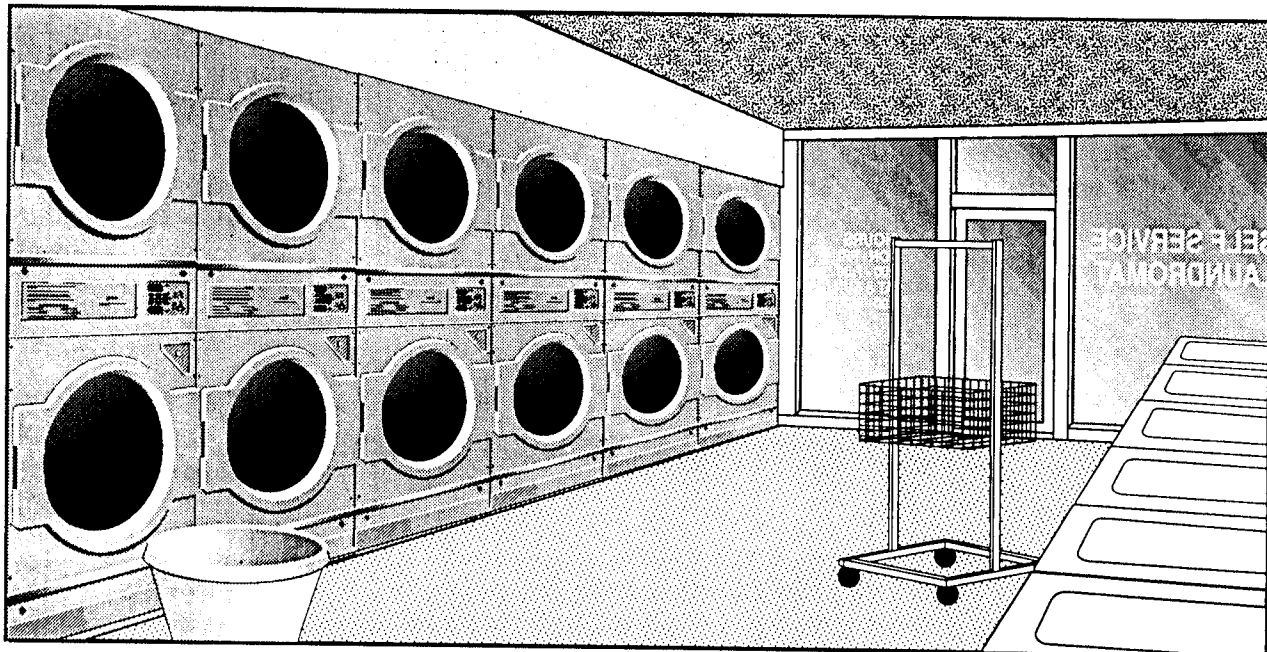




COMMERCIAL DRYER - 30 lb. STACKED MODELS INSTALLATION AND OPERATING INSTRUCTIONS



LEAVE THESE INSTRUCTIONS WITH THE OWNER

RETAIN THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE.

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INSTALLATION INSTRUCTIONS

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

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.

The following caution should 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.

You should caution users of this product: *Not to permit children to play in, on, with or around this equipment and that children should be supervised if near at hand when the equipment is in use.*

CAUTION

Label ALL wires prior to disconnection when servicing the computer board and the ignition module. Wiring errors can cause improper and dangerous operation.

Please post in a prominent location. Instructions to be followed in the event the user smells gas. The information posted shall be obtained by consulting with your local gas supplier.

The wiring diagram for the dryer is located in the front electrical control box.

This product embodies advanced concepts in engineering, design and safety. If this product is properly maintained, it will provide many years of safe, efficient, and trouble-free operation.

ONLY qualified professional technicians should service this equipment.

Observe all safety precautions displayed on the equipment or specified in the installation instructions included with the dryer.

Under **NO** circumstances should the dryer door switch or the heat circuit safety devices ever be disabled.

We have tried to make these instructions as complete as possible and hope you will find it useful. Manufacturer reserves the right to make changes from time to time, without notice or obligation, in prices, specifications, colors, and materials and to change or discontinue models.

For replacement parts, contact the distributor from which the dryer was purchased or contact:

Maytag
One Dependability Square
Newton, Iowa 50208
(515) 792-7000

IMPORTANT

For your convenience, log the following information:

Date of Purchase _____ Model No. _____

Distributor's Name _____

Serial Number(s) _____

NOTE: The model number(s) and serial number(s) can be found on the data label located on the back side of the control (middle) door.

IMPORTANT INFORMATION

RECEIVING AND HANDLING

The dryer is shipped in a protective stretch wrap cover and protective cardboard corners and top cover as a means of preventing damage in transit. Upon delivery, the dryer and wooden skid should be visually inspected for shipping damage. If any damage whatsoever is noticed, inspect further.

