

Installation manual

T4420S, TD45x45

WARNING: For your safety the information in this manual must be followed to minimize the risk of fire or explosion and to prevent property damage, personal injury or death.

— 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.

AVERTISSEMENT: Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

— Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables à proximité de cet appareil ou de tout autre appareil.

— **QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:**

- Ne pas tenter d'allumer d'appareils.
- Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment.
- Évacuez la pièce, le bâtiment ou la zone.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.

— L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

The following **"FOR YOUR SAFETY"** caution must be posted near the dryer 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.

POUR VOTRE SÉCURITÉ

Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables à proximité de cet appareil ou de tout autre appareil.

"IMPORTANT NOTE TO PURCHASER"

Information must be obtained from your local gas supplier on the instructions to be followed if the user smells gas. These instructions must be posted in a prominent location near the dryer.

Contents

Contents

Safety instructions	7
Technical data.....	19
Setup.....	23
Positioning.....	23
Connection to network.....	24
Unpacking	25
Remove the dryer from the pallet	25
Installation	27
Mechanical installation.....	27
Connection branch.....	27
Evacuation system.....	28
Fresh-air	28
Air principle	28
Exhaust duct	29
Exhaust system.....	31
Exhaust duct	31
Maximum duct length	31
Exhaust illustrations	31
Gas installation.....	32
General.....	32
Nozzles sizes depending on altitudes.....	33
Test run	33
Conversion to propane	33
Gas valve.....	34
Table of pressure and adjustment	34
Electrical installation	35
Gas heated tumble dryer	35
Connecting power.....	35
Supply dimension.....	36
Before servicing the tumble dryer.....	36
Circuit breaker, power consumption and voltages.....	36
Function check.....	37

The manufacturer reserves the right to make changes to design and component specifications.

In the State of Massachusetts, the following installation instructions apply:

- Installations and repairs must be performed by a qualified or licensed contractor, plumber, or gasfitter qualified or licensed by the State of Massachusetts.
- If using a ball valve, it shall be a T-handle type.
- A flexible gas connector, when used, must not exceed 3 feet.

State of California Proposition 65 Warnings:

WARNING: This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm

FOR YOUR SAFETY

DO NOT DRY MOP HEADS IN THE DRYER.

DO NOT USE DRYER IN THE PRESENCE OF DRY CLEANING FUMES.

IMPORTANT

YOU MUST DISCONNECT and LOCKOUT THE ELECTRIC SUPPLY and THE GAS SUPPLY or THE STEAM SUPPLY BEFORE ANY COVERS or GUARDS ARE REMOVED FROM THE MACHINE TO ALLOW ACCESS FOR CLEANING, ADJUSTING, INSTALLATION, or TESTING OF ANY EQUIPMENT per OSHA (Occupational Safety and Health Administration) STANDARDS.



WARNING



CHILDREN SHOULD NOT BE ALLOWED TO PLAY ON OR IN THE DRYER(S).

CHILDREN SHOULD BE SUPERVISED IF NEAR DRYER(S) IN OPERATION.

CAUTION

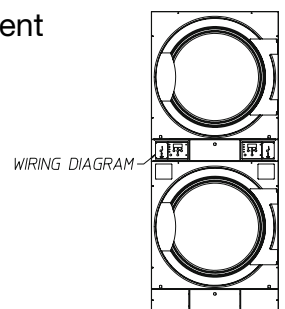
DRYER(S) SHOULD NEVER BE LEFT UNATTENDED WHILE IN OPERATION.

IMPORTANT

Please observe all safety precautions displayed on the equipment and/or specified in the installation/operators manual included with the dryer.

Dryer(s) must not be installed or stored in an area where it will be exposed to water and / or weather.

The wiring diagram for the dryer is located where shown.



Safety instructions

WARNING: ALL OPERATING AND MAINTENANCE PROCEDURES SHOWN ON THE NEXT PAGE OF THIS MANUAL MUST BE FOLLOWED DAILY FOR PROPER OPERATION OF YOUR WASCOMAT MACHINE.

PLEASE CHECK THAT THE FOLLOWING INFORMATION APPEARS ON THE MACHINE DATA PLATE(S). IF THIS INFORMATION IS MISSING, CONTACT WASCOMAT CUSTOMER SERVICE.

MACHINE TYPE OR MODEL	
MACHINE SERIAL NUMBER(S)	
ELECTRICAL CHARACTERISTICS: _____ VOLTS, _____ PHASE, _____ HZ.	

The manufacturer declares that the dryer is produced and approved according to the standards printed on the approval mark (CSA).

The approval mark is only on approved dryers.

All later changes of the product which can affect the approval of the product **must** be approved by CSA.

KEEP THIS MANUAL IN A
SECURE PLACE FOR FUTURE REFERENCE.

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, personnel injury or death.

NOTICE TO: OWNERS, OPERATORS AND DEALERS OF WASCOMAT MACHINES.

IMPROPER INSTALLATION AND INADEQUATE MAINTENANCE, POOR HOUSEKEEPING AND WILLFUL NEGLECT OR BYPASSING OF SAFETY DEVICES MAY RESULT IN SERIOUS ACCIDENTS OR INJURY. TO ASSURE THE SAFETY OF CUSTOMERS AND/OR OPERATORS OF YOUR MACHINE, THE FOLLOWING MAINTENANCE CHECKS MUST BE PERFORMED ON A DAILY BASIS.

1. Prior to operation of the machine, check to make certain that all operating instructions and warning signs are affixed to the machine and legible. (See the following page of this manual for description and location of the signs.) Missing or illegible signs and labels **must be replaced immediately**. Be sure you have spare signs and labels available at all times. These can be obtained from your dealer or Wascomat.
2. Check the door safely switch, as follows:
 - (a) OPEN THE DOOR of the machine and attempt to start in the normal manner:
THE MACHINE(S) SHOULD NOT START!
 - (b) CLOSE THE DOOR to start machine operation and, while it is operating, open the door: **THE MACHINE(S) SHOULD STOP.**

If the machine can operate with the door open, it must be placed out of order until the necessary repairs are made.
3. DO NOT UNDER ANY CIRCUMSTANCES ATTEMPT TO BYPASS OR REWIRE ANY OF THE MACHINE'S SAFETY DEVICES AS THIS CAN RESULT IN SERIOUS ACCIDENTS, AND WILL VOID YOUR WARRANTY.
4. **Be sure to keep the machine(s) in proper working order:** Follow all maintenance and safety procedures. Further information regarding machine safety, service and parts can be obtained from your dealer or from Wascomat through its Customer Service Department - 516-371-0700.

All requests for assistance must include the model, serial number and electrical characteristics as they appear on the machine identification plate.

5. **WARNING: DO NOT OPERATE MACHINE(S) WITH SAFETY DEVICES BYPASSED, REWIRED OR INOPERATIVE!**



WARNING– Risk of fire

Clothes dryer installation must be performed by a qualified installer.

Install the clothes dryer according to the manufacturer's instructions and local codes.

Do not install a clothes dryer with flexible plastic venting materials. If flexible metal (foil type) duct is installed, use duct that has been investigated and found acceptable for use with clothes dryers. Flexible venting materials are known to collapse, be easily crushed, and trap lint. These conditions will obstruct clothes dryer airflow and increase the risk of fire.

To reduce the risk of severe injury or death follow all installation instructions.

