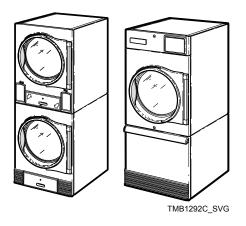
Tumble Dryers

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 6 in 13th Position Refer to Page 12 for Model Identification





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

- 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:
 - 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 recieved 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])	Polybromi- nated biphen- yls (PBB)	Polybromi- nated diphen- yl ethers (PBDE)
PCBs	X	О	0	0	О	О
Electromechanical Parts	0	О	0	О	0	О
Cables and Wires	0	О	О	О	О	О
Metal Parts	О	О	О	О	О	О
Plastic Parts	О	О	О	0	О	О
Batteries	О	О	О	0	О	О
Textile	О	О	0	0	0	О
Timing Belts	О	О	0	0	0	О
Insulation	О	О	О	0	0	О
Glass	О	О	0	0	0	О
Display	О	О	0	О	О	О

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

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

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, water-proof 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 IN-STRUCTIONS 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.**

30 Series	(30 lb / 13 Kg)						
BA030E	BT030N	HA030L	HU030E	NH030N	PK030E	SJ030E	UG030N
BA030L	BU030E	HA030N	HU030F	NJ030E	PK030L	SJ030N	UH030E
BA030N	BU030F	HG030D	HU030L	NJ030N	PK030N	SK030E	UH030L
BG030D	BU030N	HG030E	HU030N	NK030E	PR030E	SK030L	UH030N
BG030E	BU030R	HG030L	HU030R	NK030L	PT030E	SK030N	UJ030D
BG030L	GA030E	HG030N	KT030E	NK030N	PT030L	SL030E	UJ030E
BG030N	GA030L	НН030Е	KT030L	NR030E	PT030N	SL030L	UJ030N
ВН030Е	GA030N	HH030L	KT030N	NT030E	PU030E	SR030E	UK030E
BH030L	GG030E	HH030N	MG030D	NT030N	PU030F	ST030D	UK030L
BH030N	GG030L	HJ030D	MG030E	NU030E	PU030N	ST030E	UK030N
BJ030D	GG030N	НЈ030Е	MG030L	NU030N	PU030R	ST030L	UL030E
ВЈ030Е	GH030E	HJ030N	MG030N	PA030E	SA030E	ST030N	UL030L
BJ030N	GH030L	HK030E	MJ030D	PA030L	SA030L	SU030E	UR030E
BK030E	GH030N	HK030L	MJ030E	PA030N	SA030N	SU030F	UT030D
BK030L	GJ030E	HK030N	MJ030N	PG030E	SG030D	SU030N	UT030E
BK030N	GJ030N	HL030E	NA030E	PG030L	SG030E	SU030R	UT030L
BL030E	GK030E	HL030L	NA030L	PG030N	SG030L	UA030E	UT030N
BL030L	GK030L	HR030E	NA030N	PH030E	SG030N	UA030L	UU030E
BR030E	GK030N	HT030D	NG030E	PH030L	SH030E	UA030N	UU030F
BT030D	GU030E	HT030E	NG030L	PH030N	SH030L	UG030D	UU030N
BT030E	GU030N	HT030L	NG030N	PJ030E	SH030N	UG030E	UU030R
BT030L	HA030E	HT030N	NH030E	PJ030N	SJ030D	UG030L	

T30 Series	(30/30 lb / 13/1	3 Kg)					
BAT30E	BTT30N	HAT30L	HUT30E	NHT30N	PKT30E	SJT30E	UGT30N
BAT30L	BUT30E	HAT30N	HUT30F	NJT30E	PKT30L	SJT30N	UHT30E
BAT30N	BUT30F	HGT30D	HUT30L	NJT30N	PKT30N	SKT30E	UHT30L

Table continues...

T30 Serie	es (30/30 lb / 1	3/13 Kg)					
BGT30D	BUT30N	HGT30E	HUT30N	NKT30E	PRT30E	SKT30L	UHT30N
BGT30E	BUT30R	HGT30L	HUT30R	NKT30L	PTT30E	SKT30N	UJT30D
BGT30L	GAT30E	HGT30N	KTT30E	NKT30N	PTT30L	SLT30E	UJT30E
BGT30N	GAT30L	ННТ30Е	KTT30L	NRT30E	PTT30N	SLT30L	UJT30N
BHT30E	GAT30N	HHT30L	KTT30N	NTT30E	PUT30E	SRT30E	UKT30E
BHT30L	GGT30E	HHT30N	MGT30D	NTT30N	PUT30F	STT30D	UKT30L
BHT30N	GGT30L	HJT30D	MGT30E	NUT30E	PUT30N	STT30E	UKT30N
BJT30D	GGT30N	НЈТ30Е	MGT30L	NUT30N	PUT30R	STT30L	ULT30E
BJT30E	GHT30E	HJT30N	MGT30N	PAT30E	SAT30E	STT30N	ULT30L
BJT30N	GHT30L	HKT30E	MJT30D	PAT30L	SAT30L	SUT30E	URT30E
BKT30E	GHT30N	HKT30L	МЈТ30Е	PAT30N	SAT30N	SUT30F	UTT30D
BKT30L	GJT30E	HKT30N	MJT30N	PGT30E	SGT30D	SUT30N	UTT30E
BKT30N	GJT30N	HLT30E	NAT30E	PGT30L	SGT30E	SUT30R	UTT30L
BLT30E	GKT30E	HLT30L	NAT30L	PGT30N	SGT30L	UAT30E	UTT30N
BLT30L	GKT30L	HRT30E	NAT30N	РНТ30Е	SGT30N	UAT30L	UUT30E
BRT30E	GKT30N	HTT30D	NGT30E	PHT30L	SHT30E	UAT30N	UUT30F
BTT30D	GUT30E	НТТ30Е	NGT30L	PHT30N	SHT30L	UGT30D	UUT30N
BTT30E	GUT30N	HTT30L	NGT30N	РЈТ30Е	SHT30N	UGT30E	UUT30R
BTT30L	HAT30E	HTT30N	NHT30E	PJT30N	SJT30D	UGT30L	

35 Series	s (35 lb / 16 Kg)					
BA035E	BU035E	HA035M	HU035M	NJ035E	PJ035N	SJ035D	UG035L
BA035L	BU035F	HA035N	HU035N	NJ035M	PK035E	SJ035E	UG035M
BA035M	BU035M	HG035D	HU035R	NJ035N	PK035L	SJ035M	UG035N
BA035N	BU035N	HG035E	KT035E	NK035E	PK035N	SJ035N	UH035E
BG035D	BU035R	HG035L	KT035M	NK035L	PR035E	SK035E	UH035M
BG035E	GA035E	HG035M	KT035N	NK035N	PT035E	SK035L	UH035N
BG035L	GA035L	HG035N	MG035D	NR035E	PT035L	SK035N	UJ035D
BG035M	GA035M	HH035E	MG035E	NT035E	PT035M	SL035E	UJ035E
BG035N	GA035N	HH035M	MG035L	NT035M	PT035N	SL035L	UJ035M
BH035E	GG035E	HH035N	MG035M	NT035N	PU035E	SR035E	UJ035N
BH035M	GG035L	HJ035D	MG035N	NU035E	PU035F	ST035D	UK035E

Table continues...

35 Series	s (35 lb / 16 Kg)					
BH035N	GG035M	НЈ035Е	MJ035D	NU035M	PU035M	ST035E	UK035L
BJ035D	GG035N	HJ035M	MJ035E	NU035N	PU035N	ST035L	UK035N
BJ035E	GH035E	HJ035N	MJ035M	PA035E	PU035R	ST035M	UL035E
BJ035M	GH035M	HK035E	MJ035N	PA035L	SA035E	ST035N	UL035L
BJ035N	GH035N	HK035L	NA035E	PA035M	SA035L	SU035E	UR035E
BK035E	GJ035E	HK035N	NA035L	PA035N	SA035M	SU035F	UT035D
BK035L	GJ035M	HL035E	NA035M	PG035E	SA035N	SU035M	UT035E
BK035N	GJ035N	HL035L	NA035N	PG035L	SG035D	SU035N	UT035L
BL035E	GK035E	HR035E	NG035E	PG035M	SG035E	SU035R	UT035M
BL035L	GK035L	HT035D	NG035L	PG035N	SG035L	UA035E	UT035N
BR035E	GK035N	HT035E	NG035M	PH035E	SG035M	UA035L	UU035E
BT035D	GU035E	HT035L	NG035N	PH035M	SG035N	UA035M	UU035F
BT035E	GU035M	HT035M	NH035E	PH035N	SH035E	UA035N	UU035M
BT035L	GU035N	HT035N	NH035M	РЈ035Е	SH035M	UG035D	UU035N
BT035M	HA035E	HU035E	NH035N	PJ035M	SH035N	UG035E	UU035R
BT035N	HA035L	HU035F					