When dryers have been damaged in shipment, follow these procedures:

1. All dryers should be inspected upon receipt and before they are signed for.
2. If there is suspected damage or actual damage, the trucker's receipt should be so noted.
3. If the dryer is damaged beyond repair, it should be refused. Those dryers which were not damaged in a damaged shipment should be accepted, but the number received and number refused must be noted on the receipt.
4. If you determine that the dryer has been damaged after the trucker has left your location, you should call your local freight terminal immediately and request an inspection and freight claim form. The freight company considers this concealed damage. This type of freight claim is very difficult when a day or two passes after the freight was delivered.
5. Freight claims are the responsibility of the consignee, and all claims must be filed at receiving end. Manufacturer

assumes no responsibility for freight claims or damages.

IMPORTANT: THE DRYER SHOULD BE TRANSPORTED AND HANDLED IN AN UPRIGHT POSITION AT ALL TIMES.

SAFETY PRECAUTIONS

1. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
2. Purchaser/user should consult the local gas supplier for proper instructions to be followed in the event the user smells gas. The instructions should be posted in a prominent location.
3. Dryer must be exhausted to the outdoors.
4. Although this commercial dryer is a very versatile machine, there are some articles that, due to fabric composition or cleaning method, should not be dried in it.

WARNING: DRY ONLY WATER-WASHED FABRICS. DO NOT DRY ARTICLES SPOTTED OR WASHED IN DRY CLEANING SOLVENTS, A COMBUSTIBLE DETERGENT, OR "ALL PURPOSE" CLEANERS. FIRE OR EXPLOSION COULD RESULT.

WARNING: DO NOT DRY RAGS OR ARTICLES COATED WITH GASOLINE, KEROSENE, PAINT, WAX, OIL, OR GREASE. FIRE OR EXPLOSION COULD RESULT.

WARNING: DO NOT DRY MOPHEADS. CONTAMINATION BY WAX OR FLAMMABLE SOLVENTS WILL CREATE A FIRE HAZARD.

WARNING: DO NOT USE HEAT FOR DRYING ARTICLES THAT CONTAIN PLASTIC, FOAM, SPONGE RUBBER, OR SIMILARLY TEXTURED RUBBER-LIKE MATERIALS. DRYING IN A HEATED TUMBLER MAY DAMAGE PLASTICS OR RUBBER AND ALSO MAY BE A FIRE HAZARD.

5. A program should be established for the inspection and cleaning of the lint in the burner areas and exhaust duct work. The frequency of cleaning can best be determined from experience at each location.

WARNING: THE COLLECTION OF LINT IN THE BURNER AREA AND EXHAUST DUCT WORK CAN CREATE A POTENTIAL FIRE HAZARD.

6. For personal safety, the dryer must be electrically grounded in accordance with local codes and/or the National Electric Code ANSI/ NFPA No. 70 (Latest Edition).

NOTE: Failure to do so will void the warranty.

7. Under no circumstances should the dryer door switch(es) or heat safety devices ever be disabled.

WARNING: PERSONAL INJURY OR FIRE COULD RESULT.

8. Articles being dried should never be left unattended for an extended period of time in the tumbler after completion of the drying and cooling cycles.

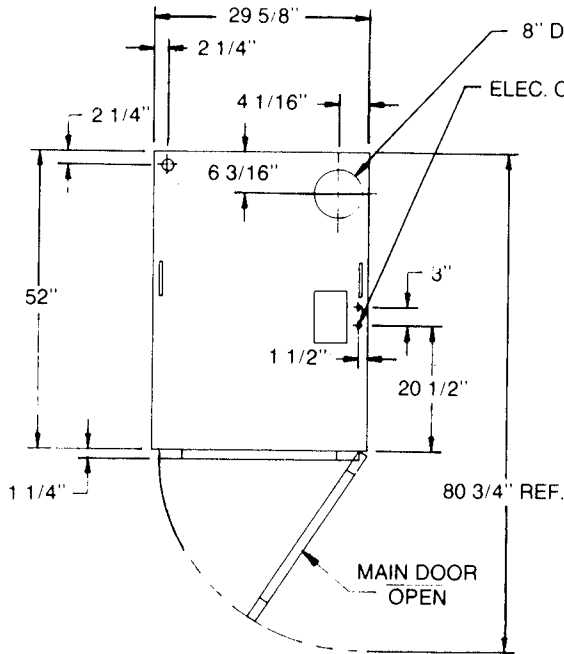
WARNING: ARTICLES LEFT IN THE DRYER AFTER THE DRYING AND COOLING CYCLES HAVE BEEN COMPLETED CAN CREATE A FIRE HAZARD.

9. This dryer is not to be used in the presence of dry cleaning solvents or fumes.

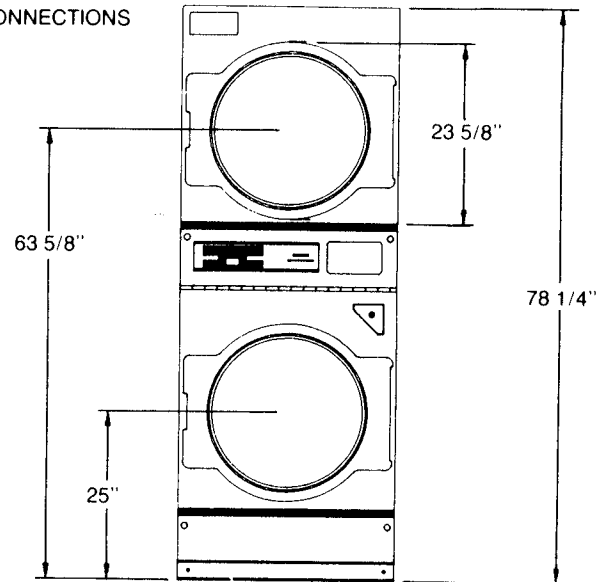
10. Read and follow all caution and direction labels attached to the dryer.