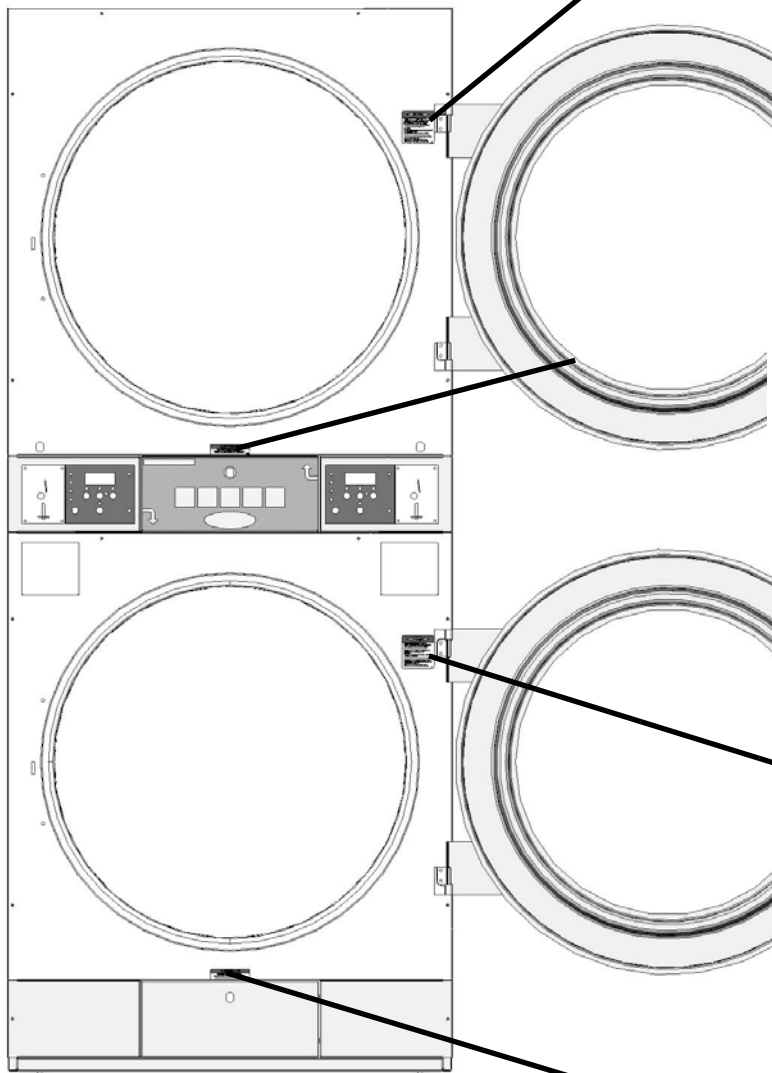
Save these instructions.

Safety and warnings signs

Replace If Missing Or Illegible.

These signs must be affixed on each machine.

Front of the dryer



WARNING

- * THIS DRYER MUST BE USED ONLY FOR DRYING FABRICS THAT HAVE BEEN WASHED WITH WATER AS THE CLEANING AGENT
- * TO AVOID FIRE HAZARD, DO NOT DRY ARTICLES CONTAINING FOAM RUBBER OR SIMILARLY TEXTURED RUBBER-LIKE MATERIALS
- * REMOVE ARTICLES BEING DRIED IMMEDIATELY AFTER TUMBLER STOPS
- * DO NOT DRY MOP HEADS OR ARTICLES EXPOSED TO GASOLINE, KEROSENE, PAINT, WAX, GREASE, COMBUSTIBLE DETERGENT, OR ALL PURPOSE CLEANERS
- * THIS DRYER IS NOT TO BE USED IN THE PRESENCE OF DRY CLEANING SOLVENTS

114006

IMPORTANT

LINT SCREEN MUST BE CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED FREQUENCY GUIDELINE

112280

WARNING

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114006

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112280

Safety instructions

**WARNING**

Plumbers beware when pressure testing !!!
Dryer must not be subject to pressures that exceed 1/2 psig (3.5 kPa).
To do so will cause Gas Leaks which can result in a Fire or Explosion !!!

P/N: 112270

**WARNING**

This dryer and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa). This 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 at test pressures equal to or less than 1/2 psig (3.5 kPa)

P/N: 112270

**CAUTION**

LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS.

WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION.

VERIFY PROPER OPERATION AFTER SERVICING.

ATTENTION. AU MOMENT DE L'ENTRETIEN DES COMMANDES, ÉTIQUETEZ TOUS LES FILS AVANT DE LES DÉBRANCHER.

DES ERREURS DE CÂBLAGE PEUVENT ENTRAÎNER UN FONCTIONNEMENT INADÉQUAT ET DANGEREUX.

S'ASSURER QUE L'APPAREIL FONCTIONNE ADÉQUATEMENT UNE FOIS L'ENTRETIEN TERMINÉ.

P/N: 114115

DANGER
DANGER
PELIGRO

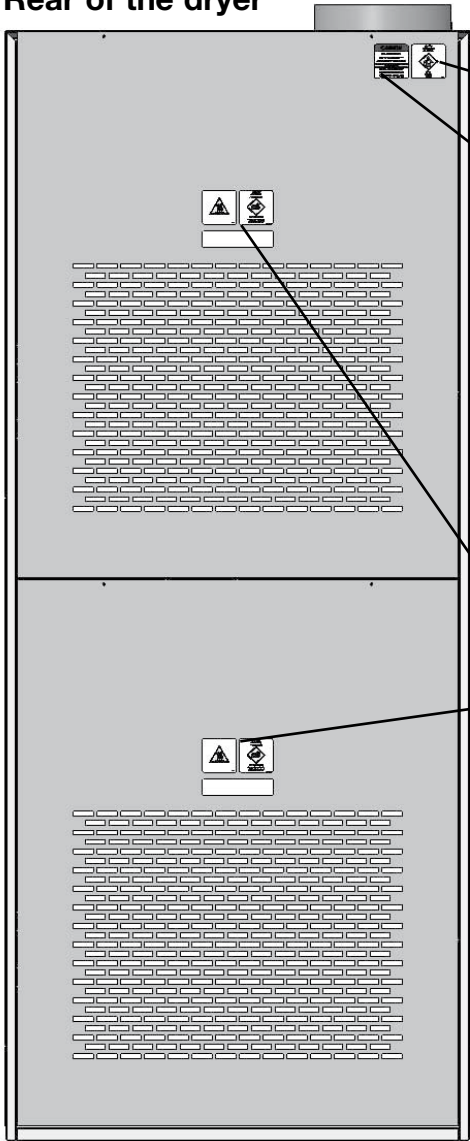


HIGH VOLTAGE
HAUTE TENSION
ALTO VOLTAJE


Attached at the top of the dryer

Attached to the gas pipe

Rear of the dryer




WARNING
MISE EN GARDE
ADVERTENCIA



FUMES



CAUTION
ATTENTION
PRECAUCIÓN



ROTATING PARTS
PIÈCES EN ROTATION
PIEZAS QUE ROTAN

CAUTION

THIS DRYER PRODUCES COMBUSTIBLE LINT AND MUST BE EXHAUSTED TO THE OUTDOORS.

INSTRUCTIONS

EVERY 6 MONTHS, INSPECT THE EXHAUST DUCTING AND REMOVE ANY LINT BUILD-UP

114001

Electrical Information

It is your responsibility to have **ALL** electrical connections (including grounding) made by a properly licensed and competent electrician to assure that the electrical installation is adequate and conforms with local and state regulations or codes.

In the absence of such codes, **ALL** electrical connections, material, and workmanship **must conform** to the applicable requirements of the NATIONAL ELECTRIC CODE ANSI/NFPA NO. 70 or the CANADIAN ELECTRICAL CODE, CSA C22.1 - both the latest edition.

IMPORTANT: Failure to comply with these codes or ordinances and/or the requirements stipulated in this manual can result in personal injury or component failure.

NOTE: Component failure due to improper installation will **VOID THE WARRANTY**.

IMPORTANT: Each pocket should be connected to an independently protected branch circuit. The dryer must be connected to copper wire only. **DO NOT** use aluminum wire which could cause a fire hazard.

NOTE: The use of aluminum wire will **VOID THE WARRANTY**

Caution:

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper operation.

Attention:

Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de câblage peuvent entraîner un fonctionnement inadéquat et dangereux.

