INSTALLATION MANUAL

DOC NO. 487 19 45 61 REV. 06
US

Wascomat

TD30•30

Wascomat provides efficient washers, dryers, flatwork ironers and wetcleaning systems in a size and model for every laundry and wetcleaning need!

Wascomat Laundry Equipment
1-800-645-2204 • www.wascomat.com

FOR PARTS, SERVICE AND TECHNICAL ASSISTANCE CALL YOUR LOCAL WASCOMAT DEALER

WASCOMAT CUSTOMER SUPPORT

Whether you need spare parts or technical advice to guide you to the source of a malfunction, our nationwide network of authorized dealers are able and ready to serve your needs, or call the Wascomat Customer Service Hotlines listed below.

SPARE PARTS

516-371-2000

Before ordering parts, refer to the Wascomat spare parts manual (also available on www.wascomat.com) to determine the part number(s) for the item(s) you need.

For quick service, please have the following information available:

1. Part Number of the item(s) you need.
2. Model of the machine.
3. Serial number of the machine.
4. Electrical data for the machine:
   – 120 or 208-240 Volt?
   – Single or three phase?
   – 50 or 60 Cycle?

To insure parts order accuracy, only fax or email parts orders are accepted:

– Fax: 516-371-4029
– email: parts@wascomat.com

TECHNICAL SUPPORT

516-371-0700

For service information, first contact your local authorized Wascomat dealer.

Wascomat technical support can assist you or your technician to diagnose and repair your laundry machines over the phone. Please call from the location where the machines are installed (we suggest you use a cellular or cordless phone), and have the following information available:

1. Model of the machine.
2. Serial number of the machine.
3. Electrical data for the machine:
   – 120 or 208-240 Volt?
   – Single or three phase?
   – 50 or 60 Cycle?
4. An accurate description of the malfunction.

To expedite parts order shipment, please use your credit card.
We accept: American Express, Mastercard, Visa, Discover, Diner's Club.

WARRANTY CLAIMS

Wascomat's Technical Support staff will honor valid manufacturer's parts warranty claims providing your Wascomat machines are registered for warranty coverage upon installation. If they are not registered, you can validate your warranty claim by providing information about when and where you purchased the Wascomat machine(s), the model and serial number(s). Additional warranty proof may also be required.

461 Doughty Blvd., Inwood, N.Y. 11096-0338 | Sales and Administration – Tel: 516-371-4400 • Fax: 516-371-4204 • e-mail: sales@wascomat.com
Spare Parts – Tel: 516-371-2000 • Fax: 516-371-4029 • e-mail: parts@wascomat.com | Technical Support – Tel: 516-371-0700 • Fax: 516-371-4029
En Mexico: Llame gratis a este numero 001-800-010-1010

FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE,
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.

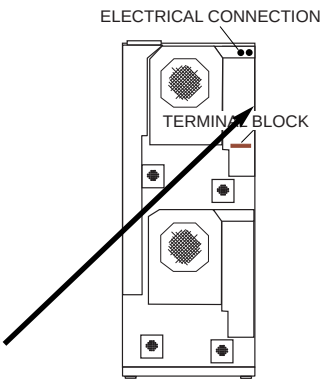
INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE USER SMELLS GAS MUST BE POSTED IN A PROMINIENT LOCATION. THE INSTRUCTIONS TO BE POSTED SHALL BE OBTAINED FROM THE LOCAL GAS SUPPLIER.

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.



Tumble dryer TD30•30

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 AT **516-371-0700.**

Data Label

INTERTEK
ETL
LISTED
c US
Control no.:
3020821
Conforms to UL1240 and ANSI Z 21.5.2 CSA 7.2A (1999)

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

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, personel 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.

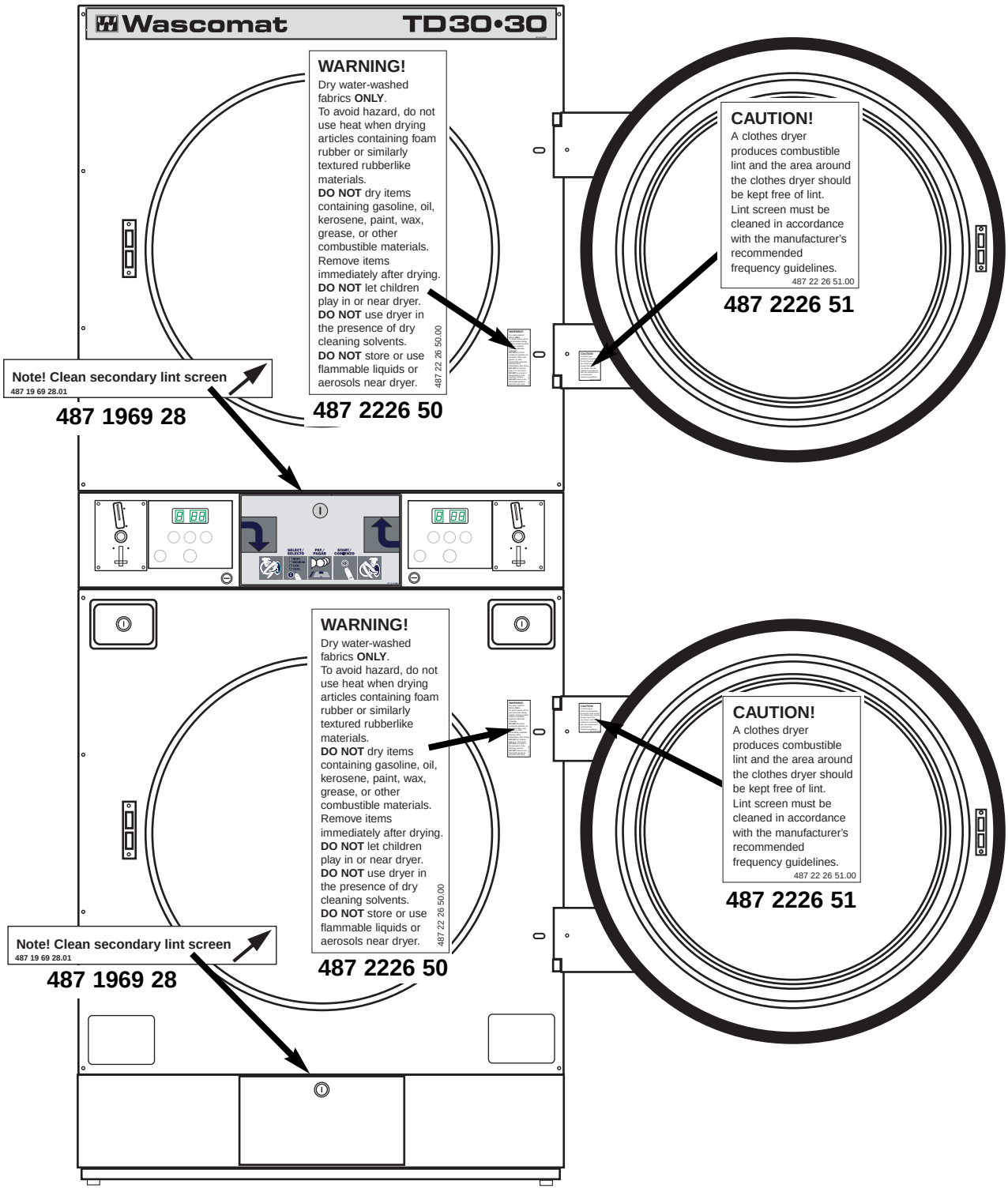
All requests for assistance must include the model, serial number and electrical characteristics as they appear on the machine identification plate.