T45 Serie	es (45/45 lb / 20	0/20 Kg)					
BAT45L	BUT45N	HGT45D	HUT45R	NJT45N	PKT45N	SJT45N	UGT45N
BAT45N	BUT45R	HGT45L	KTT45L	NKT45L	PTT45L	SKT45L	UHT45L
BGT45D	GAT45L	HGT45N	KTT45N	NKT45N	PTT45N	SKT45N	UHT45N
BGT45L	GAT45N	HHT45L	MGT45D	NTT45N	PUT45N	SLT45L	UJT45D
BGT45N	GGT45L	HHT45N	MGT45L	NUT45N	PUT45R	STT45D	UJT45N
BHT45N	GGT45N	HJT45D	MGT45N	PAT45L	SAT45L	STT45L	UKT45L
BJT45D	GHT45L	HJT45N	MJT45D	PAT45N	SAT45N	STT45N	UKT45N
BJT45N	GHT45N	HKT45L	MJT45N	PGT45L	SGT45D	SUT45N	ULT45L
BKT45L	GJT45N	HKT45N	NAT45L	PGT45N	SGT45L	SUT45R	UTT45D
BKT45N	GKT45L	HLT45L	NAT45N	PHT45L	SGT45N	UAT45L	UTT45L
BLT45L	GKT45N	HTT45D	NGT45L	PHT45N	SHT45L	UAT45N	UTT45N
BTT45D	GUT45N	HTT45L	NGT45N	PJT45N	SHT45N	UGT45D	UUT45N
BTT45L	HAT45L	HTT45N	NHT45N	PKT45L	SJT45D	UGT45L	UUT45R
BTT45N	HAT45N	HUT45N					

55 Series	(55 lb / 24 Kg)					
BA055E	BT055N	HA055L	HT055S	NJ055N	PR055S	SK055L	UH055E
BA055L	BU055E	HA055N	HU055E	NK055E	PT055E	SK055N	UH055L
BA055N	BU055F	HA055S	HU055F	NK055L	PT055L	SL055E	UH055N
BA055S	BU055N	HG055D	HU055N	NK055N	PT055N	SL055L	UJ055D
BG055D	BU055R	HG055E	HU055R	NR055E	PT055S	SL055S	UJ055E
BG055E	BU055S	HG055L	HU055S	NT055E	PU055E	SR055E	UJ055N
BG055L	GA055E	HG055N	KT055E	NT055N	PU055F	SR055S	UJ055S
BG055N	GA055L	HH055E	KT055L	NU055E	PU055N	ST055D	UK055E
BH055E	GA055N	HH055L	KT055N	NU055N	PU055R	ST055E	UK055L
BH055L	GA055S	HH055N	KT055S	PA055E	PU055S	ST055L	UK055N
BH055N	GG055E	HJ055D	MG055D	PA055L	SA055E	ST055N	UL055E
BJ055D	GG055L	НЈ055Е	MG055E	PA055N	SA055L	ST055S	UL055L
ВЈ055Е	GG055N	HJ055N	MG055L	PA055S	SA055N	SU055E	UL055S
BJ055N	GH055E	HJ055S	MG055N	PG055E	SA055S	SU055F	UR055E
BJ055S	GH055L	HK055E	MJ055D	PG055L	SG055D	SU055N	UR055S
BK055E	GH055N	HK055L	MJ055E	PG055N	SG055E	SU055R	UT055D
BK055L	GJ055E	HK055N	MJ055N	PH055E	SG055L	SU055S	UT055E
BK055N	GJ055N	HL055E	NA055E	PH055L	SG055N	UA055E	UT055L
BL055E	GJ055S	HL055L	NA055L	PH055N	SH055E	UA055L	UT055N
BL055L	GK055E	HL055S	NA055N	PJ055E	SH055L	UA055N	UT055S
BL055S	GK055L	HR055E	NG055E	PJ055N	SH055N	UA055S	UU055E
BR055E	GK055N	HR055S	NG055L	PJ055S	SJ055D	UG055D	UU055F
BR055S	GU055E	HT055D	NG055N	PK055E	SJ055E	UG055E	UU055N
BT055D	GU055N	HT055E	NH055E	PK055L	SJ055N	UG055L	UU055R
BT055E	GU055S	HT055L	NH055N	PK055N	SJ055S	UG055N	UU055S
BT055L	HA055E	HT055N	NJ055E	PR055E	SK055E		

Heater Digit (Position 6)

D - Liquid Petroleum (L.P.) Gas, Japan

E - Electric

F - Reduced Electric (Eco Line)

L - L.P. Gas

Table continues...

Heater Digit (Position 6)

- 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



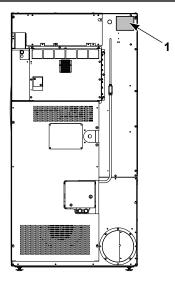
Please include a copy of your bill of sale and any service receipts you have.

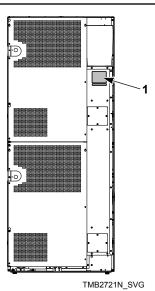


WARNING

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.

W329





NOTE: An alternate serial plate is located on the front of the machine on the inside of the loading door hinge.

1. Serial Plate

Figure 1

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

Specifications and Dimensions

Specifications and Dimensions

Refer to machine serial plate for additional specifications.

Specifications	030 Series	035 Series	055 Series
Weights and Shipping Inform	ation	1	1
Net Weight (approximate):	Gas 335 [150]	Gas 365 [165]	Gas 440 [200]
Pounds [kg]	Electric 340 [155]	Electric 370 [170]	Steam 460 [210]
			Electric 425 [195]
Standard Packaging Weight:	Gas 370 [165]	Gas 405 [185]	Gas 480 [215]
Pounds [kg]	Electric 375 [170]	Electric 405 [185]	Steam 465 [210]
			Electric 465 [210]
Slat Crate Packaging Weight:	Gas 500 [225]	Gas 535 [240]	Gas 660 [300]
Pounds [kg]	Electric 505 [230]	Electric 535 [240]	Electric 645 [295]
Standard Packaging Shipping	30.0 x 49.0 x 67.6 [760 x	33.0 x 49.0 x 67.6 [840 x	35.5 x 57.0 x 70.5 [900 x
Dimensions: Inch [mm]	1,240 x 1,720]	1,240 x 1,720]	1,450 x 1,790]
Standard Packaging Shipping Volume: ft ³ [m ³]	58 [1.6]	63 [1.8]	83 [2.4]
Slat Crate Packaging Shipping Dimensions: Inch [mm]	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]	90 [2.5]	98 [2.8]	121 [3.4]
Cylinder Size		l	ļ.
Cylinder Size:	26.5 x 30.0 [673 x 762]	30.0 x 30.0 [762 x 762]	33.0 x 35.0 [838 x 889]
Inch [mm]			
Cylinder Capacity (dry weight):	30 [13]	35 [16]	55 [24]
Pounds [kg]			
Cylinder Volume:	9.6 [270]	12.3 [350]	17.3 [490]
feet ³ [Liter]			
Operational Information		1	1
Drive Motor: Horsepower [kW]	0.5 [0.4]	0.5 [0.4]	0.5 [0.4]
Fan Motor: Horsepower [kW]	0.5 [0.4]	0.5 [0.4]	0.5 [0.4]

Table 1 continues...

Specifications	030 Series	035 Series	055 Series
Air Outlet Diameter: Inch	Standard Line	Standard Line	Standard Line
[mm]	6.0 [150]	8.0 [200]	8.0 [200]
	Eco Line	Eco Line	Eco Line
	6.0 [150]	6.0 [150]	8.0 [200]
Maximum Airflow: C.F.M.	Standard Line	Standard Line	Standard Line
[l/sec]	500 [240]	600 [280]	700 [330]
	Eco Line	Eco Line	Eco Line
	500 [240]	550 [260]	700 [330]
Maximum Static Back Pres-	Standard Line	Standard Line	Standard Line
sure: Inch W.C. [mbar, kPa]	0.80 [2.0, 0.20]	0.60 [1.5, 0.15]	0.60 [1.5, 0.15]
	Eco Line	Eco Line	Eco Line
	0.80 [2.0, 0.20]	0.90 [2.2, 0.22]	0.60 [1.5, 0.15]
Minimum Static Back Pressure: Inch W.C. [mbar, kPa]			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]
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	61 dBA	61 dBA
Door Opening Information			-
Door Opening Diameter: Inch [mm]	22.7 [576]	22.7 [576]	26.9 [684]
Door Hinge Side	Right (Reversible)	Right (Reversible)	Right (Reversible)
Door Maximum Open Angle: Degrees	180	180	180
Gas Models			
Gas Connection	1/2 NPT	1/2 NPT	1/2 NPT
Gas Burner Rating: BTU/hr.	Standard Line	Standard Line	Standard Line
[kW, Mj/hr.]	73,000 [21.4, 77.0]	90,000 [26.4, 95.0]	112,000 [32.8, 118]
	Eco Line	Eco Line	Eco Line
	55,000 [16.1, 58.0]	64,000 [18.8, 67.5]	105,000 [30.8, 111]

Table 1 continues...