Electric Service

Gas dryers **ONLY**

IMPORTANT: The dryer must be connected to the electrical supply shown on the data label affixed to the dryer. In the case of 208 VAC or 240 VAC, the supply voltage must match the electric service specifications of the data label exactly. Wire must be properly sized to handle the rated current.

WARNING: 120 VAC, 208 VAC and 240 VAC ARE NOT THE SAME. Any damage done to dryer components due to improper voltage connections will **VOID THE WARRANTY**.

Electric Dryers **ONLY**

ALL electrically heated dryers must be connected to the electric supply service shown on the dryer's data label which is affixed to the back side of the control (service) door. The connecting wires must be properly sized to handle the rated current.

NOTE: Component failure due to improper voltage application will **VOID THE WARRANTY**.

Gas Information

It is your responsibility to have **ALL** plumbing connections made by a qualified professional to insure that the installation is adequate and conforms with local and state regulations or codes. In the absence of such codes, **ALL** plumbing connections, material, and workmanship must conform to the applicable requirements of **the National Fuel Gas Code ANSI Z223.1/NFPA 54** or the Canadian Natural Gas and Propane Installation Code, **CSA B149.1**, both the latest edition.

IMPORTANT: Failure to comply with these codes or ordinances, and/or the requirements stipulated in this manual, can result in personal injury and improper operation of the dryer.

The dryer must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure test of the gas supply system at test pressures equal to or less than 1/2 psig (3.5 kPa).

The dryer and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).

IMPORTANT: Failure to isolate or disconnect the dryer from the gas supply as noted can cause irreparable damage to the gas valve and will **VOID THE WARRANTY**.

WARNING: **FIRE or EXPLOSION COULD RESULT.**



Gas Supply

NOTE: Undersized gas piping will result in ignition problems, slow drying, increased use of energy, and can create a safety hazard.

The dryer **must be** connected to the type of heat/gas indicated on the dryer data label. If this information does not agree with the type of gas available, **do not** operate the dryer. Contact your local dealer or the Wascomat Service Department (516-371-0700).

IMPORTANT: Any burner changes or conversions **must be** made by a qualified licensed professional.

The input ratings shown on the dryer data label are for elevations of up to 2,000 feet. The adjustment or conversion of the dryer(s) in the field for elevations over 2,000 feet are made by changing each burner orifice.

If these conversions are necessary, contact your local dealer or the Wascomat Service Department.

Gas Data

Natural Gas

The natural gas supply pressure to the dryer **must be** between 6 and 12 inches water column. If the pressure is too low, ignition failure and/or slow drying times may result. Excessively high supply pressure will result in erratic operation of the gas valve's internal pressure regulator. The pressure measured at the pressure tap (2) on the body of the gas valve **must be** 3.5-inches water column.

Propane Gas

Dryers made for use with propane gas have the gas valve pressure regulator blocked open, so that the gas pressure **must be** regulated upstream of the dryer. The pressure measured at the gas valve body pressure tap (2) **must be** 10.5 inches water column. In accordance with CSA standards, a gas pressure regulator, when installed indoors, must be equipped with a vent limiter or a vent line must be installed from the gas pressure regulator vent to the outdoors. The water column pressure **must be** regulated at the source (Propane tank), or an external regulator must be added to each dryer.

Piping/Connections

The dryer is provided with a 3/4 inch NPT. inlet pipe connection extending out the top of the dryer. For ease of servicing, the gas supply line of each dryer should have its own shut-off valve.

The size of the gas supply line (header) will vary depending on the distance this supply line travels from the gas meter or, in the case of propane gas, the supply tank, the number of tees, other gas-operated appliances, etc. Specific information regarding supply line size **should be** determined by the gas supplier.

NOTE: Undersized gas supply piping can create a low or inconsistent gas pressure which will result in erratic operation of the burner.

Consistent gas pressure is essential at **ALL** gas connections. It is recommended that a 3/4 inch pipe gas loop be installed in the supply line serving the bank of dryers. An in-line pressure regulator **must be** installed in the gas supply line (header) if (natural) gas line pressure exceeds 12-inches water column pressure.

IMPORTANT: Water column pressure of 3.5 -inches for natural gas dryers and 10.5 inches for propane gas dryers is required at the gas valve pressure tap (2) of each dryer for proper and safe operation.

A 1/8 inch N.P.T. plugged tap, accessible for test gauge connection, **must be** installed in the main gas supply line immediately upstream of each dryer.

IMPORTANT: Pipe joint compounds that resist the action of natural gas and propane gas **MUST BE** used.

WARNING: Test ALL connections for leaks by brushing on a soapy water solution (liquid detergent also works well). **NEVER TEST FOR GAS LEAKS WITH AN OPEN FLAME.**

ALL components / materials **must conform** to NATIONAL FUEL GAS CODE specifications. It is important that gas pressure regulators meet applicable pressure requirements and that gas meters are rated for the total amount of appliance BTU's being supplied.



Safety instructions



This machine is only intended for drying water-washed garments.

Clothes that have been cleaned with chemicals/flammable liquids, must NOT be dried in the machine.

Remove clothes from the tumble dryer as soon as they are dry. This prevents them from becoming creased, and reduces the risk of spontaneous ignition.

The machine must not be used for drying foam rubber or foam-like materials.

The machine must not be used for drying floor mops*.

The machine must not be used by minors.

The machine must not be hosed down with water.

Mechanical, electrical and gas installations must only be carried out by authorized personnel.

The key for the operating panel is only to be accessible to authorized service personnel.

Report machine malfunctions to qualified service personnel as soon as possible. This is important for your own safety and for the safety of others.

Gas dryers only:

The machine is not to be installed in rooms containing cleaning machines with perchloroethylene, TRICHLOROETHYLENE or CHLOROFLUOROCONTAINING HYDROCARBONS as cleaning agents.

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.

Evacuate the room, building or area.

Contact appropriate authorities.

**Applies only to floor mops containing polypropylene.*

Additional safety instructions and warnings

Using the dryer

- **Do not** operate this appliance before reading the instruction booklet.
- **Do not** put articles containing foam rubber, plastic or similarly textured rubberlike materials in the dryer.
- **Do not** dry mopheads or articles exposed to gasoline, kerosene, paint wax, grease, combustible detergent or all purpose cleaners.
- **Do not** use heat for drying foam rubber items or similarly textured rubberlike materials.
- **Do not** put articles soiled with flammable liquids, vegetable- or cooking oils in dryer.
- **Do not** load materials containing flammable solvents into this appliance
- **Do not** reach into dryer until all moving parts have stopped.
- **Do not** let children play in or near dryer.
- **Do not** operate with panels, covers or guards removed from this appliance.
- Remove articles being dried immediately after tumbler stops.
- Lint screen must be cleaned in accordance with the manufacturer's recommended frequency guidelines.
- Avoid overdrying items such as silk and wool, as shrinkage or fabric damage may result.

The area surrounding the dryer

- **Do not** store or use flammable liquids near the dryer.
- **Do not** store chemicals, or spray aerosols near this appliance.
- **Do not** store or use aerosols or cleaning solvents in the vicinity of the dryer. Some chemicals used in laundries contain Chlorine (some dry-cleaning fluids, aerosols and bleach) When exposed to a flame, these chemicals may produce toxic fumes that are harmful to humans and highly corrosive.
- **Do not** place articles on or against this appliance
- This dryer is not to be used in the presence of dry cleaning solvents.
- A clothes dryer produces combustible lint and the area around the clothes dryer should be kept free of lint.

