-19 of the Certification Ordinance. No changes are authorized to the radio or the antenna of the approved device.

MEXICO IFETEL

“The operation of this equipment is subject to the following two conditions: (1) it is possible that this equipment or device does not cause harmful interference and (2) this equipment or device must accept any interference, including that which may cause its unwanted operation.”

SOUTH KOREA (KC)

The radio device has received certification of conformance in accordance with the Radio Waves Act. Integration of this radio into a final product does not require additional radio certification provided installation instructions are followed. No changes are authorized to the radio or the antenna of the approved device.

TAIWAN

The information in this section applies to products bearing the Taiwan National Communications Commission mark:

This telecom equipment has complied with NCC regulations.

According to “Administrative Regulations of Low Power Radio Waves Radiated Devices:

Article 12 The low-power radio-frequency devices must not be altered by changing the frequency, enhancing emission power, adding external antenna, and modification of original design characteristic as well as function.

Article 14 The operation of the low-power radio-frequency devices is subject to the conditions that no harmful interference is caused. The user must stop operating the device immediately should harmful interference is caused and shall not resume until the condition causing the harmful interference has been corrected.

Moreover, the interference must be accepted that may be caused by the operation of an authorized communications, or ISM equipment. (1) Precautions (marked in the product manual and on outer packaging)

THAILAND

The information in this section applies to products approved by the Thailand National Communications Commission:

These telecommunication and device are compliance with the requirements of National Broadcasting and Telecommunication Commission.

Manufacturing Date

The manufacturing date for your unit can be found on the serial number. The first two digits indicate the year. The third and fourth digits indicate the month. For example, a unit with serial number 1505000001 was manufactured in May 2015.

China Restriction of hazardous substances (RoHS)

The Table of Hazardous Substances/Elements and their Content

As required by China's Management Methods for Restricted Use of Hazardous Substances in Electrical and Electronic Products

Hazardous substances						
Part Name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (CR[VI])	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
PCBs	X	O	O	O	O	O
Electromechanical Parts	O	O	O	O	O	O
Cables and Wires	O	O	O	O	O	O
Metal Parts	O	O	O	O	O	O
Plastic Parts	O	O	O	O	O	O
Batteries	O	O	O	O	O	O
Textile	O	O	O	O	O	O
Timing Belts	O	O	O	O	O	O
Insulation	O	O	O	O	O	O
Glass	O	O	O	O	O	O
Display	O	O	O	O	O	O

This table is prepared in accordance with the provisions of SJ/T-11364.

O: Indicates that the content of said hazardous substance in all of the homogenous materials in the component is within the limits required by GB/T 26572.

X: Indicates that the content of said hazardous substance exceeds the limits required by GB/T 26572 in at least one homogenous material in the component.

All parts named in this table with an "X" are in compliance with the European Union's RoHS Legislation.


NOTE: The referenced Environmental Protection Use Period Marking was determined according to normal operating use conditions of the product such as temperature and humidity.



This product under normal use, durable years of environmental protection is 15 years.

Safety Information

Important Safety Instructions

	WARNING
<p>To reduce the risk of fire, electric shock, serious injury or death to persons when using your tumble dryer, follow these basic precautions.</p>	
W776R1	

Save These Instructions

- Read all instructions before using the tumble dryer.
- Install the tumble dryer according to the INSTALLATION instructions. Refer to the EARTHING (grounding) instructions for the proper earthing (grounding) of the tumble dryer. All connections for electrical power, earthing (grounding) and gas supply must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.
- Do not install or store the tumble dryer where it will be exposed to water and/or weather. The tumble dryer cannot be used in a closed room where the air supply is insufficient. If necessary, ventilation grids must be installed in the doors or the windows.
- This tumble dryer must not be activated without lint screen filter.
- When you perceive a gas odor, immediately shut off the gas supply and ventilate the room. Do not power on electrical appliances and do not pull electrical switches. Do not use matches or lighters. Do not use a phone in the building. Warn the installer, and if so desired, the gas company, as soon as possible.
- To avoid fire and explosion, keep surrounding areas free of flammable and combustible products. Regularly clean the cylinder and exhaust tube should be cleaned periodically by competent maintenance personnel. Daily remove debris from lint screen filter and inside of filter compartment.
- Do not use or store flammable materials near this appliance.
- Do not place into tumble dryer articles that have been previously cleaned in, washed in, soaked in or spotted with gasoline or machine oils, vegetable or cooking oils, cleaning waxes or chemicals, dry-cleaning solvents, thinner or other flammable or explosive substances as they give off vapors that could ignite, explode or cause fabric to catch on fire by itself.
- Do not spray aerosols in the vicinity of this appliance while it is in operation.
- Items such as foam rubber (latex foam), shower caps, waterproof textiles, rubber backed articles and clothes or pillows filled with foam rubber pads should not be dried in the tumble dryer. Do not use the appliance to dry materials with a low melting temperature (PVC, rubber, etc.).
- Do not tumble fiberglass curtains and draperies unless the label says it can be done. If they are dried, wipe out the cylinder with a damp cloth to remove particles of fiberglass.
- Do not allow children to play on or in the dryer. Close supervision of children is necessary when the dryer is used near children. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. This is a safety rule for all appliances.
- Cleaning and user maintenance shall not be made by children without supervision.
- Children less than three years should be kept away unless continuously supervised.
- Do not reach into the tumble dryer if the cylinder is revolving.
- Use tumble dryer only for its intended purpose, drying fabrics. Always follow the fabric care instructions supplied by the textile manufacturer and only use the dryer to dry textiles that have been washed in water. Only insert spin-dried linen in the dryer to avoid damage to dryer.
- Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Follow all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
- Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- Remove laundry immediately after tumble dryer stops.
- DO NOT operate the tumble dryer if it is smoking, grinding or has missing or broken parts or removed guards or panels. DO NOT tamper with the controls or bypass any safety devices.
- Tumble dryer will not operate with the loading door open. DO NOT bypass the door safety switch to permit the tumble dryer to operate with the door open. The tumble dryer will stop rotating when the door is opened. Do not use the tumble dryer if it does not stop rotating when the door is opened or starts tumbling without pressing the START mechanism. Remove the tumble dryer from use and call for service.
- Tumble dryer will not operate with lint panel open. DO NOT bypass lint panel door safety switch to permit the tumble dryer to operate with the lint panel door open.
- Do not alter this tumble dryer from factory construction except as otherwise described in the technical instructions.
- Always clean the lint filter daily. Keep area around the exhaust opening and adjacent surrounding area free from the accumulation of lint, dust and dirt. The interior of the tumble dryer and the exhaust duct should be cleaned periodically by qualified service personnel.
- Solvent vapors from dry-cleaning machines create acids when drawn through the heater of the drying unit. These acids are corrosive to the tumble dryer as well as the laundry load being dried. Be sure make-up air is free of solvent vapors.

- At the end of each working day, close off all main supplies of gas, steam and electricity.

IMPORTANT: For fire suppression equipped tumble dryers, electricity and water should NOT be turned off.

- Do not repair or replace any part of the tumble dryer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out. ALWAYS disconnect and lockout the electrical power to the tumble dryer before servicing. Disconnect power by shutting off appropriate breaker or fuse.
- Activation of the emergency stop switch stops all tumble dryer control circuit functions, but DOES NOT remove all electrical power from tumble dryer.
- Exhaust ductwork should be examined and cleaned annually after installation.
- Before the tumble dryer is removed from service or discarded, remove the door to the drying compartment and the door to the lint compartment.
- Failure to install, maintain, and/or operate this tumble dryer according to the manufacturer’s instructions may result in conditions which can produce bodily injury and/or property damage.




NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Observe and be aware of other labels and precautions that are located on the machine. They are intended to provide instruction for safe use of the machine. Common sense, caution and care must be exercised when installing, maintaining, or operating the tumble dryer.

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

NOTE: All appliances are produced according to the EMC-directive (Electro-Magnetic-Compatibility). They can be used in restricted surroundings only (comply minimally with class A requirements). For safety reasons there must be kept the necessary precaution distances with sensitive electrical or electronic device(s). These machines are not intended for domestic use by private consumers in the home environment.

Explanation of Safety Messages

Precautionary statements (“DANGER,” “WARNING,” and “CAUTION”), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

	DANGER
Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.	
	WARNING
Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.	
	CAUTION
Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.	

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

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Introduction

Machine Identification

Information in this manual is applicable to these machines. **Refer to the serial plate.**

25 Series (11 Kg)							
HA025E	HG025S	HJ025R	HT025F	SA025F	SH025E	SJ025S	ST025F
HA025F	HH025E	HJ025S	HT025L	SA025L	SH025F	SK025E	ST025L
HA025L	HH025F	HK025E	HT025N	SA025N	SH025L	SK025F	ST025N
HA025N	HH025L	HK025F	HT025R	SA025R	SH025N	SK025L	ST025R
HA025R	HH025N	HK025L	HT025S	SA025S	SH025R	SK025N	ST025S
HA025S	HH025R	HK025N	HU025E	SG025D	SH025S	SK025R	SU025E
HG025D	HH025S	HK025R	HU025F	SG025E	SJ025D	SL025E	SU025F
HG025E	HJ025D	HL025E	HU025L	SG025F	SJ025E	SL025L	SU025L
HG025F	HJ025E	HL025L	HU025N	SG025L	SJ025F	SR025E	SU025N
HG025L	HJ025F	HR025E	HU025R	SG025N	SJ025L	SR025S	SU025R
HG025N	HJ025L	HR025S	HU025S	SG025R	SJ025N	ST025E	SU025S
HG025R	HJ025N	HT025E	SA025E	SG025S	SJ025R		
RT025E-IA	RT025F-IA	RT025L-IA	RT025N-IA	RT025R-IA	RT025S-IA	RT025T-IA	
RT025E-TA	RT025F-TA	RT025L-TA	RT025N-TA	RT025R-TA	RT025S-TA	RT025T-TA	

30 Series (13 Kg)							
BA030E	BJ030F	HA030E	HJ030E	HT030S	PJ030L	SG030D	SK030E
BA030F	BJ030L	HA030F	HJ030F	HU030E	PJ030N	SG030E	SK030F
BA030L	BJ030N	HA030L	HJ030L	HU030F	PJ030S	SG030F	SK030L
BA030N	BJ030R	HA030N	HJ030N	HU030L	PK030E	SG030L	SK030N
BA030R	BJ030S	HA030R	HJ030R	HU030N	PK030L	SG030N	SK030R
BA030S	BK030E	HA030S	HJ030S	HU030R	PK030N	SG030R	SL030E
BG030D	BK030F	HG030D	HK030E	HU030S	PL030E	SG030S	SL030L
BG030E	BK030L	HG030E	HK030F	PA030E	PL030L	SH030E	SR030E
BG030F	BK030N	HG030F	HK030L	PA030L	PR030E	SH030F	SR030S
BG030L	BK030R	HG030L	HK030N	PA030N	PR030S	SH030L	ST030F
BG030N	BL030E	HG030N	HK030R	PA030S	PU030E	SH030N	ST030L

Table continues...

30 Series (13 Kg)							
BG030R	BL030L	HG030R	HL030E	PG030E	PU030L	SH030R	ST030N
BG030S	BR030E	HG030S	HL030L	PG030L	PU030N	SH030S	ST030R
BH030E	BR030S	HH030E	HR030E	PG030N	PU030S	SJ030D	ST030S
BH030F	BU030E	HH030F	HR030S	PG030S	SA030E	SJ030E	SU030E
BH030L	BU030F	HH030L	HT030E	PH030E	SA030F	SJ030F	SU030F
BH030N	BU030L	HH030N	HT030F	PH030L	SA030L	SJ030L	SU030L
BH030R	BU030N	HH030R	HT030L	PH030N	SA030N	SJ030N	SU030N
BH030S	BU030R	HH030S	HT030N	PH030S	SA030R	SJ030R	SU030R
BJ030D	BU030S	HJ030D	HT030R	PJ030E	SA030S	SJ030S	SU030S
BJ030E							
RT030E-IA	RT030F-IA	RT030L-IA	RT030N-IA	RT030R-IA	RT030S-IA	RT030T-IA	
RT030E-TA	RT030F-TA	RT030L-TA	RT030N-TA	RT030R-TA	RT030S-TA	RT030T-TA	

T30 Series (13/13 Kg)							
BAT30E	BJT30F	HAT30F	HJT30F	HUT30E	PJT30N	SGT30E	SKT30F
BAT30F	BJT30L	HAT30L	HJT30L	HUT30F	PJT30S	SGT30F	SKT30L
BAT30L	BJT30N	HAT30N	HJT30N	HUT30L	PKT30E	SGT30L	SKT30N
BAT30N	BJT30R	HAT30R	HJT30R	HUT30N	PKT30L	SGT30N	SKT30R
BAT30R	BJT30S	HAT30S	HJT30S	HUT30R	PKT30N	SGT30R	SLT30E
BAT30S	BKT30E	HGT30D	HKT30E	HUT30S	PLT30E	SGT30S	SLT30L
BGT30D	BKT30F	HGT30E	HKT30F	PAT30E	PLT30L	SHT30E	SRT30E
BGT30E	BKT30L	HGT30F	HKT30L	PAT30L	PRT30E	SHT30F	SRT30S
BGT30F	BKT30N	HGT30L	HKT30N	PAT30N	PRT30S	SHT30L	STT30E
BGT30L	BKT30R	HGT30N	HKT30R	PAT30S	PUT30E	SHT30N	STT30F
BGT30N	BLT30E	HGT30R	HLT30E	PGT30E	PUT30L	SHT30R	STT30L
BGT30R	BLT30L	HGT30S	HLT30L	PGT30L	PUT30N	SHT30S	STT30N
BGT30S	BRT30E	HHT30E	HRT30E	PGT30N	PUT30S	SJT30D	STT30R
BHT30E	BRT30S	HHT30F	HRT30S	PGT30S	SAT30E	SJT30E	STT30S
BHT30F	BUT30E	HHT30L	HTT30E	PHT30E	SAT30F	SJT30F	SUT30E
BHT30L	BUT30F	HHT30N	HTT30F	PHT30L	SAT30L	SJT30L	SUT30F
BHT30N	BUT30L	HHT30R	HTT30L	PHT30N	SAT30N	SJT30N	SUT30L
BHT30R	BUT30N	HHT30S	HTT30N	PHT30S	SAT30R	SJT30R	SUT30N

Table continues...

T30 Series (13/13 Kg)							
BHT30S	BUT30R	HJT30D	HTT30R	PJT30E	SAT30S	SJT30S	SUT30R
BJT30D	BUT30S	HJT30E	HTT30S	PJT30L	SGT30D	SKT30E	SUT30S
BJT30E	HAT30E						
RTT30E-IA	RTT30F-IA	RTT30L-IA	RTT30N-IA	RTT30R-IA	RTT30S-IA	RTT30T-IA	
RTT30E-TA	RTT30F-TA	RTT30L-TA	RTT30N-TA	RTT30R-TA	RTT30S-TA	RTT30T-TA	

35 Series (16 Kg)							
BA035E	BJ035F	HA035L	HJ035L	HU035L	PJ035M	SG035E	SK035F
BA035F	BJ035L	HA035M	HJ035M	HU035M	PJ035N	SG035F	SK035L
BA035L	BJ035M	HA035N	HJ035N	HU035N	PJ035S	SG035L	SK035N
BA035M	BJ035N	HA035R	HJ035R	HU035P	PK035E	SG035M	SK035R
BA035N	BJ035R	HA035S	HJ035S	HU035R	PK035L	SG035N	SL035E
BA035R	BJ035S	HG035D	HK035E	HU035S	PK035N	SG035R	SL035L
BA035S	BK035E	HG035E	HK035F	PA035E	PL035E	SG035S	SR035E
BG035D	BK035F	HG035F	HK035L	PA035L	PL035L	SH035E	SR035S
BG035E	BK035L	HG035L	HK035N	PA035M	PR035E	SH035F	ST035E
BG035F	BK035N	HG035M	HK035R	PA035N	PR035S	SH035L	ST035F
BG035L	BK035R	HG035N	HL035E	PA035S	PU035E	SH035M	ST035L
BG035M	BL035E	HG035R	HL035L	PG035E	PU035L	SH035N	ST035M
BG035N	BL035L	HG035S	HR035E	PG035L	PU035M	SH035R	ST035N
BG035R	BR035E	HH035E	HR035S	PG035M	PU035N	SH035S	ST035R
BG035S	BR035S	HH035F	HT035E	PG035N	PU035S	SJ035D	ST035S
BH035E	BU035E	HH035L	HT035F	PG035S	SA035E	SJ035E	SU035E
BH035F	BU035F	HH035M	HT035L	PH035E	SA035F	SJ035F	SU035F
BH035L	BU035L	HH035N	HT035M	PH035L	SA035L	SJ035L	SU035L
BH035M	BU035M	HH035R	HT035N	PH035M	SA035M	SJ035M	SU035M
BH035N	BU035N	HH035S	HT035R	PH035N	SA035N	SJ035N	SU035N
BH035R	BU035R	HJ035D	HT035S	PH035S	SA035R	SJ035R	SU035P
BH035S	BU035S	HJ035E	HU035E	PJ035E	SA035S	SJ035S	SU035R
BJ035D	HA035E	HJ035F	HU035F	PJ035L	SG035D	SK035E	SU035S
BJ035E	HA035F						

Table continues...

35 Series (16 Kg)							
RT035E-IA	RT035F-IA	RT035L-IA	RT035N-IA	RT035R-IA	RT035S-IA	RT035T-IA	
RT035E-TA	RT035F-TA	RT035L-TA	RT035N-TA	RT035R-TA	RT035S-TA	RT035T-TA	

T45 Series (20/20 Kg) * Only available in gas							
BAT45L	BJT45L	HAT45N	HJT45L	HUT45L	PJT45N	SGT45L	SKT45L
BAT45N	BJT45N	HAT45R	HJT45N	HUT45N	PKT45L	SGT45N	SKT45N
BAT45R	BJT45R	HGT45D	HJT45R	HUT45R	PKT45N	SGT45R	SKT45R
BGT45D	BKT45L	HGT45L	HKT45L	PAT45L	PLT45L	SHT45L	SLT45L
BGT45L	BKT45N	HGT45N	HKT45N	PAT45N	PUT45L	SHT45N	STT45L
BGT45N	BKT45R	HGT45R	HKT45R	PGT45L	PUT45N	SHT45R	STT45N
BGT45R	BLT45L	HHT45L	HLT45L	PGT45N	SAT45L	SJT45D	STT45R
BHT45L	BUT45L	HHT45N	HTT45L	PHT45L	SAT45N	SJT45L	SUT45L
BHT45N	BUT45N	HHT45R	HTT45N	PHT45N	SAT45R	SJT45N	SUT45N
BHT45R	BUT45R	HJT45D	HTT45R	PJT45L	SGT45D	SJT45R	SUT45R
BJT45D	HAT45L						
RTT45L-IA	RTT45N-IA	RTT45R-IA					
RTT45L-TA	RTT45N-TA	RTT45R-TA					

55 Series (24 Kg) * Only available in gas and electric							
BA055E	BJ055E	BU055R	HJ055D	HT055N	PJ055L	SG055E	SK055F
BA055F	BJ055F	HA055E	HJ055E	HT055R	PJ055N	SG055F	SK055L
BA055L	BJ055L	HA055F	HJ055F	HU055E	PK055E	SG055L	SK055N
BA055N	BJ055N	HA055L	HJ055L	HU055F	PK055L	SG055N	SK055R
BA055R	BJ055R	HA055N	HJ055N	HU055L	PK055N	SG055R	SL055E
BG055D	BK055E	HA055R	HJ055R	HU055N	PL055E	SH055E	SL055L
BG055E	BK055F	HG055D	HK055E	HU055R	PL055L	SH055F	SR055E
BG055F	BK055L	HG055E	HK055F	PA055E	PR055E	SH055L	ST055E
BG055L	BK055N	HG055F	HK055L	PA055L	PU055E	SH055N	ST055F
BG055N	BK055R	HG055L	HK055N	PA055N	PU055L	SH055R	ST055L
BG055R	BL055E	HG055N	HK055R	PG055E	PU055N	SJ055D	ST055N
BH055E	BL055L	HG055R	HL055E	PG055L	SA055E	SJ055E	ST055R

Table continues...

55 Series (24 Kg) * Only available in gas and electric							
BH055F	BR055E	HH055E	HL055L	PG055N	SA055F	SJ055F	SU055E
BH055L	BU055E	HH055F	HR055E	PH055E	SA055L	SJ055L	SU055F
BH055N	BU055F	HH055L	HT055E	PH055L	SA055N	SJ055N	SU055L
BH055R	BU055L	HH055N	HT055F	PH055N	SA055R	SJ055R	SU055N
BJ055D	BU055N	HH055R	HT055L	PJ055E	SG055D	SK055E	SU055R
RT055E-IA	RT055F-IA	RT055L-IA	RT055N-IA	RT055R-IA			
RT055E-TA	RT055F-TA	RT055L-TA	RT055N-TA	RT055R-TA			

Heater Digit (Position 6)
D - Liquid Petroleum (L.P.) Gas, Japan
E - Electric
F - Reduced Electric (Eco Line)
L - L.P. Gas
M - Medium Electric
N - Natural Gas
P - Low Electric
R - Reduced Gas, Natural Gas (Eco Line)
S - Steam

Contact Information

If service is required, contact the nearest Factory Authorized Service Center.

If you are unable to locate an authorized service center or are unsatisfied with the service performed on your unit, contact the source from which you purchased your unit.


When calling or writing about your unit, PLEASE GIVE THE MODEL AND SERIAL NUMBERS. The model and serial numbers are located on the serial plate. The serial plate will be in the location shown in *Figure 1*.

Date Purchased _____

Model Number _____

Serial Number _____

Please include a copy of your bill of sale and any service receipts you have.

	<h3>WARNING</h3>
<p>To reduce the risk of serious injury or death, DO NOT repair or replace any part of the unit or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that you understand and have the skills to carry out.</p>	
<p>W329</p>	

If replacement parts are required, contact the source from where you purchased your unit.

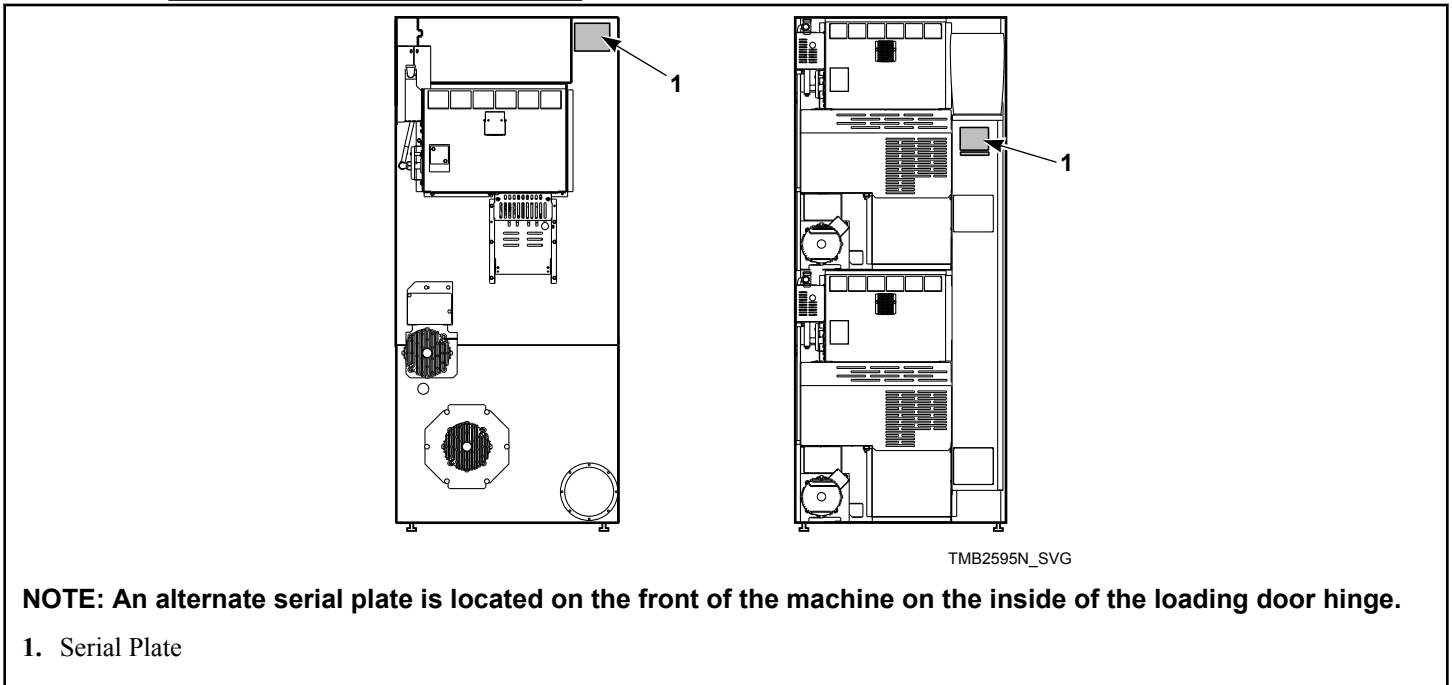


Figure 1

Specifications and Dimensions

Specifications and Dimensions

Refer to machine serial plate for additional specifications.