Specifications	cifications 030 Series 035 Series		055 Series		
Electric Models					
Heating Element Rating:	Standard Line - 21	Standard Line - 24	Standard Line - 27		
Kilowatts	Eco Line - 12	Medium - 18	Eco Line - 18		
		Eco Line - 12			
		Low - 9			
Steam Models					
Steam Connection (Inlet and Outlet)	Not Applicable	Not Applicable	3/4 NPT		
Steam Coil Rating at 125 psig: BTU/hr. [kg/hr.]	Not Applicable	Not Applicable	130,000 [62.8]		
(recommended operating pressure 80-125 psig)					

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):	Gas 580 [265]	690 [315]			
Pounds [kg]	Electric 605 [275]				
Standard Packaging Weight: Pounds [kg]	Gas 615 [280]	735 [335]			
	Electric 640 [290]				
Slat Crate Packaging Weight: Pounds	Gas 745 [340]	915 [415]			
[kg]	Electric 770 [350]				
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					

Table 2 continues...

Specifications	T30 Series	T45 Series
Cylinder Size:	30.0 x 26.0 [762 x 660]	33.0 x 30.0 [838 x 762]
Inch [mm]		
Cylinder Capacity (dry weight):	2 x 30 [2 x 13]	2 x 45 [2 x 20]
Pounds [kg]		
Cylinder Volume:	2 x 10.6 [2 x 300]	2 x 14.8 [2 x 420]
feet ³ [Liter]		
Operational Information		
Drive Motor (per pocket): Horsepower [kW]	0.5 [0.4]	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)	Standard Line
	8.0 [200]	10.0 [250]
	Eco Line (round)	Eco Line
	6.0 [150]	10.0 [250]
Maximum Airflow (total machine):	Standard Line	Standard Line
C.F.M. [1/sec]	800 [380]	1,200 [570]
	Eco Line	Eco Line
	660 [310]	1,200 [570]
Maximum Static Back Pressure (total machine):	0.90 [2.2, 0.22]	0.90 [2.2, 0.22]
Inch W.C. [mbar, kPa]		
Minimum Static Back Pressure (total machine):	0.0 [0.0, 0.0]	0.0 [0.0, 0.0]
Inch W.C. [mbar, kPa]		
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]
		1

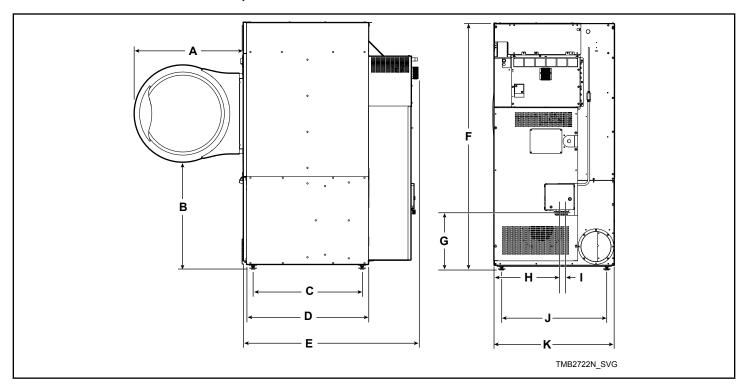
Table 2 continues...

Specifications	T30 Series	T45 Series	
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):	Standard Line	Standard Line	
BTU/hr. [kW, Mj/hr.]	73,000 [21.4, 77.0]	95,000 [27.8, 100.2]	
	Eco Line	Eco Line	
	55,000 [16.1, 58.0]	80,000 [23.4, 84.4]	
Gas Burner Rating (total machine):	Standard Line	Standard Line	
BTU/hr. [kW, Mj/hr.]	146,000 [42.8, 154]	190,000 [55.6, 200.4]	
	Eco Line	Eco Line	
	110,000 [32.2, 116]	160,000 [46.8, 169]	
Electric Models			
Heating Element Rating (per pocket):	Standard Line - 21	Not Applicable	
Kilowatts	Eco Line - 12		

Table 2

NOTE: "A" market gas machines are shipped with a BSPT tee fitting mounted on machine. All other IEC machines are shipped with an adapter to convert the gas connection threads to BSPT (from NPT).

Cabinet Dimensions - 030, 035 and 055 Series



Machine Dimensions, in. [mm]					
Models	A	В	С	D	E
030 Series	26.3 [670]	27.5 [700]	28.4 [720]	31.8 [810]	45.5 [1,155]
035 Series	28.0 [710]	27.5 [700]	28.4 [720]	31.8 [810]	45.5 [1,155]
055 Series	31.9 [810]	26.3 [670]	33.4 [850]	36.8 [935]	53.1 [1,350]

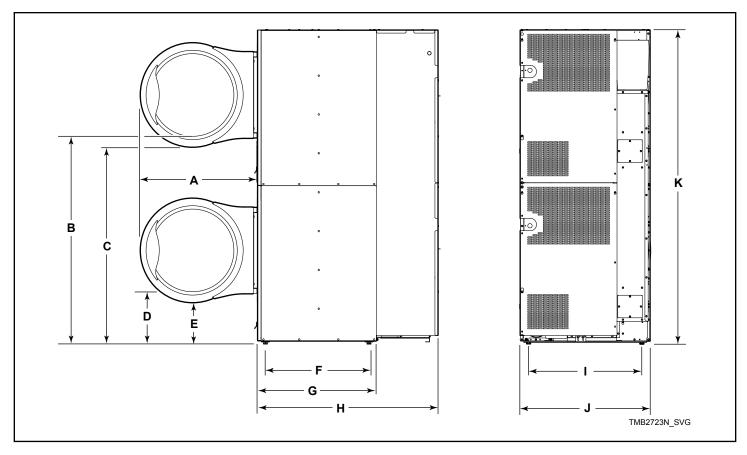
Table 3

Models	F	G*	H*	 *	J	K
030 Series	63.9 [1,625]	14.6 [370]	16.0 [405]	1.5 [40]	24.6 [625]	27.9 [710]
035 Series	63.9 [1,625]	14.6 [370]	17.1 [435]	1.5 [40]	27.4 [695]	31.5 [800]
055 Series	66.7 [1,700]	15.6 [395]	20.0 [510]	1.5 [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



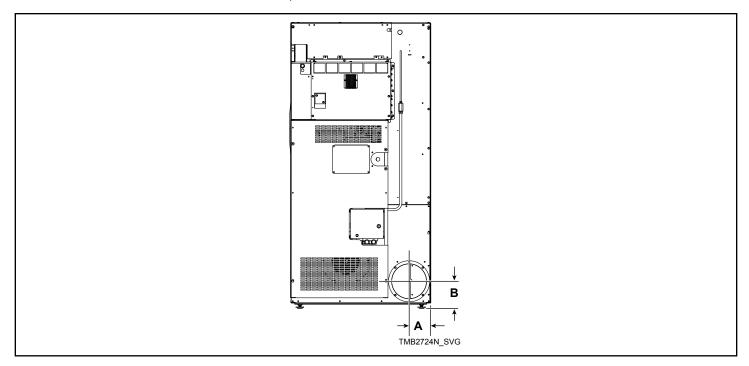
Machine Dimensions, in. [mm]					
Models A B C D E					
T30 Series	28.0 [710]	49.0 [1,245]	48.3 [1,225]	11.4 [290]	10.7 [270]
T45 Series	31.9 [810]	50.4 [1,280]	49.3 [1,250]	10.3 [260]	9.3 [235]

Table 4

Models	F	G	н	ı	J	K
T30 Series	25.0 [635]	28.7 [730]	43.6 [1,100]	27.4 [695]	31.5 [800]	76.3 [1,940]
T45 Series	29.0 [735]	32.7 [830]	49.5 [1,260]	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.