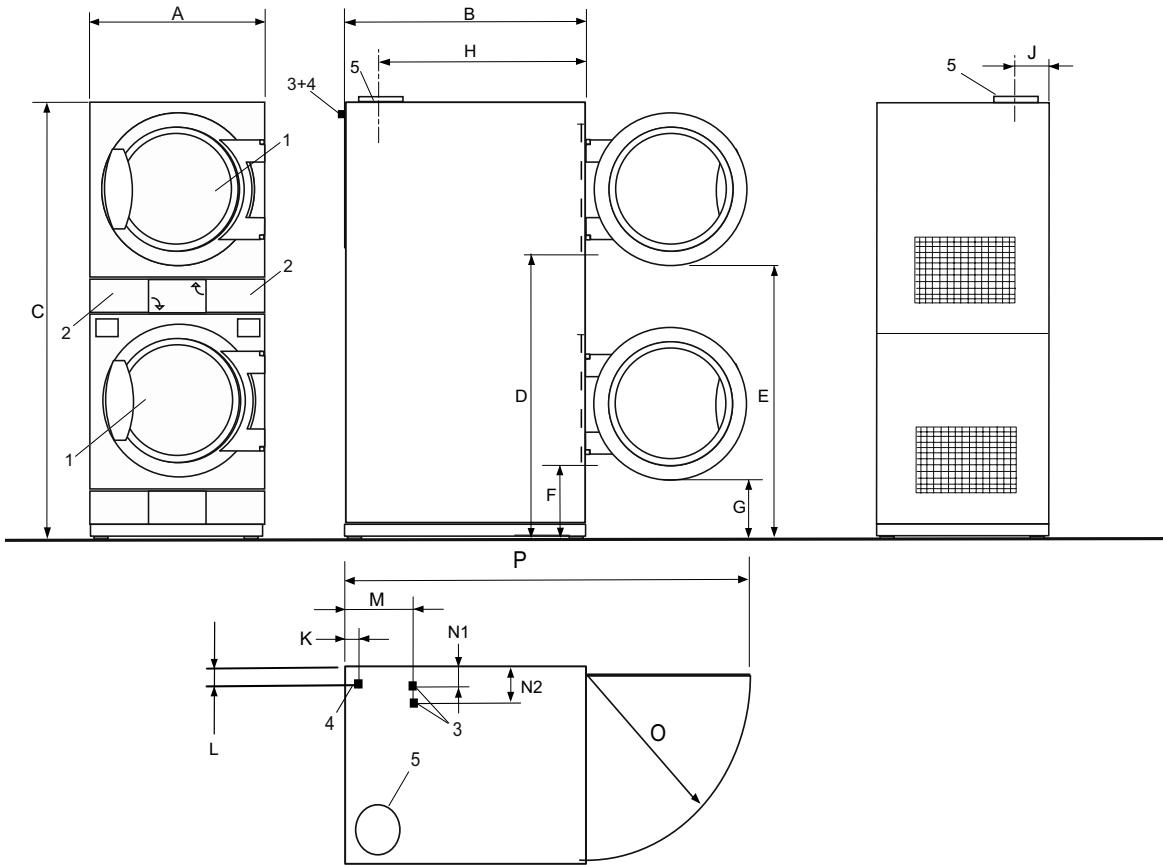
Dimension sketch

1	Door opening ø 686 mm (27 inch)
2	Operating panel
3	Electric connection
4	Gas connection
5	Pipe connection, evacuation

in mm	A	B	C	D	E	F	G	H	J	K	L	M	N1	N2	O	P
	870	1322	2078	1288	1222	262	186	1083	161	75	38	231	90	178	854	2175

in inch	A	B	C	D	E	F	G	H	J	K
	34 1/4	52	81 7/8	50 13/16	48 1/8	10 1/4	7 3/8	42 5/8	6 3/8	3

in inch	L	M	N1	N2	O	P
	1 1/2	9 1/8	3 1/2	7	33 5/8	85 5/8



Technical data

Drum volume	litres/cu.ft.	2 x 414	2 x 14.6
Weight net	kg/lbs	392	865
Drum			
diameter	mm/inch	832	32 3/4
depth	mm/inch	762	30
revolutions per minute	rpm	45	45
Capacity, max	kg/lb	2 x 20.4	2 x 45
Heat effect	kW / BTU/h	2 x 27.5	2 x 94,000
Air consumption	m ³ /h / cu.ft./min	2 x 1,020	2 x 600
Pipe connection			
Evacuation	ø mm/inch	2 x 203 1 x 254	2 x 8 1 x 10
Drop in pressure			
Evacuation max.	Pa/W.C. inch	149	.6
Gas pipe connection		ISO 7/1-R3/4	3/4" MNPT
Gas pressure		*	*
Noise level	dB(A)	< 70	< 70

* See page regarding gas pressure

Motor specifications

120V 1AC 60 Hz		
Drum motor		
Power	W / hp	250 / 1/3
Revolutions per minute	rpm	1,140
Blower motor		
Power	W / hp	370 / 1/2
Revolutions per minute	rpm	1,725
240V 1AC 60 Hz		
Drum motor		
Power	W / hp	250 / 1/3
Revolutions per minute	rpm	1,140
Blower motor		
Power	W / hp	370 / 1/2
Revolutions per minute	rpm	1,725

Setup

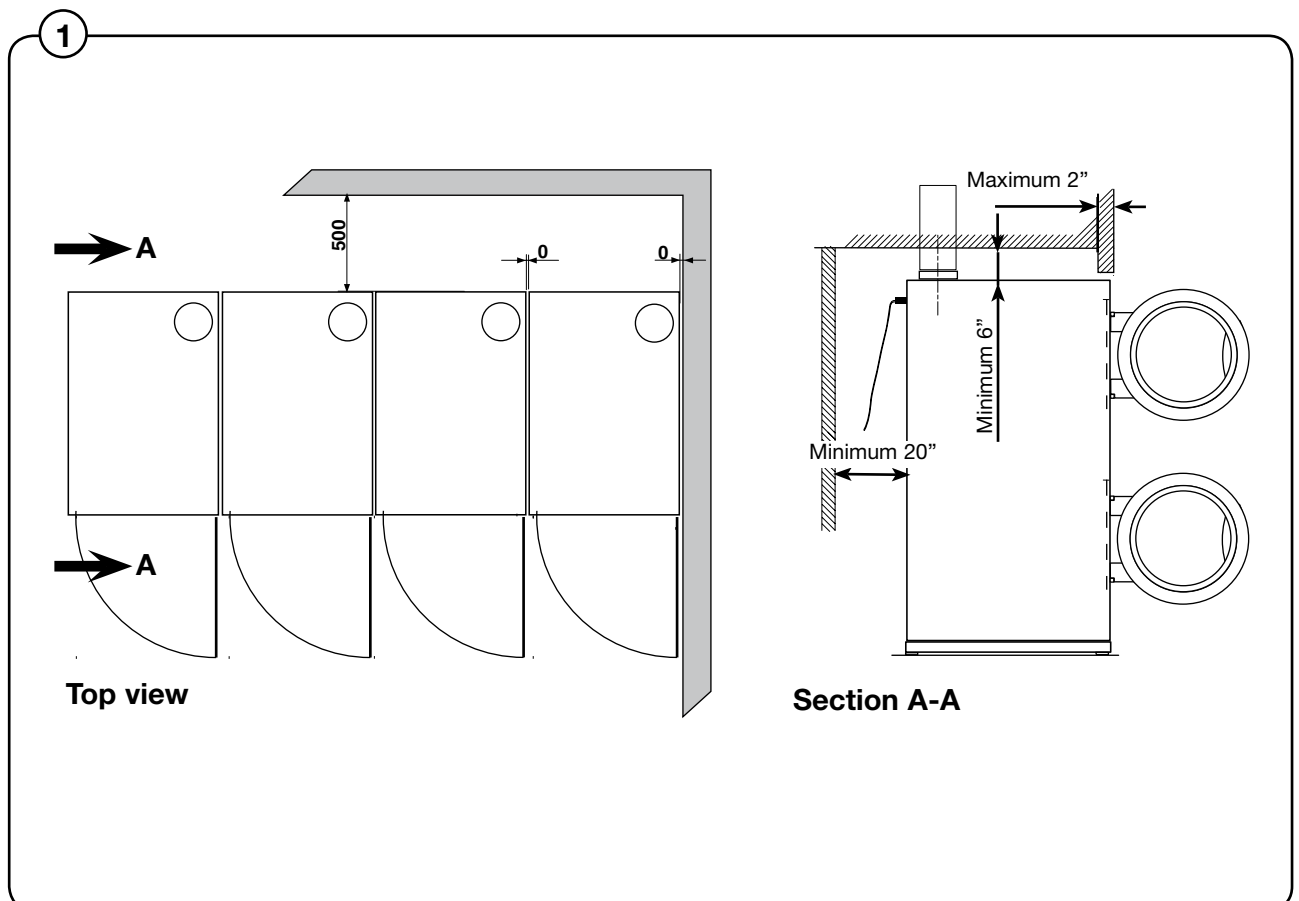
Positioning

- 1 Locate the dryer to ensure easy use and service.