Specifications	025 Series	030 Series	035 Series	055 Series
Weights and Shipping Information				
Net Weight (approximate): Pounds [kg]	Gas and Steam 300 [135] Electric 310 [140]	Gas and Steam 320 [145] Electric 330 [150]	Gas and Steam 340 [155] Electric 350 [160]	Gas 430 [195] Electric 440 [200]
Standard Packaging Weight: Pounds [kg]	Gas and Steam 320 [145] Electric 330 [150]	Gas and Steam 340 [155] Electric 350 [160]	Gas and Steam 360 [165] Electric 370 [170]	Gas 470 [215] Electric 480 [220]
Slat Crate Packaging Weight: Pounds [kg]	Gas and Steam 450 [205] Electric 460 [210]	Gas and Steam 470 [215] Electric 480 [220]	Gas and Steam 490 [220] Electric 500 [230]	Gas 650 [295] Electric 660 [300]
Standard Packaging Shipping Dimensions: Inch [mm]	30.0 x 43.0 x 67.6 [760 x 1,090 x 1,720]	30.0 x 49.0 x 67.6 [760 x 1,240 x 1,720]	33.0 x 49.0 x 67.6 [840 x 1,240 x 1,720]	35.5 x 57.0 x 70.5 [900 x 1,450 x 1,790]
Standard Packaging Shipping Volume: ft ³ [m ³]	50 [1.4]	58 [1.6]	63 [1.8]	83 [2.4]
Slat Crate Packaging Shipping Dimensions: Inch [mm]	34.5 x 46.0 x 87.0 [880 x 1,170 x 2,210]	34.5 x 52.0 x 87.0 [880 x 1,320 x 2,210]	37.5 x 52.0 x 87.0 [950 x 1,320 x 2,210]	40.0 x 60.0 x 87.0 [1,020 x 1,520 x 2,210]
Slat Crate Packaging Shipping Volume: ft ³ [m ³]	80 [2.3]	90 [2.5]	98 [2.8]	121 [3.4]
Cylinder Size				
Cylinder Size: Inch [mm]	26.5 x 24.0 [673 x 610]	26.5 x 30.0 [673 x 762]	30.0 x 30.0 [762 x 762]	33.0 x 35.0 [838 x 889]
Cylinder Capacity (dry weight): Pounds [kg]	25 [11]	30 [13]	35 [16]	55 [24]
Cylinder Volume: feet ³ [Liter]	7.7 [220]	9.6 [270]	12.3 [350]	17.3 [490]
Operational Information				

Table 1 continues...

Specifications	025 Series	030 Series	035 Series	055 Series
Drive Motor: Horsepower [kW]	0.3 [0.2]	0.3 [0.2]	0.3 [0.2]	0.5 [0.4]
Fan Motor: Horsepower [kW]	0.5 [0.4]	0.5 [0.4]	0.5 [0.4]	0.5 [0.4]
Air Outlet Diameter: Inch [mm]	Standard Line 6.0 [150] Eco Line 4.0 [100]	Standard Line 6.0 [150] Eco Line 6.0 [150]	Standard Line 8.0 [200] Eco Line 6.0 [150]	Standard Line 8.0 [200] Eco Line 8.0 [200]
Maximum Airflow: C.F.M. [l/sec]	Standard Line 500 [240] Eco Line 300 [140]	Standard Line 500 [240] Eco Line 500 [240]	Standard Line 600 [280] Eco Line 550 [260]	Standard Line 700 [330] Eco Line 700 [330]
Maximum Static Back Pressure: Inch W.C. [mbar, kPa]	Standard Line 0.80 [2.0, 0.20] Eco Line 1.4 [3.5, 0.35]	Standard Line 0.80 [2.0, 0.20] Eco Line 0.80 [2.0, 0.20]	Standard Line 0.60 [1.5, 0.15] Eco Line 0.90 [2.2, 0.22]	Standard Line 0.60 [1.5, 0.15] Eco Line 0.60 [1.5, 0.15]
Minimum Static Back Pressure: Inch W.C. [mbar, kPa]	0.0 [0.0, 0.0]	0.0 [0.0, 0.0]	0.0 [0.0, 0.0]	0.0 [0.0, 0.0]
Heat dissipation of surface area exposed to conditioned air: Btu/ft ² [Joules/m ²]	60 [680,000]	60 [680,000]	60 [680,000]	60 [680,000]
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	59 dBA	59 dBA	61 dBA	61 dBA
Door Opening Information				
Door Opening Diameter: Inch [mm]	22.7 [576]	22.7 [576]	22.7 [576]	26.9 [684]
Door Hinge Side	Right (Reversible, OPL only)	Right (Reversible, OPL only)	Right (Reversible, OPL only)	Right (Reversible, OPL only)
Door Maximum Open Angle: Degrees	180	180	180	180

Table 1 *continues...*

Specifications	025 Series	030 Series	035 Series	055 Series
Gas Models				
Gas Connection	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT
Gas Burner Rating: BTU/hr. [kW, Mj/hr.]	Standard Line 64,000 [18.8, 67.5]	Standard Line 73,000 [21.4, 77.0]	Standard Line 90,000 [26.4, 95.0]	Standard Line 112,000 [32.8, 118]
	Eco Line 52,500 [15.4, 55.4]	Eco Line 55,000 [16.1, 58.0]	Eco Line 64,000 [18.8, 67.5]	Eco Line 105,000 [30.8, 111]
	Electric Models			
Heating Element Rating: Kilowatts	Standard Line - 12 Eco Line - 9	Standard Line - 21 Eco Line - 12	Standard Line - 24 Medium - 18 Eco Line - 12 Low - 9	Standard Line - 27 Eco Line - 18
	Steam Models			
Steam Connection (Inlet and Outlet)	3/4 NPT	3/4 NPT	3/4 NPT	Not Applicable
Steam Coil Rating at 100 psig: BTU/hr. [kg/hr.] (recommended operating pressure 80-100 psig)	83,500 [39.5]	83,500 [39.5]	103,400 [49.0]	Not Applicable

Table 1

NOTE: All IEC machines are shipped with an adapter to convert the gas connection threads to BSPT (from NPT).

Specifications	T30 Series	T45 Series
Weights and Shipping Information		
Net Weight (approximate): Pounds [kg]	Gas 570 [260] Steam 610 [275] Electric 630 [285]	670 [300]
Standard Packaging Weight: Pounds [kg]	Gas 600 [270] Steam 640 [290] Electric 660 [300]	710 [320]

Table 2 continues...

Specifications	T30 Series	T45 Series
Slat Crate Packaging Weight: Pounds [kg]	Gas 730 [330] Steam 770 [350] Electric 790 [360]	890 [400]
Standard Packaging Shipping Dimensions: Inch [mm]	32.5 x 47.0 x 79.9 [830 x 1,190 x 2,030]	35.5 x 54.0 x 84.9 [900 x 1,370 x 2,160]
Standard Packaging Shipping Volume: ft ³ [m ³]	82 [2.3]	94 [2.7]
Slat Crate Packaging Shipping Dimensions: Inch [mm]	35.5 x 50.0 x 87.0 [900 x 1,270 x 2,210]	40.0 x 60.0 x 87.0 [1,020 x 1,520 x 2,210]
Slat Crate Packaging Shipping Volume: ft ³ [m ³]	89 [2.5]	121 [3.4]
Cylinder Information		
Cylinder Size: Inch [mm]	30.0 x 26.0 [762 x 660]	33.0 x 30.0 [838 x 762]
Cylinder Capacity (dry weight): Pounds [kg]	2 x 30 [2 x 13]	2 x 45 [2 x 20]
Cylinder Volume: feet ³ [Liter]	2 x 10.6 [2 x 300]	2 x 14.8 [2 x 420]
Operational Information		
Drive Motor (per pocket): Horsepower [kW]	0.3 [0.2]	0.5 [0.4]
Fan Motor (per pocket): Horsepower [kW]	0.5 [0.4]	0.5 [0.4]
Air Outlet Diameter: Inch [mm]	Standard Line (elliptical) 8.0 [200] Eco Line (round) 6.0 [150]	Standard Line 10.0 [250] Eco Line 10.0 [250]
Maximum Airflow (total machine): C.F.M. [l/sec]	Standard Line 800 [380] Eco Line 660 [310]	Standard Line 1,200 [570] Eco Line 1,200 [570]

Table 2 *continues...*

Specifications and Dimensions

Specifications	T30 Series	T45 Series
Maximum Static Back Pressure (total machine): Inch W.C. [mbar, kPa]	0.90 [2.2, 0.22]	0.90 [2.2, 0.22]
Minimum Static Back Pressure (total machine): Inch W.C. [mbar, kPa]	0.0 [0.0, 0.0]	0.0 [0.0, 0.0]
Heat dissipation of surface area exposed to conditioned air: Btu/ft ² [Joules/m ²]	60 [680,000]	60 [680,000]
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 (total machine)	63 dBA	65 dBA
Door Opening Information		
Door Opening Diameter: Inch [mm]	22.7 [576]	26.9 [684]
Door Hinge Side	Right	Right
Door Maximum Open Angle: Degrees	180	180
Gas Models		
Gas Connection	1/2 NPT	1/2 NPT
Gas Burner Rating (per pocket): BTU/hr. [kW, Mj/hr.]	Standard Line 73,000 [21.4, 77.0] Eco Line 55,000 [16.1, 58.0]	Standard Line 95,000 [27.8, 100] Eco Line 80,000 [23.4, 84.4]
Gas Burner Rating (total machine): BTU/hr. [kW, Mj/hr.]	Standard Line 146,000 [42.8, 154] Eco Line 110,000 [32.2, 116]	Standard Line 190,000 [55.6, 200] Eco Line 160,000 [46.8, 169]
Electric Models		
Heating Element Rating (per pocket): Kilowatts	Standard Line - 21 Eco Line - 12	Not Applicable
Steam Models		
Steam Connection (Inlet and Outlet)	3/4 NPT	Not Applicable

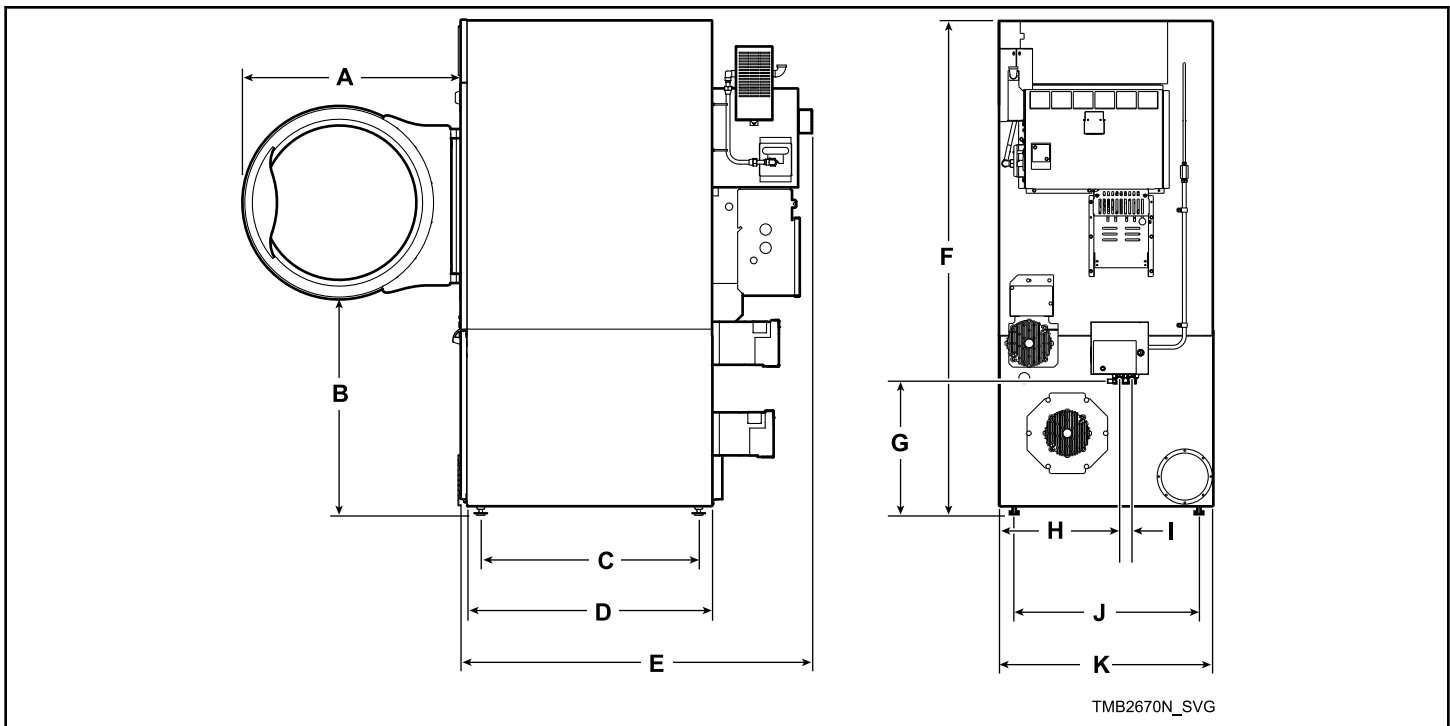
Table 2 *continues...*

Specifications	T30 Series	T45 Series
Steam Coil Rating at 100 psig (per pocket): BTU/hr. [kg/hr.] (recommended operating pressure 80-100 psig)	85,400 [40.4]	Not Applicable
Steam Coil Rating at 100 psig (total machine): BTU/hr. [kg/hr.] (recommended operating pressure 80-100 psig)	170,800 [80.8]	Not Applicable

Table 2

NOTE: All IEC machines are shipped with an adapter to convert the gas connection threads to BSPT (from NPT).

Cabinet Dimensions – 025, 030, 035 and 055 Series



Machine Dimensions, in. [mm]					
Models	A	B	C	D	E
025 Series	26.3 [670]	27.5 [700]	22.4 [570]	25.8 [655]	39.4 [1,000]
030 Series	26.3 [670]	27.5 [700]	28.4 [720]	31.8 [810]	45.5 [1,155]

Table 3 continues...

Machine Dimensions, in. [mm]					
Models	A	B	C	D	E
035 Series	28.0 [710]	27.5 [700]	28.4 [720]	31.8 [810]	45.5 [1,155]
055 Series	31.9 [810]	26.9 [680]	33.4 [850]	36.8 [935]	53.1 [1,350]

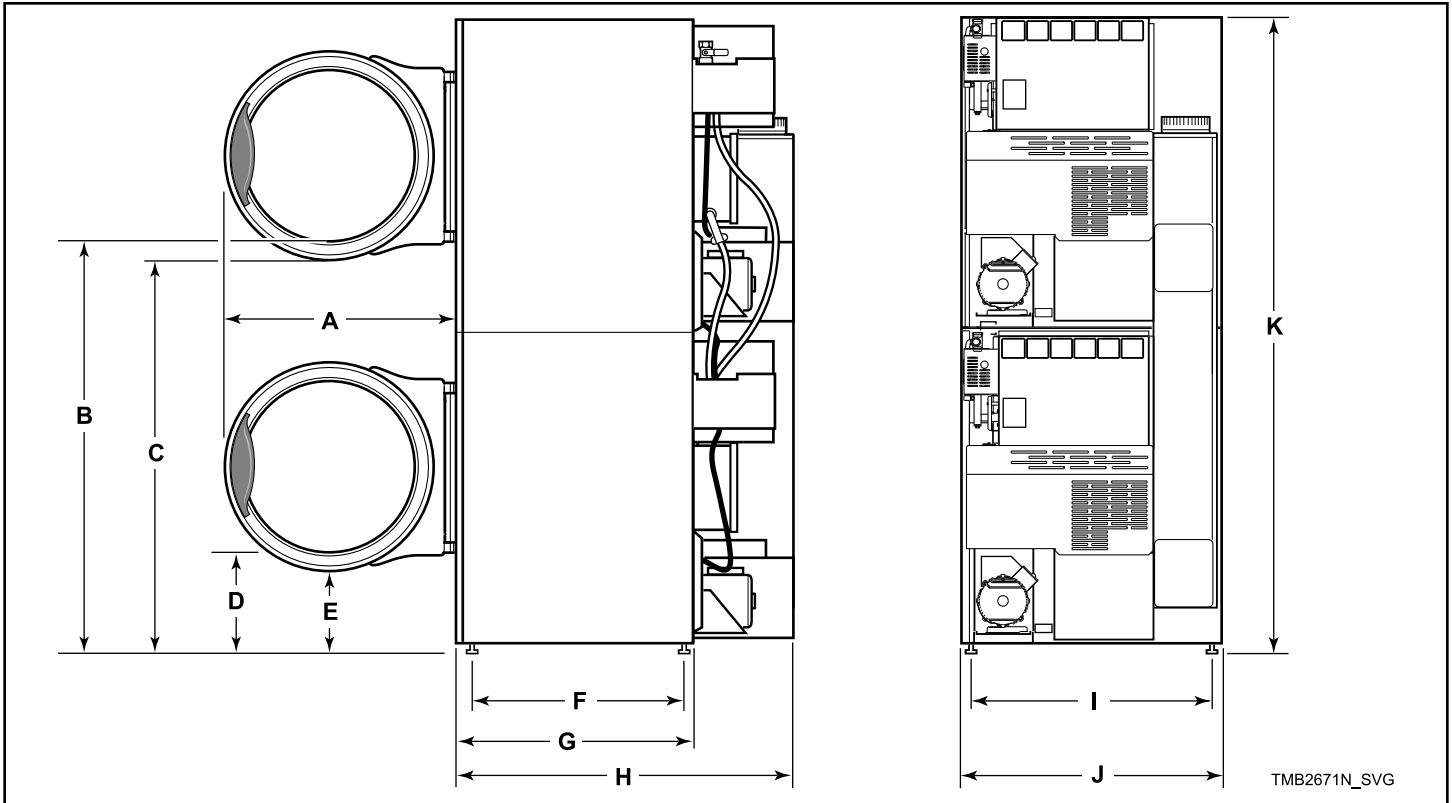
Table 3

Models	F	G*	H*	I*	J	K
025 Series	63.9 [1,625]	16.5 [420]	15.4 [390]	1.6 [40]	24.6 [625]	27.9 [710]
030 Series	63.9 [1,625]	16.5 [420]	15.4 [390]	1.6 [40]	24.6 [625]	27.9 [710]
035 Series	63.9 [1,625]	16.5 [420]	19.6 [500]	1.6 [40]	27.4 [695]	31.5 [800]
055 Series	66.7 [1,700]	17.75 [450]	18.7 [475]	1.6 [40]	30.5 [775]	34.5 [875]

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

NOTE: Facia panels available to increase height of models to 72.25 inches [1,840 mm] and 76.25 inches [1,940 mm].

Cabinet Dimensions – T30 and T45 Series



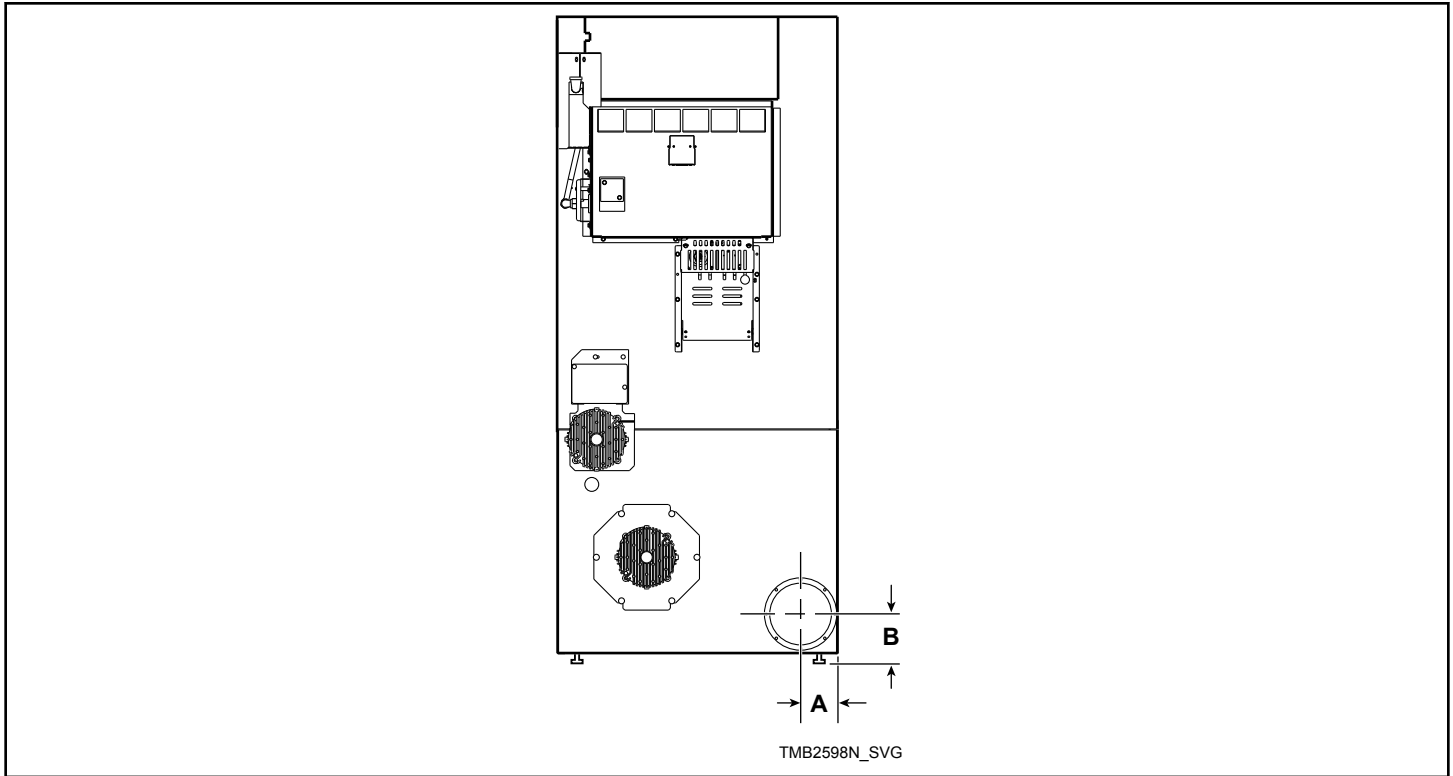
Machine Dimensions, in. [mm]					
Models	A	B	C	D	E
T30 Series	28.0 [710]	49.0 [1,245]	48.3 [1,225]	11.4 [290]	10.7 [270]
T45 Series	31.9 [810]	50.4 [1,280]	49.3 [1,250]	10.3 [260]	9.3 [235]

Table 4

Models	F	G	H	I	J	K
T30 Series	25.0 [635]	28.7 [730]	42.8 [1,090]	27.4 [695]	31.5 [800]	76.3 [1,940]
T45 Series	29.0 [735]	32.7 [830]	48.6 [1,235]	30.4 [770]	34.5 [875]	81.3 [2,065]

NOTE: To meet Americans with Disabilities Act (ADA) compliance, install a 4 inch [100 mm] riser on T30 models only.