11. A minimum of six (6) inches (24 inches recommended) must be left behind the dryer to allow adequate clearance for air openings into the combustion chamber.

SPECIFICATIONS

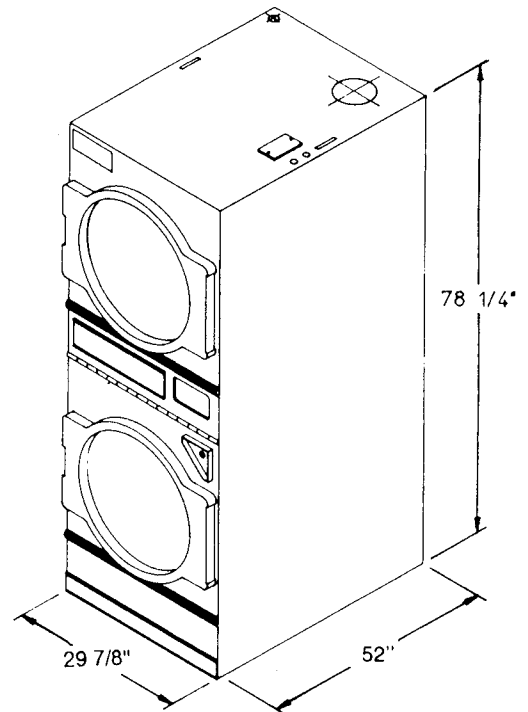


PLAN VIEW



FRONT VIEW

SPECIFICATIONS	
TUMBLER CAPACITY (Dry weight)	30 lbs.
TUMBLER (Basket) DIAMETER	27 1/4"
TUMBLER (Basket) DEPTH	30"
DOOR OPENING	21 1/2" Dia.
APPROX. WEIGHT (Uncrated)	850 lbs.
APPROX. SHIPPING WEIGHT	880 lbs.
MOTOR (Horsepower)	1 2 HP
EXHAUST DUCT OUTLET	8" Dia.
AIR FLOW (Total for both tumblers)	800 CFM
GAS INLET CONNECTION	3/4" NPT
GAS INPUT (Total for both Tumblers)	144,000 BTUH
ELECTRIC REQUIREMENTS (Per tumbler)	8 AMPS
115 VOLTS, 1 PHASE	



NOTE: Manufacturer reserves the right to make changes in specifications at any time, without notice or obligation.

NOTE: To provide proper clearance for lint and service access panels, at least 1/4" clearance should be allowed between dryers.

INSTALLATION PROCEDURES

Installation should be performed by qualified professionals in accordance with local and state codes. In the absence of these codes, installation must conform to applicable American National standards:

ANSI Z223.1 - Latest Edition (National Fuel Gas Code)
and/or
ANSI/NFPA No. 70 - Latest Edition (National Electric Code)

UNPACKING/SETTING UP

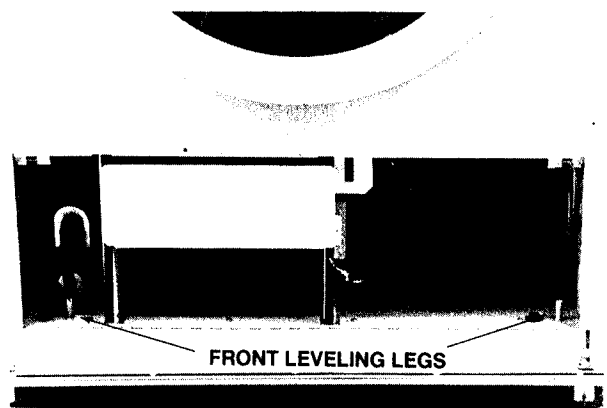
Remove stretch wrap protective cover, shipping corners and top cover from dryer.

NOTE: The access keys to the service doors are included in the information packet shipped in the top tumbler. These keys should be removed and put in a safe place. Yet, made accessible because some will be needed throughout various phases in the installation of the dryer.

The dryer can be moved to its final location while still attached to the skid or with the skid removed. To unskid the dryer, locate and remove the four (4) bolts securing the base of the dryer to the wooden skid. Two (2) are located at the rear of the base, and two (2) are located in the front. Once the bolts are removed, slide the dryer off the skid.

With the skid removed, to make it easier to slide the dryer into its final position, slightly lower all leveling legs so that the dryer will slide on the legs instead of the base frame. The dryer is equipped with four (4) leveling legs, one at each corner of the drying base.

The slotted adjustment bolts for the two front leveling legs are located directly behind the lower access door, and the rear two adjustments are directly behind the lower rear back (guard) panel.



LOCATION OF THE DRYER

Before installing the dryer, be sure the location conforms to local codes and ordinances.