The distance to the wall or other equipment behind the dryer should be min. 20" (500 mm).

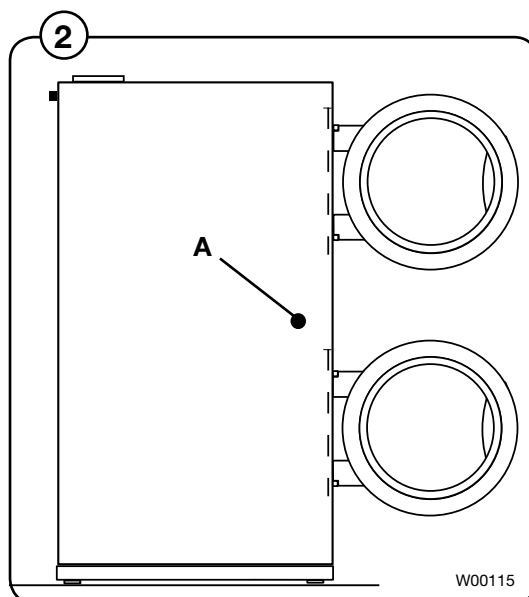
Apart from the minimum distances shown on fig. 1 there are no further requirements to the distance around the dryer.

There should be free access to the back of the dryer for the purpose of servicing.



Connection to network

- ② If several tumble dryers are to be connected to a network, the plugs A in the side panels must be removed before the dryers are installed.
- ③ A bushing for network cables must be installed from the inside in the right-hand side panel. The bushing must be pushed right through the hole in the left-hand side panel on the side of the dryer.



Unpacking

The drums are not fitted with transport fittings.

Unpack the tumble dryer with care.

From factory the dryer is equipped with 4 supporting feet.

Remove the dryer from the pallet

The dryer is fastened to the pallet by 4 screws.

1. Remove the bottom filter drawer.
2. Remove the panels on both sides of the filter drawer.
3. Remove the 2 transportations screws at the front.
4. Remove the rear panels.
Remove transportations screw by the rear panel.
5. Mount the rear panels.

- ④ 6. Place a 1/2" steel pipe at the back of the dryer.
- ⑤ 7. Stand behind the dryer and tilt it forward.
When the dryer rises from the pallet push the pipe under the dryer.
- ⑥ 8. Push the dryer from the front.
9. Remove the steel pipe by tilting the dryer forward while removing the pipe.

NOTE!

If necessary, the dryer can be rolled into position using steel pipes.

4



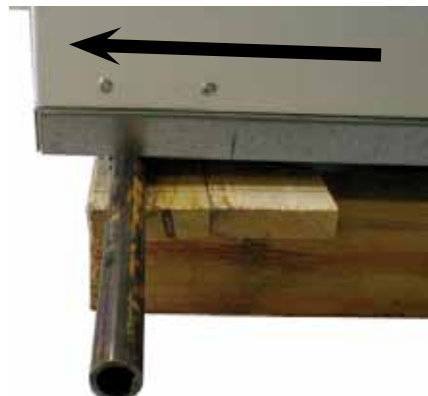
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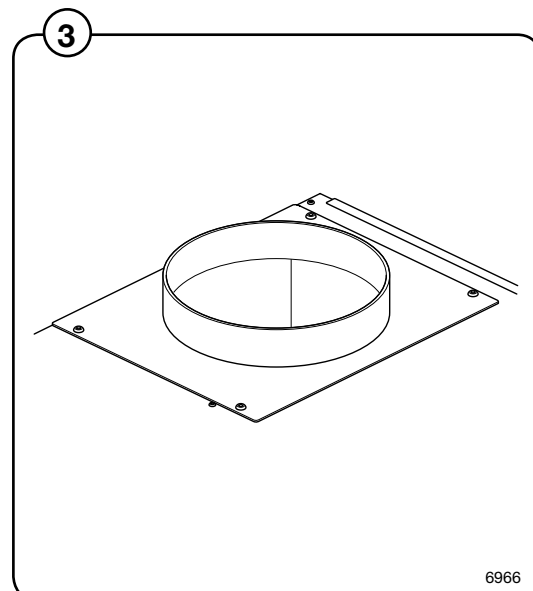
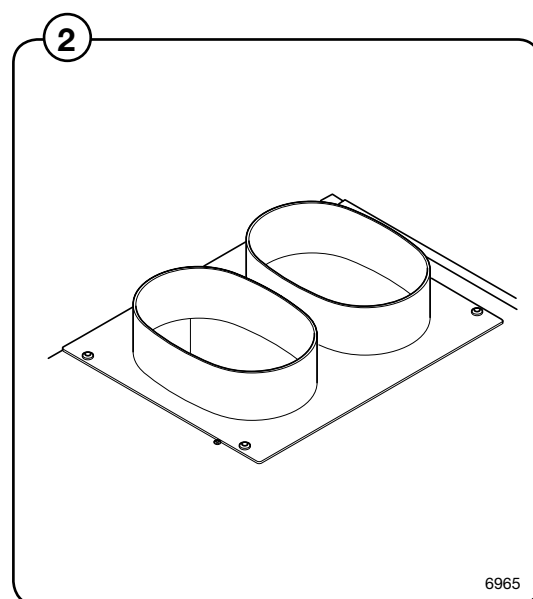
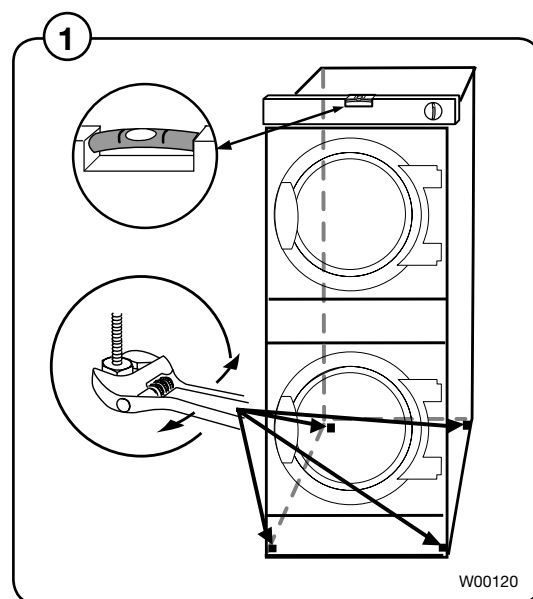
Installation

Mechanical installation

- ① Adjust the dryer to ensure that it is horizontal and stands firmly on all feet. The maximum height adjustment of the feet is 5/8" (15 mm).

Connection branch

- ② Mount the enclosed branch at the top of the exhaust plenum. Use the 4 screws to securely fasten.
- ③ Optional 10" branch can be installed by using the 4 screws to securely fasten.



Evacuation system

Fresh air

- ④ For maximum efficiency and the shortest possible drying time, it is important to ensure that fresh air is able to enter the room from the outside in the same volume as that blown out of the room.
To avoid a draught in the room, it is advisable to place the air inlet behind the dryer.
- ⑤ The area* of the air inlet opening must be 5 times the size of the exhaust pipe area.

The resistance in the grating/slats on the air-inlet cover plate should not exceed 10 Pa (0.1 mbar).