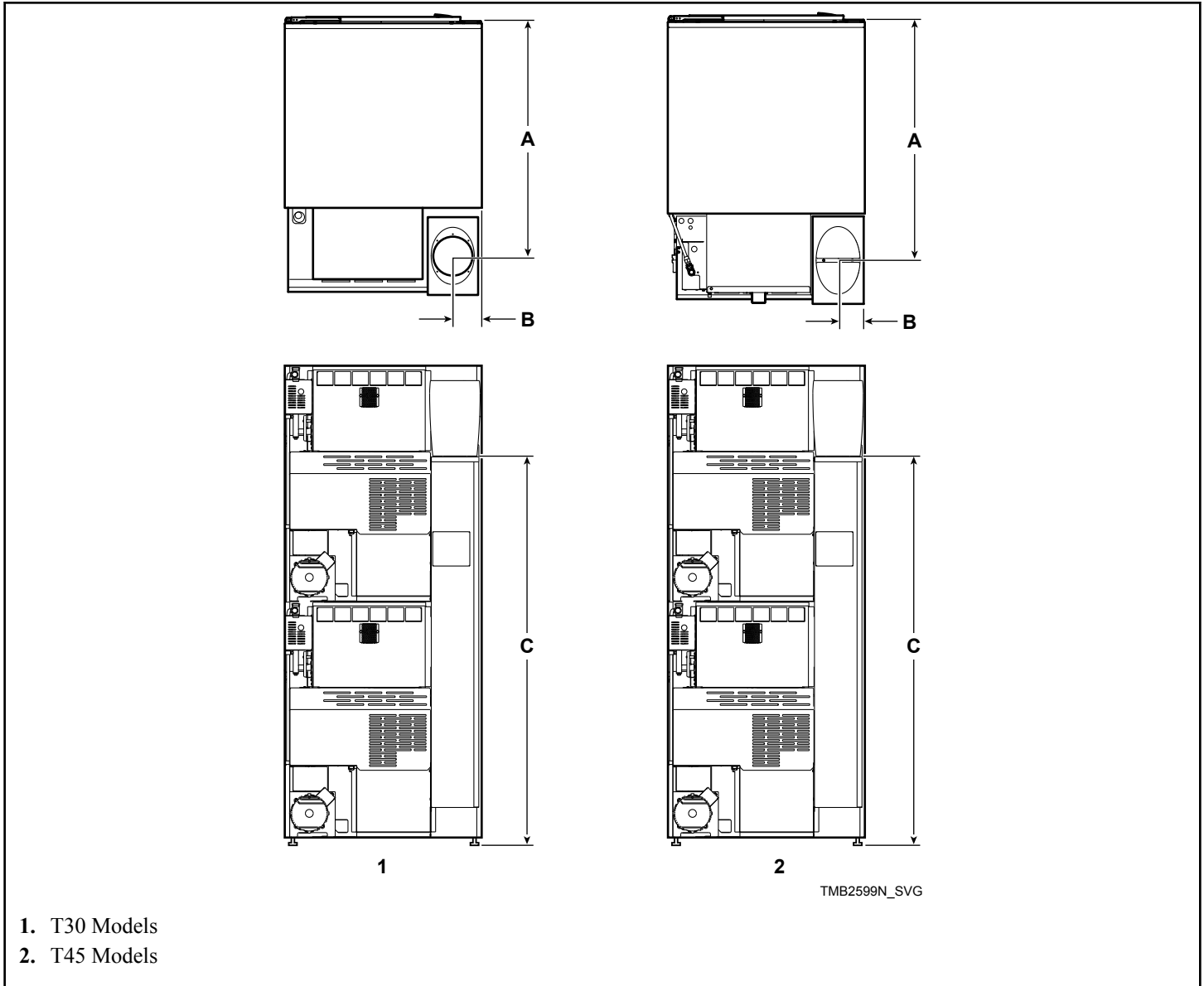
Exhaust Outlet Locations – 025, 030, 035 and 055 Series



Models	Rear Exhaust Dimensions, in. [mm]			
	Diameter			
		A	B	
025 Series	Standard Line	Eco Line	3.9 [100]	4.6 [115]
	6.0 [150]	4.0 [100]		
030 Series	Standard Line	Eco Line	3.9 [100]	4.6 [115]
	6.0 [150]	6.0 [150]		
035 Series	Standard Line	Eco Line	4.9 [125]	5.6 [145]
	8.0 [200]	6.0 [150]		
055 Series	Standard Line	Eco Line	4.9 [125]	5.6 [145]
	8.0 [200]	8.0 [200]		

Table 5

Exhaust Outlet Locations – T30 and T45 Series



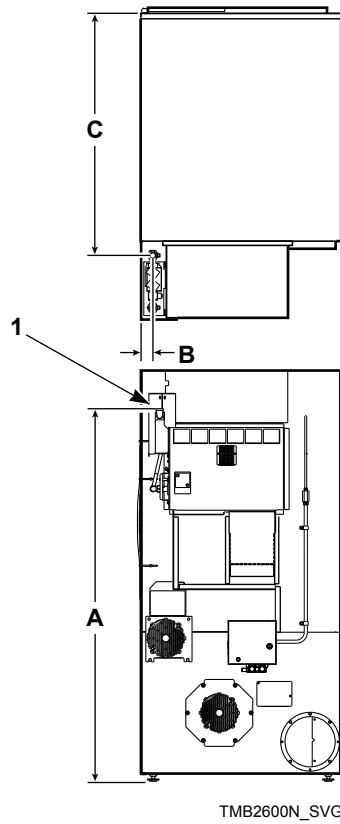
Models	Rear Exhaust Dimensions, in. [mm]				
	Diameter	A	B	C	
T30 Series	Standard Line Elliptical Fits 8.0 [200]	Eco Line Round Fits 6.0 [150]	36.5 [930]	4.3 [110]	62.4 [1,585]

Table 6 continues...

Models	Rear Exhaust Dimensions, in. [mm]				
	Diameter		A	B	C
T45 Series	Standard Line Elliptical Fits 10.0 [250]	Eco Line Elliptical Fits 10.0 [250]	40.9 [1,040]	4.8 [120]	66.0 [1,675]

Table 6

Gas Connection Locations – 025, 030, 035 and 055 Series

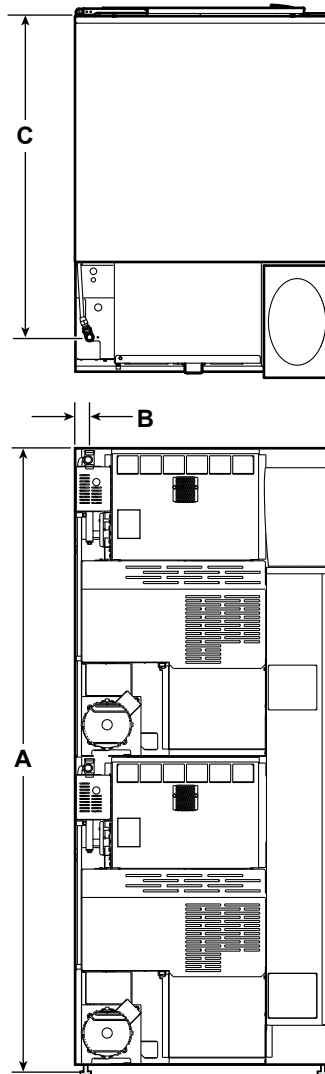


1. 1/2 NPT

Models	Gas Connection, in. [mm]		
	A	B	C
025 Series	58.0 [1,475]*	2.0 [50]	35.5 [900]
030 Series	58.0 [1,475]*	2.0 [50]	41.5 [1,055]
035 Series	58.0 [1,475]*	3.0 [75]	41.5 [1,055]
055 Series	55.0 [1,400]	1.6 [40]	49.0 [1,245]*
* IEC models add 0.5 [12]			

Table 7

Gas Connection Locations – T30 and T45 Series



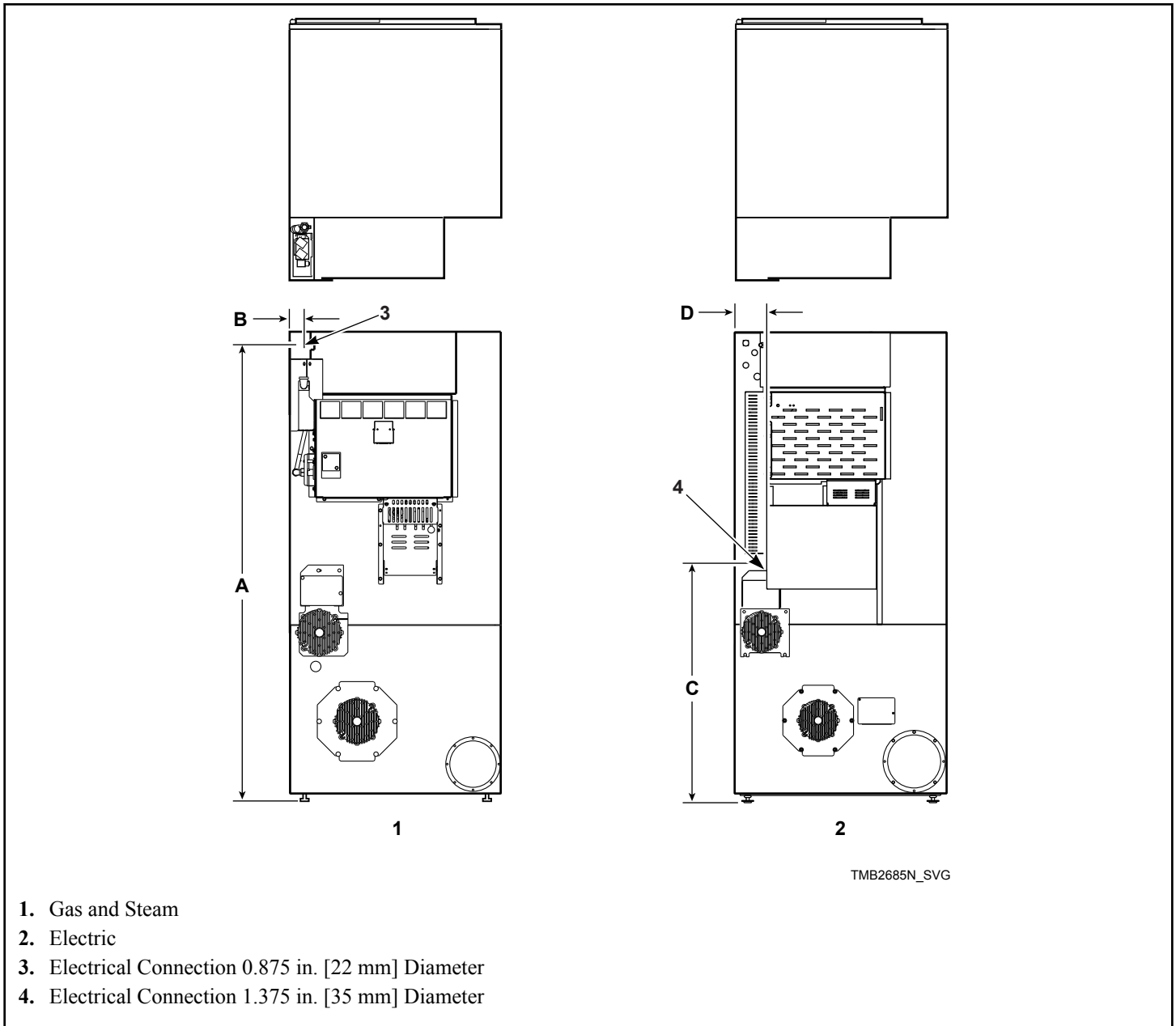
TMB2656N_SVG

1. 1/2 NPT

Models	Gas Connection, in. [mm]		
	A	B	C
T30 Series	75.5 [1,920]	1.7 [45]	36.8 [935]
T45 Series	79.0 [2,005]	4.1 [105]	42.9 [1,090]

Table 8

Electrical Connection Locations – 025, 030, 035 and 055 Series



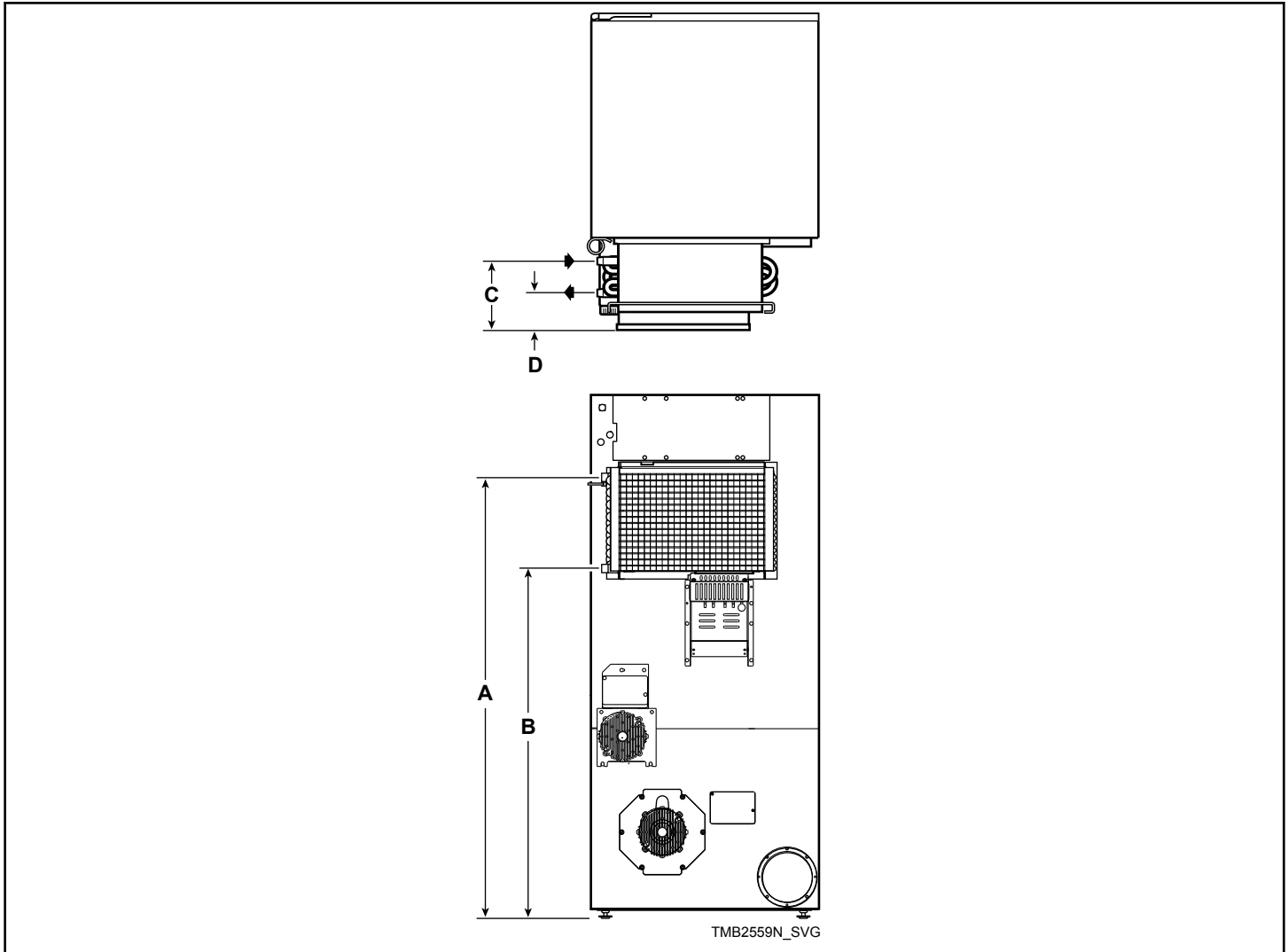
Models	Electrical Service Dimensions, in. [mm]			
	Gas and Steam Models		Electric Models	
	A	B	C	D
025/030 Series	62.3 [1,580]	1.4 [35]	29.6 [750]	3.3 [80]
035 Series	62.3 [1,580]	1.8 [45]	29.6 [750]	5.0 [130]

Table 9 continues...

Models	Electrical Service Dimensions, in. [mm]			
	Gas and Steam Models		Electric Models	
	A	B	C	D
055 Series	64.6 [1,640]	1.8 [45]	30.5 [775]	6.6 [170]

Table 9

Steam Connection Locations – 025, 030 and 035 Series

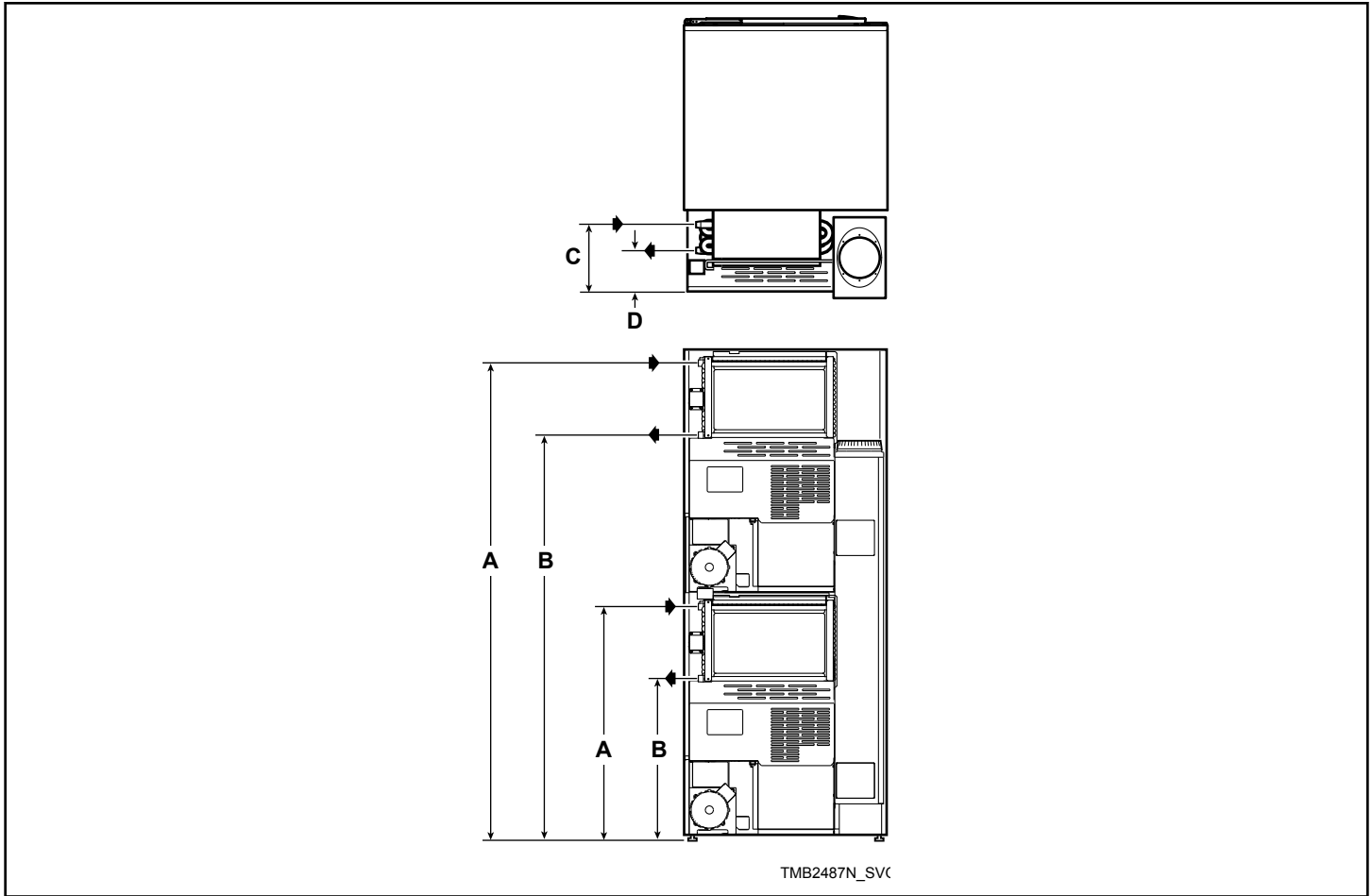


Models	Inlet Dimensions, in. [mm]		Outlet Dimensions, in. [mm]	
	A	C	B	D
025/030 Series	53.6 [1,360]	5.3 [135]	42.3 [1,075]	1.4 [35]
035 Series	53.6 [1,360]	5.3 [135]	42.3 [1,075]	1.4 [35]

Table 11

NOTE: All connections use 3/4 NPT pipe.

Steam Connection Locations – T30 Series



Models	Inlet Dimensions, in. [mm]		Outlet Dimensions, in. [mm]	
	A	C	B	D
T30 Series (Upper)	74.0 [1,880]	6.3 [160]	62.8 [1,595]	2.4 [60]
T30 Series (Lower)	36.4 [925]	10.1 [255]	25.5 [650]	6.2 [160]

Table 12

NOTE: All connections use 3/4 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: Remove the yellow shipping wire tie securing the airflow switch.

IMPORTANT: Warranty is void unless tumble dryer is installed according to instructions in this manual. Installation should comply with minimum specifications and requirements detailed in this manual and 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.

Materials Required (Obtain Locally)	
All Models	Fused disconnect switch or circuit breaker on 1 Phase models. Circuit breaker on 3 Phase models.
Gas Models	One gas shut-off valve for gas service line to each tumble dryer.

Table continues...

Materials Required (Obtain Locally)	
Steam Models	One steam shut-off valve for steam service line to be connected upstream of solenoid steam valve. Two steam shut-off valves for each condensate return line. Flexible steam hoses with a 125 psig [pounds per square inch gauge] [862 kPa] working pressure for connecting steam coils. Refer to <i>Figure 20</i> for sizing and connection configurations. Two steam traps for steam coil outlets to condensate return line. Optional – Two vacuum breakers for condensate return lines.

IMPORTANT: 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).

Location Requirements

The machine must be installed on a level floor. Floor covering materials such as carpeting or tile should be removed.

To assure compliance, consult local building code requirements. The machine must not be installed or stored in area where it will be exposed to water and/or weather.

IMPORTANT: DO NOT block the airflow at the rear of the machine with laundry or other articles. Doing so would prevent adequate air supply to the combustion chamber of the machine.

A typical machine enclosure is shown in *Figure 2*.

IMPORTANT: Install machines with sufficient clearance for servicing and operation, refer to *Figure 2*.

IMPORTANT: The machine must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the machine, in such a way that a full opening of the machine door is restricted.

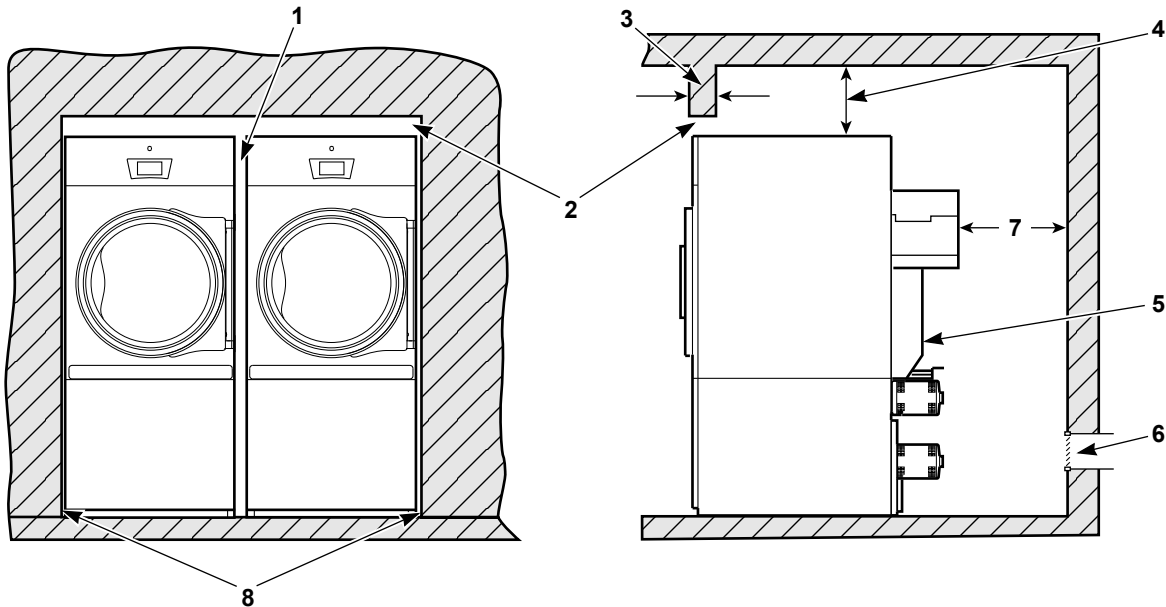


WARNING

To reduce the risk of severe injury, clearance of tumble dryer cabinet from combustible construction must conform to the minimum clearances, and/or local codes and ordinances.

W770R1

If rear of machine or water supply is located in an area where it will be exposed to cold/freezing temperatures, provisions must be made to protect these water lines from freezing.



TMB2672N_SVG

NOTE: Shaded areas indicate adjacent structure.

1. 0.0 in. [0 mm] minimum, 0.5 in. [13 mm] recommended between machines for removal or installation
2. Allow 2-4 in. [51-100 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. [100 mm] maximum header thickness
4. Minimum clearance permitted for remainder: 12 in. [300 mm]
5. Guard
6. Provision for make-up air
7. 24 in. [610 mm] minimum, 36 in. [910 mm] recommended for maintenance purposes
8. 0.0 in. [0 mm] minimum, 0.25 in. [6 mm] recommended for removal or installation purposes

Figure 2

Position and Level the Tumble Dryer

1. Remove lint panel door, and unscrew the four shipping bolts (one at each corner).
2. Remove tumble dryer from pallet.

NOTE: DO NOT discard shipping bolts, they are used as machine leveling legs.

3. Remove four nuts from the literature package, and screw one fully on to each leveling leg.
4. Screw the four leveling legs (bolts) back into the level adjusting fittings from the bottom.

5. Slide tumble dryer to its permanent location. Adjust the leveling legs until the unit is level, or no more than 0.13 inch [3.3 mm] higher in the front. Refer to *Figure 3*. Tumble dryer must not rock. Lock leveling legs with nuts previously installed.

NOTE: The front of the tumble dryer should be slightly higher than the rear (approximately 0.13 inch [3.3 mm]). This will prevent the clothes, while tumbling, from wearing on the door glass gasket.

IMPORTANT: Keep tumble dryer as close to floor as possible. The unit must rest firmly on floor so weight of tumble dryer is evenly distributed.