The dryer must be installed on a sound, level floor capable of supporting its weight. It is recommended that carpeting be removed from the floor area on which the dryer is to rest.

Even though a six-inch clearance is acceptable, it is recommended that the rear of the dryer be positioned approximately two (2) feet away from the nearest obstruction (i.e., wall) for ease of installation, maintenance and service.

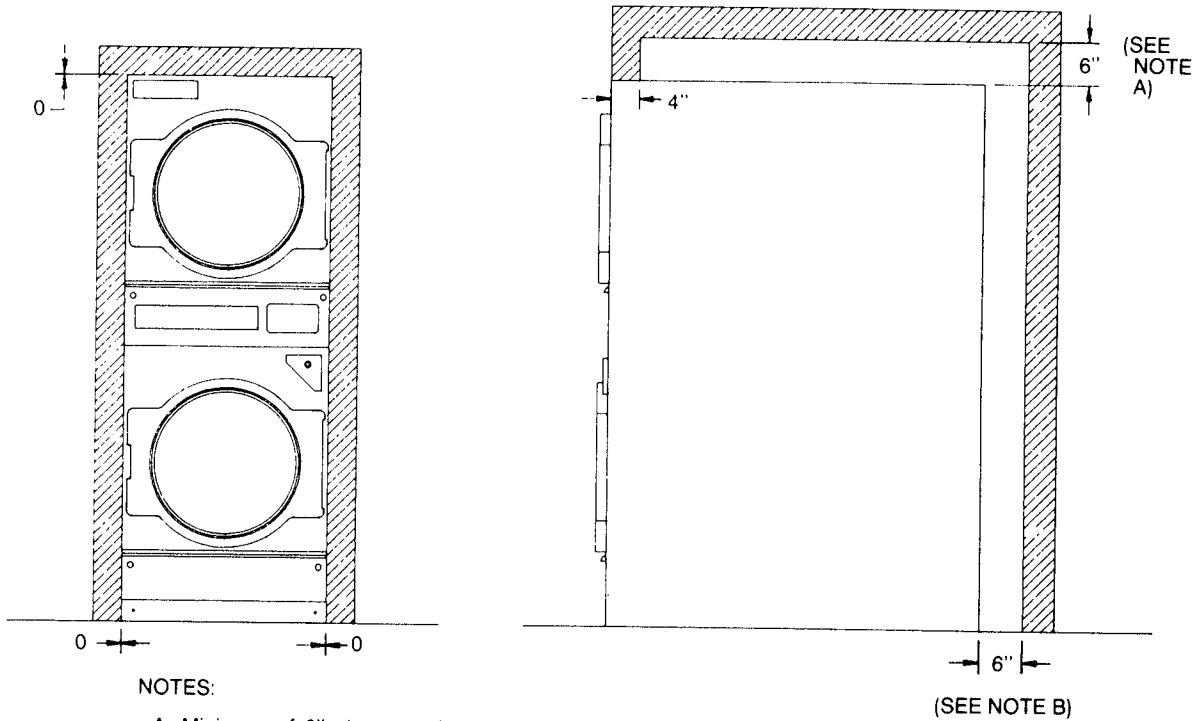
DRYER ENCLOSURE REQUIREMENTS

Bulkheads and partitions should be made of noncombustible materials and must be located a minimum of six (6) inches above the dryer outer top, except along the front of the dryer which may be closed in, if desired.

NOTE: Even though a minimum of six (6) inches above the dryer outer top is acceptable, a clearance of 18 inches (or more) is suggested for ease of installation and service (electrical connections).

When fire sprinkler systems are located above the dryers, a minimum of 12 inches above the dryer outer top is required.

CLEARANCES SHOWN ARE MINIMUM DIMENSIONS TO NEAREST COMBUSTIBLE MATERIALS.



NOTES:

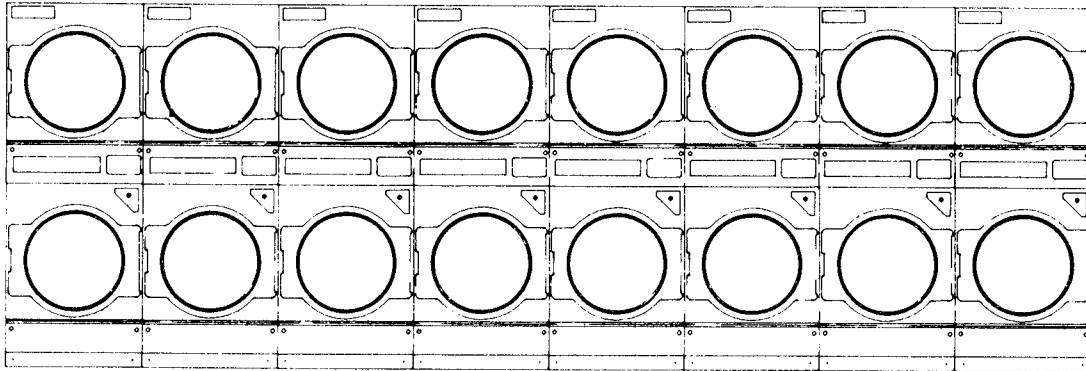
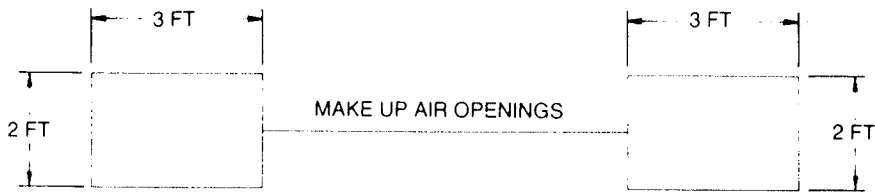
- A. Minimum of 6" clearance is acceptable for ease of installation and service (Power connections), at least 18" is recommended.
- B. Minimum of 6" clearance is acceptable for ease of installation, maintenance and service, at least 24" is recommended.