Gas heated: The air consumption is 2 x 600 cu.ft/min (2 x 1,019 m³/h)

*The area of the inlet opening is the area through which the air can flow without resistance from grating/slatted cover.

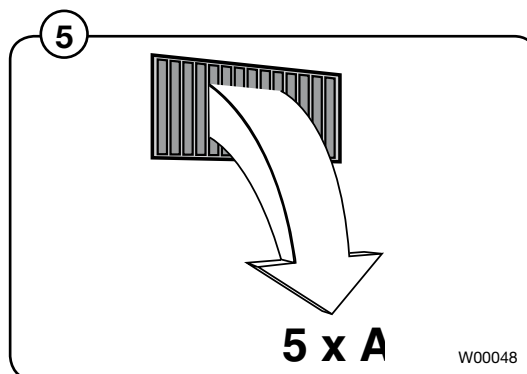
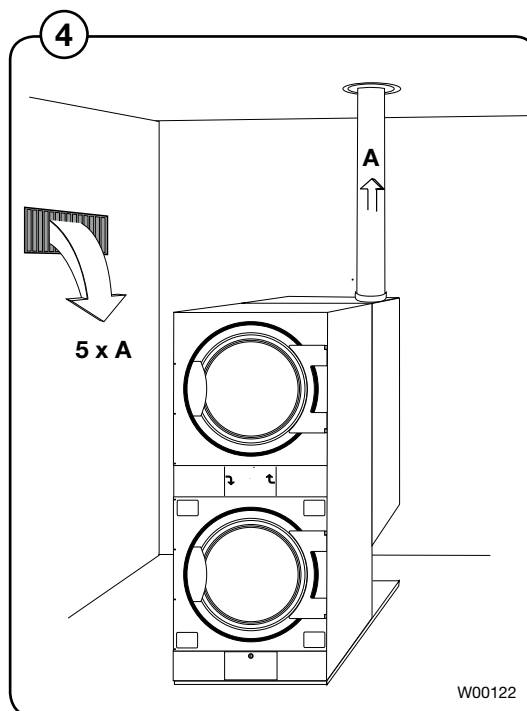
Note that gratings/slatted covers often block half of the total fresh air vent area. Remember to take this into account.

Air principle

The blower creates low pressure in the dryer, drawing air into the drum via the heating unit.

The heated air passes through the garments and the cylinder vents.

The air then flows out through a lint filter (filter drawer) positioned immediately below the drum. After this, the air is evacuated through the fan and exhaust system.



Exhaust duct

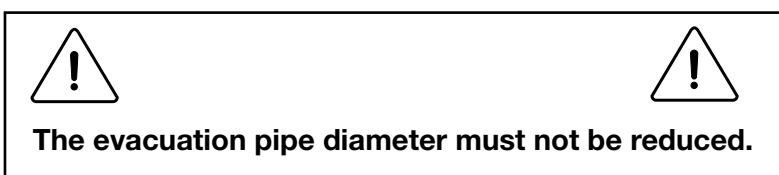
It applies to the exhaust duct that:

- Only rigid or flexible metal duct should be used for exhaust duct (plastic ducting is not to be used).
 - The duct is not to be assembled with screws or other fastening means that extend into the duct and catch lint.
 - The exhaust duct must be smooth on the inside (low air resistance).
 - The exhaust duct must lead into the open.
 - The exhaust air should not be vented into a wall, a ceiling or a concealed space of building
 - The exhaust duct must lead clear of the building as condensation may cause frost damage to the building.
 - The exhaust duct must be protected against rain and foreign objects.
- ⑥
- The exhaust duct must have gentle bends.
 - The exhaust duct must not be a shared duct between dryers and appliances using gas or other fuels as their energy source.

When several dryers share an exhaust duct

- ⑦
- The exhaust duct diameter must increase after each dryer.
The table below shows the exhaust duct diameter and the necessary fresh-air inlet area.

Note! It is recommended that each dryer is connected to a separate exhaust duct.



No. of dryers	1	2	3	4	5
Exhaust duct diameter mm	254	355	406	457	508
inch	10	14	16	18	20
Minimum area of fresh-air intake m ²	0.30	0.60	0.90	1.20	1.50
square feet	3 1/4	6 1/2	9 5/8	13	16 1/8

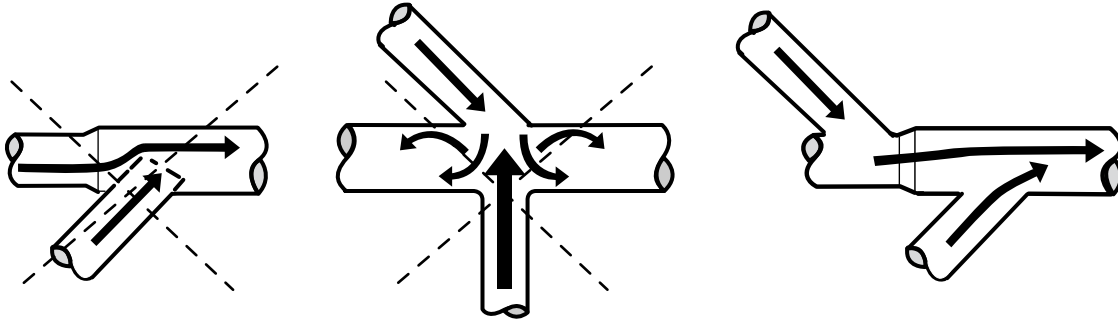
Each dryer requires a fresh-air aperture of 570 x 570 mm / 22 1/2 x 22 1/2 inch.

Service organization/dealer

If you have questions relating to the design of the exhaust system, please contact your local dealer or service organization.

Gentle bends

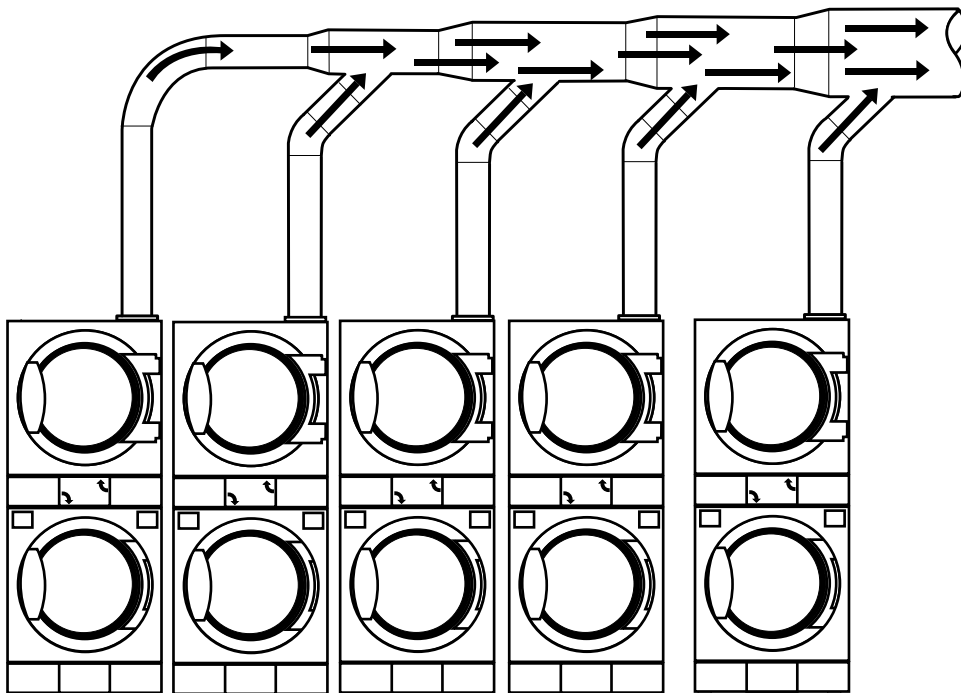
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W00049