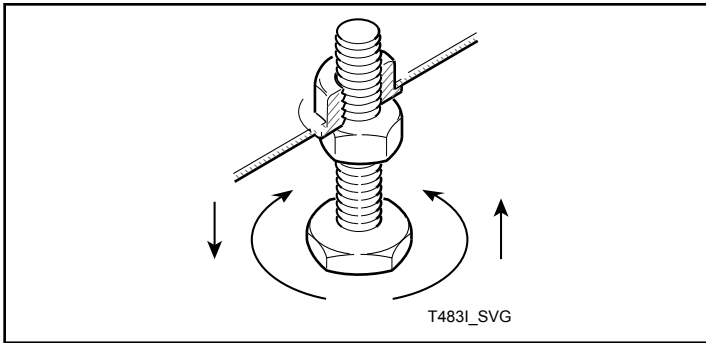


Figure 3

Fire Suppression System (Optional Equipment)



WARNING

ELECTRICAL SHOCK HAZARD. Electrical shock can result in death or serious injury. If the water dispensing system is activated, do not attempt to operate the tumble dryer. If the water dispensing system is activated, have the tumble dryer inspected by a qualified agency before operating the tumble dryer.

W879R1

IMPORTANT: Main supplies of electricity and water to the tumble dryer should remain on at all times for the fire suppression system to work.

Check Local Codes and Permits

Call your local water company or the proper municipal authority for information regarding local codes.

IMPORTANT: It is your responsibility to have **ALL** plumbing connections made by a qualified professional to assure that the plumbing is adequate and conforms to local, state, and federal regulations or codes.

IMPORTANT: It is the installation or owner's responsibility to confirm that the necessary or required water, water pressure, pipe size, or connections are provided. Manufacturer assumes no responsibility if the fire suppression system is not connected, installed, or maintained properly.

Water Requirements

IMPORTANT: Water must be supplied to the fire suppression system, or the fire suppression system will not operate as intended.

To ensure the fire suppression system operates properly:

- Water supply requirements: 3/4 inch hose connections providing 15 gpm [57 lpm] minimum flow; Water pressure 20 psi [138 kPa] minimum, 120 psi [827 kPa] maximum; water temperature 40°F [4.5°C] minimum, 120°F [49°C] maximum must be maintained at all times.
- Electric power to the tumble dryer must be provided at all times.
- Perform preventative maintenance checks every month. Refer to Operation/Maintenance Manual.

NOTE: Water pressure under 20 psi [138 kPa] will cause low flow at water solenoid valve.

If the rear of the tumble dryer or the water supply is located in an area where it will be exposed to cold/freezing temperatures, provisions must be made to protect these water lines from freezing.

Fifth Leveling Leg

The stacked tumble dryer has a fifth leveling leg which is shipped in the up position. The fifth leveling leg **MUST BE** installed properly on the lower left side of the blower housing to stabilize the tumble dryer. Refer to *Figure 4*.

After leveling with the four cabinet leveling legs, lower the fifth leveling leg so it contacts the floor, and then secure the screws.

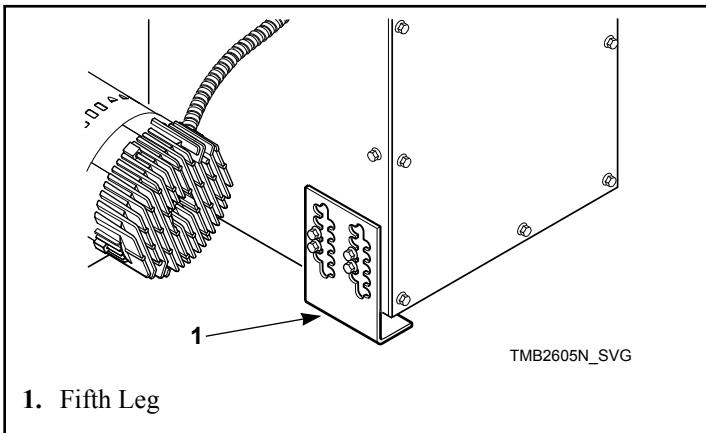
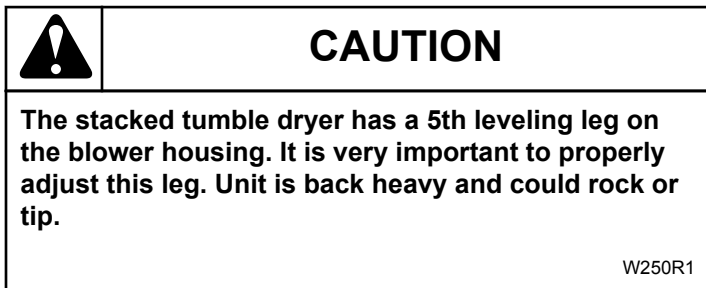


Figure 4

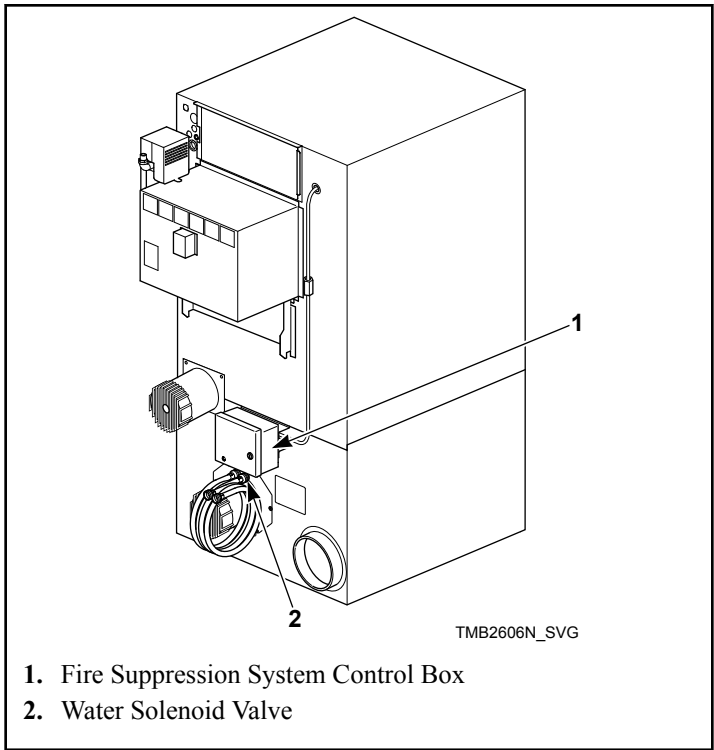
IMPORTANT: Temperature of the water supply must be kept between 40°F and 120°F [4.5°C and 49°C]. If water in the supply line or water solenoid valve freezes, the fire suppression system will not operate.

IMPORTANT: If temperature sensors inside the tumble dryer register a temperature below 40°F [4.5°C], the fire suppression system control will lock out. This feature protects against operation of the tumble dryer with a possible frozen water supply. Only when the temperature sensors register a temperature 40°F [4.5°C] or above will the machine reset for operation.

For installations where the tumble dryer must operate below 40°F [4.5°C], a cold weather fire suppression system relocation kit (part no. 44340301) is available. Refer to the instructions provided in the kit for proper installation.

IMPORTANT: Flexible supply line/coupling must be used. Solenoid valve failure due to hard plumbing connections will void the warranty. It is recommended that a filter or strainer be installed in the water supply line.

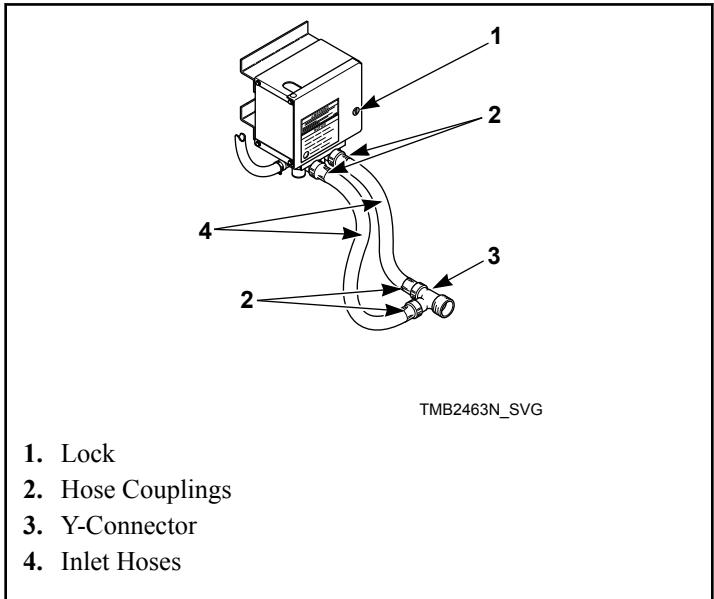
Water Connections



1. Fire Suppression System Control Box
2. Water Solenoid Valve

Figure 5

To connect the two hoses (supplied with tumble dryer), insert rubber washers (from literature pack) in water inlet hose couplings. Refer to *Figure 6* .



1. Lock
2. Hose Couplings
3. Y-Connector
4. Inlet Hoses

Figure 6

Connect inlet hoses to water supply. Flush the lines for approximately two minutes to remove any foreign materials that could clog the screens in the water mixing valve. This is especially important when installing a tumble dryer in a newly constructed or renovated building. Then connect the hoses to the Y-connector;

	WARNING
<p>Electrical shock hazard. Can cause death or serious injury. If the water dispensing system is activated do not attempt to operate the dryer. If the water dispensing system is activated have the dryer inspected by a qualified agency before operating the dryer.</p> <ul style="list-style-type: none"> • CALL THE FIRE DEPARTMENT. • DO NOT disconnect electric power to the dryer. • DO NOT disconnect water to the dryer. • DO NOT touch the dryer. 	
W932	

Connect tumble dryer to a backflow preventer (vacuum breaker) before connecting to the public water main in all countries where local regulations require specific water approval certificates.

Two hoses and a Y-connector are provided with the tumble dryer to allow for connection of water supply to tumble dryer. DO NOT reuse old hose sets. The water connections are made to the water solenoid valve, located on the rear of the tumble dryer. The Y-connector provides a single female hose connection (Standard US 3/4-11 1/2 NH thread). Refer to *Figure 5* and *Figure 6* .

connect the Y-connector to the connections at the rear of the tumble dryer.

IMPORTANT: Thread hose couplings onto valve connections finger tight, then turn 1/4 turn with pliers. Do not cross thread or overtighten couplings.

IMPORTANT: Hoses and other natural rubber parts deteriorate after extended use. Hoses may develop cracks, blisters or material wear from the temperature and constant high pressure they are subjected to. All hoses should be checked on a yearly basis for any visible signs of deterioration. Any hose showing the signs of deterioration listed above should be replaced immediately. All hoses should be replaced every five years.

NOTE: Longer inlet hoses are available (as optional equipment at extra cost) if the hoses supplied with the tumble dryer are not long enough for installation. Order hoses as follows:

Part No. 20617 Inlet hose 8.0 feet [2.4 m]

Part No. 20618 Inlet hose 10 feet [3.0 m]

Electrical Requirements

	WARNING
<p>Electrical power must be provided to tumble dryer at all times. The fire suppression system will be inoperative if the main electrical power supply is disconnected.</p>	
W690R1	

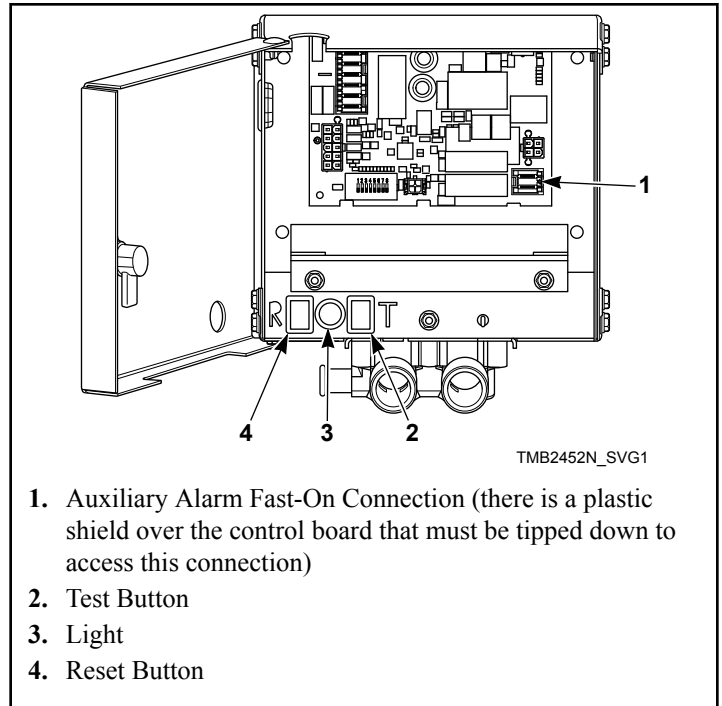
No independent external power source or supply connection is necessary. Power to operate the fire suppression system is from the tumble dryer main power supply.

Auxiliary Alarm

The fire suppression system provides an auxiliary output contact when the system is activated. During tumble dryer installation, you have the option to connect a separate alarm system to this auxiliary output. Potential uses of the auxiliary output include, but are not limited to: (1) sounds an alarm, (2) activates a building sprinkler system, (3) notifies a fire department, etc. Use of the auxiliary output is not required for the fire suppression system to operate, but may be used for additional protection.

The connection to the auxiliary output is made through the H-4 header connection inside the fire suppression control box. Refer to *Figure 7*. The relay is rated for 5 Amp, 250VAC max.

NOTE: The auxiliary output is activated during fire suppression system maintenance test sequence. Consider this fact prior to your system test every month. (Example: If the external system uses the auxiliary output to call the fire department, inform the fire department before and after the fire suppression system maintenance test. If the external system uses the auxiliary output to activate a building sprinkler, disconnect auxiliary output prior to test.)

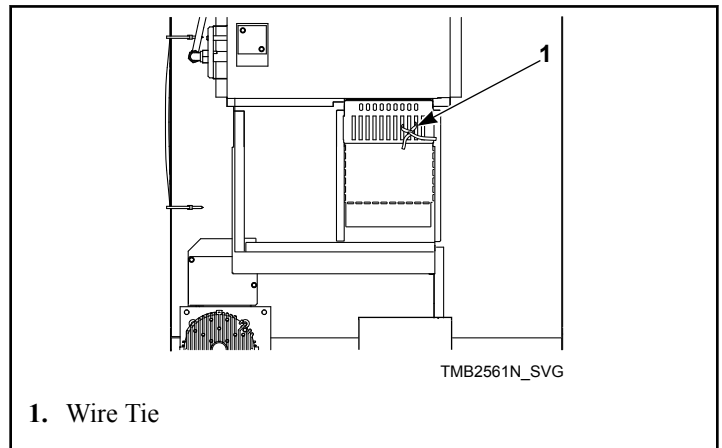


1. Auxiliary Alarm Fast-On Connection (there is a plastic shield over the control board that must be tipped down to access this connection)
2. Test Button
3. Light
4. Reset Button

Figure 7

Before Placing Tumble Dryer into Service

1. Ensure all panels and guards are in place.
2. Remove and discard wire tie from the airflow switch so it can swing freely. Refer to *Figure 8*.



1. Wire Tie

Figure 8


3. Pull out emergency stop button, if applicable.
4. Turn on electrical supply.
5. Open the supply valve for gas heated machines.
6. After performing the previous checks, start the machine by pressing START. (Refer to the Operating section for detailed instructions.) Open the loading door. The cylinder should stop rotating within seven seconds after the door is opened a maximum of 0.79 inches [20 mm]. If it does not, adjust the loading door switch. Refer to Adjustments section.
7. **Gas Models:** Start the machine and check the burner flame. Adjust the air inlet shutter as required. Refer to Adjustments section.

IMPORTANT: The electronic ignition system will attempt to light the gas by sparking for the “trial for ignition” period. If gas does not ignite within this period, the ignition control will go into a safety lock-out and the valve will no longer open until the control is reset. On IEC models the electronic ignition system must be manually reset. The control will pause the cycle and indicate that the ignition control needs to be reset. To reset the ignition control, press start key on the control while the access panel is open. The control will then prompt for the start key to be pressed again to restart the cycle. On all models, ignition lockout may occur due to air in the gas line or the gas shut-off valve being in the OFF position. If the air is bled out of the gas line, the gas shut-off valve is in the ON position, the gas service is properly connected and the machine continues to have heater errors and/or prompts for the ignition control to be reset, remove the machine from service.

8. Load the cylinder with a full load of clean rags and run to remove oil or dirt from cylinder.
9. Check the airflow switch operation by opening the lint panel; be sure to remove shipping wire tie from airflow switch prior to operation. Temporarily tape down the lint panel safety switch located behind the upper left corner of the lint panel. The heating systems should shut off when the lint panel is opened a maximum of 1.5 inches [38 mm] .

The airflow switch operation may be affected by shipping wire tie still in place, lack of make-up air, or an obstruction in the exhaust duct. These should be checked. If there is a problem, contact an authorized service person.

IMPORTANT: Remove tape from the lint panel safety switch before proceeding to the next step.

	WARNING
<p>Do not operate tumble dryer if airflow switch is faulty. An explosive gas mixture could collect in tumble dryer if airflow switch does not operate properly.</p>	
W407R1	

10. Clean cylinder by running a load of wet rags on one maximum heat cycle.

Models	Prepurge Time (seconds)	Interpurge Time (seconds)	Trial for Ignition (seconds)	Reset Lockout Condition By:
IEC	23	23	10	Press start key with access panel open.

If the machine does not meet ANY of the listed requirements, remove machine from use. Refer to *Removing Machine from Service* section.


Required for IEC Models Only


Once machine is installed, please be sure to complete the following items:


- Review and verify machine operation with customer.
- Leave all literature and a signed Declaration of Conformity with customer.
- Review machine warranty information with customer.
- Apply cautionary stickers in language appropriate to country of sale. Market language label kits have been provided in the literature packet located in the cylinder. Position appropriate market language labels on the machine in the following regions prior to placing machine into service, if applicable:
 - On front panel at the periphery of cylinder access opening
 - On electrical box cover(s) (electric heat models and stack tumble dryers have two electrical box covers)
 - On rear panel (single dryers) or exhaust duct (stack dryers)
 - On front panel near emergency stop button (fire suppression system equipped models only)
 - On fire suppression control box (fire suppression system equipped models only)

Exhaust Requirements

Exhaust Requirements

	CAUTION
<p>Risk of fire. A clothes dryer produces combustible lint. Exhaust outdoors. Consult technical instructions for detailed exhaust specifications.</p>	
W933	

	WARNING
<p>To reduce the risk of fire, DO NOT use plastic or thin foil ducting to exhaust the tumble dryer.</p>	
W773R1	

	WARNING
<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>	
W059R1	

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. Construction must not block the airflow at the rear of the tumble dryer. Doing so would prevent adequate air supply to the tumble dryer combustion chamber.

Make-Up Air

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


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

Required Make-Up Air Opening (to the outside) for Each Tumble Dryer, in.² [cm²]	
Model	Opening
Standard 025/030 Series	110 [710]
Eco 025 Series	65 [420]
Standard 035/055 Series	144 [930]
Eco 035 Series	120 [775]
Standard T30 Series	220 [1,420]
Eco T30 Series	180 [1,160]
T45 Series	288 [1,860]

Make-up air openings with louvers will restrict airflow. The opening must be increased to compensate for area taken up and restrictions created by louvers. Contact the louver manufacturer for the exact specifications.

Make-up air openings in rooms 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 tumble dryer(s), increase area of duct work by 25% to compensate for restrictions 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>	
W749	

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 codes.

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>	
W355	

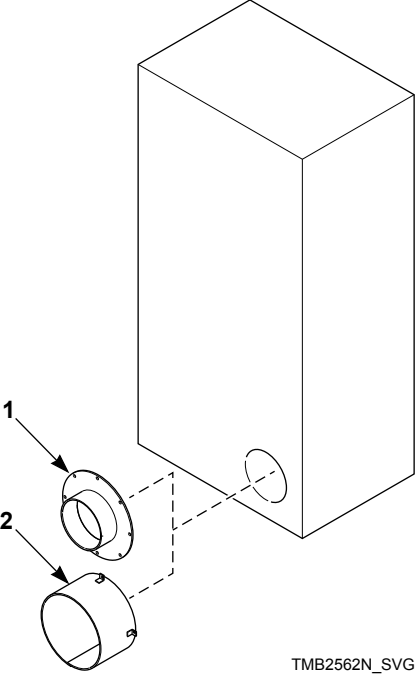
NOTE: Exhaust ducts must be constructed of sheet metal or other noncombustible material. Such ducts must be equivalent in strength and corrosion resistance to ducts made of galvanized sheet steel not less than 0.02 inches [0.50 mm] thick.

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 10*.

IMPORTANT: For best performance provide an individual exhaust duct for each tumble dryer. Do not install a gas 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.

NOTE: Proper venting will ensure that any condensate is subsequently re-evaporated and discharged.

NOTE: On IEC approved tumble dryers where it may be required, an exhaust adapter is available to convert to female outlet. Contact local distributor or manufacturer.



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1. 25, 30, 35, 55 Models
2. Not Applicable

Figure 9

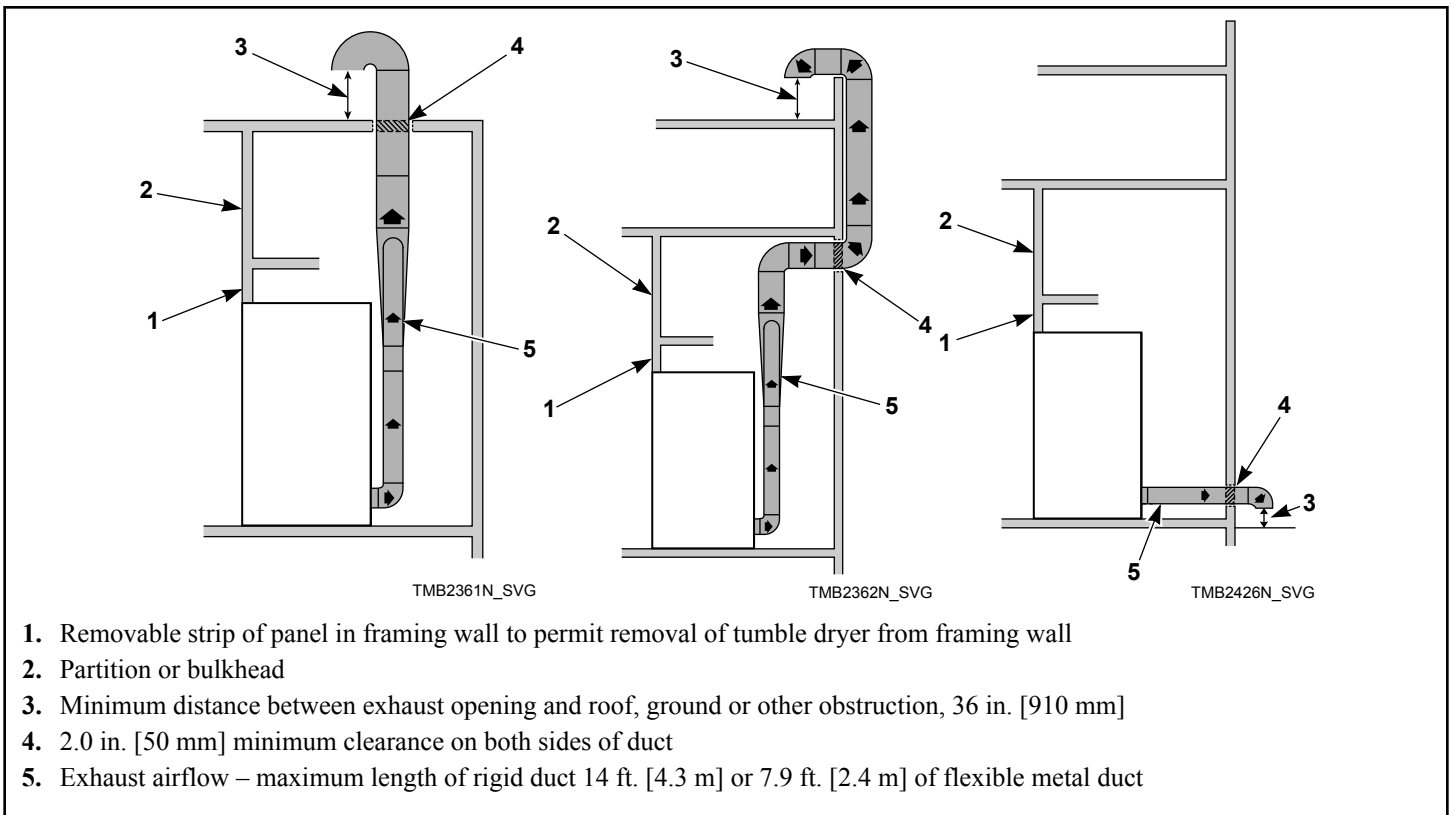


Figure 10

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.

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 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 13* to determine equivalent venting.

Duct Diameter	Equivalent Length of Rigid Straight Duct
8 in. [203 mm]	One 90° elbow = 9.3 ft. [2.8 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]

Table 13 continues...