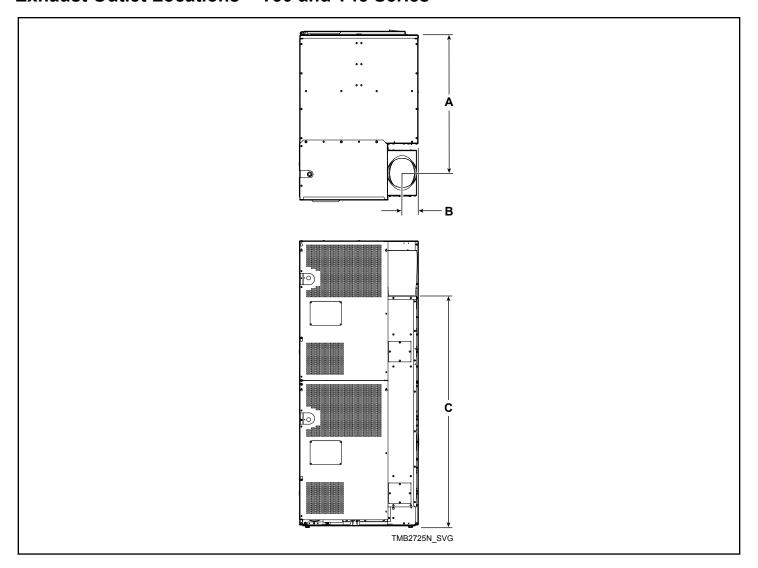
Exhaust Outlet Locations - 030, 035 and 055 Series



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

Table 5

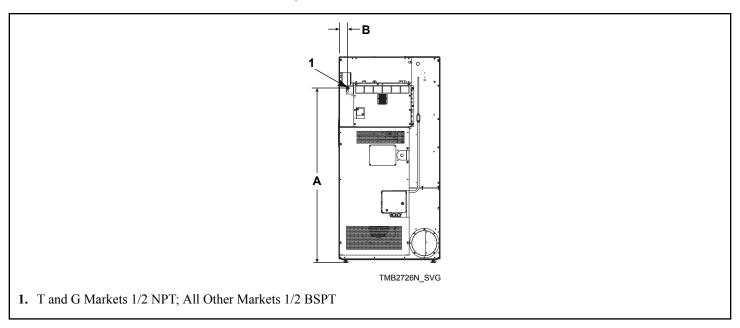
Exhaust Outlet Locations – T30 and T45 Series



	Rear Exhaust Dimensions, in. [mm]				
Models	Diameter		A	В	С
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]
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 – 030, 035 and 055 Series



 Gas Connection, in. [mm]

 Models
 A
 B

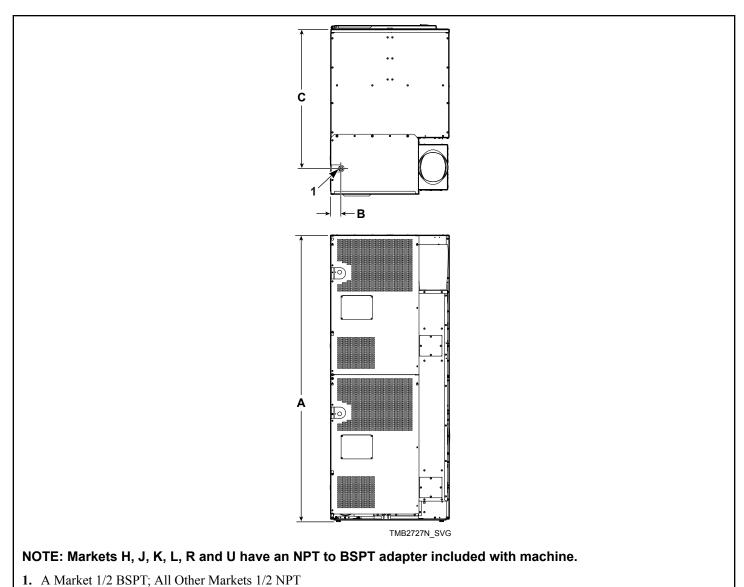
 030 Series
 54.2 [1,375]
 1.5 [40]

 035 Series
 54.2 [1,375]
 2.6 [65]

 055 Series
 55.2 [1,400]
 2.5 [65]

Table 7

Gas Connection Locations - T30 and T45 Series



	Gas Connection, in	Gas Connection, in. [mm]			
Models	A	В	С		
T30 Series	75.5 [1,920]	2.1 [55]	36.4 [925]		
T45 Series	79.0 [2,005]	4.5 [115]	42.4 [1,075]		

Table 8

Electrical Connection Locations - 030, 035 and 055 Series

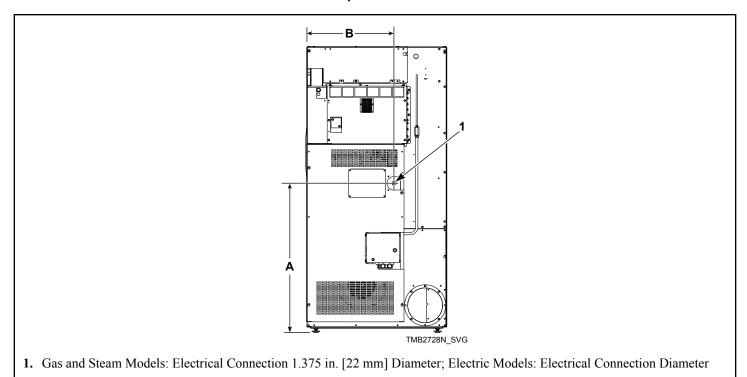
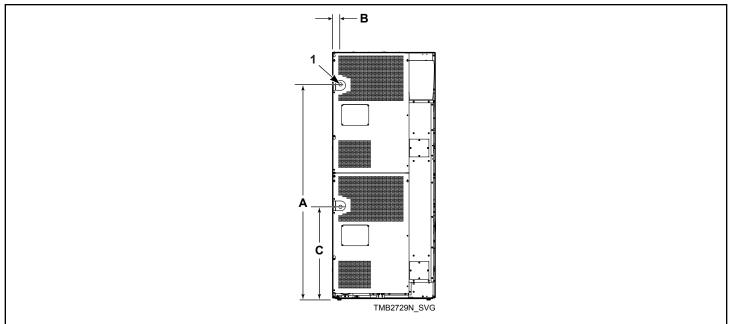


Table 9

Electrical Connection Locations – T30 and T45 Series

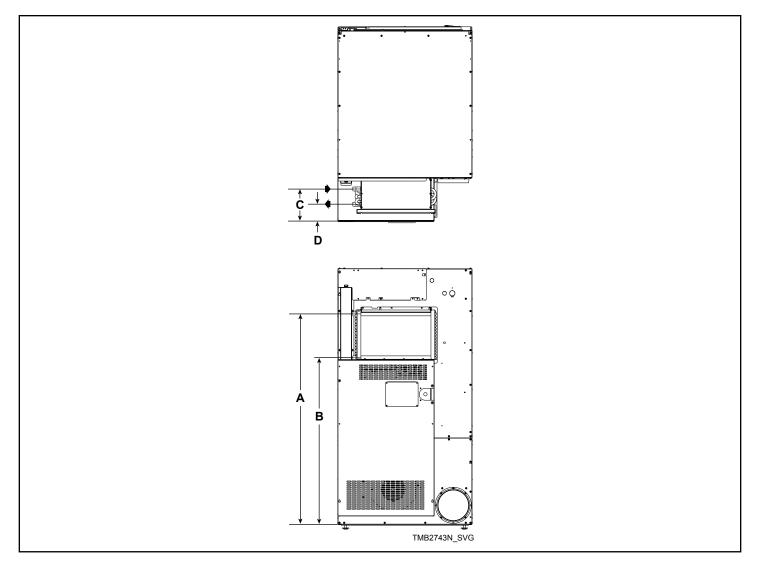


- 1. Gas Models: Electrical Connection 0.875 in. [22 mm] Diameter; Electric Models: Electrical Connection 1.375 in. [35 mm] Diameter
- 2. Electrical Connection 1.375 in. [35 mm] Diameter

Models	Electric Service Dimensions, in. [mm]			
	A	В	С	
T30 Gas Series	66.2 [1,680]	2.3 [60]	Not Applicable	
T30 Electric Series	66.2 [1,680]	2.3 [60]	28.6 [725]	
T45 Series	68.7 [1,745]	2.3 [60]	Not Applicable	

Table 10

Steam Connection Locations – 055 Series



	Inlet Dimensions, in. [mm]		Outlet Dimensions, in. [mm]	
Models	A	С	В	D
055 Series	54.0 [1,370]	8.25 [210]	42.75 [1,085]	4.25 [110]

Table 11

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 *Figure 1* 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*.