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

SAFETY AND WARNING SIGNS

Replace If Missing Or Illegible.
These signs must be affixed on each machine.

Front of the dryer



SAFETY AND WARNING SIGNS

Rear of the dryer

CAUTION
A clothes dryer produces combustible lint and should be exhausted outdoors.
See installation-instruction book.
THIS DRYER MUST BE EXHAUSTED TO THE OUTDOORS.

INSTRUCTIONS
INSPECT EXHAUST DUCTING EVERY 6 MONTHS AND REMOVE LINT BUILDUP.

487 18 97 42.02

487 1897 42

WARNING
PLUMBERS BEWARE WHEN PRESSURE TESTING!!!
DRYER MUST NOT BE SUBJECTED TO PRESSURE THAT EXCEEDS 1/2 psig (3.5kPa).
TO DO SO WILL CAUSE GAS LEAKS WHICH CAN RESULT IN FIRE OR EXPLOSION.
TO PROVIDE ADEQUATE COMBUSTION AIR THE FRESH AIR INTAKE MUST BE INSTALLED ACCORDING TO THE INSTALLATION MANUAL.

487 22 26 52.00

487 2226 52

Får ej övertäckas
Do not cover
Nicht überdecken
Ne pas couvrir
Må ikke overdækkes
Ei saa peittää
Non coprire

487 19 69 74.00

487 1969 74

487 18 97 34.02

487 1897 34

GB Warning: Before obtaining access to terminals, all supply circuits must be disconnected.
FR Avertissement : Avant d'accéder aux bornes, tous les circuits d'alimentation doivent être déconnectés
IT Attenzione: prima di accedere ai morsetti, scollegare tutti i circuiti di alimentazione.
DE Warnung: Bevor auf die Klemmen zugegriffen wird, müssen alle Versorgungskreise unterbrochen werden.
DK Advarsel: Alle forsyningskredse skal afbrydes, før der åbnes for adgang til klemmerne.
SE Varning: All strömförsörjning skall brytas, innan elkopplingsboxen öppnas.
FI Varoitus: kaikki syöttövirtapiirit on katkaistava ennen liitäntöjen paljastamista.

487 22 26 48.00

487 2226 48

Får ej övertäckas
Do not cover
Nicht überdecken
Ne pas couvrir
Må ikke overdækkes
Ei saa peittää
Non coprire

487 19 69 74.00

487 1969 74

DO NOT STEP HERE

487 19 24 73.01

487 1924 73

487 18 97 33.02

487 1897 33

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: A separate circuit serving each dryer 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 use of aluminum wire will **VOID THE WARRANTY**

Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper operation or component failure.

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** or the **CAN/CGA-B149, INSTALLATION CODES** - 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 shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or greater than ½ 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

The gas dryer installation must meet the American National Standard, National Fuel Gas Code Z223.1-LATEST EDITION, as well as local codes and ordinances and **must be** done by a qualified professional.

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 (516-371-0700).

Gas Information

Gas Data

Natural Gas
The natural gas supply pressure to the dryer **must be** between 6 and 10 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** 4.2-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** 11 inches water column. In accordance with American Gas Association (AGA) 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 ½" NPT. inlet pipe connection extending out the rear area or through 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 ¾-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.

(continued next page)

Gas Information

IMPORTANT: Water column pressure of 4.2 -inches for natural gas dryers and 11.0 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" 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.

Tumble dryer

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 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.

The machine must not be installed or stored in an area where it will be exposed to water and/or weather.

Mechanical, electrical and gas installations and service must only be carried out by qualified 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 froam 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 freguency 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.