Duct Diameter	Equivalent Length of Rigid Straight Duct
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 (meter) = 1.17 x Duct Diameter (mm)	

Table 13

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

Equivalent Length

= 14 ft. [4.3 m] + (2) 90° elbows

= 14 ft. [4.3 m] + 14 ft. [4.3 m] + 14 ft. [4.3 m]

= 42 ft. [12.8 m]

With the tumble dryer in operation, airflow at any point in the duct should be at least 1200 feet/min. [366 m/min.] to ensure that lint remains airborne. If 1200 feet/min. [366 m/min.] cannot be maintained, schedule monthly inspections and cleaning of the ductwork.

NOTE: The maximum length of a flexible metal duct must not exceed 7.9 ft. [2.4 m] as required to meet UL2158, clause 7.3.2A.

Manifold Venting

IMPORTANT: Do not exhaust tumble dryers into a flue used by other appliances.

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 12* and *Figure 13* . This illustration indicates mini-

imum diameters, and should be increased if the collector length exceeds 14 feet [4.3 m] and two 90° elbows. The diameter of a round duct must be increased by 10% for each additional 20 feet [6.1 m]. Cross sectional area of a rectangular or square duct must be increased 20% for each additional 20 feet [6.1 m]. Refer to *Table 14* 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 11* . 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/min. [366 m/min.] to ensure that lint remains airborne. If 1200 feet/min. [366 m/min.] cannot be maintained, schedule monthly inspections and cleaning of the ductwork.

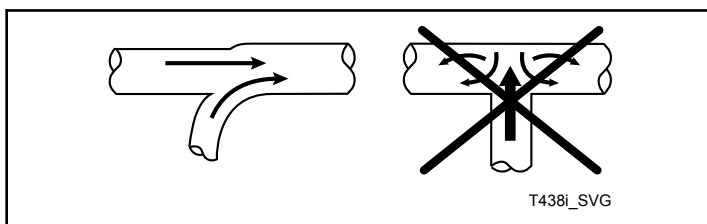


Figure 11

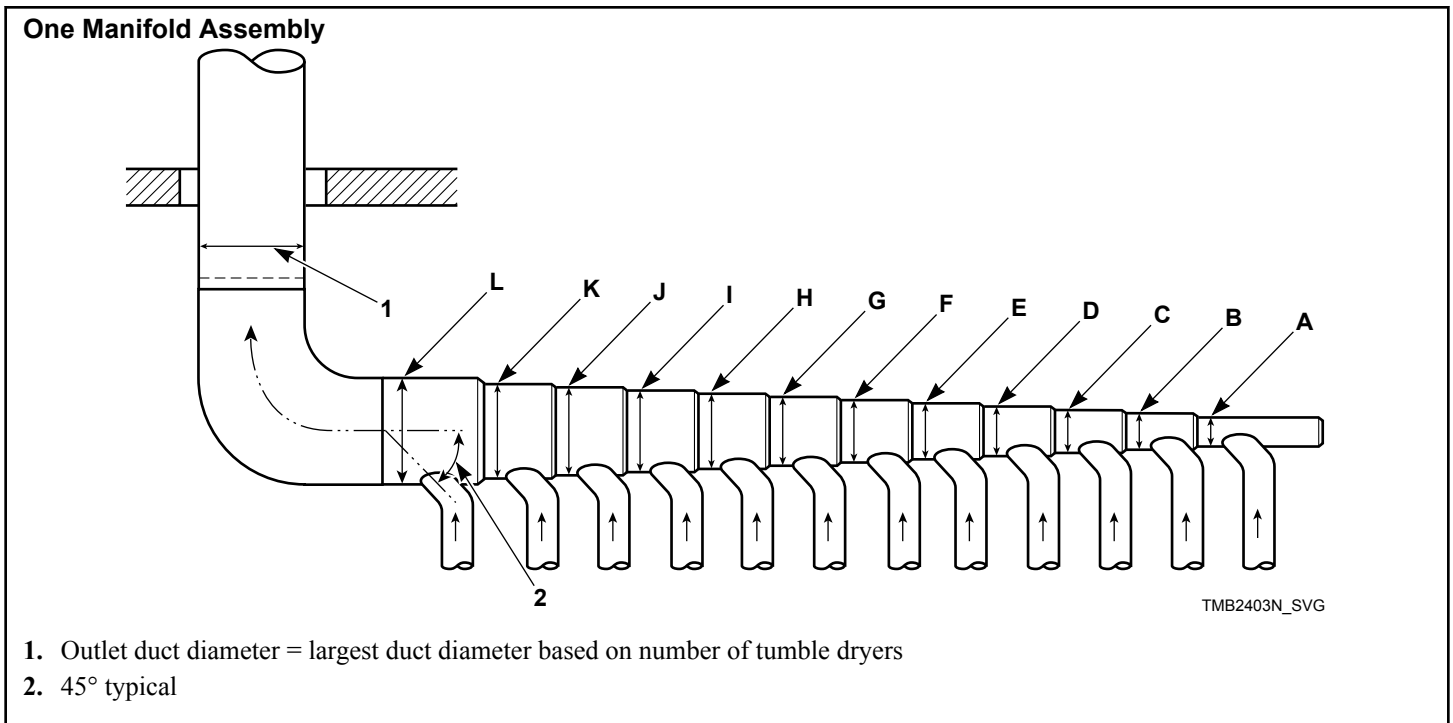


Figure 12

Duct Station	Eco Line 025	Standard Line 025, Eco T30 and all 030 Series	035, 055 and Standard T30 Series	T45 Series
A	4 in. [102 mm]	6 in. [152 mm]	8 in. [203 mm]	10 in. [254 mm]
B	6 in. [152 mm]	10 in. [254 mm]	12 in. [305 mm]	15 in. [381 mm]
C	8 in. [203 mm]	12 in. [305 mm]	15 in. [381 mm]	18 in. [457 mm]
D	10 in. [254 mm]	14 in. [356 mm]	17 in. [432 mm]	21 in. [533 mm]
E	12 in. [305 mm]	16 in. [406 mm]	19 in. [483 mm]	24 in. [610 mm]
F	12 in. [305 mm]	18 in. [457 mm]	21 in. [533 mm]	26 in. [660 mm]
G	14 in. [356 mm]	19 in. [483 mm]	23 in. [584 mm]	28 in. [711 mm]
H	14 in. [356 mm]	20 in. [508 mm]	24 in. [610 mm]	30 in. [762 mm]
I	15 in. [381 mm]	22 in. [559 mm]	26 in. [660 mm]	32 in. [813 mm]
J	16 in. [406 mm]	23 in. [584 mm]	27 in. [686 mm]	33 in. [838 mm]
K	17 in. [432 mm]	24 in. [610 mm]	28 in. [711 mm]	35 in. [889 mm]
L	18 in. [457 mm]	25 in. [635 mm]	30 in. [762 mm]	36 in. [914 mm]

Table 14

NOTE: *Table 14* represents tumble dryers with the same vent size. If multiple vent sizes are used, consult a local HVAC specialist.

NOTE: Duct clean-out recommended every 6 feet [0.18 m].

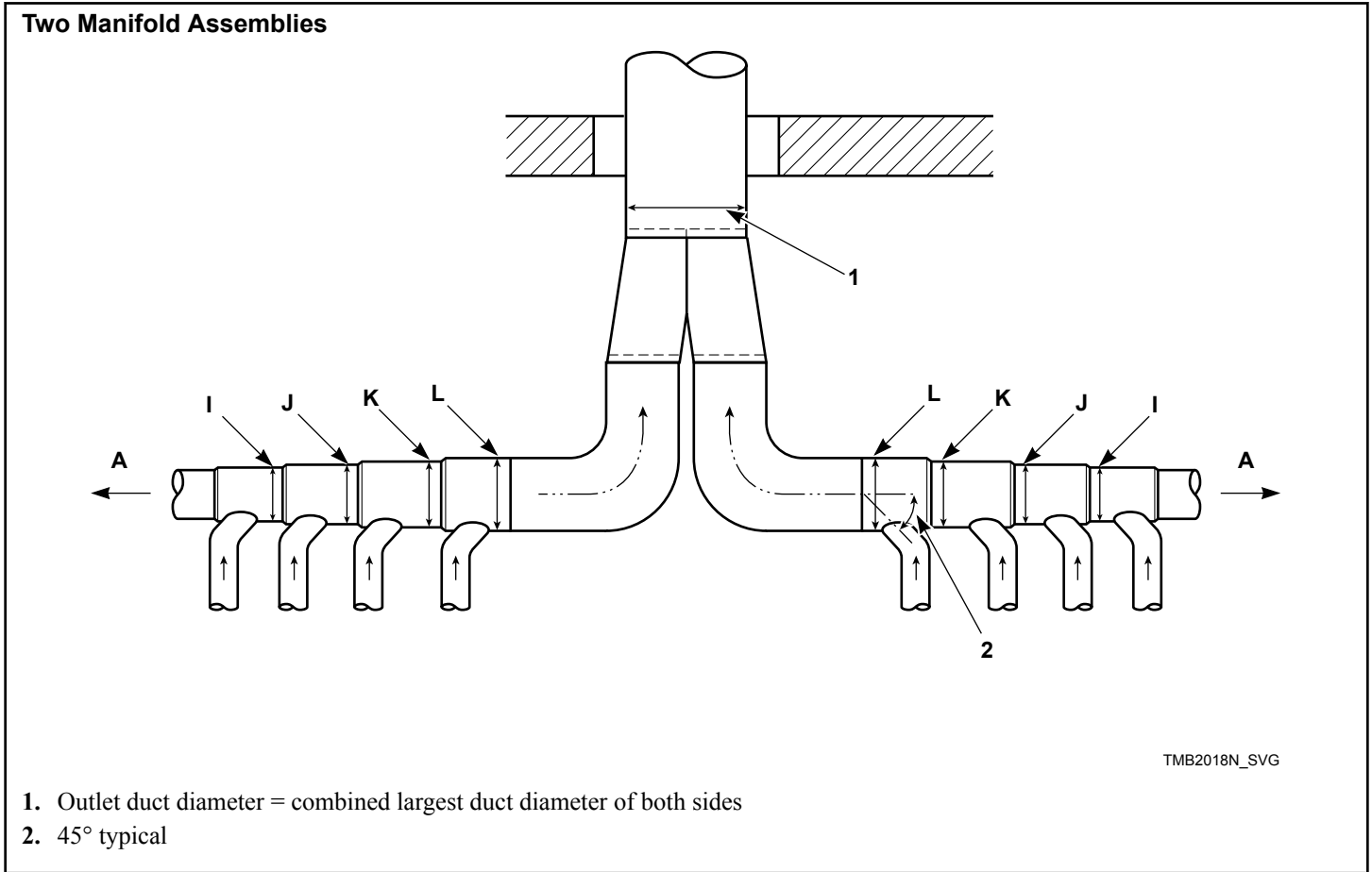




Figure 13


Refer to *Table 14* for measurements for each manifold.

Gas Requirements

Gas Requirements

	CAUTION
<ul style="list-style-type: none"> • Thoroughly test all piping for leaks before operating. All fittings and piping must be tight and supported against breakage and vibration. • Turn off primary gas line shut off cock when not in use (overnight, weekends, holidays, etc.). 	
W934	

	WARNING
<p>To reduce the risk of fire or explosion, DO NOT CONNECT THE GAS LINE TO THE TUMBLE DRYER IF THE GAS SERVICE IS NOT THE SAME AS THAT SPECIFIED ON THE TUMBLE DRYER SERIAL PLATE! It will first be necessary to convert the gas burner orifice and gas valve. Appropriate conversion kits are available.</p>	
W060R1	

	WARNING
<p>To reduce the risk of gas leaks, fire or explosion, use a new flexible stainless steel connector.</p>	
W774	

IMPORTANT: Any product revisions or conversions must be made by the Manufacturer's Authorized Dealers, Distributors or local service personnel.

IMPORTANT: The tumble dryer must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system. Gas supply pressure must never exceed 1/2 PSI [3.45 kPa, 34.5 mbar] during leak testing. Gas supply must provide 6.5+/-1.5 inches [1.62+/-0.37 kPa, 16.17+/-3.73 mbar] with all gas appliances firing.

NOTE: For gas valves with a manual shut-off switch on the gas valve, the shut-off switch does not protect the valve from this pressure test. Use the individual manual shut-off valve from the gas supply piping system to protect the gas valve.

IMPORTANT: The installation must comply with local codes or, in the absence of local codes:

- with the latest edition of the "National Fuel Gas Code," ANSI Z223.1/NFPA 54 in the U.S.A.
- with CAN/CSA-B149.1 Natural Gas and Propane Installation Code in Canada
- In Australia and New Zealand, installation must comply with the Gas Installations Standard AS/NZS 5601 Part 1: General Installations.
- In the EU, installation must comply with the installation regulations of the country of destination.


IMPORTANT: For Australian models, do not remove the gas type label on the rear of the unit.

Obtain specific gas service pipe size from the gas supplier. Refer to *Table 16* and *Table 17* for general pipe size.

The following must be furnished and installed by the customer for the gas service line to each tumble dryer. Refer to *Figure 14*.

- Sediment traps
- Shut-off valves
- Supply pressure taps (1/8 NPT minimum) (refer to *Figure 14*)
- Union at gas supply connection (listed to ANSI Z21.24 and CSA 6.10)

It is important that equal pressure be maintained at all tumble dryer gas connections. This can be done by installing a 1 inch pipe gas loop to maintain equal pressure at all gas connections. Refer to *Figure 18*.

	WARNING
<p>To reduce the risk of fire or explosion, if the tumble dryer is to be connected to Liquefied Petroleum (L.P.) gas, a vent to the outdoors must be provided in the room where the tumble dryer is installed.</p>	
W062R1	

Before installation, check that the local distribution conditions, nature of gas and pressure, and the adjustment of the appliance are compatible.

NATURAL GAS supply pressures with all gas appliances running (tumble dryers, water heaters, space heaters, furnace, etc.):

	North America Models	Australia Models	CE Models
Maximum	10.5 in. w.c.	2.61 kPa	Refer to <i>Table 15</i>
Recommended	6.5 in. w.c.	1.62 kPa	
Minimum	5 in. w.c.	1.13 kPa	

An in-line pressure regulator may be required if the line pressure exceeds 10.5 water column inches [26.1 mbar, 2.61 kPa] with all gas appliances running.

PROPANE/LIQUID PETROLEUM GAS (L.P.G.) supply pressures with all gas appliances running (tumble dryers, water heaters, space heaters, furnace, etc.):

	North America Models	Australia Models	CE Models
Maximum	13 in. w.c.	3.23 kPa	Refer to <i>Table 15</i>
Recommended	11 in. w.c.	2.74 kPa	
Minimum	10 in. w.c.	2.49 kPa	

Gas Category	Country	Gas	Category	Supply Pressure (mbar)			Manifold Pressure (mbar)
				nominal	minimum	maximum	
II _{2H3B/P}	BG, CY, CZ, DK, EE, FI, HR, LT, NO, SE, SI SK	G20	2H	20	17	25	8.0
		G30/31	3B/P (30)	30 (28-30)	25	35	*
II _{2H3B/P}	HU	G20	2H	25	18	33	8.0
		G30/31	3B/P	50	42.5	57.5	27.5
II _{2H3B/P}	AT, CH	G20	2H	20	17	25	8.0
		G30/31	3B/P	50	42.5	57.5	27.5
II _{2H3+}	CH, ES, GB, GR, IE, IT, TR	G20	2H	20	17	25	8.0
		G30	3+ (28-30/37) Butane	30 (28-30)	25	35	*
		G31	3+ (28-30/37) Propane	37	25	45	*
II _{2E3B/P}	PL	G20	2E	20	17	25	8.0
		G30	3B/P	30 (28-30)	25	35	*
II _{2E3B/P}	LU	G20	2E	20	17	25	8.0
		G30/31	3B/P	50	42.5	57.5	27.5
II _{2E3B/P} II _{2E(LL)3B/P}	DE	G20	2E(LL)/2E	20	17	25	8.0
		G25	2E(LL)	20	17	25	12.0
		G30/31	3B/P	50	42.5	57.5	27.5
II _{2E(r)3+}	FR	G20	2E(r)	20	17	25	8.0
		G25	2E(r)	20	17	25	12.0
		G30	3+ (30/37) Butane	30 (28-30)	25	35	*
		G31	3+ (30/37) Propane	37	25	45	*
II _{2L3B/P}	NL	G25	2L	25	20	30	12.0
		G30	3B/P	30 (28-30)	25	35	*

Table 15 continues...

Gas Category	Country	Gas	Category	Supply Pressure (mbar)			Manifold Pressure (mbar)
				nominal	minimum	maximum	
II _{2L3B/P}	RO	G25	2L	20	17	25	12.0
		G30	3B/P	30 (28-30)	25	35	*
I _{3B/P}	IS, MT	G30	3B/P	30 (28-30)	25	35	*
I _{2E(R)}	BE	G20	2E(R) 20/25	20	17	25	8.0
		G25	2E(R) 20/25	20	17	25	12.0
I ₃₊	BE	G30	3+ (28-30/37) Butane	30 (28-30)	25	35	*
		G31	3+ (28-30/37) Propane	37	25	45	*
* Appliance regulator out of action							

Table 15

Check manifold pressure. It is important that gas be supplied to the tumble dryer in accordance with the requirements on the serial plate. Refer to table below and *Figure 1*. If the manifold pressure required adjustment, refer to *How to Adjust Gas Valve Governor/Regulator*.

	North America Models	Australia Models	CE Models
Natural Gas	3.5 in. w.c.	0.87 kPa	Refer to <i>Table 15</i>
Propane/ L.P.G.	10.5 in. w.c.	2.61 kPa	

The connection of gas supply to the appliance shall be made with a flexible hose suitable for the appliance category in accordance with national installation regulations of the country of destination. If in doubt, the installer shall contact the supplier.

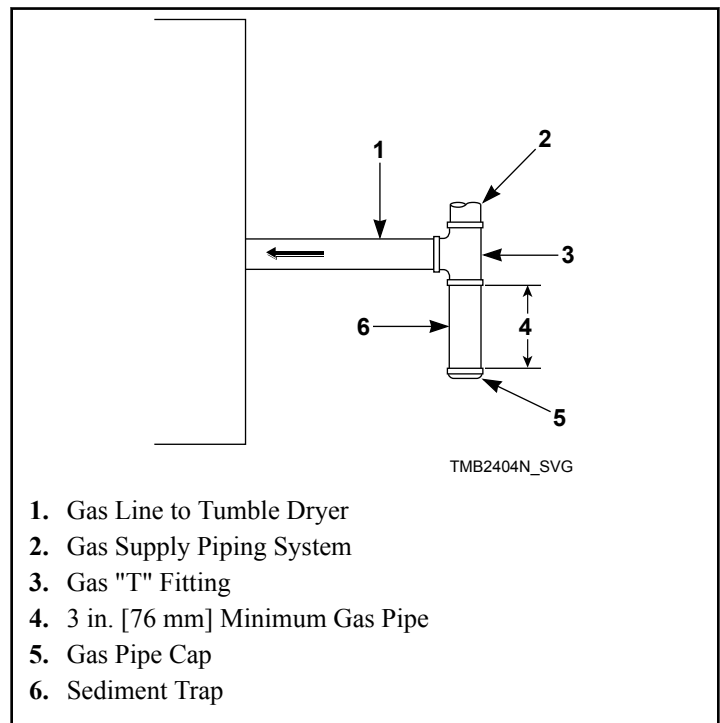



Figure 14

How to Change Burner Orifice Size

1. Disconnect electrical power from tumble dryer. Close gas shut-off valve to tumble dryer. Refer to *Figure 15* .

	WARNING
When converting the tumble dryer to a different gas or pressure, first verify that the supply inlet pressure is equipped with a pressure regulator (located ahead of the tumble dryer) that will maintain the gas supply at the inlet pressure specified.	
W430R1	

2. Remove orifice holder. Unscrew orifice holder nut near gas valve. Remove the burner orifice(s) from orifice holder. Refer to *Figure 16* .
3. Install the new, correct burner orifice(s). Refer to *Figure 17* and *Table 15* . Torque each to 9 – 10 Nm.
4. Reinstall orifice holder assembly to gas valve, making certain burner orifice(s) are in line with burner tube opening. Refer to *Figure 17* .
5. Commission tumble dryer for use.

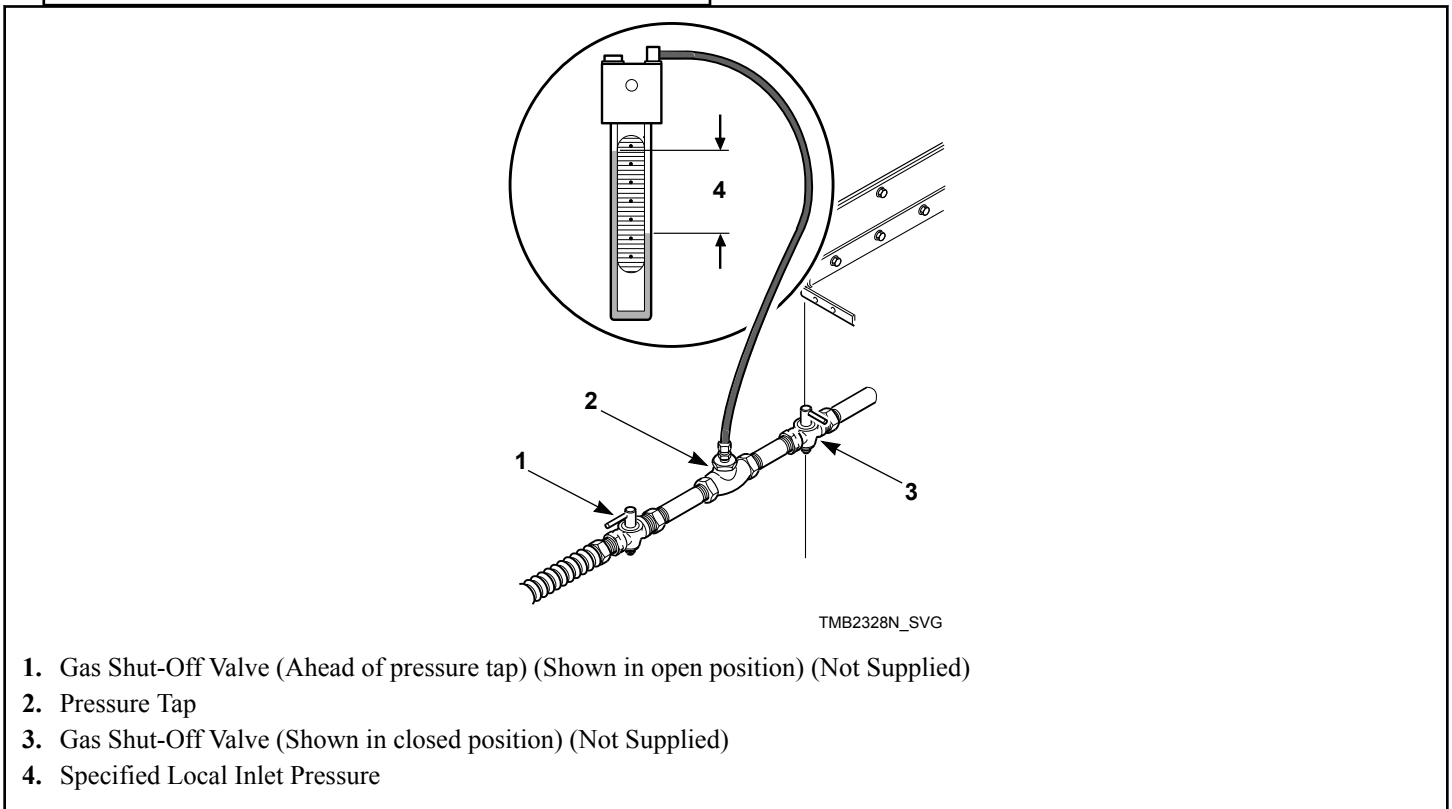


Figure 15

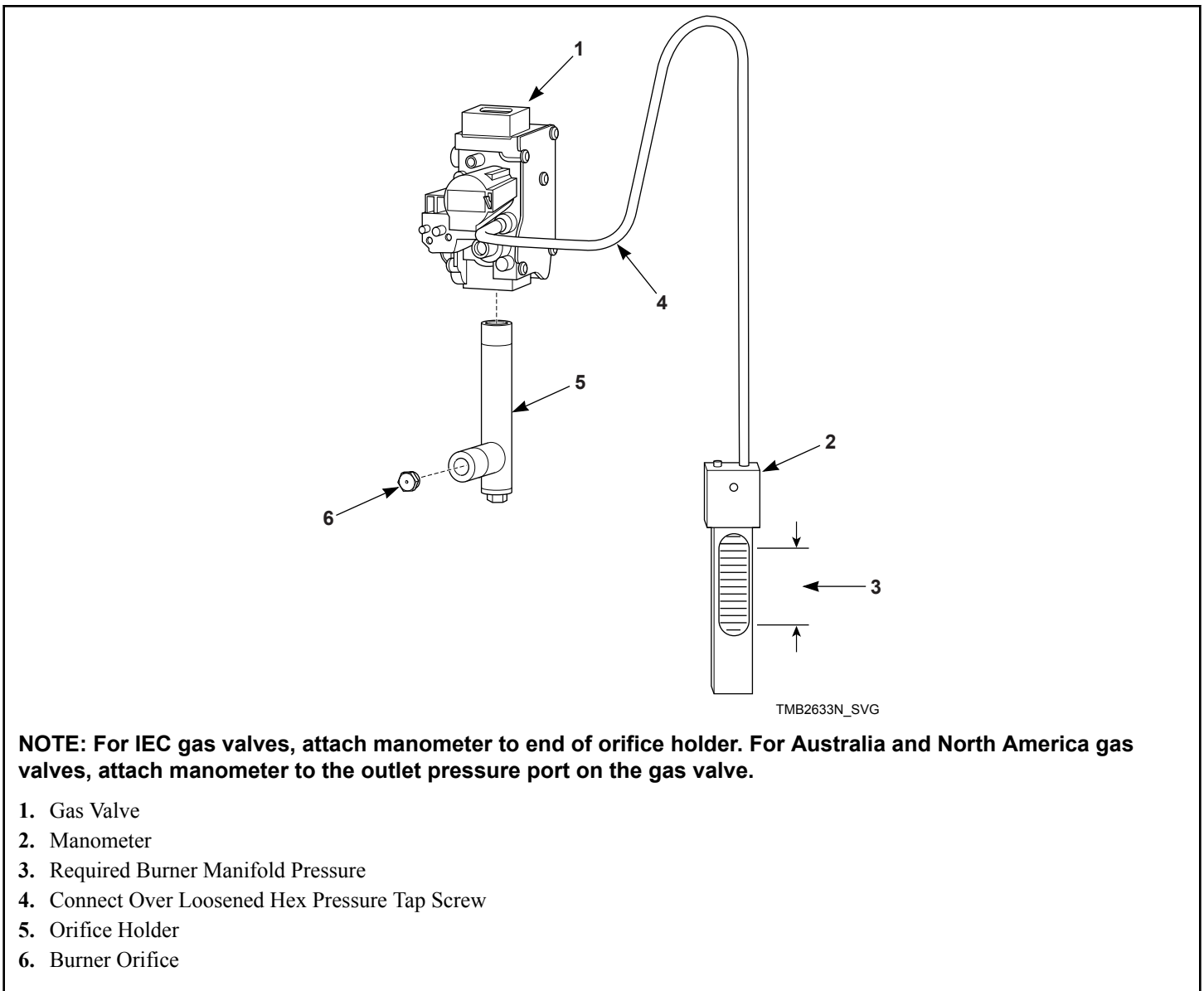


Figure 16

How to Adjust Gas Valve Governor/Regulator

1. Check gas burner orifice (manifold) pressure as follows. Refer to *Figure 16*.
2. Remove screw plug from pressure tap.
3. Connect a “U”-tube manometer (or similar pressure gauge) to the burner orifice (manifold) pressure tap.
4. Start tumble dryer and note pressure once flame is burning. Remove regulator cap and adjust regulator screw until the burner orifice pressure per applicable table is achieved. Replace regulator cap. Refer to *Figure 16*.
5. Commission tumble dryer for use.