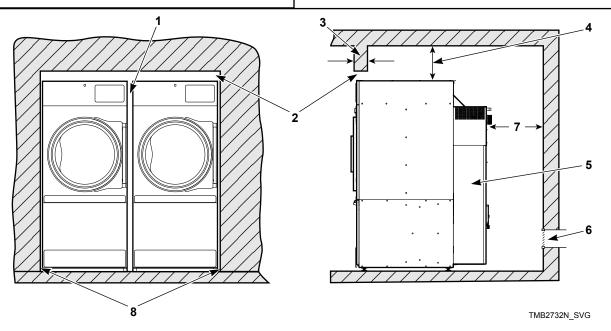
IMPORTANT: The machine must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the machine, in such a way that a full opening of the machine door is restricted.



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. 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.

W770R1



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. 18 in. [460 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.

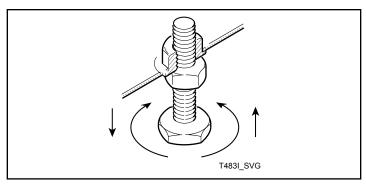


Figure 3

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.



CAUTION

The stacked tumble dryer has a 5th leveling leg on the blower housing. It is very important to properly adjust this leg. Unit is back heavy and could rock or tip.

W250R1

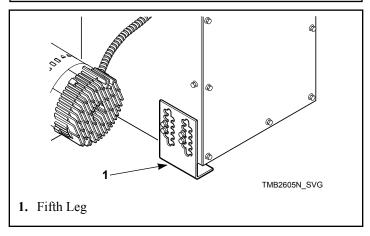


Figure 4

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.

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 40F° [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 40F° [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



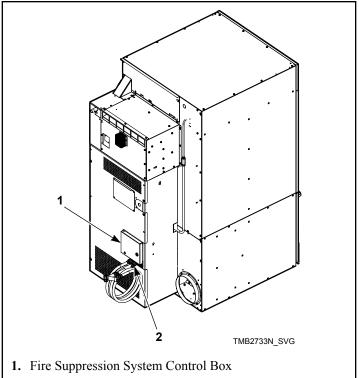
WARNING

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.

- 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.

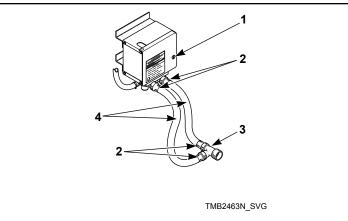


2. Water Solenoid Valve

Figure 5

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*.

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; 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

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.

W690R1

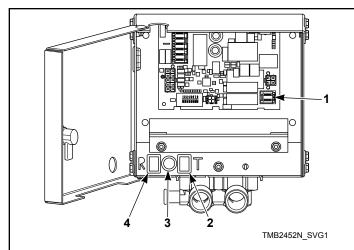
No independent external power source or supply connection is necessary. Power to operate the fire suppression system is from the tumble dryer main power supply.

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

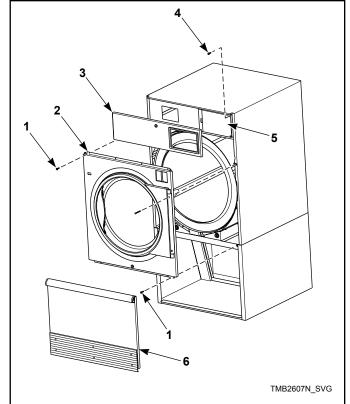
Figure 7

To Reverse the Loading Door (030, 035 and 055 Series)

The tumble dryer is delivered with a right hinged door, but the door can be changed to a left hinged position.

- 1. Disconnect power supply to tumble dryer.
- 2. Unlock and remove control panel. Remove two control assembly mounting screws from right side. Swing open control to access upper flange right guide lug assembly. Refer to *Figure 8*.
- 3. Remove lint panel.

IMPORTANT: Support door and hinge assembly securely to prevent it from dropping once side screws are removed from door hinge lug.



- 1. Front Panel Screw
- 2. Front Panel
- 3. Control/Access Panel
- 4. Control Assembly Screw
- 5. Control Assembly
- 6. Lint Panel

Figure 8

- 4. Remove four front panel screws. Refer to *Figure 8*. Keep door hinge cams in place on door hinge lug. Pull lug and door assembly off as one piece. Refer to *Figure 9*.
- 5. Remove remaining front panel screws. Refer to *Figure 8*. Disconnect door switch harness from switch. Take off front panel. Refer to *Figure 9*.
- Exchange switch and plug locations. Depress tabs with an adjustable pliers to remove plug and switch from front panel.
 Reinstall switch, orienting button toward center of machine.
 Reinstall plug in switch's previous location. Refer to Figure
 o

IMPORTANT: Door switch must be oriented correctly in front panel receiving hole or tumble dryer will not operate.

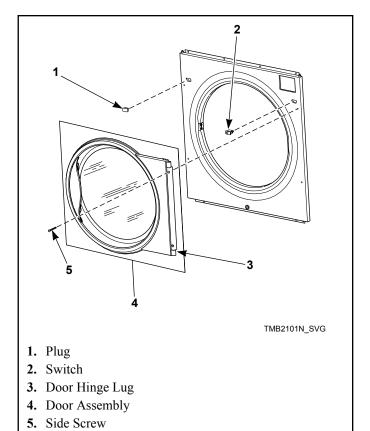
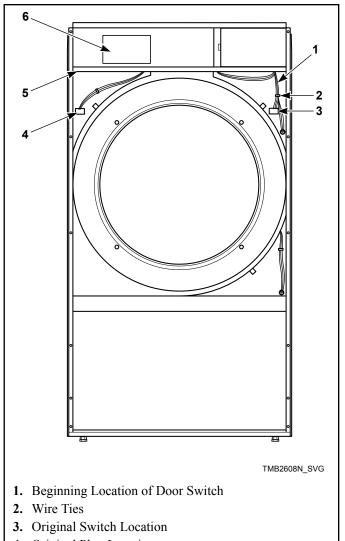


Figure 9

- 7. Cut wire ties to remove door switch harness bundle. Be careful not to damage harness wires. Refer to *Figure 10*.
- 8. Reroute door switch harness up through the hole in the right side of the top panel. Use the panel cutout opening to then put harness down through the hole in the left side of the top panel and into the upper left corner of the cylinder enclosure.



- 4. Original Plug Location
- 5. Top Panel
- 6. Panel Cutout

Figure 10

- 9. Place front panel on machine, loosely attach four bottom screws. Connect door switch harness to switch in new location. Install door assembly and four front panel side screws loosely. Refer to *Figure 11*.
- 10. Check lint panel fit, adjusting front panel up or down as required. Tighten four front panel side screws to maintain position of front panel for proper lint panel clearance.
- 11. Remove lint panel. Fully tighten bottom screws on front panel.
- 12. Reinstall top screws and guide lugs.
- 13. Adjust door catch if necessary to allow 8 15 pounds [35.6N 66.7N] pull at center of handle.
- 14. Reinstall control assembly using mounting screws.
- 15. Reinstall control panel and lint panel.

IMPORTANT: Restore power to tumble dryer and test for proper operation of loading door switch. Refer to *Loading Door Switch* section for adjustment procedure. Tumble dryer should not start with door open; an operating tumble dryer should stop when door is opened.

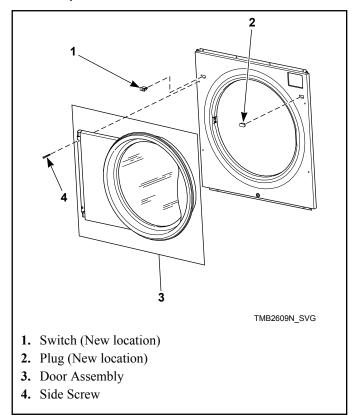


Figure 11

NOTE: If machine is converted back to right hand hinge operation, the door switch harness must be rerouted. Harness must be rebundled with the lint panel switch harness. Wire ties must be used to secure harnesses. Wire ties (Part No. 55881) can be ordered from Genuine Parts.