Contents

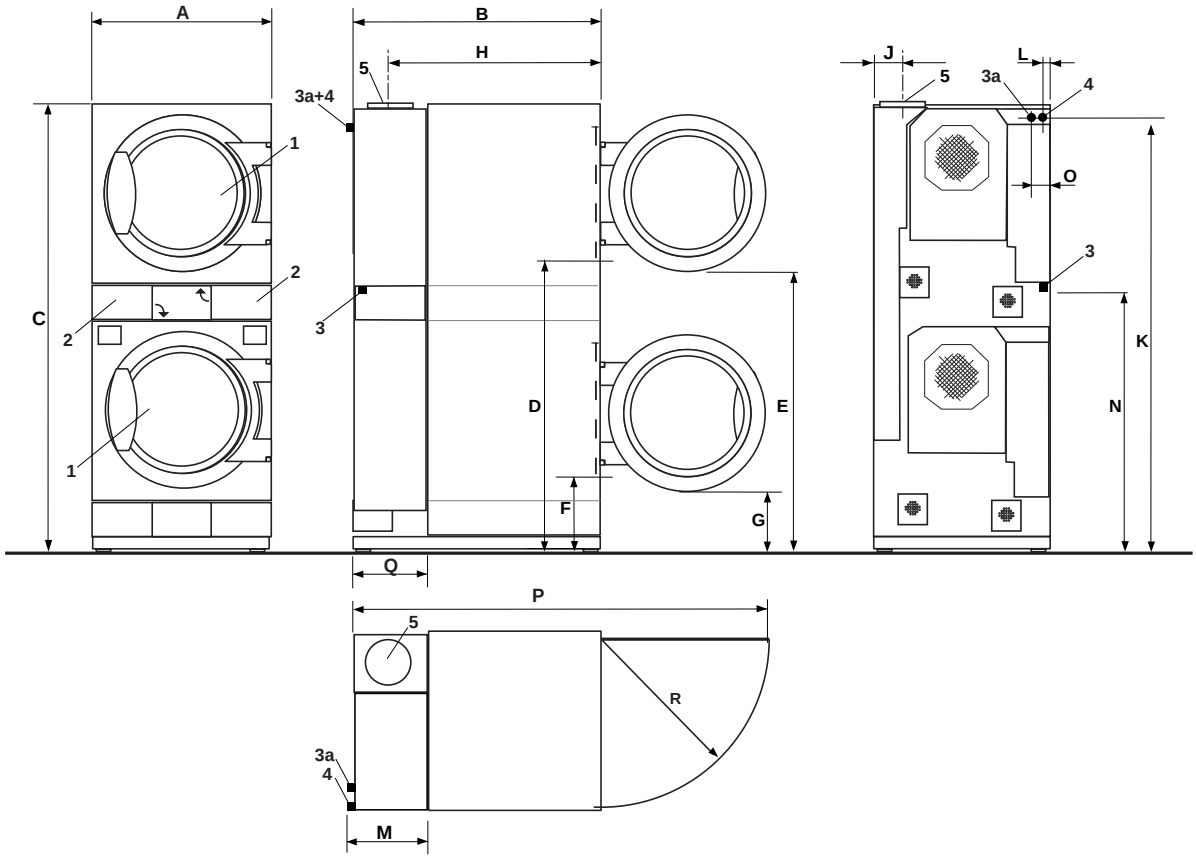
Contents:

The manufacturer reserves the right to modify design, material and specifications without notice.

Dimensions type TD30•30

1	Door opening = Ø 580 mm
2	Operating panel
3	Electric connection, **3a** only in USA
4	Gas connection
5	Pipe connection, evacuation

	A	B	C	D	E	F	G	H	J	K	
mm	790□	1110□	1960□	1270□	1210□		320□	260□	925□	125□	1910
inch□	31 1/8"□	43 3/4"□	77 1/4"	50"□	□ 47 5/8"	□	12 5/8"□	10 1/4"□	36 3/8"□	4 7/8" □	75 1/8"□
	L	**M**	**N**	**O**	**P**	**Q**	**R**				
mm	30 □	350□	1130□	105□	1840□	330	740				
inch□	1 1/8"□	13 3/4"□	44 1/2"□	4 1/8"□	72 1/2"□	□	13'29 1/8"				



Technical data, TD30•30, Gas heating

Cylinder volume:		2x300 liter	2x10.6 cu.ft.
Weight:	Net	282 kg	620 lb
Cylinder:	Diameter	760 mm	29 15/16”
	Depth	660 mm	26”
	Revolutions per minute	45 rpm	45 rpm
Capacity:		2 x 13.6 kg	2 x 30 lb
Motor single phase:	Effect of vent motor	1 x 400W	1 x 0.54 hp
	Effect of cylinder	1 x 520W	1 x 0.7 hp
Revolutions per minute:	Motor 60 Hz	3200 rpm	3200 rpm
Heat effect:	Gas heating	2 x 21 kW	2 x 71600 BTU/h
Air consumption:	Gas 2x 21 kW	2 x 650 m^3/h	2x383 cu.ft/min
Piping:	Exhaust	Ø 200	ø8”
Pressure drop:	Exhaust (max.)	90Pa	0.35”W.C
Gas piping:		ISO 7/1-R1/2	1/2” NPT
Gas pressure:	See page regarding pressure		
Sound pressure level:		< 70 dB (A)	< 70 dB (A)

Setup, TD30•30

Unpacking

Unpack the dryer with care.

The cylinders are not fitted with any special packing materials.

Positioning

Locate the dryer to ensure easy use and service.

1 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.

The door swing direction can be changed

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

Mounting of dryer feet

Place the dryer into position.

The dryer is fastened to the pallet by four screws.

At the front of the dryer:

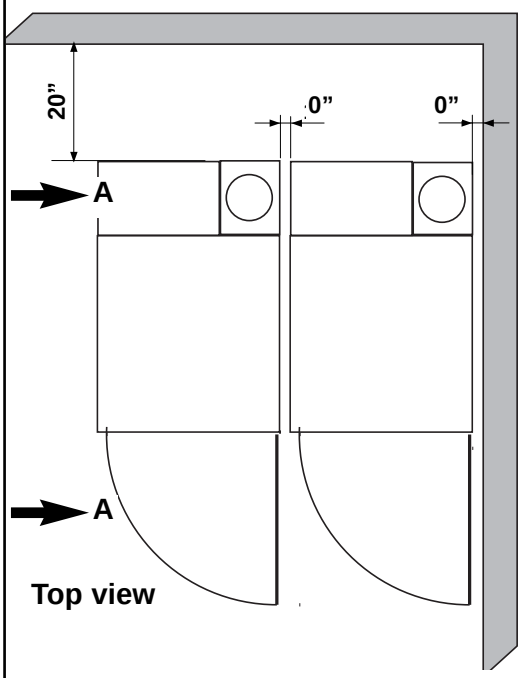
Unscrew the 2 screws from underneath the pallet.