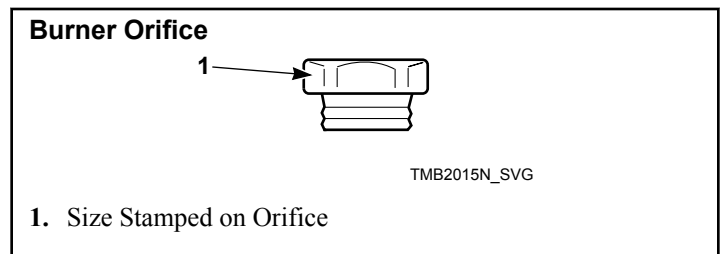


Figure 17

Installing CE Gas Tumble Dryer

This information is to be used when installing gas tumble dryers in countries and/or on gases different than the machine's factory configuration. Tumble Dryers are supplied from the factory for operation with natural gas categories 2H, 2E, 2L, 2E(LL), 2E(r), 2E(R) or unregulated L.P.G. categories 3 B/P, 3+. To install tumble dryers for regulated LPG category 3B/P requires a conversion kit.

Tumble dryers are built in two different configurations:

- Natural Gas – regulated/governor
- Liquefied Petroleum Gas (L.P.G.) – not regulated/no governor

For converting models from Natural Gas to L.P.G., order the appropriate kit listed in *Gas Requirements* section.

Serial plates supplied from the factory are configured for:

- Natural Gas, standard rate
 - AT/BG/CH/CY/CZ/DK/EE/FI/HR/LT/NO/SE/SI/SK: II_{2H3B/P}
 - CH/ES/GB/GR/IE/IT/TR: II_{2H3+}
 - DE/LU/PL: II_{2E3B/P}
- Natural Gas, Eco rate
 - AT/BG/CH/CY/CZ/DK/EE/ES/FI/GB/GR/HR/IE/IT/LT/NO/SE/SI/SK/TR: I_{2H}
 - DE/LU/PL: I_{2E}
- L.P.G.
 - BE/CH/ES/FR/GB/GR/IE/IT/TR: I₃₊

These instructions pertain to the situations when the country of use or gas supply is different than that on the serial plate. When installing in a different country, peel off the appropriate country sticker (included in literature packet with tumble dryer) and apply it to the serial plate over the existing country information. Adjust manifold pressure as applicable, per *Table 15*.

Units installed in France (FR) require a gas connection adapter having ISO228 (BSPP, G) parallel threads and a sealing washer. The adapter must have a sufficient flat area to seat the sealing washer.

Adjusting Manifold Pressure for Natural Gas G20 or G25

1. If country/gas category designation required is not listed on the serial plate, affix the appropriate country/gas category label supplied over the main serial plate designations.
2. Verify gas supply pressure and adjust as necessary. Refer to *Figure 1*.
3. Verify manifold pressure. Refer to *How to Adjust Gas Valve Governor/Regulator* and adjust as necessary.

Adjusting Supply Pressure for L.P.G. G30 or G31

1. If country/gas category designation required is not listed on the serial plate, affix the appropriate country/gas category label over the main serial plate designations.
2. Verify gas supply pressure and adjust as necessary. Refer to *Figure 1*.

Converting From Natural Gas to L.P.G. or From Unregulated L.P.G. to Regulated L.P.G.


1. Refer to table below to determine conversion kit part number required.
2. Follow instructions supplied in conversion kit.

	CSA and AGA Models	CE Models
025 Series	70550201	70551901
030 Series	70550202	70551902
T30 Series	70550205	70551905
035 Series	70550203	70551903
T45 Series	CSA - 70550206 AGA - 70550207	70551906
055 Series	70550204	70551904

CE GASES refer to *Installing CE Gas Tumble Dryer* section.

Start-Up Procedure

Turn on gas and check all pipe connections (internal and external) for gas leaks with a non-corrosive leak detection fluid. Purge air in gas service line by operating the tumble dryers in the drying mode. If burner does not light and unit goes into lockout, press start key on the control while the access panel is open. The control will then prompt for the start key to be pressed again to restart the cycle. Repeat these steps until burner ignites. Use pipe compound, resistant to actions of L.P. gas, on all pipe threads.

	WARNING
<p>Check all pipe connections, internal and external, for gas leaks using a non-corrosive leak detection fluid. To reduce the risk of explosion or fire, DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS! Gas connections should be checked daily for leakage.</p>	
W924	

Gas Supply Pipe Sizing and Looping

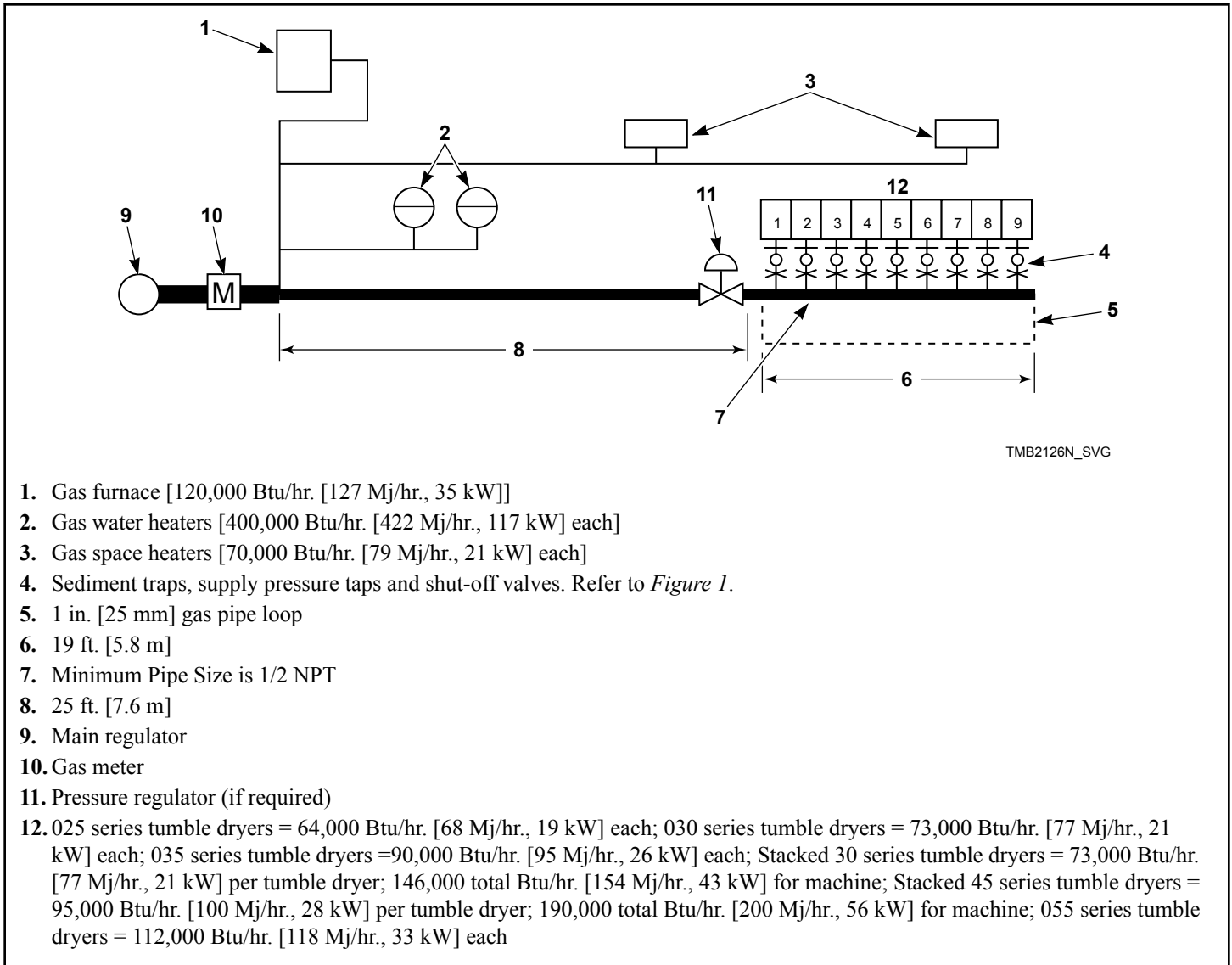


Figure 18

SAMPLE CALCULATIONS:

Equivalent length = Total length of main gas supply pipe to the far end of the tumble dryers.

= 25 ft. + 19 ft. [7.6 m + 5.8 m] gas supply pipe

= 44 ft. [13.4 m] Total Gas Line

Total Btu/hr. = The sum of the Btu/hr. of all 030 series tumble dryers being fed by the main gas supply pipe.

= 9 x 73,000 [77, 21]

= 657,000 Btu/hr. [193 kW]

Using *Table 16*, the main supply pipe diameter should be 2 NPT.

IMPORTANT: Gas loop piping must be installed as illustrated to equalize gas pressure for all tumble dryers connected to single gas service. Other gas using appliances should be connected upstream from loop.

Low Pressure Gas Pipe Sizes

NOTE: Sizing calculations based on National Fuel Gas Code.

Gas Pipe Size Required for 1000 BTU Natural Gas (Standard Conditions) at Upstream Pressure— 7.0 ± 1.5 inches water column pressure [17.4 ± 4.0 mbar, 1.74 ± 0.37 kPa]						
Gas Appli- ances Total BTU/hr.	Equivalent Length					
	25 feet [7.6 m]	50 feet [15.2 m]	75 feet [22.9 m]	100 feet [30 m]	125 feet [38 m]	150 feet [46 m]
	Based on 0.3 inches Water Column Pressure Drop for Length Given Sizes shown in Gas Pipe Nominal Size (NPT)					
100,000	3/4	3/4	3/4	1	1	1
120,000	3/4	3/4	1	1	1	1
140,000	3/4	1	1	1	1	1
160,000	3/4	1	1	1	1-1/4	1-1/4
180,000	3/4	1	1	1-1/4	1-1/4	1-1/4
200,000	1	1	1	1-1/4	1-1/4	1-1/4
300,000	1	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2
400,000	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2
500,000	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	2
600,000	1-1/4	1-1/2	1-1/2	2	2	2
700,000	1-1/2	1-1/2	2	2	2	2
800,000	1-1/2	1-1/2	2	2	2	2
900,000	1-1/2	2	2	2	2	2-1/2
1,000,000	1-1/2	2	2	2	2-1/2	2-1/2
1,100,000	1-1/2	2	2	2	2-1/2	2-1/2
1,200,000	1-1/2	2	2	2-1/2	2-1/2	2-1/2
1,300,000	2	2	2-1/2	2-1/2	2-1/2	2-1/2
1,400,000	2	2	2-1/2	2-1/2	2-1/2	2-1/2
1,500,000	2	2	2-1/2	2-1/2	2-1/2	2-1/2
1,600,000	2	2	2-1/2	2-1/2	2-1/2	3

Table 16 *continues...*

Gas Pipe Size Required for 1000 BTU Natural Gas (Standard Conditions) at Upstream Pressure— 7.0 ± 1.5 inches water column pressure [17.4 ± 4.0 mbar, 1.74 ± 0.37 kPa]						
Gas Appliances Total BTU/hr.	Equivalent Length					
	25 feet [7.6 m]	50 feet [15.2 m]	75 feet [22.9 m]	100 feet [30 m]	125 feet [38 m]	150 feet [46 m]
	Based on 0.3 inches Water Column Pressure Drop for Length Given Sizes shown in Gas Pipe Nominal Size (NPT)					
1,700,000	2	2-1/2	2-1/2	2-1/2	3	3
1,800,000	2	2-1/2	2-1/2	2-1/2	3	3
1,900,000	2	2-1/2	2-1/2	3	3	3
2,000,000	2	2-1/2	2-1/2	3	3	3
2,200,000	2	2-1/2	3	3	3	3
2,400,000	2-1/2	2-1/2	3	3	3	3-1/2
2,600,000	2-1/2	2-1/2	3	3	3-1/2	3-1/2
2,800,000	2-1/2	3	3	3	3-1/2	3-1/2
3,000,000	2-1/2	3	3	3-1/2	3-1/2	3-1/2
For L.P. Gas, correct the total Btu/hr by multiplying it by 0.6. The answer is the equivalent Btu on the above chart.						

Table 16

High Pressure Gas Pipe Sizes

NOTE: Sizing calculations based on National Fuel Gas Code.

IMPORTANT: A high pressure regulator is required at each machine.

Gas Pipe Size Required for 1000 BTU Natural Gas (Standard Conditions) at Upstream Pressure — 2.0 ± 0.4 PSI [138 ± 28 mbar, 13.7 ± 2.7 kPa]						
Gas Appli- ances Total BTU/hr.	Equivalent Length					
	25 feet [7.6 m]	50 feet [15.2 m]	75 feet [22.9 m]	100 feet [30 m]	125 feet [38 m]	150 feet [46 m]
	Based on 1 PSI Pressure Drop for Length Given Sizes shown in Gas Pipe Nominal Size (NPT)					
100,000	1/2	1/2	1/2	1/2	1/2	1/2
120,000	1/2	1/2	1/2	1/2	1/2	1/2
140,000	1/2	1/2	1/2	1/2	1/2	1/2
160,000	1/2	1/2	1/2	1/2	1/2	1/2
180,000	1/2	1/2	1/2	1/2	1/2	1/2
200,000	1/2	1/2	1/2	1/2	1/2	1/2
300,000	1/2	1/2	1/2	1/2	1/2	3/4
400,000	1/2	1/2	1/2	1/2	1/2	3/4
500,000	1/2	1/2	1/2	3/4	3/4	3/4
600,000	1/2	1/2	3/4	3/4	3/4	3/4
700,000	1/2	3/4	3/4	3/4	3/4	1
800,000	1/2	3/4	3/4	3/4	3/4	1
900,000	1/2	3/4	3/4	3/4	3/4	1
1,000,000	3/4	3/4	3/4	3/4	1	1
1,100,000	3/4	3/4	3/4	3/4	1	1
1,200,000	3/4	3/4	3/4	1	1	1
1,300,000	3/4	3/4	3/4	1	1	1-1/4
1,400,000	3/4	3/4	1	1	1	1-1/2
1,500,000	3/4	3/4	1	1	1	1-1/4
1,600,000	3/4	3/4	1	1	1	1-1/4

Table 17 continues...

Gas Pipe Size Required for 1000 BTU Natural Gas (Standard Conditions) at Upstream Pressure — 2.0 ± 0.4 PSI [138 ± 28 mbar, 13.7 ± 2.7 kPa]						
Gas Appliances Total BTU/hr.	Equivalent Length					
	25 feet [7.6 m]	50 feet [15.2 m]	75 feet [22.9 m]	100 feet [30 m]	125 feet [38 m]	150 feet [46 m]
	Based on 1 PSI Pressure Drop for Length Given Sizes shown in Gas Pipe Nominal Size (NPT)					
1,700,000	3/4	1	1	1	1	1-1/4
1,800,000	3/4	1	1	1	1	1-1/4
1,900,000	3/4	1	1	1	1	1-1/4
2,000,000	3/4	1	1	1	1-1/4	1-1/4
2,200,000	3/4	1	1	1-1/4	1-1/4	1-1/4
2,400,000	1	1	1	1-1/4	1-1/4	1-1/2
2,600,000	1	1	1-1/4	1-1/4	1-1/4	1-1/2
2,800,000	1	1	1-1/4	1-1/4	1-1/4	1-1/2
3,000,000	1	1	1-1/4	1-1/4	1-1/4	1-1/2

For L.P. Gas, correct the total Btu/hr by multiplying it by 0.6. The answer is the equivalent Btu on the above chart.

Table 17

High Altitude Burner Orifice Sizing

For proper operation at altitudes above 2,000 feet [610 m], the gas burner orifice size must be reduced to ensure complete com-

bustion. Heat input derate of 4% per 1,000 feet [305 meters] of altitude above sea level. Refer to *Table 18* or *Table 19*.

For IEC models, consult local gas supplier.

Standard Line Models

Model	Market	Gas	Altitude	Burner Orifice			
			feet [meters]	No.	inches [mm]	Quantity	Part No.
025 Series	T, G, A, H, J, K, R, U	Natural Gas	2,001-4,000 [610-1,220]	27	0.1440 [3.66]	1	70684135
			4,001-6,000 [1,221-1,830]	28	0.1405 [3.57]		70684134
			6,001-8,000 [1,831-2,440]	29	0.1360 [3.45]		70684132
			8,001-10,000 [2,441-3,050]	3.3 mm	0.1299 [3.30]		70684130
	T, G, A, H, R	L.P. Gas	2,001-4,000 [610-1,220]	44	0.0860 [2.18]		70684110
			4,001-6,000 [1,221-1,830]	45	0.0820 [2.08]		70684109
			6,001-8,000 [1,831-2,440]	46	0.0810 [2.06]		70684108
			8,001-10,000 [2,441-3,050]	48	0.0760 [1.93]		70684106
	U	L.P. Gas	2,001-4,000 [610-1,220]	48	0.0760 [1.93]		70684106
			4,001-6,000 [1,221-1,830]	48	0.0760 [1.93]		70684106
			6,001-8,000 [1,831-2,440]	49	0.0730 [1.85]		70684105
			8,001-10,000 [2,441-3,050]	50	0.0700 [1.78]		70684104
	J	L.P. Gas	2,001-4,000 [610-1,220]	48	0.0760 [1.93]		70684106
			4,001-6,000 [1,221-1,830]	48	0.0760 [1.93]		70684106
			6,001-8,000 [1,831-2,440]	49	0.0730 [1.85]		70684105
			8,001-10,000 [2,441-3,050]	50	0.0700 [1.78]		70684104

Table 18 *continues...*

Gas Requirements

Model	Market	Gas	Altitude	Burner Orifice			
			feet [meters]	No.	inches [mm]	Quantity	Part No.
030 Series	T, G, A, H, J, K, R, U	Natural Gas	2,001-4,000 [610-1,220]	23	0.1540 [3.91]	1	70684139
			4,001-6,000 [1,221-1,830]	25	0.1495 [3.80]		70684137
			6,001-8,000 [1,831-2,440]	27	0.1440 [3.66]		70684135
			8,001-10,000 [2,441-3,050]	3.50 mm	0.1378 [3.50]		70684133
	T, G, A, H, R	L.P. Gas	2,001-4,000 [610-1,220]	42	0.0935 [2.37]		70684114
			4,001-6,000 [1,221-1,830]	2.30 mm	0.0906 [2.30]		70684113
			6,001-8,000 [1,831-2,440]	2.20 mm	0.0866 [2.20]		70684111
			8,001-10,000 [2,441-3,050]	45	0.0820 [2.08]		70684109
	U	L.P. Gas	2,001-4,000 [610-1,220]	45	0.0820 [2.08]		70684109
			4,001-6,000 [1,221-1,830]	47	0.0785 [1.99]		70684107
			6,001-8,000 [1,831-2,440]	48	0.0760 [1.93]		70684106
			8,001-10,000 [2,441-3,050]	49	0.0730 [1.85]		70684105
	J	L.P. Gas	2,001-4,000 [610-1,220]	45	0.0820 [2.08]		70684109
			4,001-6,000 [1,221-1,830]	46	0.0810 [2.06]		70684108
			6,001-8,000 [1,831-2,440]	48	0.0760 [1.93]		70684106
			8,001-10,000 [2,441-3,050]	49	0.0730 [1.85]		70684105

Table 18 continues...

Model	Market	Gas	Altitude	Burner Orifice			
			feet [meters]	No.	inches [mm]	Quantity	Part No.
T30 Series	T, G, A, H, J, K, R, U	Natural Gas	2,001-4,000 [610-1,220]	23	0.1540 [3.91]	2	70684139
			4,001-6,000 [1,221-1,830]	25	0.1495 [3.80]		70684137
			6,001-8,000 [1,831-2,440]	27	0.1440 [3.66]		70684135
			8,001-10,000 [2,441-3,050]	3.50 mm	0.1378 [3.50]		70684133
	T, G, A, H, R	L.P. Gas	2,001-4,000 [610-1,220]	42	0.0935 [2.37]		70684114
			4,001-6,000 [1,221-1,830]	2.30 mm	0.0906 [2.30]		70684113
			6,001-8,000 [1,831-2,440]	2.20 mm	0.0866 [2.20]		70684111
			8,001-10,000 [2,441-3,050]	45	0.0820 [2.08]		70684109
	U	L.P. Gas	2,001-4,000 [610-1,220]	45	0.0820 [2.08]		70684109
			4,001-6,000 [1,221-1,830]	47	0.0785 [1.99]		70684107
			6,001-8,000 [1,831-2,440]	48	0.0760 [1.93]		70684106
			8,001-10,000 [2,441-3,050]	49	0.0730 [1.85]		70684105
	J	L.P. Gas	2,001-4,000 [610-1,220]	45	0.0820 [2.08]		70684109
			4,001-6,000 [1,221-1,830]	46	0.0810 [2.06]		70684108
			6,001-8,000 [1,831-2,440]	48	0.0760 [1.93]		70684106
			8,001-10,000 [2,441-3,050]	49	0.0730 [1.85]		70684105

Table 18 *continues...*

Gas Requirements

Model	Market	Gas	Altitude	Burner Orifice			
			feet [meters]	No.	inches [mm]	Quantity	Part No.
035 Series	T, G, A, H, J, K, R, U	Natural Gas	2,001-4,000 [610-1,220]	11/64	0.1719 [4.37]	1	70684145
			4,001-6,000 [1,221-1,830]	19	0.1660 [4.22]		70684143
			6,001-8,000 [1,831-2,440]	20	0.1610 [4.09]		70684142
			8,001-10,000 [2,441-3,050]	23	0.1510 [3.91]		70684139
	T, G, A, H, R	L.P. Gas	2,001-4,000 [610-1,220]	36	0.1065 [2.71]		70684120
			4,001-6,000 [1,221-1,830]	38	0.1015 [2.58]		70684118
			6,001-8,000 [1,831-2,440]	40	0.0980 [2.49]		70684116
			8,001-10,000 [2,441-3,050]	42	0.0935 [2.37]		70684114
	U	L.P. Gas	2,001-4,000 [610-1,220]	42	0.0935 [2.37]		70684114
			4,001-6,000 [1,221-1,830]	2.3 mm	0.0906 [2.30]		70684113
			6,001-8,000 [1,831-2,440]	2.2 mm	0.0866 [2.20]		70684111
			8,001-10,000 [2,441-3,050]	45	0.0820 [2.08]		70684109
	J	L.P. Gas	2,001-4,000 [610-1,220]	42	0.0935 [2.37]		70684114
			4,001-6,000 [1,221-1,830]	2.3 mm	0.0906 [2.30]		70684113
			6,001-8,000 [1,831-2,440]	43	0.0890 [2.26]		70684112
			8,001-10,000 [2,441-3,050]	44	0.0860 [2.18]		70684110

Table 18 continues...