FRESH AIR SUPPLY

Air supply (make-up air) must be given careful consideration to assure proper and safe performance of each dryer. An unrestricted source of air of 800 cfm is necessary for each dryer. An unrestricted air entrance from the outdoors (atmosphere) of a minimum of 1-1/2 sq. ft. is required for each dryer. This area must be enlarged if louvers or registers cover the opening. It is not necessary to have a separate make-up air opening for each

dryer. Common make-up air openings are acceptable. However, they must be set-up in such a manner that the make-up air is distributed equally to the dryers. For example, for a bank of eight (8) dryers, a total make-up air opening of 12 sq. ft. is required. Two (2) openings measuring 2 ft. x 3 ft. (6 sq. ft.) are acceptable.

Allowances must be made for remote or constricting passageways or where dryers are located at excessive altitudes or predominantly low pressure areas.



TYPICAL INSTALLATION SHOWING MAKE-UP AIR OPENINGS

IMPORTANT: MAKE-UP AIR MUST BE PROVIDED FROM A SOURCE FREE OF DRY CLEANING SOLVENT FUMES. MAKE-UP AIR CONTAMINATED BY DRY CLEANING SOLVENT FUMES WILL RESULT IN IRREPARABLE DAMAGE TO MOTORS AND OTHER DRYER COMPONENTS.

NOTE: Component failure due to dry cleaning solvent fumes voids the warranty.

EXHAUST REQUIREMENTS

Exhaust duct work should be designed and installed by a qualified professional. Improperly sized duct work will create excessive back pressure which results in slow drying, increased use of energy, overheating of the dryer, and shutdown of the burner by the airflow (sail) switches, burner hi-limits, or tumbler hi-heat protector thermostats.

CAUTION: *Improperly sized or installed exhaust duct work can create a potential fire hazard.*

1. Single Dryer Venting

Where possible, it is suggested to provide a separate exhaust duct for each dryer. The exhaust duct work should be laid out in such a way that the duct work travels as directly as possible to the outdoors with as few turns as possible. It is suggested that the use of 90 degree turns in ducting be avoided; use 30 degree or 45 degree angles instead. The shape of the exhaust duct work is not critical so long as the minimum cross section area is provided.

IMPORTANT: Exhaust back pressure measured by a manometer at the dryer exhaust duct area should not exceed 0.3 inches water column when both tumblers are operating.

It is suggested that the duct work from each dryer not exceed 20 feet with no more than two (2) elbows.

If the duct work exceeds 20 feet or has numerous elbows, the cross section area of the duct work must be increased in proportion to its length or number of elbows in it. In calculating duct size, the cross section area of a square or rectangular duct must be increased 20 percent for each additional 20 feet. The diameter of a round exhaust should be increased 10 percent for each additional 20 feet. Each 90 degree elbow is equivalent to an additional 15 feet and each 45 degree elbow, an additional 10 feet.

IMPORTANT: For extended duct work runs, the cross section area of the duct work can only be increased to an extent. Maximum proportional duct work run cannot exceed 20 feet more than the original limitations of 20 feet with two (2) elbows. When the duct work approaches the maximum limits as noted in this manual, a professional Heating, Venting & Air Conditioning (HVAC) firm should be consulted for proper venting information.

The duct work should be smooth inside with no projections from sheet metal screws or other obstructions which will collect lint. When adding ducts, the duct to be added should overlap the duct to which it is to be connected. All duct work joints must be taped to prevent moisture and lint from escaping into the building. Also, inspection doors should be installed at strategic points in the exhaust duct work for periodic inspection and cleaning.

NOTE: Where the exhaust duct passes through a wall, ceiling, or roof made of combustible materials, the opening must be two (2) inches larger (all the way around) than the duct. The duct must be centered within this opening.

To protect the outside end of horizontal duct work from the weather,

a 90 degree elbow bent downward should be installed where the exhaust exits the building (see illustration on page 11). If the exhaust duct work travels vertically up through the roof, it should be protected from the weather by using a 180 degree turn to point the opening downward (see illustration on page 11). In either case, allow at least twice the diameter of the duct between the duct opening and nearest obstruction.

IMPORTANT: Do not use screens or caps on the outside of opening of exhaust duct work.