At the back of the dryer

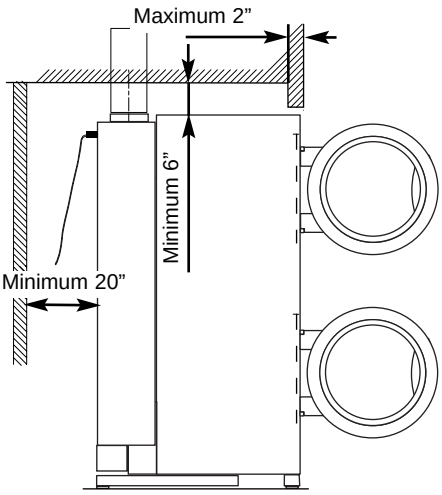
Unscrew the 2 screws from the top of the base.

2 Tilt the tumble dryer and mount the 4 feet enclosed.

1

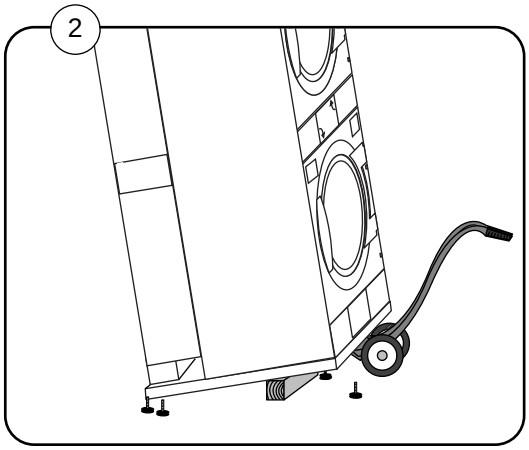


Top view



Section A-A

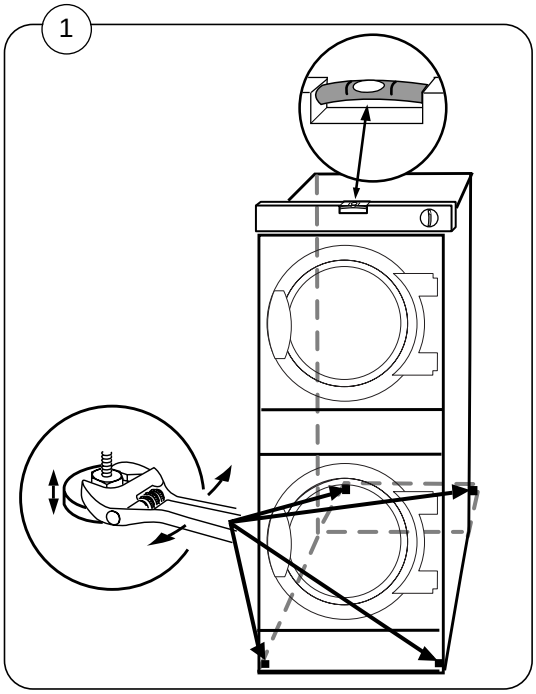
2



Mechanical installation

1 Adjust the dryer to ensure that it is horizontal and stands firmly on all four feet.

The maximum height adjustment of the feet is 5/8” (15 mm).



Reversing door

The dryer is usually delivered with a right-hinged door but the door can easily be changed to left-hinged.

Reversing

2 Disconnect the power supply to the dryer.

Unscrew the door and the front panel.

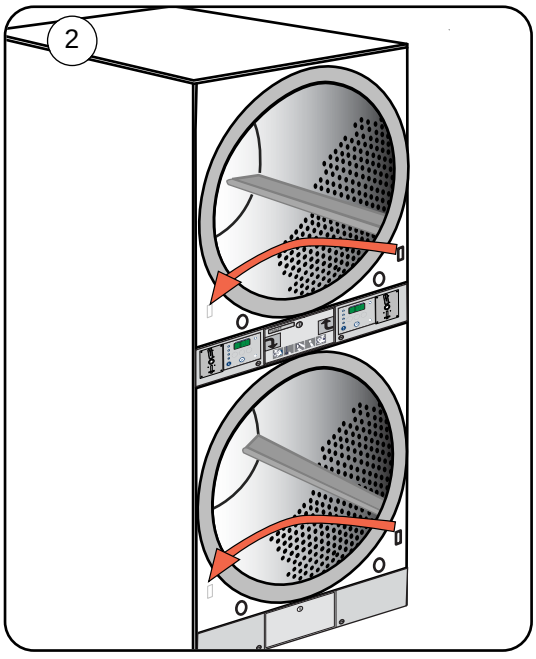
Disconnect the wires to the door microswitch.

Move the microswitch to the opposite side where wires have been factory provided.

Connect the switches to the wires. Use the same 2 terminals from which the wires were previously removed.

On the bottom front plate: Dismantle the cover plate for the coin box and move it to the opposite side.

Reverse the front panel and door.

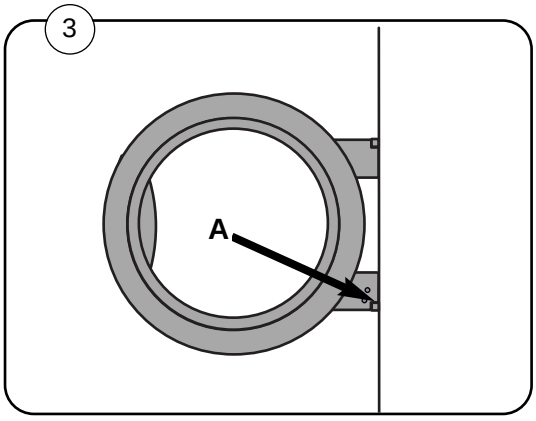


Test the door

Connect the power supply.

Start the dryer.

3 Check that the fan, drum rotation and heat all stop when the door is opened max. 10mm(3/8”). If it is possible to open the door more than 10 mm(3/8”) before the dryer shuts off, it is necessary to adjust the activating pin on the door **A**.