Model	Market	Gas	Altitude	Burner Orifice			
			feet [meters]	No.	inches [mm]	Quantity	Part No.
T45 Series	T, G, A, H, J, K, R, U	Natural Gas	2,001-4,000 [610-1,220]	17	0.1730 [4.39]	2	70684146
			4,001-6,000 [1,221-1,830]	18	0.1695 [4.31]		70684144
			6,001-8,000 [1,831-2,440]	20	0.1610 [4.09]		70684142
			8,001-10,000 [2,441-3,050]	23	0.1510 [3.91]		70684139
	T, G, H, R	L.P. Gas	2,001-4,000 [610-1,220]	36	0.1065 [2.71]		70684120
			4,001-6,000 [1,221-1,830]	38	0.1015 [2.58]		70684118
			6,001-8,000 [1,831-2,440]	40	0.0980 [2.49]		70684116
			8,001-10,000 [2,441-3,050]	42	0.0935 [2.37]		70684114
	U	L.P. Gas	2,001-4,000 [610-1,220]	45	0.0820 [2.08]		70684109
			4,001-6,000 [1,221-1,830]	47	0.0785 [1.99]		70684107
			6,001-8,000 [1,831-2,440]	48	0.0760 [1.93]		70684106
			8,001-10,000 [2,441-3,050]	49	0.0730 [1.85]		70684105
	A	L.P. Gas	2,001-4,000 [610-1,220]	38	0.1015 [2.58]		70684118
			4,001-6,000 [1,221-1,830]	40	0.0980 [2.49]		70684116
			6,001-8,000 [1,831-2,440]	42	0.0935 [2.37]		70684114
			8,001-10,000 [2,441-3,050]	2.3 mm	0.0906 [2.30]		70684113
	J	L.P. Gas	2,001-4,000 [610-1,220]	42	0.0935 [2.37]		70684114
			4,001-6,000 [1,221-1,830]	2.3 mm	0.0906 [2.30]		70684113
			6,001-8,000 [1,831-2,440]	43	0.0890 [2.26]		70684112
			8,001-10,000	44	0.0860		70684110

Gas Requirements

Model	Market	Gas	Altitude	Burner Orifice			
			feet [meters]	No.	inches [mm]	Quantity	Part No.
055 Series	T, G, A, H, J, K, R, U	Natural Gas	2,001-4,000 [610-1,220]	13	0.1850 [4.70]	1	70684150
			4,001-6,000 [1,221-1,830]	15	0.1800 [4.57]		70684148
			6,001-8,000 [1,831-2,440]	17	0.1730 [4.39]		70684146
			8,001-10,000 [2,441-3,050]	19	0.1660 [4.22]		70684143
	T, G, A, H, R	L.P. Gas	2,001-4,000 [610-1,220]	33	0.1130 [2.87]		70684124
			4,001-6,000 [1,221-1,830]	34	0.1110 [2.82]		70684123
			6,001-8,000 [1,831-2,440]	36	0.1065 [2.71]		70684120
			8,001-10,000 [2,441-3,050]	38	0.1015 [2.58]		70684118
	U	L.P. Gas	2,001-4,000 [610-1,220]	44	0.0860 [2.18]		70684110
			4,001-6,000 [1,221-1,830]	45	0.0820 [2.08]		70684109
			6,001-8,000 [1,831-2,440]	46	0.0810 [2.06]		70684108
			8,001-10,000 [2,441-3,050]	48	0.0760 [1.93]		70684106
	J	L.P. Gas	2,001-4,000 [610-1,220]	38	0.1015 [2.58]		70684118
			4,001-6,000 [1,221-1,830]	40	0.0980 [2.49]		70684116
			6,001-8,000 [1,831-2,440]	42	0.0935 [2.37]		70684114
			8,001-10,000 [2,441-3,050]	2.3 mm	0.0906 [2.30]		70684113

Table 18

Eco Line Models (only available in Natural Gas)

Model	Gas	Altitude	Burner Orifice			
		feet [meters]	No.	inches [mm]	Quantity	Part No.
025 Series	Natural Gas	2,001-4,000 [610-1,220]	3.40 mm	0.1339 [3.40]	1	70684131
		4,001-6,000 [1,221-1,830]	3.30 mm	0.1299 [3.30]		70684130
		6,001-8,000 [1,831-2,440]	1/8	0.1250 [3.18]		70684128
		8,001-10,000 [2,441-3,050]	31	0.1200 [3.05]		70684126
030 Series	Natural Gas	2,001-4,000 [610-1,220]	3.40 mm	0.1339 [3.40]	1	70684131
		4,001-6,000 [1,221-1,830]	3.30 mm	0.1299 [3.30]		70684130
		6,001-8,000 [1,831-2,440]	1/8	0.1250 [3.18]		70684128
		8,001-10,000 [2,441-3,050]	31	0.1200 [3.05]		70684126
T30 Series	Natural Gas	2,001-4,000 [610-1,220]	3.30 mm	0.1299 [3.30]	2	70684130
		4,001-6,000 [1,221-1,830]	1/8	0.1250 [3.18]		70684128
		6,001-8,000 [1,831-2,440]	31	0.1200 [3.05]		70684126
		8,001-10,000 [2,441-3,050]	32	0.1160 [2.95]		70684125
035 Series	Natural Gas	2,001-4,000 [610-1,220]	26	0.1470 [3.73]	1	70684136
		4,001-6,000 [1,221-1,830]	28	0.1405 [3.57]		70684134
		6,001-8,000 [1,831-2,440]	3.50 mm	0.1378 [3.50]		70684133
		8,001-10,000 [2,441-3,050]	3.30 mm	0.1299 [3.30]		70684130

Table 19 *continues...*


Gas Requirements


Model	Gas	Altitude	Burner Orifice			
		feet [meters]	No.	inches [mm]	Quantity	Part No.
T45 Series	Natural Gas	2,001-4,000 [610-1,220]	22	0.1570 [3.99]	2	70684140
		4,001-6,000 [1,221-1,830]	23	0.1540 [3.91]		70684139
		6,001-8,000 [1,831-2,440]	26	0.1470 [3.73]		70684136
		8,001-10,000 [2,441-3,050]	28	0.1405 [3.57]		70684134
055 Series	Natural Gas	2,001-4,000 [610-1,220]	14	0.1820 [4.62]	1	70684149
		4,001-6,000 [1,221-1,830]	16	0.1770 [4.50]		70684147
		6,001-8,000 [1,831-2,440]	18	0.1695 [4.31]		70684144
		8,001-10,000 [2,441-3,050]	20	0.1610 [4.09]		70684142


Table 19

Electrical Requirements

Electrical Requirements

	WARNING
<ul style="list-style-type: none"> To reduce the risk of electric shock, disconnect this appliance from the power supply before attempting any user maintenance other than cleaning the lint trap for dryers. Turning the controls to the OFF position does not disconnect this appliance from the power supply. To reduce the risk of fire and electric shock, check with a qualified service person for proper grounding procedures. Improper connection of the equipment grounding conductor may result in a risk of electric shock. Certain internal parts are intentionally not grounded and may present a risk of electric shock only during servicing. Service Personnel - Do not contact the following parts while the appliance is energized: Input/Output Board and Variable Frequency Drive, including the heat sinks. This appliance shall be installed in accordance with the rules in force, and dryers used only in a sufficiently ventilated space. Consult technical instruction before installation and use of this appliance. 	
W935	


	CAUTION
<p>Outside of Europe, to reduce the risk of injury or component failure, if electrical supply is coming from a three phase service, DO NOT connect a "High Leg" or "Stinger Leg" to a single phase machine. On a three phase machine, if there is a "High Leg" or "Stinger Leg" it should be connected to L3.</p>	
W938	

	WARNING
<p>The appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by a utility.</p>	
W943	

IMPORTANT: Electrical connections must be made by a qualified electrician using data on serial plate, installation manuals and wiring diagram provided with tumble dryer and according to local codes. Install a circuit breaker as close to the tumble dryer as possible. If more than one tumble dryer is being installed, a circuit breaker must be provided for each.

NOTE: Connect tumble dryer to an individual branch circuit not shared with lighting or other equipment.

NOTE: 3 Phase Tumble Dryers Only - Do not use fuses to avoid the possibility of "single phasing" and causing premature failure of the motors.

	WARNING
<p>In case of servicing (or putting the tumble dryer out of order), disconnect the tumble dryer from the main supply by switching off the circuit breaker.</p>	
W796	

Wiring Diagram

NOTE: Wiring diagram location: inside electrical box.

The wiring diagram part number is in the lower portion of the electrical data on the serial plate.

Wiring for Central Pay

Applicable for the following control suffixes (position 7 and 8 of the model number): BL, NL, VL and WL.

IMPORTANT: Tumble dryers may have one of two types of central pay configurations: a 12vDC self-contained version or an unpowered version requiring a customer-supplied power source and resistor. Refer to Central Pay Option diagram provided with tumble dryer for specifications. Incorrect application may cause component damage.

System Connections

Connection to central pay systems will be made in the rear junction box of the tumble dryer. For T30 and T45 models, connection for both the lower control and upper control will be made in the upper junction box.

Locate the harness with Black, Red, White with Red Stripe and Orange with Black Stripe wires. For T30 and T45 models, the upper and lower harness can be identified by a yellow label on the harness tubing indicating "UPPER" and a white label on the harness tubing indicating "LOWER".

Electrical Requirements

The wire colors will be the same regardless of control type. Splice the after-market central pay system wires to the tumble dryer control wire harness as follows.

Wire Colors	Description
Red	Start Pulse Signal Input
Black	Start Pulse Signal Input
White with Red Stripe	"Machine Available" Signal Output
Orange with Black Stripe	"Machine Available" Signal Output

Start Pulse Requirements

All control types will consider a pulse valid if it is between 10 and 1000 milliseconds in length, with a minimum of 25 milliseconds between pulses.

Grounding Instructions

NOTE: To ensure protection against shock, this machine **MUST** be electrically grounded in accordance with the local codes, or in the absence of local codes, with the latest edition of the National Electrical Code ANSI/NFPA No. 70. In Canada the electrical connections are to be made in accordance with CSA C22.1 latest edition Canadian Electrical Code, or local codes. Electrical work should be done by a qualified electrician.

This machine must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This machine must be connected to a grounded metal, permanent wiring system; or an equipment grounding conductor must be run with

Service/Ground Location

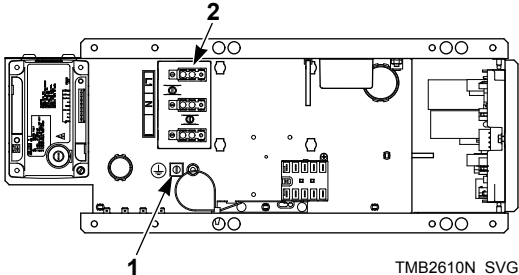


Model	Heat Source	Ground and Terminal Block Locations
025 030 035 055 (gas only)	Gas/steam, low voltage Gas/steam, high voltage	 <p>1. Ground 2. Power Distribution Block</p>

Table continues...

the circuit conductors and connected to the appropriate ground location.

- Metal conduit and/or BX cable is not considered ground.
- Connecting the Neutral from the electrical service box to the tumble dryer ground screw does not constitute a ground.
- A dedicated ground conduit (wire) must be connected between the electrical service box ground bar and machine ground screw.

	WARNING
<p>To reduce the risk of electrical shock, de-energize the electrical circuit being connected to the tumble dryer before making any electrical connections. All electrical connections should be made by a qualified electrician. Never attempt to connect a live circuit.</p>	
W409R1	

	CAUTION
<p>Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.</p>	
W071	

For On Premises Laundry (OPL) Models Only

IEC OPL (non-vend) models are factory-equipped with an emergency stop button on the front panel.

NOTE: Activation of the emergency stop switch stops all tumble dryer control circuit functions, but **DOES NOT** remove all electrical power from tumble dryer.

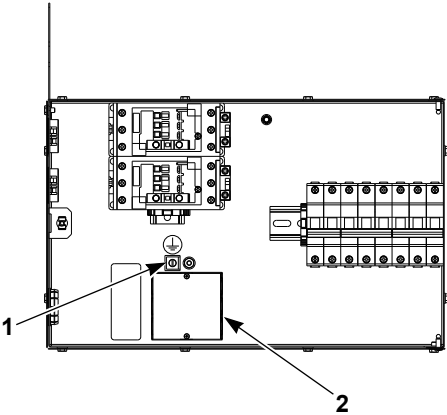
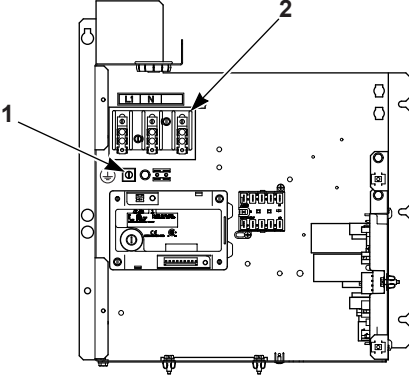
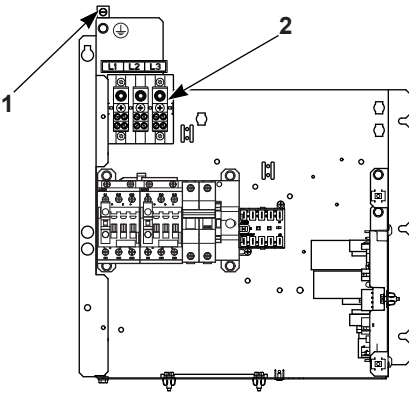
Model	Heat Source	Ground and Terminal Block Locations
025 030 035 055	Electric, low voltage Electric, high voltage	 <p style="text-align: center;">TMB2614N_SVG</p> <ol style="list-style-type: none"> 1. Ground 2. Power Distribution Block
T30 T45 (gas only)	Gas/Steam, low voltage Gas/Steam, high voltage	 <p style="text-align: center;">TMB2616N_SVG</p> <p>NOTE: Connection only required in upper junction box.</p> <ol style="list-style-type: none"> 1. Ground 2. Power Distribution Block

Table continues...

Model	Heat Source	Ground and Terminal Block Locations
T30	Electric, low voltage Electric, high voltage	 <p style="text-align: center;">TMB2620N_SVG</p> <p>NOTE: Connection required in upper and lower junction boxes.</p> <ol style="list-style-type: none"> 1. Ground 2. Power Distribution Block

To Connect Electrical Service To Machine

NOTE: All machines require separate service connections for each upper and lower unit. Serial Plate ratings reflect current draw, breaker rating and conductor size recommendations per unit.

The following steps outline the procedure for connecting electrical service to the machine.

- 3 Phase Models – Each machine 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).
- Electrical service must be connected using the appropriate permanent rigid metal conduit system.
- Service conductors must be copper only.

For an existing service, determine your service voltage and conductor amperage. Carefully review the machine serial plate ratings and Electrical Requirements section of this manual. If service is inadequate it must be upgraded by a qualified electrical contractor. Never connect an improper or inadequate service to any machine.

NOTE: The wiring diagram is located inside the junction or contactor box.

1. For new service, install a circuit breaker of proper voltage and current rating as close to each machine as possible.
2. Route service conduit from service breaker panel to machine service connection box. Conduit routing should not obstruct access for maintenance or servicing. Refer to Service/Ground Location.

3. Pull conductors through conduit and attach to circuit breaker and ground connection. Secure service ground wire to the machine grounding screw or lug. Attach service conductors to appropriately labeled positions on the machine terminal block. Make sure all connections are secure.

Electrical Connections for T30 and T45 Only

All gas tumble dryers require a single service connection to TB1 of the upper unit junction box only. The serial plate reflects current draw, breaker rating and conductor size recommendations for the entire machine.

All electric tumble dryers require separate service connections for each upper and lower unit. Serial Plate ratings reflect current draw, breaker rating and conductor size recommendations per unit.


Configuring Your Tumble Dryer for Other Service Voltages

NOTE: Tumble dryers are not field convertible and must be connected to service specified on serial plate.

Electrical Specifications

NOTE: Wire sizes were obtained from the Canadian Electrical Code for 75 C. wire and are intended for use as a guideline only. Electrical connections should be made 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.

	CAUTION
<p>Use copper conductors only with the following rating when wiring appliance to electric supply: Dryer gas and steam heat models require 187°F (75°C) minimum. Dryer electric heat models require 194°F (90°C) minimum.</p>	
W936	

NOTE: Connect this appliance to an individual branch circuit.

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).

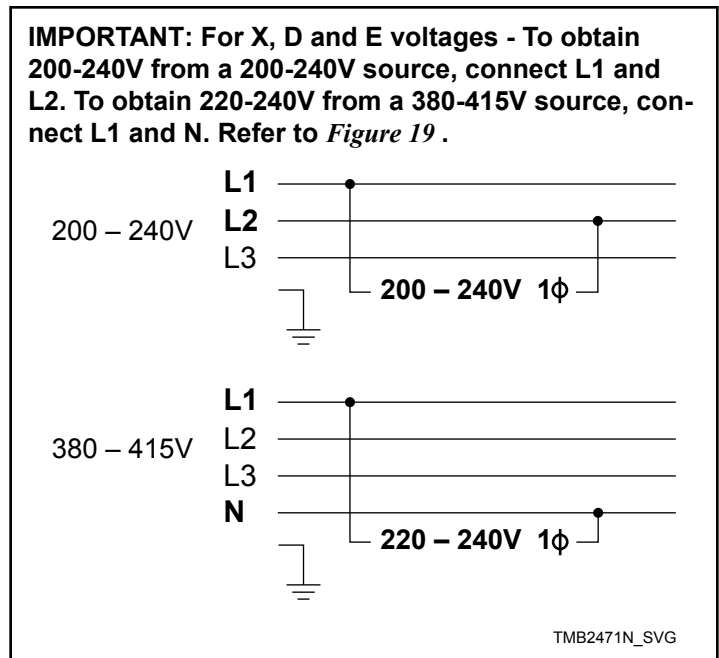


Figure 19

025, 030 and 035 Series Gas and Steam Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
B	100-120	50-60	1	L1, Neutral, and ground	10	15	14 [2.5]
X	200-240	50-60	1-3	Refer to <i>Figure 19</i>	6	15	14 [2.5]
N	440-480	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]
P	380-415	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]

Table 20

055 Series Gas Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
B	100-120	50-60	1	L1, Neutral, and ground	12	15	14 [2.5]

Table 21 *continues...*

Electrical Requirements

X	200-240	50-60	1-3	Refer to <i>Figure 19</i>	7	15	14 [2.5]
N	440-480	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]
P	380-415	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]

Table 21

T30 Series Gas and Steam Models (Total Machine)

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
B	100-120	50-60	1	L1, Neutral, and ground	16	20	12 [4]
X	200-240	50-60	1-3	Refer to <i>Figure 19</i>	9	15	14 [2.5]
N	440-480	50-60	3	L1, L2, L3 and ground	6	15	14 [2.5]
P	380-415	50-60	3	L1, L2, L3 and ground	6	15	14 [2.5]

Table 22

T45 Series Gas Models (Total Machine)

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
X	200-240	50-60	1-3	Refer to <i>Figure 19</i>	12	15	14 [2.5]
N	440-480	50-60	3	L1, L2, L3 and ground	6	15	14 [2.5]
P	380-415	50-60	3	L1, L2, L3 and ground	6	15	14 [2.5]

Table 23

9 kW Eco Line 025 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
D	200-208	50-60	1	Refer to <i>Figure 19</i>	46	60	6 [16]
E	230-240	50-60	1	Refer to <i>Figure 19</i>	40	50	8 [10]
F	200-208	50-60	3	L1, L2, L3 and ground	28	35	8 [10]
G	230-240	50-60	3	L1, L2, L3 and ground	24	30	10 [6]
H	380	50-60	3	L1, L2, L3 and ground	15	20	12 [4]
J	400-415	50-60	3	L1, L2, L3 and ground	13	20	12 [4]
K	440	50-60	3	L1, L2, L3 and ground	13	20	12 [4]
L	460-480	50-60	3	L1, L2, L3 and ground	12	15	14 [2.5]

Table 24

12 kW 025 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
D	200-208	50-60	1	Refer to <i>Figure 19</i>	60	80	4 [25]
E	230-240	50-60	1	Refer to <i>Figure 19</i>	53	70	4 [25]
F	200-208	50-60	3	L1, L2, L3 and ground	36	45	8 [10]
G	230-240	50-60	3	L1, L2, L3 and ground	32	40	8 [10]
H	380	50-60	3	L1, L2, L3 and ground	19	25	10 [6]

Table 25 continues...

Electrical Requirements

J	400-415	50-60	3	L1, L2, L3 and ground	18	25	10 [6]
K	440	50-60	3	L1, L2, L3 and ground	17	25	10 [6]
L	460-480	50-60	3	L1, L2, L3 and ground	15	20	12 [4]

Table 25

21 kW Standard Line 030 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
D	200-208	50-60	1	Refer to <i>Figure 19</i>	104	150	1/0 [50]
E	230-240	50-60	1	Refer to <i>Figure 19</i>	90	125	1 [35]
F	200-208	50-60	3	L1, L2, L3 and ground	61	80	4 [25]
G	230-240	50-60	3	L1, L2, L3 and ground	52	70	4 [25]
H	380	50-60	3	L1, L2, L3 and ground	33	45	8 [10]
J	400-415	50-60	3	L1, L2, L3 and ground	30	40	8 [10]
K	440	50-60	3	L1, L2, L3 and ground	29	40	8 [10]
L	460-480	50-60	3	L1, L2, L3 and ground	27	35	8 [10]

Table 26

12 kW Eco Line 030 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
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Table 27 continues...