2. Multiple Dryer (common) Venting

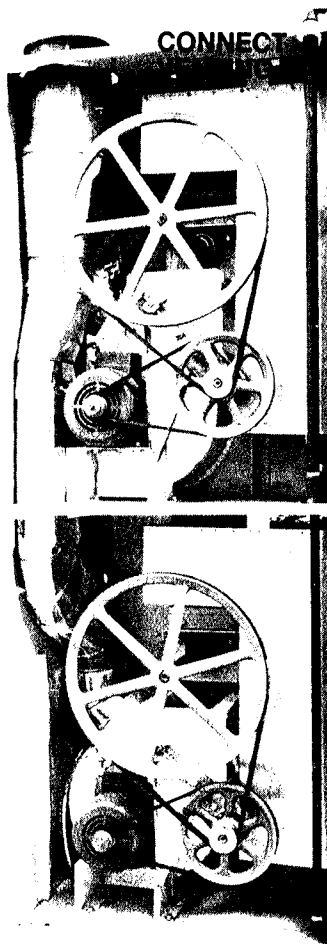
If it is not feasible to provide separate exhaust ducts for each dryer, ducts from individual dryers may be channeled into a "common main duct" (see illustration on page 11). The individual ducts should enter the bottom or side of the main duct at an angle not more than 45 degrees in the direction of airflow. The main duct should be tapered, with the diameter increasing before each individual duct is added. The cross section area should be 60 square inches for each eight (8) inch duct added.

IMPORTANT: No more than four (4) dryers total should be connected to one main common duct.

The main duct may be any shape or cross section area, so long as the minimum cross section area is provided. The illustration on page 11 shows the minimum cross section area for multiple dryer venting. These figures must be increased in proportion if the main duct runs from the last dryer to where it exhausts to the outdoors is unusually long (over 20 feet) or has numerous elbows (more than two {2}) in it.

In calculating duct size, the cross section area of a square or rectangular duct must be increased 20 percent for each additional 20 feet. The diameter of a round exhaust must be increased 10 percent for each additional 15 feet. Each 90 degree elbow is equivalent to an additional 15 feet and each 45 degree elbow, an additional 10 feet.

IMPORTANT: For extended duct work runs, the cross section area of the duct work can only be increased to an extent. Maximum proportional duct work run cannot exceed 20 feet more than the original limitations of 20 feet with the two (2) elbows. When the duct work approaches the maximum limits as noted in this manual, a professional HVAC firm should be consulted for proper venting information.

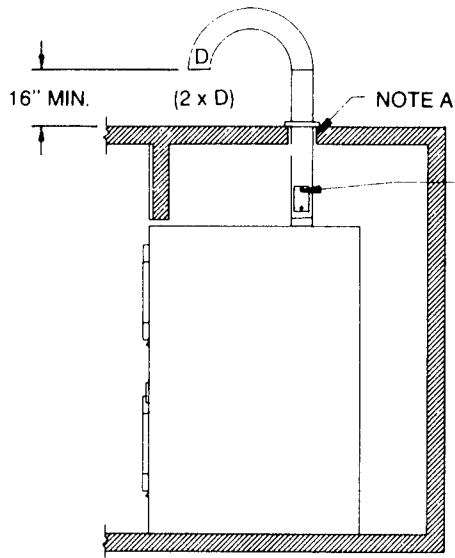


The duct work should be smooth inside with no projections from sheet metal screws or other obstructions which will collect lint. When adding ducts, the duct to be added should overlap the duct to which it is to be connected. All duct work joints must be taped to prevent moisture and lint from escaping into the building. Also, inspection door should be installed at strategic points in the exhaust duct work for periodic inspection and cleaning.

NOTE: Where the exhaust passes through a wall, ceiling or roof made of combustible materials, the opening must be two (2) inches larger (all the way around) than the duct. The duct must be centered within this opening.

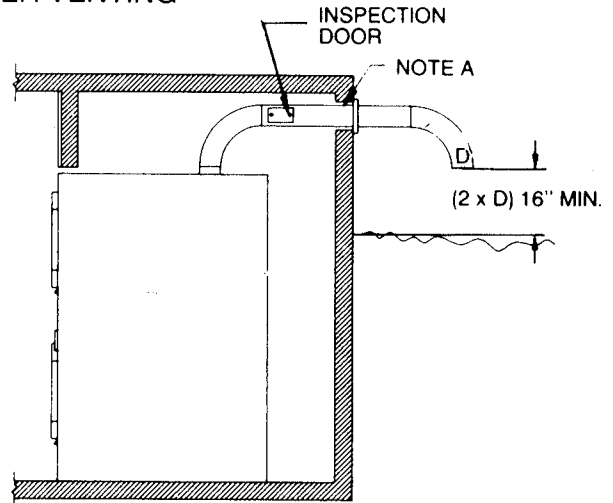
To protect the outside end of the horizontal duct work from the weather, a 90 degree elbow bent downward should be installed where the exhaust exits the building (see illustration on page 11). If the exhaust duct work travels vertically up through the roof, it should be protected from the weather by using a 180 degree turn to point the opening downward (see illustration on page 11). In either case, allow at least twice the diameter of the duct between the duct opening and nearest obstruction.