Exhaust system

Fresh-air

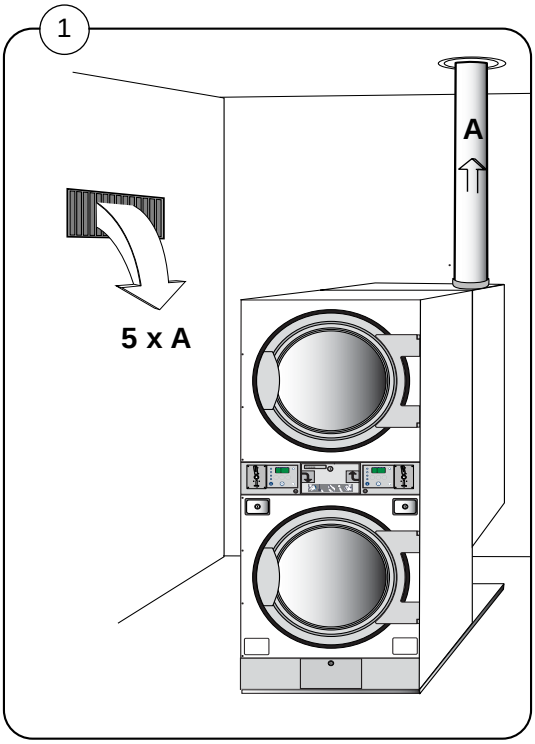
1 For maximum efficiency and the shortest possible drying time, it is important to ensure that fresh air is able to enter the room from the outside in the same volume as that blown out of the room.
To avoid a draught in the room, it is advisable to place the air inlet behind the dryer.
The area* of the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

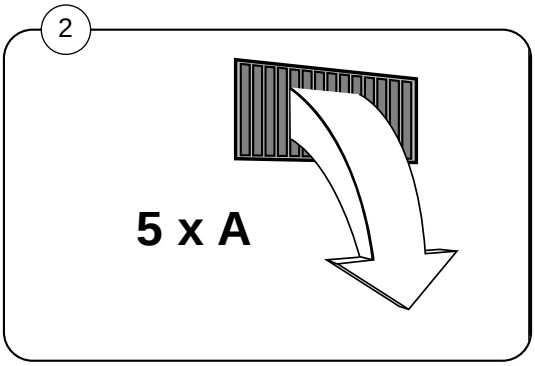
The resistance in the grating/slats on the air-inlet cover plate should not exceed 10 Pa (0.1 mbar).

2 **Gas heated**: The air consumption is 2 x 383 cu.ft/min (2 x 650 m^3/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 fan creates low pressure in the cylinder, drawing air into the dryer 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.

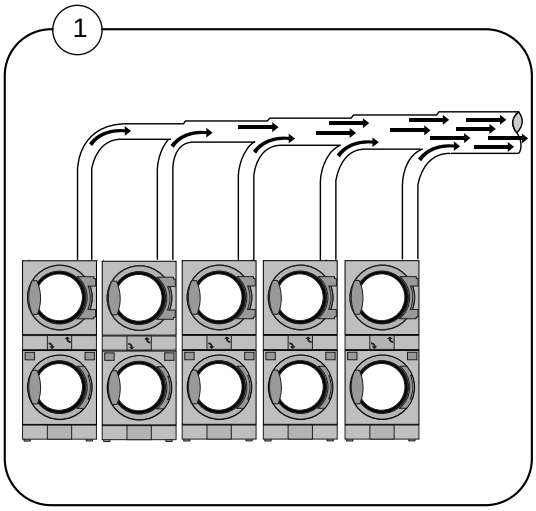
Exhaust system

Exhaust system for installation of several machines with a shared exhaust duct

Exhaust duct

It is recommended to connect each machine to a seperate, smooth exhaust duct with the lowest possible air resistance.

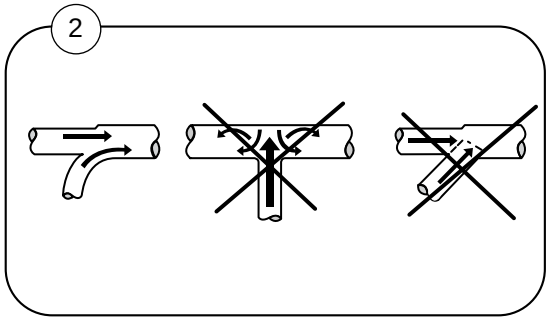
1 When installing several machines on shared exhaust pipe, increase the area of the pipe with each additional machine so that each dryer will be working at the same air resistance. Fig 1 and the table show in simplified form how the exhaust pipe should look.



The outlet

The pipe must lead into the open, where lint and steam will not be a hazard.
The outlet must be protected against rain and foreign objects, and must point downward.

Note! In cold areas, condensation may cause frost damage to the building.



Gentle bends

2 To keep the air flowing, ensure proper dryer operation, and minimize lint buildup in the exhaust system, never connect ducts at right angles, always use gentle bends. See fig. 2.

Service organization/dealer

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

No. of dryers	1	2	3	4	5	6	7	8	9	10
Minimum air outlet pipe diameter mm / inches	200 8”	280 11”	315 12 3/8	355 14”	400 15 3/4”	450 18”	475 18 3/4”	500 19 5/8”	535 21”	560 22”
Required area of fresh-air inlet pipe m² / square feet (minimum)	0.15 1 5/8	0.30 3 1/4	0.45 4 7/8	0.60 6 1/2	0.75 8 1/16	0.90 9 5/8	1.05 11 5/16	1.20 13	1.35 14 1/2	1.50 16 1/8

Each machine requires a fresh-air aperture of 400 x 400 mm / 15 3/4” x 15 3/4”