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.
- 3. Pull out emergency stop button, if applicable.
- 4. Turn on electrical supply to tumble dryer.
- 5. Open the supply valve for gas or steam heated tumble dryers.
- 6. After performing the previous checks, start the tumble dryer by pressing START. (Refer to the Operating section for detailed instructions.) Release the start button and 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 Tumble Dryers:** Start the tumble dryer 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 lockout and the valve will no longer open until the control is reset. On North America and OPL IEC models, the electronic ignition system is automatically reset. On Australia and vend 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 tumble dryer continues to have heater errors and/or prompts for the ignition control to be reset, remove the tumble dryer 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

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.

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:
North America	1	23	10 (attempts to ignite 3 times)	Automatically resets.
Australia and IEC	23	23	10	Press start key with access panel open.

If the tumble dryer does not meet ANY of the listed requirements, remove tumble dryer from use. Refer to *Removing Tumble Dryer* 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

Risk of fire. A clothes dryer produces combustible lint. Exhaust outdoors. Consult technical instructions for detailed exhaust specifications.

W933



WARNING

To reduce the risk of fire, DO NOT use plastic or thin foil ducting to exhaust the tumble dryer.

W773R1



WARNING

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.

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 [cm 2]

Model	Opening
Standard 030 Series	110 [710]
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

To reduce the risk of fire due to increased static pressure, we do not recommend installation of inline secondary lint filters or lint collectors. If secondary systems are mandated, frequently clean the system to assure safe operation.

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

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.

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 13*.

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.

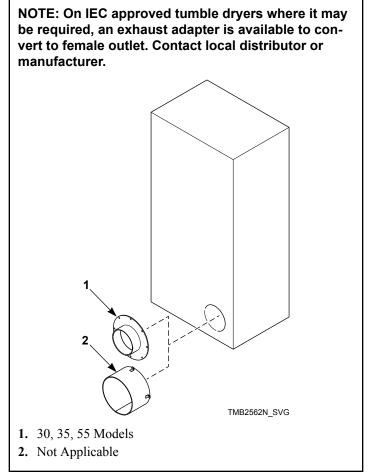
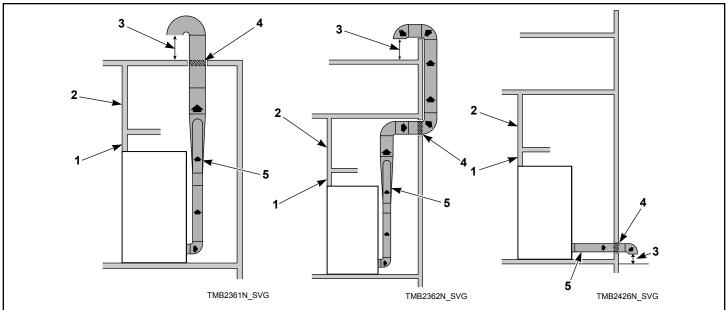


Figure 12



- 1. Removable strip of panel in framing wall to permit removal of tumble dryer from framing wall
- 2. Partition or bulkhead
- 3. Minimum distance between exhaust opening and roof, ground or other obstruction, 36 in. [910 mm]
- 4. 2.0 in. [50 mm] minimum clearance on both sides of duct
- 5. Exhaust airflow maximum length of rigid duct 14 ft. [4.3 m] or 7.9 ft. [2.4 m] of flexible metal duct

Figure 13

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 12* 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 12 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 12

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. $[4.3 \text{ m}] + (2) 90^{\circ}$ 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 15* and *Figure 16*. This illustration indicates mini-

mum 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 13* 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 14*. 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.

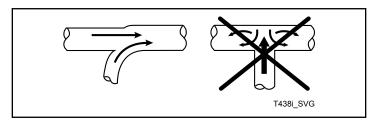


Figure 14

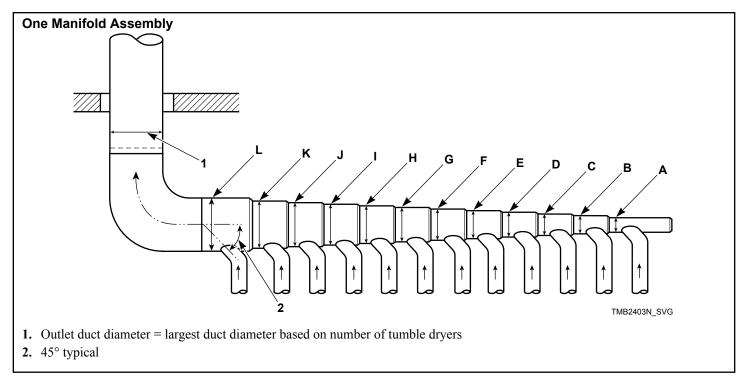


Figure 15

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

Table 13

NOTE: *Table 13* 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] .

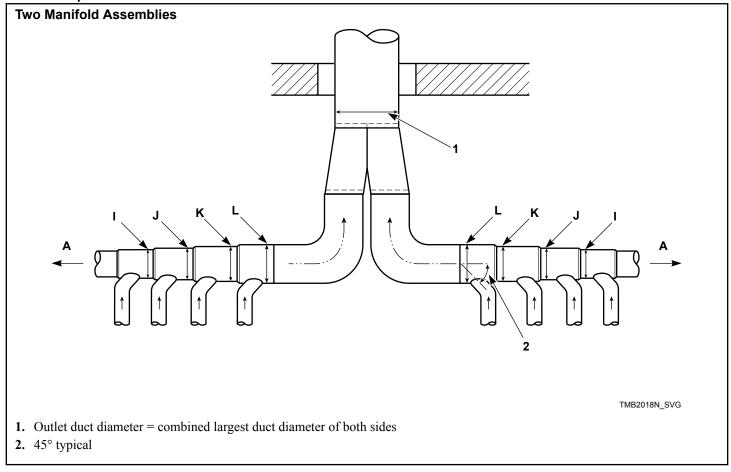


Figure 16

Refer to Table 13 for measurements for each manifold.

Gas Requirements

Gas Requirements



CAUTION

- 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

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.

W060R1



WARNING

To reduce the risk of gas leaks, fire or explosion, use a new flexible stainless steel connector.

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 15* and *Table 16* 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 17*.

- Sediment traps
- Shut-off valves
- Supply pressure taps (1/8 NPT minimum) (refer to Figure 17)
- 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 21*.



WARNING

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.

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 Table
Recommend- ed	6.5 in. w.c	1.62 kPa	14
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 Table
Recommend- ed	11 in. w.c.	2.74 kPa	14
Minimum	10 in. w.c.	2.49 kPa	

				Sup	ply Pressure (r	nbar)	lbar)
Gas Category	Country	Gas	Category	nominal	minimum	maximum	Manifold Pressure (mbar)
II _{2H3B/P}	BG, CY, CZ,	G20	2H	20	17	25	8.0
	DK, EE, FI, HR, LT, NO, SE, SI SK	G30/31	3B/P (30)	30 (28-30)	25	35	*
II _{2H3B/P}	HU	G20	2Н	25	18	33	8.0
		G30/31	3B/P	50	42.5	57.5	27.5
II _{2H3B/P}	AT, CH	G20	2Н	20	17	25	8.0
		G30/31	3B/P	50	42.5	57.5	27.5
II _{2H3+}	CH, ES, GB,	G20	2H	20	17	25	8.0
	GR, IE, IT, TR	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}	DE	G20	2E(LL)/2E	20	17	25	8.0
II _{2E(LL)3B/P}		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 14 continues...

				Supply Pressure (mbar)			bar)
Gas Category	Country	Gas	Category	nominal	minimum	maximum	Manifold Pressure (mbar)
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 re	egulator out of act	tion	,	•		•	•

Table 14

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 Table
Propane/ L.P.G.	10.5 in. w.c.	2.36 kPa	14

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.

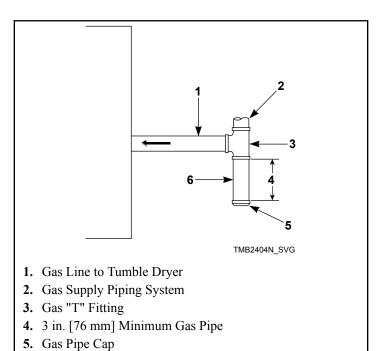


Figure 17

How to Change Burner Orifice Size

6. Sediment Trap

1. Disconnect electrical power from tumble dryer. Close gas shut-off valve to tumble dryer. Refer to *Figure 18*.

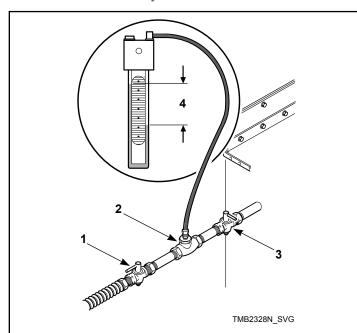


WARNING

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.