D	200-208	50-60	1	Refer to <i>Figure 19</i>	60	80	4 [25]
E	230-240	50-60	1	Refer to <i>Figure 19</i>	53	70	4 [25]
F	200-208	50-60	3	L1, L2, L3 and ground	37	50	8 [10]
G	230-240	50-60	3	L1, L2, L3 and ground	33	45	8 [10]
H	380	50-60	3	L1, L2, L3 and ground	20	25	10 [6]
J	400-415	50-60	3	L1, L2, L3 and ground	18	25	10 [6]
K	440	50-60	3	L1, L2, L3 and ground	17	25	10 [6]
L	460-480	50-60	3	L1, L2, L3 and ground	16	20	12 [4]

Table 27

21 kW Standard Line T30 Series Electric Models (Per Pocket)

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps (Per Pocket)	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
F	200-208	50-60	3	L1, L2, L3 and ground	61	80	4 [25]
G	230-240	50-60	3	L1, L2, L3 and ground	52	70	4 [25]
H	380	50-60	3	L1, L2, L3 and ground	33	45	8 [10]
J	400-415	50-60	3	L1, L2, L3 and ground	30	40	8 [10]
K	440	50-60	3	L1, L2, L3 and ground	29	40	8 [10]
L	460-480	50-60	3	L1, L2, L3 and ground	27	35	8 [10]

Table 28

12 kW Eco Line T30 Series Electric Models (Per Pocket)

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
F	200-208	50-60	3	L1, L2, L3 and ground	37	50	8 [10]
G	230-240	50-60	3	L1, L2, L3 and ground	33	45	8 [10]
H	380	50-60	3	L1, L2, L3 and ground	20	25	10 [6]
J	400-415	50-60	3	L1, L2, L3 and ground	18	25	10 [6]
K	440	50-60	3	L1, L2, L3 and ground	17	25	10 [6]
L	460-480	50-60	3	L1, L2, L3 and ground	16	20	12 [4]

Table 29

24 kW Standard Line 035 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
D	200-208	50-60	1	Refer to <i>Figure 19</i>	118	150	1/0 [50]
E	230-240	50-60	1	Refer to <i>Figure 19</i>	102	150	1/0 [50]
F	200-208	50-60	3	L1, L2, L3 and ground	69	90	3 [26.7]
G	230-240	50-60	3	L1, L2, L3 and ground	59	80	4 [25]
H	380	50-60	3	L1, L2, L3 and ground	37	50	8 [10]
J	400-415	50-60	3	L1, L2, L3 and ground	34	45	8 [10]
K	440	50-60	3	L1, L2, L3 and ground	32	40	8 [10]

Table 30 *continues...*

L	460-480	50-60	3	L1, L2, L3 and ground	30	40	8 [10]
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Table 30

12 kW Eco Line 035 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
D	200-208	50-60	1	Refer to <i>Figure 19</i>	60	80	4 [25]
E	230-240	50-60	1	Refer to <i>Figure 19</i>	52	70	4 [25]
F	200-208	50-60	3	L1, L2, L3 and ground	36	45	8 [10]
G	230-240	50-60	3	L1, L2, L3 and ground	31	40	8 [10]
H	380	50-60	3	L1, L2, L3 and ground	19	25	10 [6]
J	400-415	50-60	3	L1, L2, L3 and ground	18	25	10 [6]
K	440	50-60	3	L1, L2, L3 and ground	17	25	10 [6]
L	460-480	50-60	3	L1, L2, L3 and ground	15	20	12 [4]

Table 31

18 kW Medium 035 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
D	200-208	50-60	1	Refer to <i>Figure 19</i>	89	125	1 [35]
E	230-240	50-60	1	Refer to <i>Figure 19</i>	77	100	3 [26.7]

Table 32 *continues...*

Electrical Requirements

F	200-208	50-60	3	L1, L2, L3 and ground	52	70	4 [25]
G	230-240	50-60	3	L1, L2, L3 and ground	46	60	6 [16]
H	380	50-60	3	L1, L2, L3 and ground	28	35	8 [10]
J	400-415	50-60	3	L1, L2, L3 and ground	26	35	8 [10]
K	440	50-60	3	L1, L2, L3 and ground	25	35	8 [10]
L	460-480	50-60	3	L1, L2, L3 and ground	23	30	10 [6]

Table 32

9 kW Low 035 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
H	380	50-60	3	L1, L2, L3 and ground	15	20	12 [4]
J	400-415	50-60	3	L1, L2, L3 and ground	14	20	12 [4]

Table 33

27 kW Standard Line 055 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm ²]
D	200-208	50-60	1	Refer to <i>Figure 19</i>	133	175	2/0 [70]
E	230-240	50-60	1	Refer to <i>Figure 19</i>	116	150	1/0 [50]
F	200-208	50-60	3	L1, L2, L3 and ground	78	100	3 [26.7]

Table 34 *continues...*

G	230-240	50-60	3	L1, L2, L3 and ground	67	90	3 [26.7]
H	380	50-60	3	L1, L2, L3 and ground	42	60	6 [16]
J	400-415	50-60	3	L1, L2, L3 and ground	39	50	8 [10]
K	440	50-60	3	L1, L2, L3 and ground	37	50	8 [10]
L	460-480	50-60	3	L1, L2, L3 and ground	34	45	8 [10]

Table 34

18 kW Eco Line 055 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm ²]
D	200-208	50-60	1	Refer to <i>Fig- ure 19</i>	90	125	1 [35]
E	230-240	50-60	1	Refer to <i>Fig- ure 19</i>	78	100	3 [26.7]
F	200-208	50-60	3	L1, L2, L3 and ground	53	70	4 [25]
G	230-240	50-60	3	L1, L2, L3 and ground	47	60	6 [16]
H	380	50-60	3	L1, L2, L3 and ground	29	40	8 [10]
J	400-415	50-60	3	L1, L2, L3 and ground	26	35	8 [10]
K	440	50-60	3	L1, L2, L3 and ground	25	35	8 [10]
L	460-480	50-60	3	L1, L2, L3 and ground	23	30	10 [6]

Table 35

Steam Requirements

Steam Requirements



WARNING

This appliance does not contain inherent pressure relief. A pressure relief valve rated for a maximum of 125 psi shall be provided by the steam source.

W942

NOTE: Steam valve and required adapter are located in cylinder or lint compartment.

NOTE: Machines require a constant 80 to 100 psig [5.3 to 6.9 bar] steam service for optimum operation. The maximum allowable steam pressure is 125 psig [8.6 bar]. In no case may the pressure exceed the above value.

Obtain specific steam service pipe sizes from steam system supplier or a qualified steam fitter.

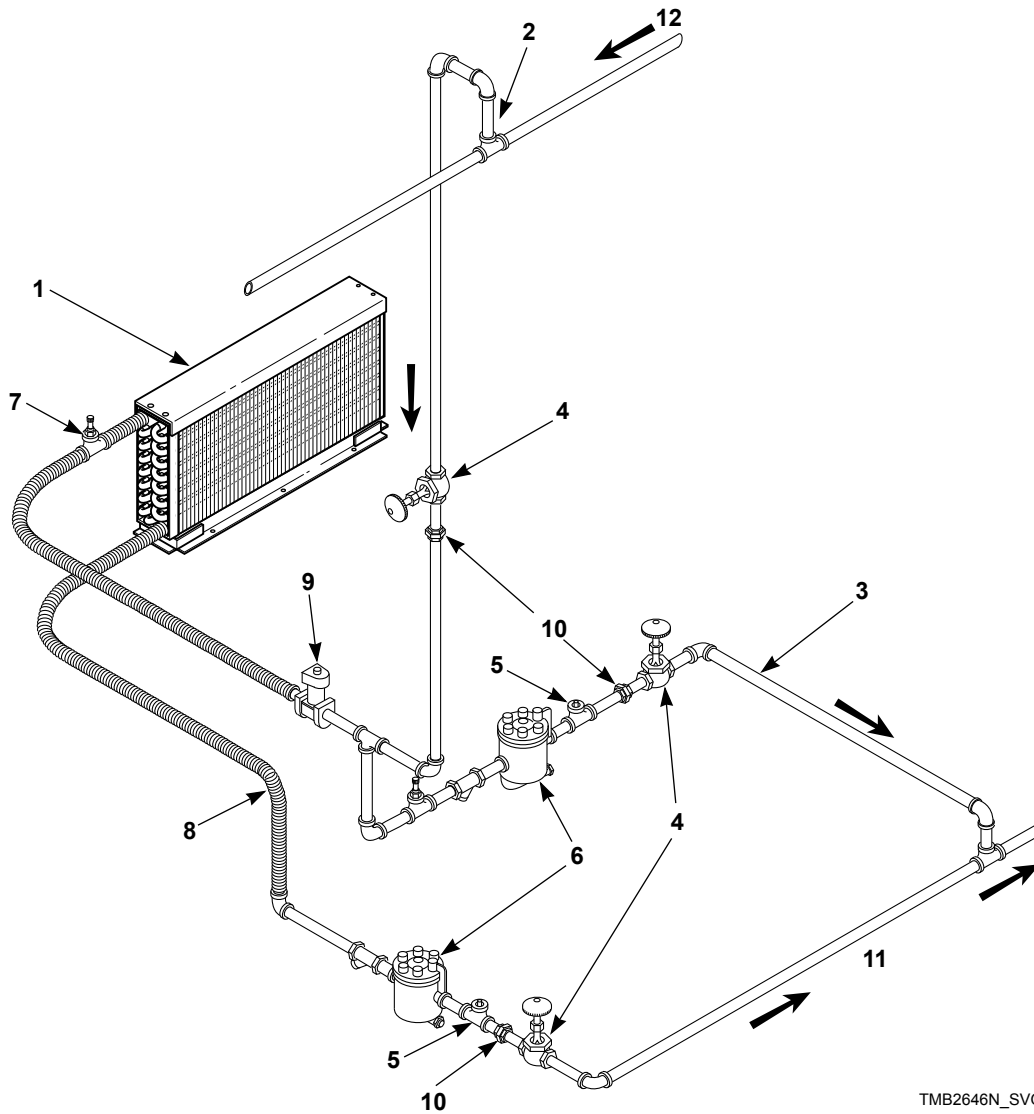
- Refer to *Figure 20* for proper steam pipe configurations.
- To prevent condensate draining from headers to tumble dryer, piping should have a minimum 12 inch [300 mm] rise above respective header. Do not make steam connection to header with a horizontal or downward facing tee or elbow.
- Whenever possible, horizontal runs of steam lines must drain, by gravity, to respective steam header. Water pockets, or an improperly drained steam header will provide wet steam, causing improper operation of tumble dryer. If pockets or improper drainage cannot be eliminated, install a bypass trap to drain condensate from the low point in the steam header to the return.

- In both steam supply and steam return line, it is recommended that each have a pipe union and shut-off valve. This will enable you to disconnect the steam connections and service the tumble dryer while your laundry facility is in operation.
- Connect the steam solenoid valve to the related steam coil inlet connection with nipples, flex hoses, unions and tees.
- Strainers may require cleaning due to materials from hoses or pipes.
- Install vacuum breaker (optional), bucket trap with built-in strainer and check valve. For successful operation of tumble dryer, install trap 18 inches [460 mm] below coil and as near to the tumble dryer as possible. Inspect trap carefully for inlet and outlet markings and install according to trap manufacturer's instructions. If steam is gravity returned to boiler, omit trap but install vacuum breaker and check valve in return line near tumble dryer. Gravity return requires entire return plumbing be below steam coil outlets.
- Install union and shut-off valve in return line and make final pipe connections to return header.

NOTE: To prevent water hammering, route return lines below outlets of steam coils.

NOTE: Steam inlet lines of each dryer should be trapped to keep line condensation from going into steam coils.

NOTE: IEC machines are shipped with BSPT adapters in the lint compartment. Not for stack machines.



TMB2646N_SVG

NOTE: Refer to Table 36 for sizing of steam lines. Piping must also be sized accordingly for length of runs and number of elbows.

- 1. Steam Coil
- 2. 12 in. [300 mm] Riser
- 3. Condensate Return Line from Supply Line
- 4. Shut-Off Valve
- 5. Check Valve
- 6. Trap with Built-In Strainer
- 7. Vacuum Breaker (Optional)
- 8. 18 in. [460 mm] Drop Recommended (not above outlet)
- 9. Solenoid Valve (Supplied with machine)
- 10. Union
- 11. Return
- 12. Supply

Figure 20

Model	Steam Pressure PSI [bar]	Minimum Supply Pipe Diameter	Steam Trap Size* Pounds Condensate/ Hour [Kilograms Con- densate/Hour]
025/030 Series	80-100 [5.3-6.9]	3/4 NPT	134 [60.8]
035 Series	80-100 [5.3-6.9]	3/4 NPT	166 [75.3]
T30 Series	80-100 [5.3-6.9]	3/4 NPT	110 [49.9]

* Based on 100 psi.


Table 36

Piping Recommendations

- Trap each steam coil individually. Always keep the trap clean and in good working condition.
- When tumble dryer is on the end of a line of equipment, extend header at least 4 feet [1.2 m] beyond tumble dryer. Install shut-off valve, union, check valve and bypass trap at end of line. If gravity return to boiler, omit trap.
- Insulate steam supply and return lines for safety of operator and safety while servicing tumble dryer.

IMPORTANT: Steam trap must be installed a minimum of 18 inches [460 mm] recommended below the steam coil outlet connections.

4. Install a shut-off valve to each steam trap.
5. Connect to the condensate return lines.
6. For steam solenoid valve wiring connections, refer to Wiring Diagram supplied with tumble dryer.

	WARNING
<p>All system components must have a 125 psig [8.6 bar] working pressure. Shut-off valves must be installed upstream of the steam solenoid valve and downstream of each steam trap so components can be isolated for maintenance or emergency purposes. All components (solenoid valve, traps) must be supported to minimize loads on the tumble dryer steam coil connections.</p>	
W701R1	


Installing Steam Trap and Making Condensate Return Connections

The steam trap must be installed and the coil outlet connections must be connected to the condensate return lines. The following steps outline the procedure for installing the steam trap and connecting the condensate return lines. Refer to *Figure 20* for typical installations.

1. Use flexible lines between steam inlet solenoid and steam coils, as well as outlet between steam coil and traps.
2. If necessary, install a strainer at the end of each flexible hose.
3. Install a steam trap to each strainer.

Adjustments

Adjustments

	WARNING
<p>To reduce the risk of electric shock, fire, explosion, serious injury or death:</p> <ul style="list-style-type: none"> • Disconnect electric power to the tumble dryer before servicing. • Close gas shut-off valve to gas tumble dryer before servicing. • Close steam valve to steam tumble dryer before servicing. • Never start the tumble dryer with any guards/panels removed. • Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded. 	
W002R1	

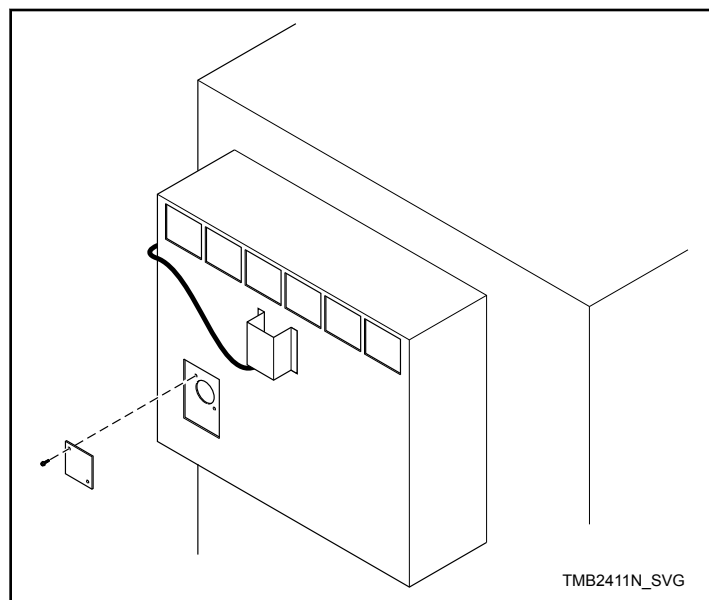


Figure 21

Gas Burner Air Shutter

NOTE: Air inlet shutters on the burner must be adjusted so sufficient air is metered into the system for proper combustion and maximum efficiency. Before adjusting the inlet shutters be sure that all lint is removed from lint compartments and lint screen.

Air shutter adjustments will vary from location to location and will depend on the vent system, number of units installed, make-up air and line gas pressure. Opening the shutter increases the amount of primary air supplied to the burner while closing the shutter decreases the primary air supply. Adjust air shutter as follows:

Refer to *Figure 21*.

1. Remove the burner inspection hole plate.

2. Start the tumble dryer and check the flame pattern. If the flame pattern is straight up, insufficient air is flowing through the tumble dryer. A flame pattern that flares to the right and left indicates no air is flowing through the tumble dryer. Correct air and gas mixture is indicated if the flame pattern is primarily blue, with small yellow tips, and bends to the right of the heater section. Too little air is indicated if the flame is yellow, lazy and smokey. (A whistling sound from burner could also be caused by an improper air shutter setting.)
3. To adjust the air shutter, loosen air inlet shutter adjusting screw.
4. Open or close air shutter as necessary to obtain proper flame intensity.
5. After air shutter is adjusted for proper flame, tighten air shutter adjusting screw securely.

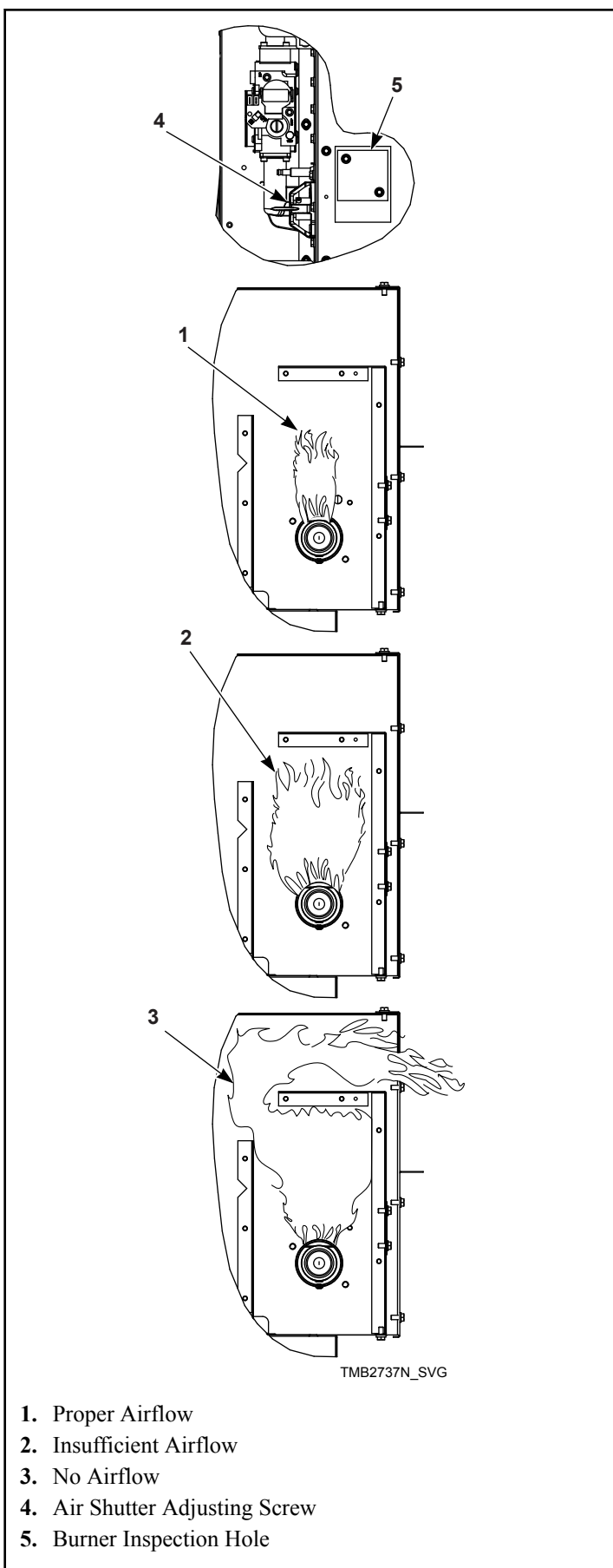


Figure 22

Airflow Switch

The airflow switch is set at the factory for proper operation. No adjustment necessary.

The airflow switch operation may be affected by shipping wire tie still in place, lack of make-up air, or an obstruction in the exhaust duct. These should be checked and the required corrective action taken.



WARNING

The tumble dryer must not be operated if the airflow switch does not operate properly. Faulty airflow switch operation may cause an explosive gas mixture to collect in the tumble dryer.

W072R1

IMPORTANT: Airflow switch vane must remain closed during operation. If it opens and closes during the drying cycle, this indicates insufficient airflow through the tumble dryer. If switch remains open, or pops open and closed during the cycle, the heating system will shut off. The cylinder and fan will continue to operate even though the airflow switch is indicating insufficient airflow.

NOTE: To properly mount the airflow switch bracket, or in case of a load not drying, the airflow switch bracket may need to be checked for proper alignment. Be sure the locator pins are securely in their respective holes before tightening the bracket mounting screws. This will assure proper alignment of the airflow switch arm in the channel of the airflow switch bracket and prevent binding of the arm.

Loading Door Switch

The door switch should be adjusted so the cylinder stops when door is opened 0.79 inches [20 mm]. This switch is a normally open switch and is closed by the switch actuator when the door is closed. If adjustment is required, refer to *Figure 23* and proceed as follows:

1. Close door and start tumble dryer, slowly open loading door. Cylinder and heat system should shut off when door is open 0.79 inches [20 mm].
2. Slowly close the loading door. When door is 0.79 inches [20 mm] or less from being fully closed, the door switch actuating bracket (located on the door) should depress the button and the switch arm with an audible “click.”
3. If the actuating bracket does not operate the switch at the appropriate door closure, bend the actuating switch arm in or out to achieve proper actuation.

Manual Resettable Thermostat

NOTE: The manual resettable thermostat is located as follows: 025-030-035-055 - inside access panel on rear of machine near blower motor. T30-T45 - on blower housing top surface behind rear guard.

If thermostat trips, contact a qualified service technician.

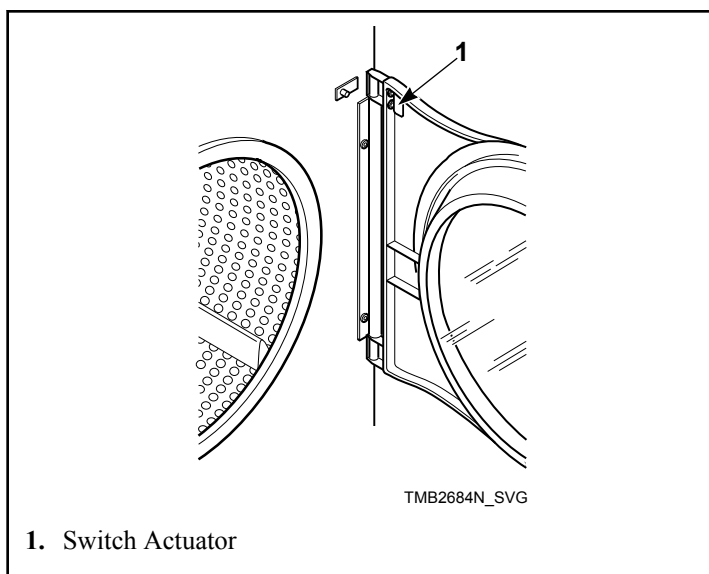


Figure 23

Door Strike

The door strike must be adjusted to have sufficient tension to hold loading door closed against force of the load tumbling against it. There is proper adjustment of pull force when 8 to 15 pounds [35.6 N – 66.7 N] is required to open door.

If adjustment is required, refer to *Figure 24* and proceed as follows:

1. To adjust, open door, loosen acorn nut, and turn door strike screw in or out as required.
2. Retighten acorn nut.

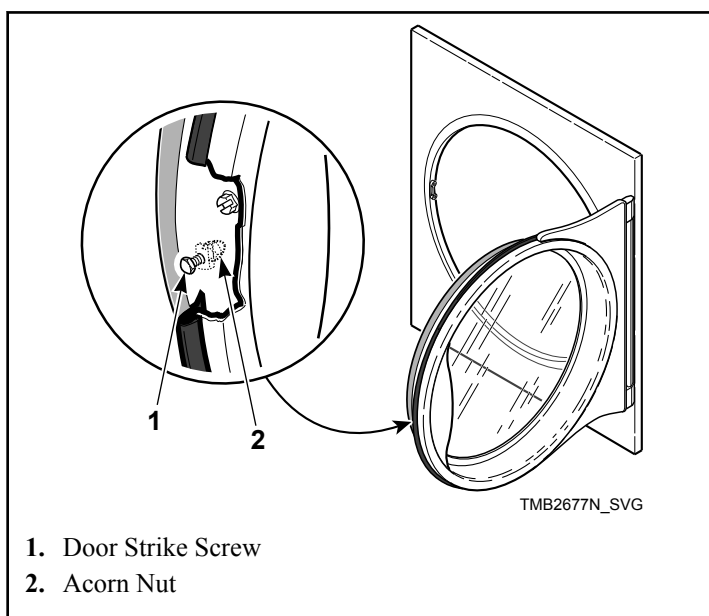


Figure 24

Before You Call for Service

Won't Start	Won't Heat	Clothes Not Dry	Possible Reason – Corrective Actions
•			Insert correct coin(s) or valid card if applicable.
•			Close the loading door tightly.
•			Close lint panel tightly.
•			Press the PUSH-TO-START or START pad/button.
•			Be sure power cord is plugged all the way into the electrical outlet and hard or direct wire connections are tight.
•			Check the main fuse and circuit breaker.
•			Check fuses located in the machine.
	•		Insufficient airflow.
	•		Gas shut-off valve in OFF position.
	•		Are controls properly set?
	•		Broken drive belt. Call the service person.
	•	•	Tumble dryer is in Cool Down Mode.
	•	•	Lint screen clogged. Clean lint screen.
	•	•	Exhaust duct to outside is blocked. Clean out.

Removing Tumble Dryer from Service

1. Turn off electrical supply external to machine.
2. Turn off gas supply external to machine.
3. Turn off manual gas shut-off valve on machine.
4. Turn off steam supply external to machine.
5. Remove all electric, gas and steam connections.

Disposal of Unit

This appliance is marked according to the European directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Refer to *Figure 25*. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Ensuring this product is disposed of correctly will help prevent potential negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact the local city office, household waste disposal service, or the source from which the product was purchased.

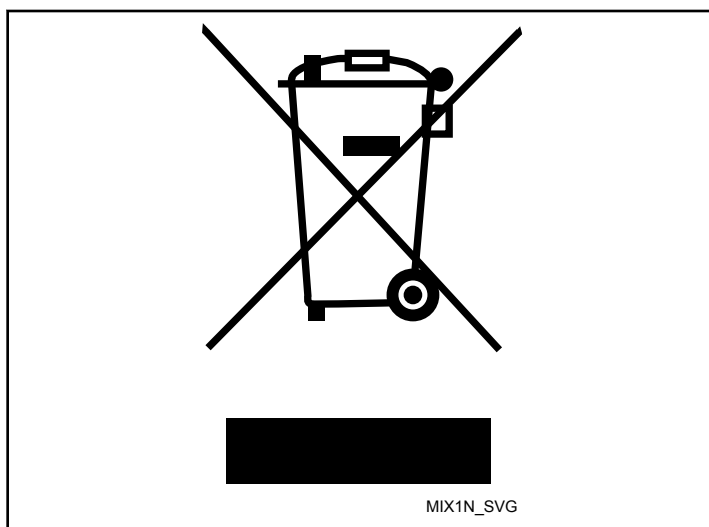


Figure 25