Exhaust system

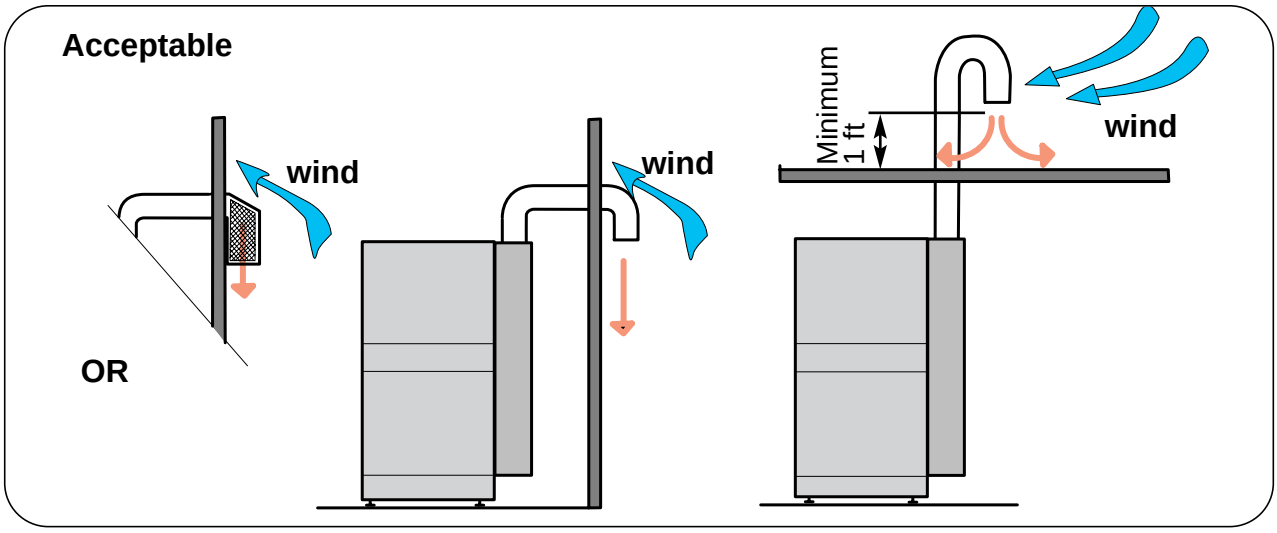
Exhaust duct

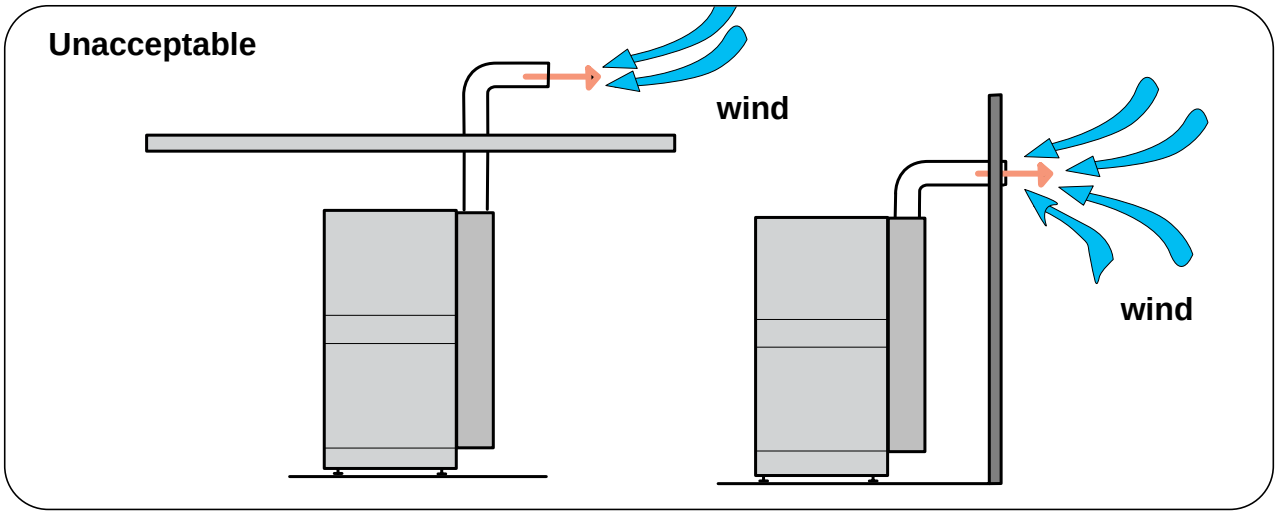
The exhaust duct must be designed to minimize backpressure. The end of the exhaust duct must never be exposed to wind pressure.

Maximum duct length

	With 1 elbow	With 2 elbow	With 3 elbow
TD30•30	30 ft	24 ft	18 ft

Exhaust illustrations





Gas installation

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-LATEST EDITION.**

Install the provided manual gas shutoff valve upstream from the dryer.

The gas connection to the machine should be sized for output of 2 x 71600 Btu/h =143200 Btu/h.

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

Check that the nozzle pressure and fuel value agree with the values given in the table. If not, contact your gas supplier.

Bleed the pipe system before connecting the machine.

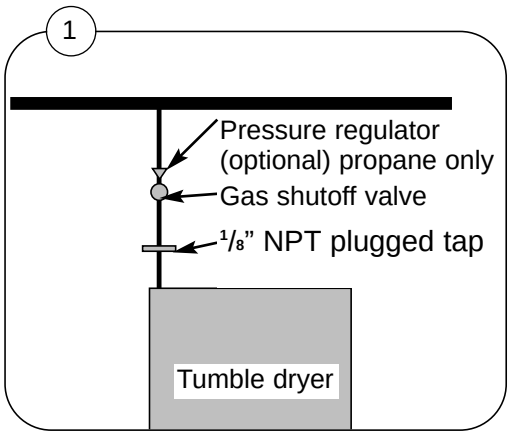
After connection, test all joints for leaks.

For gas valves, pressure and adjustment tables, see pages regarding gas valves.

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).

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 ⅛ inch NPT plugged tap, accessible for test gage connection, must be installed immediately upstream of the gas supply connections to the dryer.



Gas installation

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)	Art. no.
0-1999	3.8	471 98 53 60
2000-3999	3.7	471 98 53 73
4000-5999	3.6	471 98 53 88
6000-8000	3.4	471 98 53 58

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.