IMPORTANT: Do not use screens or caps on the outside of opening of exhaust duct work.



VERTICAL

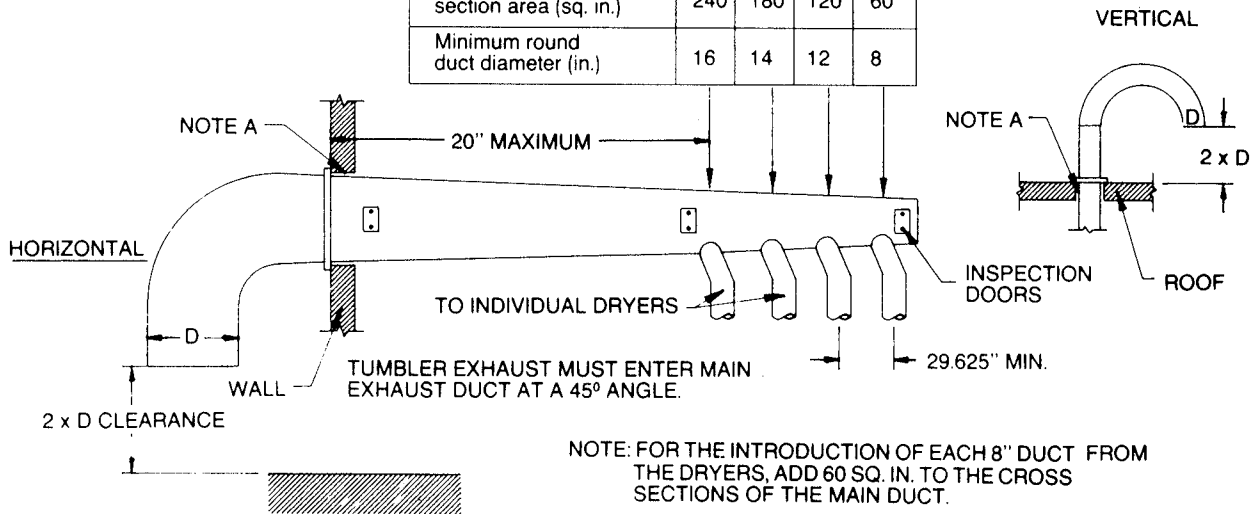
SINGLE DRYER VENTING



HORIZONTAL

MULTIPLE DRYER VENTING
WIDTH 8" DIAMETER EXHAUST

NO. OF DRYERS	4	3	2	1
Minimum cross section area (sq. in.)	240	180	120	60
Minimum round duct diameter (in.)	16	14	12	8

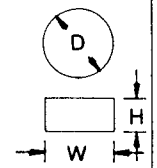


NOTE: FOR THE INTRODUCTION OF EACH 8" DUCT FROM THE DRYERS, ADD 60 SQ. IN. TO THE CROSS SECTIONS OF THE MAIN DUCT.

FORMULAS TO CALCULATE DUCTING CROSS SECTIONAL AREA

CROSS SECTIONAL AREA OF ROUND DUCT = $.785 \times D^2$ WHERE D = DIAMETER OF THE DUCT.

CROSS SECTIONAL AREA OF RECTANGULAR DUCT = $W \times H$ WHERE W = WIDTH AND H = HEIGHT.



NOTE A: OPENING MUST BE TWO (2) INCHES LARGER THAN DUCT (ALL THE WAY AROUND). THE DUCT MUST BE CENTERED WITHIN THIS OPENING.

ELECTRICAL INFORMATION

1. Electrical Requirements

It is your responsibility to have all electrical connections 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 (Latest Edition).

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

NOTE: Component failure due to improper installation voids the warranty.

It is recommended that a separate circuit serving each tumbler be provided. The dryer must be connected with copper wire only. Do not use aluminum wire which could cause a fire hazard.

NOTE: The use of aluminum wire voids the warranty.

2. Electrical Service

Electrical service recommended specs (per tumbler):

Voltage	Phase	No. of Wires	Amp. Draw Per Tumbler	Wire Size	Breaker Size Per Tumbler
115	1	2	8	#12	15 Amp.

IMPORTANT: The dryer must be connected to the electrical supply shown on the data label located on the inside of the middle access (control) door.

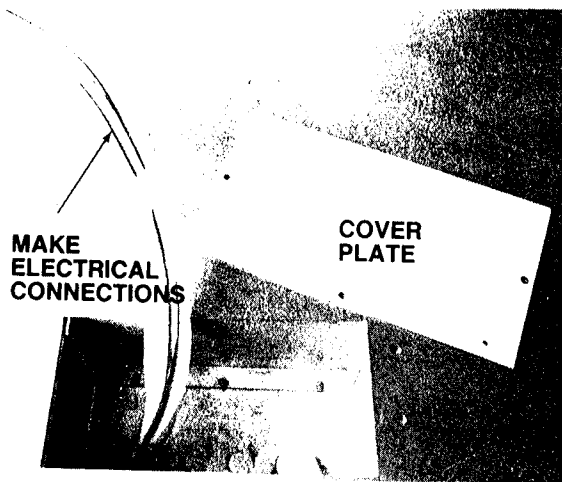
WARNING: ANY DAMAGE DONE TO DRYER COMPONENTS DUE TO IMPROPER VOLTAGE APPLICATION OR CONNECTIONS WILL AUTOMATICALLY VOID THE WARRANTY.