Several dryers share an exhaust duct

7



W00123

Exhaust system

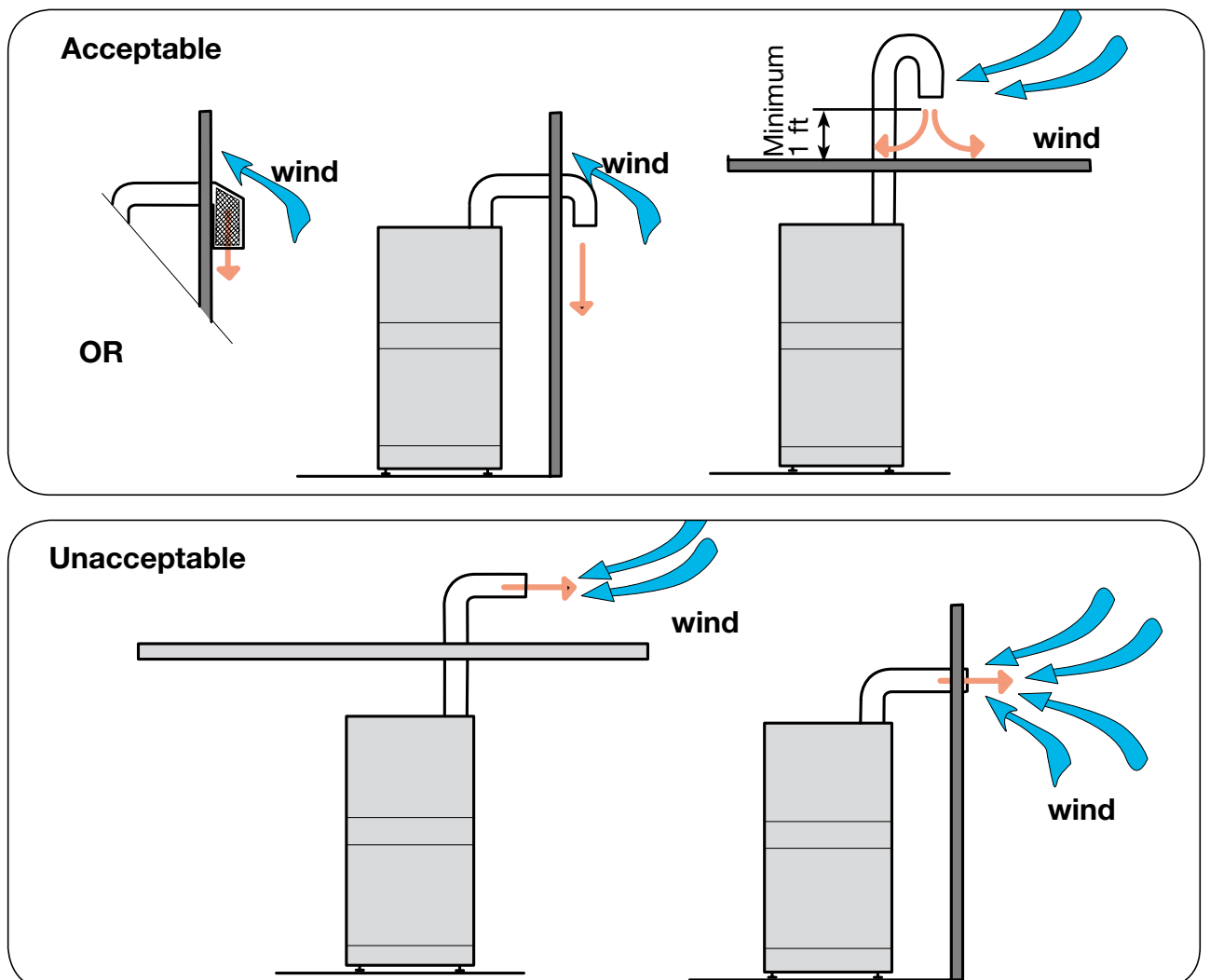
Exhaust duct

The exhaust duct must be designed to minimize backpressure. The end of the exhaust duct must never be exposed to wind pressure.

Maximum duct length

	With 1 elbow	With 2 elbow	With 3 elbow
2 pockets: 10 inch duct	85 ft	65 ft	45 ft
1 pocket: 8 inch duct	85 ft	70 ft	55 ft

Exhaust illustrations

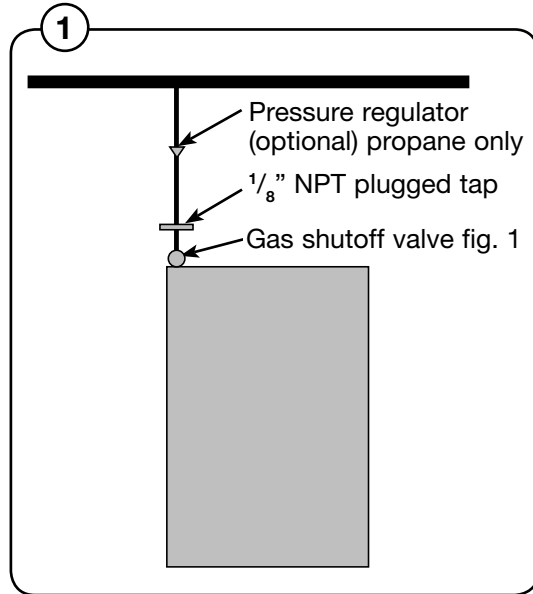


Gas installation

General



It is your responsibility to have all plumbing connections made by a qualified professional to insure that the gas plumbing installation is adequate and conforms with local and state regulations or codes. In the absence of such codes, ALL plumbing connections, material, and workmanship must conform to the applicable requirements of the National Fuel Gas Code ANSI Z223.1/ NFPA 54 or the Canadian Natural Gas and Propane Installation Code, CSA B149.1 (both the latest edition).



① Install a manual gas shutoff valve **A**.

The gas connection to the dryer should be dimensioned to an output depending upon the kW-rating of the dryer.

The factory nozzle pressure setting must correspond to the fuel value given on the data label.

Check that the nozzle pressure and fuel value correspond with the values in the gas tables on the following pages. If not, contact the supplier.

Bleed the pipe system before connecting the machine.

After connection, test all joints for leaks.

The dryer and its individual **shutoff** valve must be disconnected from the gas supply piping system during any pressure testing of the system at test pressures in excess of 1/2 psig (3.5 kPa).

The 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 at test pressures equal to or greater than 1/2 psig (3.5 kPa).

① A minimum 1/8 inch NPT plugged tap, accessible for test gage connection, must be installed immediately upstream from the gas supply connections to the dryer.

Nozzles sizes depending on altitudes

The nozzles have to be ordered separately from the Customer Service Department 516-371-0770

Altitude (ft.)	Nozzle for natural gas	
	Diameter mm (DMS)	Art. No.
0-1999	2.705 (#36)	592 1408-16
2000-3999	2.642 (#37)	592 1408-15
4000-5999	2.578 (#38)	592 1408-14
6000-8000	2.527 (#39)	592 1408-13

Test run

Loosen the pressure measuring tap screw (2) 1/4 of a turn.

Connect a manometer to the measuring tap.

Select a program that uses heat.

Start the dryer.

Check the nozzle pressure, see table.

If necessary adjust the regulator setting screw (4) found behind cover screw (3). Replace cover screw (3) if removed.

Check that the gas is burning evenly and with a bluish flame.

After testing, prepare the dryer for use.

Conversion to propane

Order a special kit for conversion to propane gas.