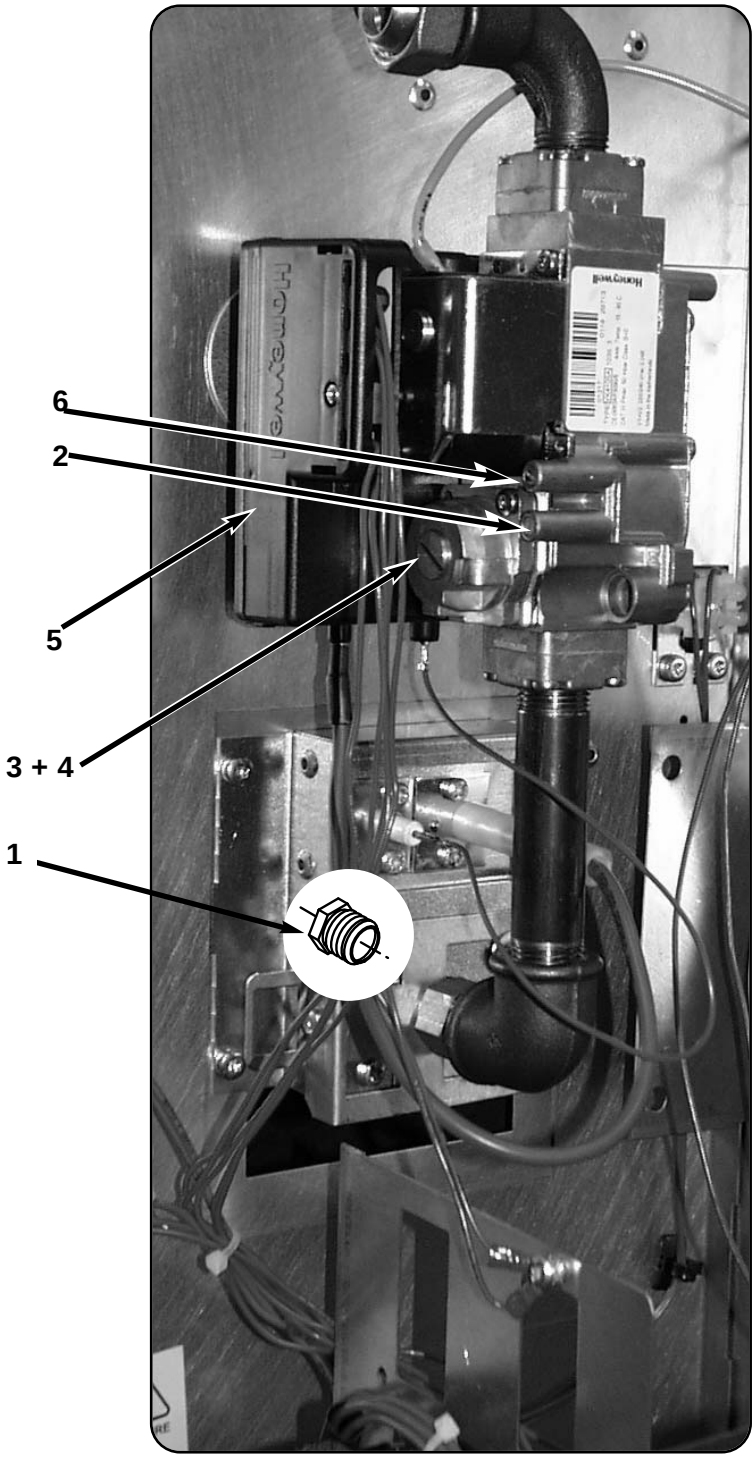
Contact your dealer, or Wascomat, for the part number of the propane conversion kit appropriate for your altitude.

Follow the instructions supplied with the kit.

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

Gasvalve

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



Tables of pressure and adjustments

heat effect 2 x 71600 Btu/h

Country	Gas type	Heat effect per pocket Btu/h	Heat effect total Btu/h	Upper calorific value MJ/m3	Gas pressure Inlet inch W.C. Min.	Nom.	Max.	Nozzle pressure (Measuring branch 2) inch W.C.	Ø Nozzle
USA Canada	**Propane**	71600	143200	93.7	10	11.0	13	11.0	2.4
	Natural gas	71600	143200	37.78	6	7.0	10	4.2	3.8

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 **must** be provided. The dryer must be connected to copper wire only. **DO NOT** use aluminum wire which could cause a fire hazard.

Important

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

Connecting power:

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

Remove the cover plate at the back of the dryer to connect through supply entrance to the power terminal strip.

1

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.

NOTE Insert only one wire in each terminal.

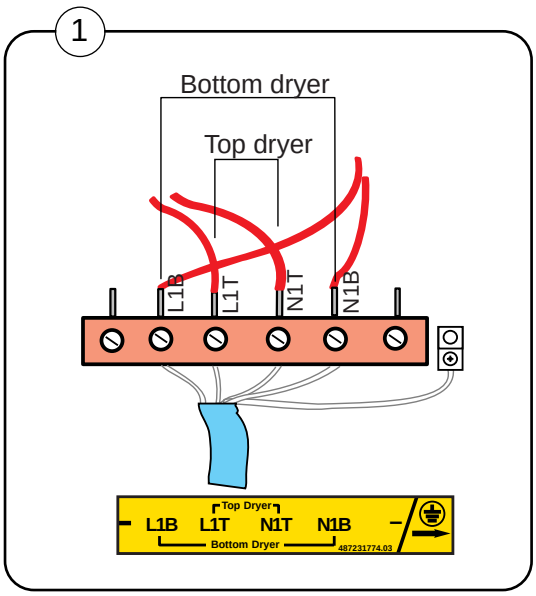
Supply dimension:

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

Earth conductor shall comply with applicable standards.

Circuit breaker raitings are given on the following page.

1



Electrical installation Gas heated tumble dryer

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.

Function check see next page

(**NB**: Correct direction of rotation is important!)

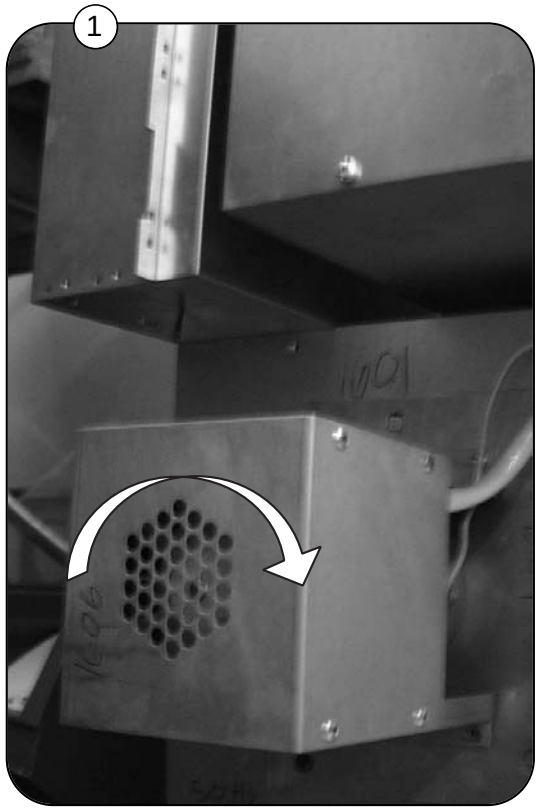
Circuit breaker, power consumption and voltages

Note: Use common trip, single-lever circuit breakers only

Gas heating	Voltage	Motor effect kW	Circuit breaker
Top dryer / bottom dryer	120V 1AC / 120V 1 AC (L1T + N1T) / (L1B + N1B)	2 x 1	2 pole 15A

Function check

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



Checking the interlocks

Start the dryer.