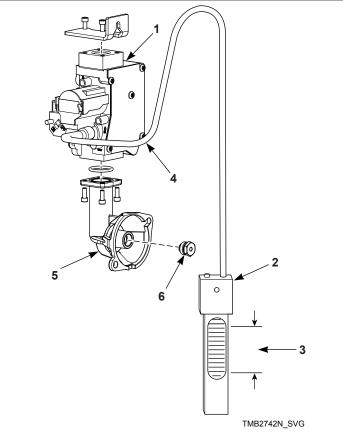
W430R1

- 2. Remove orifice holder. Unscrew orifice holder nut near gas valve. Remove the burner orifice(s) from orifice holder. Refer to *Figure 19*.
- 3. Install the new, correct burner orifice(s). Refer to *Figure 20* and *Table 1*. 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 20*.
- 5. Commission tumble dryer for use.



- **1.** Gas Shut-Off Valve (Ahead of pressure tap) (Shown in open position) (Not Supplied)
- 2. Pressure Tap
- **3.** Gas Shut-Off Valve (Shown in closed position) (Not Supplied)
- 4. Specified Local Inlet Pressure

Figure 18



NOTE: For IEC gas valves, attach manometer to end of orifice holder. For Australia and North America gas valves, attach manometer to the outlet pressure port on the gas valve.

- 1. Gas Valve
- 2. Manometer
- 3. Required Burner Manifold Pressure
- 4. Connect Over Loosened Hex Pressure Tap Screw
- 5. Orifice Holder
- 6. Burner Orifice

Figure 19

How to Adjust Gas Valve Governor/Regulator

- 1. Check gas burner orifice (manifold) pressure as follows. Refer to *Figure 2*.
- 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 2*.
- 5. Commission tumble dryer for use.

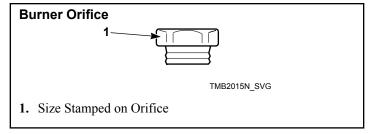


Figure 20

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/N O/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 1*.

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

- 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

- 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.

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

	North America Models	Australia Models	CE Mod- els
030 Series	70550202	70550214	70551902
T30 Series	70550205	70550211	70551905
035 Series	70550203	70550215	70551903
T45 Series	70550206	70550207	70551906
055 Series	70550204	70550213	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.

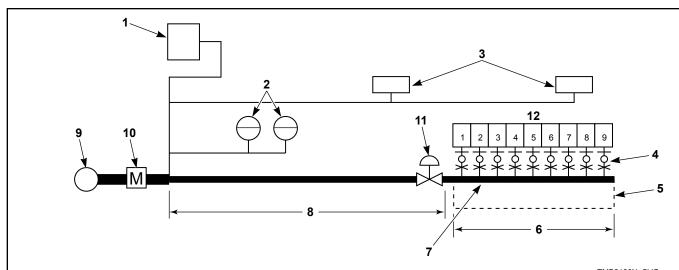


WARNING

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.

W924

Gas Supply Pipe Sizing and Looping



TMB2126N_SVG

- 1. Gas furnace [120,000 Btu/hr. [127 Mj/hr., 35 kW]]
- 2. Gas water heaters [400,000 Btu/hr. [422 Mj/hr., 117 kW] each]
- **3.** Gas space heaters [70,000 Btu/hr. [79 Mj/hr., 21 kW] each]
- **4.** Sediment traps, supply pressure taps and shut-off valves. Refer to *Figure 1*.
- **5.** 1 in. [25 mm] gas pipe loop
- **6.** 19 ft. [5.8 m]
- 7. Minimum Pipe Size is 1/2 NPT
- **8.** 25 ft. [7.6 m]
- 9. Main regulator
- 10. Gas meter
- 11. Pressure regulator (if required)
- 12. 025 series tumble dryers = 64,000 Btu/hr. [68 Mj/hr., 19 kW] each; 030 series tumble dryers = 73,000 Btu/hr. [77 Mj/hr., 21 kW] each; 035 series tumble dryers = 90,000 Btu/hr. [95 Mj/hr., 26 kW] each; Stacked 30 series tumble dryers = 73,000 Btu/hr. [77 Mj/hr., 21 kW] per tumble dryer; 146,000 total Btu/hr. [154 Mj/hr., 43 kW] for machine; Stacked 45 series tumble dryers = 95,000 Btu/hr. [100 Mj/hr., 28 kW] per tumble dryer; 190,000 total Btu/hr. [200 Mj/hr., 56 kW] for machine; 055 series tumble dryers = 112,000 Btu/hr. [118 Mj/hr., 33 kW] each

Figure 21

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.

- $= 9 \times 73,000 [77, 21]$
- = 657,000 Btu/hr. [193 kW]

Using Table 15, 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]

	Equivalent Le	ength						
	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]		
Gas Appli- ances Total BTU/hr.		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 15 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 \pm 4.0 mbar, 1.74 \pm 0.37 kPa]

	Equivalent Le	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]	
Gas Appli- ances Total BTU/hr.		inches Water Co in Gas Pipe Nom		Drop for Length	Given		
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	

Table 15

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 \pm 28 mbar, 13.7 \pm 2.7 kPa]

	Equivalent Le	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]		
Gas Appli- ances Total BTU/hr.			op for Length Giv minal Size (NPT)	en				
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 16 continues...

Gas Pipe Size Required for 1000 BTU Natural Gas (Standard Conditions) at Upstream Pressure — 2.0 \pm 0.4 PSI [138 \pm 28 mbar, 13.7 \pm 2.7 kPa]

	Equivalent Le	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]
Gas Appli- ances Total BTU/hr.		SI Pressure Dro in Gas Pipe Nom	p for Length Giveninal Size (NPT)	en		
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, cor	rect the total Btu/hi	by multiplying it b	by 0.6. The answer is	is the equivalent Bt	u on the above char	t.

Table 16

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 combustion. Heat input derate of 4% per 1,000 feet [305 meters] of altitude above sea level. Refer to *Table 17* or *Table 18*.

For IEC models, consult local gas supplier.

Standard Line Models

			Altitude	Burner C	Orifice		
Model	Market	Gas	feet [meters]	No.	inches [mm]	Quan- tity	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]		70694108
			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 17 continues...

			Altitude	Burner C	Orifice		
Model	Market	Gas	feet [meters]	No.	inches [mm]	Quan- tity	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 17 continues...

			Altitude	Burner (Orifice		
Model	Market	Gas	feet [meters]	No.	inches [mm]	Quan- tity	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]	1	70684139
	T, G, A, H, R	L.P. Gas	2,001-4,000 [610-1,220]	36	0.1065 [2.71]	1	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]	1	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]	1	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]	1	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 17 continues...

			Altitude	Burner (Orifice		
Model	Market	Gas	feet [meters]	No.	inches [mm]	Quan- tity	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]	36	0.1065 [2.71]		70684120
			4,001-6,000 [1,221-1,830]	37	0.1040 [2.64]		70684119
			6,001-8,000 [1,831-2,440]	39	0.0995 [2.53]		70684117
			8,001-10,000 [2,441-3,050]	42	0.0935 [2.37]		70684114
	J	L.P. Gas	2,001-4,000 [610-1,220]	42	0.0935 [2.37]	1	70684114
			4,001-6,000 [1,221-1,830]	2.3 mm	0.0906 [2.30]		70684113
Published by pe	ermission of the co	pyright owner -	6,001-8,000 [1,831-2,440] 62	43	0.0890 [2.26]	F	70684112 Part No. 70686701ENI
			8,001-10,000	44	0.0860	1	70684110

			Altitude	Burner	Orifice		
Model	Market	Gas	feet [meters]	No.	inches [mm]	Quan- tity	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 17

Eco Line Models (only available in Natural Gas)

		Altitude	Burner C	Prifice		
Model	Gas	feet [meters]	No.	inches [mm]	Quantity	Part No.
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
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 18

Electrical Requirements

Electrical Requirements



WARNING

- 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

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.

W938



WARNING

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.

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

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.

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 juntion 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 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

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.

W409R1



CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

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.

Service/Ground Location

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

Table continues...

Model	Heat Source	Ground and Terminal Block Locations
030 035 055	Electric, low voltage Electric, high voltage	1 TMB2736N_SVG 1. Ground 2. Power Distribution Block
T30 T45 (gas only)	Gas/Steam/Electric, low voltage Gas/Steam/Electric, high voltage	TMB2738N_SVG NOTE: Connection only required in upper junction box. 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.

 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.