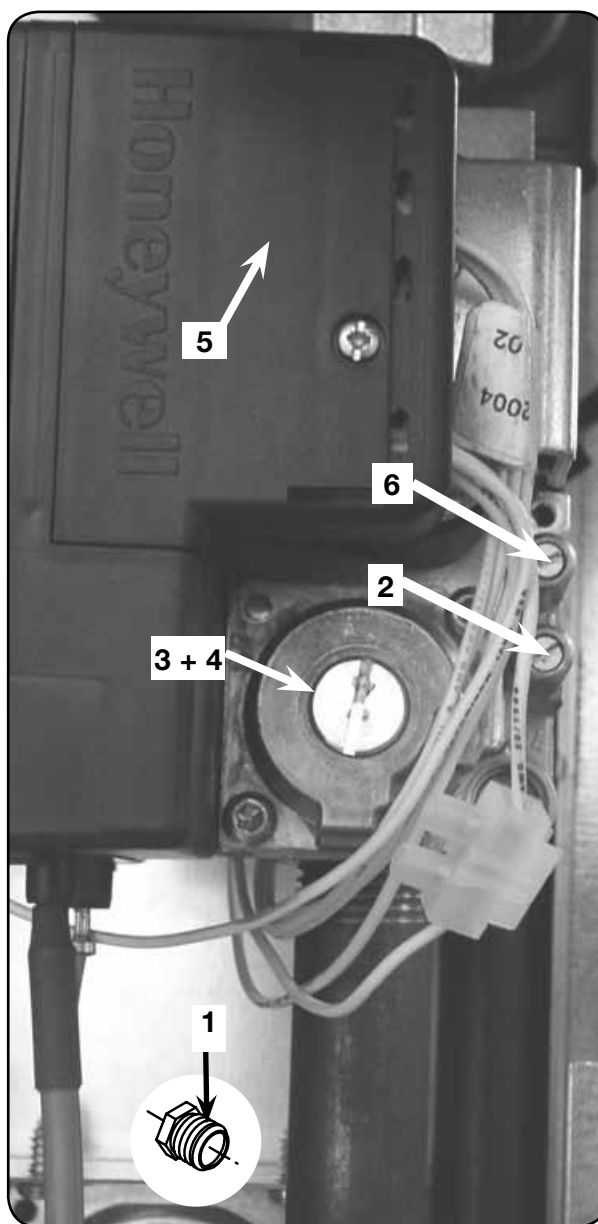
Contact your dealer, or Wascomat, for the part number of the propane conversion kit appropriate for your altitude.

Follow the instructions supplied with the kit.

Please contact your dealer or Wascomat if the current gas type is not propane.

Gas valve

1. Nozzle
2. Measuring branch, nozzle pressure
3. Adjusting screw cap
4. Adjusting screw
5. Ignition control
6. Measuring tap, supply pressure

**Table of pressure and adjustment**

Heat effect 2 x 94,000 Btu/h

** Nozzle dimension at altitude up to 1999 ft

Country	Gas type	Heat effect per pocket Btu/h	Heat effect total Btu/h	Upper calorific value Btu/ft ³	Gas pressure				Ø Nozzle **mm drill number size (#)
					Inlet inch W.C.			Nozzle pressure (Measuring branch 2) inch W.C.	
					Min.	Nom.	Max.		
USA Canada	Propane	94,000	188,000	2,500	11	11	12	10.5	1.613 (#52)
	Natural gas	94,000	188,000	1,000	6	7	12	3.5	2.705 (#36)

Electrical installation

Gas heated tumble dryer



It is your responsibility to have **ALL** electrical connections (including grounding) made by a properly licensed and competent electrician, to assure that the electric installation is adequate and conforms with local and state regulations or codes. In the absence of such codes, **ALL** electric connections, material, and workmanship must conform to the applicable requirements of the **NATIONAL ELECTRIC CODE ANSI/NFPA NO. 70-or the CANADIAN ELECTRICAL CODE, CSA C22.1** - both the latest edition. A separate circuit serving each dryer pocket must be provided. The dryer must be connected to copper wire only. **DO NOT** use aluminum wire which could cause a fire hazard.

NOTE!

The machine is equipped with a control circuit transformer set for an incoming supply of 120 volts or 240 volts.

Connecting power

A wiring diagram is included with each dryer showing the wiring connection sequence.

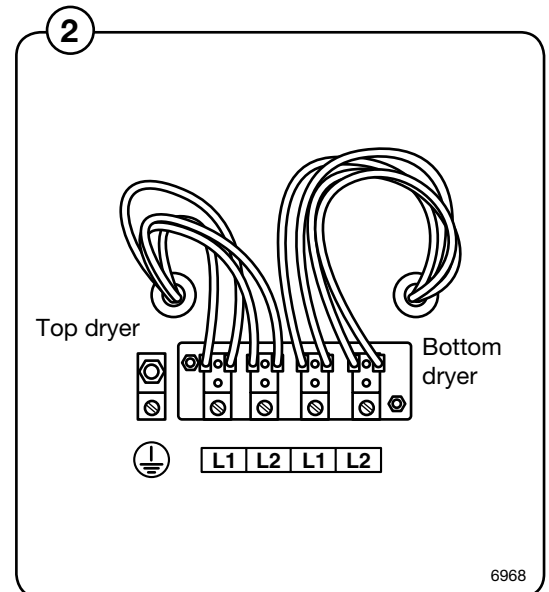
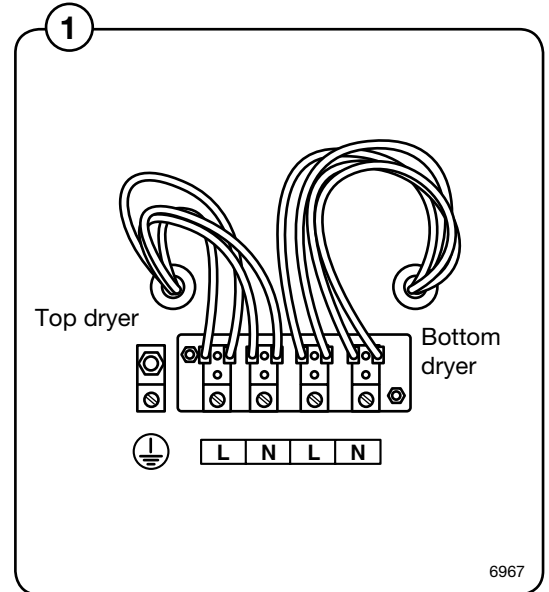
Remove the top plate to connect through supply entrance to the power terminal strip.

- ① (120VAC) The dryer is shipped with five (5) connection points: 2 phases, 2 neutral and one earth terminal, one phase and one neutral is used for each dryer. This configuration is made only to ensure, that relatively small supply can be used. Be aware that the installation must comply with applicable standards, codes and local requirements.
- ② (240VAC) The dryer is shipped with five (5) connection points: 2 phases (L1) and 2 phases (L2). Be aware that the installation must comply with applicable standards, codes and local requirements.

NOTE!

Insert only one wire in each terminal.

Cables are installed with the aid of a screwdriver.



Supply dimension

Refer to local codes to determine proper size of power supply.

Earth conductor shall comply with applicable standards.

Circuit breaker ratings are given below.

Before servicing the tumble dryer

While one tumbler in a dryer is being serviced, the other must not be in use.

If the top dryer or the bottom dryer needs servicing, the remaining tumbler may be kept in service if it is operating properly.

While one pocket is being serviced, all power to the machine must be shut off at the circuit breakers.

Circuit breaker, power consumption and voltages

NOTE!

Use common trip, single-lever circuit breakers only.

Heating alternative	Voltage alternative	Heat effect kW	Motor effect kW	Max. effect kW	Circuit breaker A
Gas heating	120V 1AC 60Hz	0	2x1	2x1	2x15
	240V 1AC 60Hz	0	2x1	2x1	2x15

Function check



Check that the drum is empty and the loading door is closed.

Start the dryer

Check if the switches are working properly:

- The dryer must stop if the loading door is opened.
- The dryer must stop when the lint drawer is opened.

Final test

Let the dryer work for 5 minutes on a program that requires heat.

Then check whether the heating is working by opening the door and feeling the heat.

If the above test-points are in order, the dryer is ready for use.

Service organisation / dealer

If operational problems are encountered, please contact your local service organisation / dealer.