Check whether the interlocks are working properly:

• The dryer **must** stop if the loading door is opened.

• The dryer **must** stop when the lint drawer is opened.

Correct direction of rotation

For dryers with a 3-phased motor the direction of rotation must be checked.

Check the direction of rotation of the **blower motor:**

(1) 1. **Fig. 1** Correct direction of rotation must be **clockwise.**

If the direction of rotation is not correct, swap two phases on the power input connection terminal block.

Final test

Start the dryer and allow it to operate for 5 minutes on a program that requires heat.

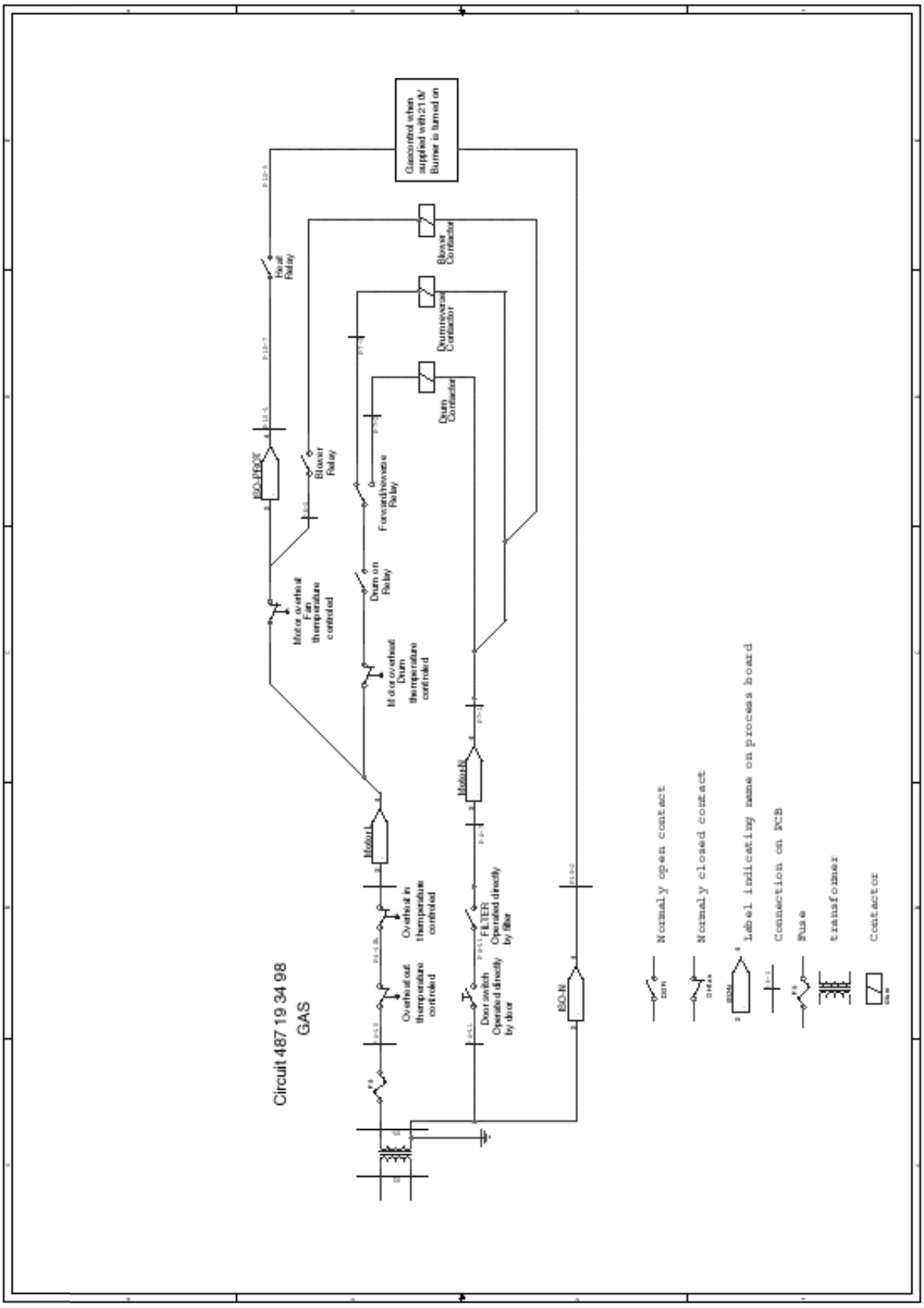
Then check whether the heating is working by opening the loading door and feeling the heat.

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

Service organization / dealer

If operationel problems are encountered, please contact your local service organization / dealer.

Safety circuit



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Backed by a company that's been in the laundry equipment business for over 100 years and has earned a reputation as the standard of quality worldwide, Wascomat dealers provide:

– Free survey of your laundry needs

– Laundry design and layout

– Quality laundry equipment in a size and model for every need

– Installation, start-up and training

– Worldwide parts and service

– Best warranty in the business

– ***"Lease-a-Laundry Program"***, which includes the laundry equipment installation and ongoing service

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Wascomat provides efficient, quality washers, dryers, flatwork ironers and non-polluting wetcleaning equipment.

FRONT-LOAD WASHER MODELS

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Pullman, Side-Load, Barrier and Clean Room washer models with high 300 to 350 G-Force extraction, designed and built for long, trouble-free life and big water and energy savings. **Available from 55 to 250 lb. capacities.**

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