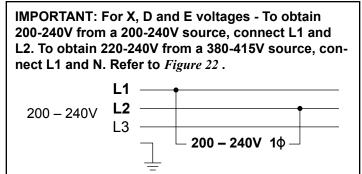
CAUTION

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.

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).



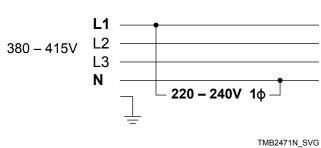


Figure 22

030 and 035 Series Gas Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm ²]
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Table 19 continues...

В	100-120	50-60	1	L1, Neutral, and ground	10	15	14 [2.5]
X	200-240	50-60	1-3	Refer to Figure 22	6	15	14 [2.5]
N	440-480	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]
Р	380-415	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]

Table 19

055 Series Gas and Steam Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
В	100-120	50-60	1	L1, Neutral, and ground	12	15	14 [2.5]
X	200-240	50-60	1-3	Refer to Figure 22	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 20

T30 Series Gas Models (Total Machine)

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
В	100-120	50-60	1	L1, Neutral, and ground	16	20	12 [4]
X	200-240	50-60	1-3	Refer to Fig- ure 22	9	15	14 [2.5]
N	440-480	50-60	3	L1, L2, L3 and ground	6	15	14 [2.5]

Table 21 continues...

P	380-415	50-60	3	L1, L2, L3	6	15	14 [2.5]
				and ground			

Table 21

T45 Series Gas Models (Total Machine)

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
X	200-240	50-60	1-3	Refer to Figure 22	12	15	14 [2.5]
N	440-480	50-60	3	L1, L2, L3 and ground	6	15	14 [2.5]
Р	380-415	50-60	3	L1, L2, L3 and ground	6	15	14 [2.5]

Table 22

21 kW Standard Line 030 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
D	200-208	50-60	1	Refer to Fig- ure 22	104	150	1/0 [50]
Е	230-240	50-60	1	Refer to Figure 22	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]
Н	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]

Table 23 continues...

L	460-480	50-60	3	L1, L2, L3	27	35	8 [10]
				and ground			

Table 23

12 kW Eco Line 030 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
D	200-208	50-60	1	Refer to Fig- ure 1	60	80	4 [25]
Е	230-240	50-60	1	Refer to Fig- ure 1	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]
Н	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]
К	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 24

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

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps (Per Pocket)	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
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]

Table 25 continues...

Electrical Requirements

Н	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 25

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

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
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]
Н	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 26

24 kW Standard Line 035 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
D	200-208	50-60	1	Refer to Figure 22	118	150	1/0 [50]

Table 27 continues...

Е	230-240	50-60	1	Refer to Figure 22	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]
Н	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]
L	460-480	50-60	3	L1, L2, L3 and ground	30	40	8 [10]

Table 27

12 kW Eco Line 035 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
D	200-208	50-60	1	Refer to Figure 22	60	80	4 [25]
Е	230-240	50-60	1	Refer to Figure 22	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]
Н	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 28

18 kW Medium 035 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
D	200-208	50-60	1	Refer to Fig- ure 22	89	125	1 [35]
Е	230-240	50-60	1	Refer to Figure 22	77	100	3 [26.7]
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]
Н	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 29

9 kW Low 035 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Recommend- ed Circuit Breaker Rat- ing Amps	Wire Size AWG [mm
Н	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 30

27 kW Standard 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
D	200-208	50-60	1	Refer to Fig- ure 22	133	175	2/0 [70]
Е	230-240	50-60	1	Refer to Figure 22	116	150	1/0 [50]
F	200-208	50-60	3	L1, L2, L3 and ground	78	100	3 [26.7]
G	230-240	50-60	3	L1, L2, L3 and ground	67	90	3 [26.7]
Н	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 31

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
D	200-208	50-60	1	Refer to Figure 22	90	125	1 [35]
Е	230-240	50-60	1	Refer to Figure 22	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]
Н	380	50-60	3	L1, L2, L3 and ground	29	40	8 [10]

Table 32 continues...

Electrical Requirements

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

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 23 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

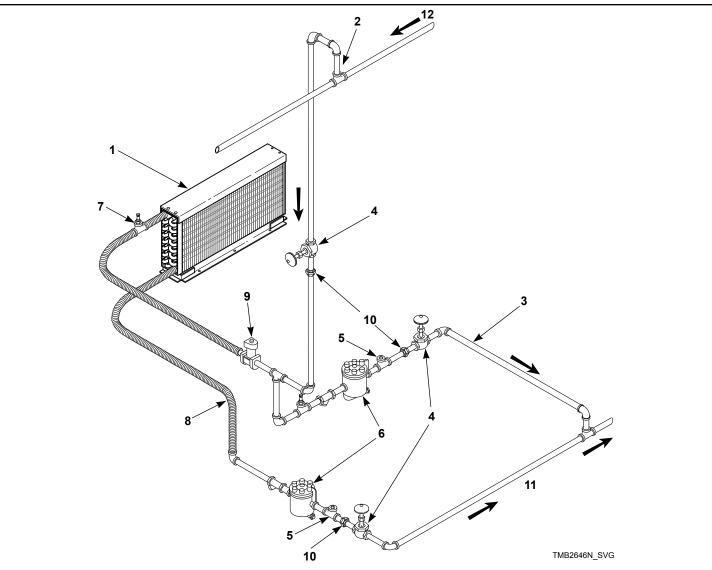
drain condensate from the low point in the steam header to the return.

- 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.



NOTE: Refer to *Table 33* 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 23

Model	Steam Pressure PSI [bar]	Minimum Supply Pipe Diameter	Steam Trap Size* Pounds Condensate/ Hour [Kilograms Condensate/Hour]
055 Series	80-125 [5.5-8.6]	3/4 NPT	140 [63.5]
* Based on 125 psi.			

Table 33

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.



WARNING

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.

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 1* 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.

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.

Adjustments

Adjustments



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

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 24.

1. Remove the burner inspection hole plate.

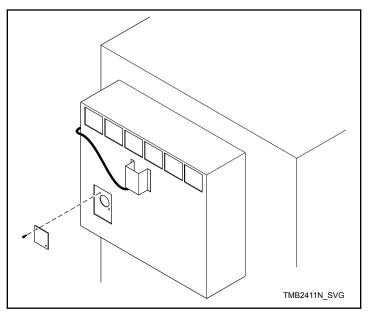
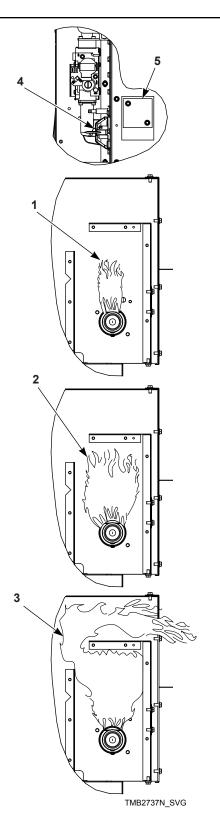


Figure 24

- 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 if 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.



- 1. Proper Airflow
- 2. Insufficient Airflow
- 3. No Airflow
- 4. Air Shutter Adjusting Screw
- 5. Burner Inspection Hole

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 26* and proceed as follows:

- 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].
- 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.

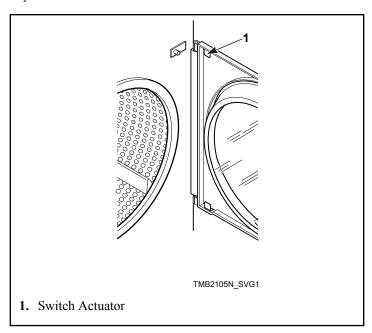


Figure 26

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 27* 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.

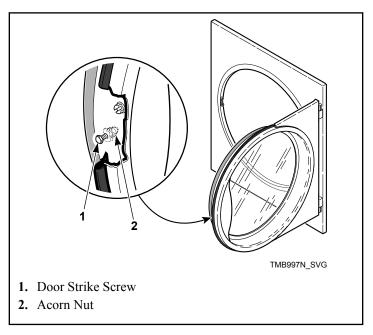


Figure 27

Manual Resettable Thermostat

NOTE: The manual resettable thermostat is located as follows: 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.

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 28*. 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.

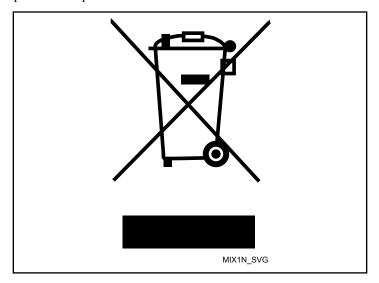


Figure 28