3. Electrical Connections

A wiring diagram is included with each dryer showing the wiring connection sequence. The electrical connections are made in a box located at the top of the dryer. The dryer is shipped with three (3) connection leads (L1, L2/Neutral, and Ground) for each tumbler.

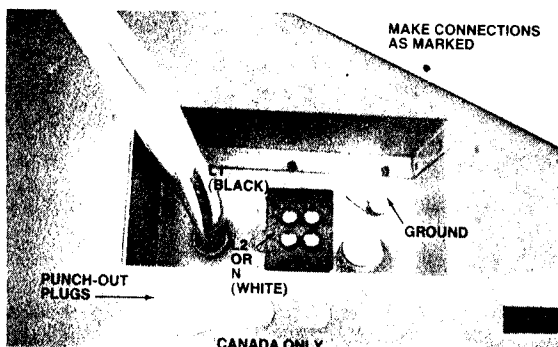
Electrical Connection Leads

Black	White	Green
+	-	
Positive	Neutral	Ground
(L1)	(L2)	(GND)



If local codes permit, power to the dryer can be made by use of a flexible U.L. listed power cord/pigtail (wire size must conform to rating of dryer) or the dryer can be hard wired directly to the service breaker panel. In both cases, a strain relief must be installed where the wiring enters the dryer.

NOTE: It is recommended that a circuit serving each tumbler (basket/drum) be provided.



4. Grounding

Grounding (earth) connection must be provided and installed in accordance with state and local codes. In the absence of these codes, grounding must conform to applicable requirements of the National Electric Code ANSI/NFPA No. 70 (Latest Edition). The ground connection may

be to a proven earth ground at the location service panel.

For added personal safety, when possible, it is suggested that a separate ground wire (sized per local codes) be connected from the ground connection of the dryer to a grounded cold water pipe. Do not ground to a gas or hot water pipe. The grounded cold water pipe must be metal to metal connections all the way to the electrical ground. If there are any non-metallic interruptions, such as, a meter, pump, plastic, rubber, or other insulating connectors, they must be jumped out with No. 4 wire and securely clamped to bare metal at both ends.

IMPORTANT: For personal safety and proper operation, the dryer must be grounded.

GAS INFORMATION

It is your responsibility to have all plumbing connections made by a qualified professional to assure 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).



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 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).

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

IMPORTANT: Failure to isolate or disconnect dryer from supply as noted can cause irreparable damage to the gas valves ... voiding the warranty.

WARNING: FIRE OR EXPLOSION COULD RESULT.

Gas Supply

The gas dryer installation must meet the American National Standard, National Fuel Gas Code ANSI Z223.1 (Latest Edition), as well as local codes and ordinances and must be done by a qualified professional.

Technical Gas Data

Gas Specifications

	Type of Gas	
	Natural	Liquid Propane (L.P.)
Manifold Pressure*	4.0 Inches W.C.	10.5 Inches W.C.
In-Line Pressure (W.C.)	6.0 In. to 12.0 In.	10.5 Inches W.C.
Orifice Size (D.M.S.)	#20	#38
Gas Inlet Size	3/4" N.P.T.	
BTUH Input (each tumbler)	72,000	
BTUH Input (per dryer)	144,000	

* Measured at gas valve pressure tap when the gas valve is on. Measured in inches of water column.

(D.M.S.) Drill Manufacturer's Standard - equivalent to standard twist drill or steel wire gauge numbers.

(W.C.) Water column in inches.

NOTE: undersized gas piping will result in ignition problems, slow drying, and 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 located on the inside of the middle access (control) door. If this information does not agree with the type of gas available, contact the distributor who sold the dryer or the factory.

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

The input ratings shown on the dryer data label are for elevations of up to 2,000 feet unless elevation requirements of over 2,000 feet were specified at the time the dryer order was placed with the factory. The adjustment for dryers in the field for elevations over 2,000 feet are made by changing each burner orifice. If this adjustment is necessary, contact the distributor who sold the dryer or contact the factory.

Natural Gas

Regulation is controlled by each gas valve's internal regulator. Incoming supply pressure must be consistently between a minimum of 6.0 inches and a maximum of 12.0 inches water column pressure.

Liquid Propane (L.P.) Gas

Dryers made for use with L.P. gas have the gas valve's pressure regulators blocked open so that the gas pressure must be regulated upstream of the dryer. The pressure measured at each gas valve body pressure tap must be a consistent 10.5 inches water column. There is no regulator provided in an L.P. dryer. The water column pressure must be regulated at the source (L.P. tank), or an external regulator must be added to each dryer.

Piping/Connections

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 be rated for the total amount of all the appliance BTU's being supplied.

The dryer is provided with one common 3/4" N.P.T. inlet pipe connection. It is recommended that a gas shut-off valve serving each dryer be provided for ease in servicing.

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 L.P. gas, the supply tank), the number of tees, other gas operated appliances on the supply line, 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 ignition system.

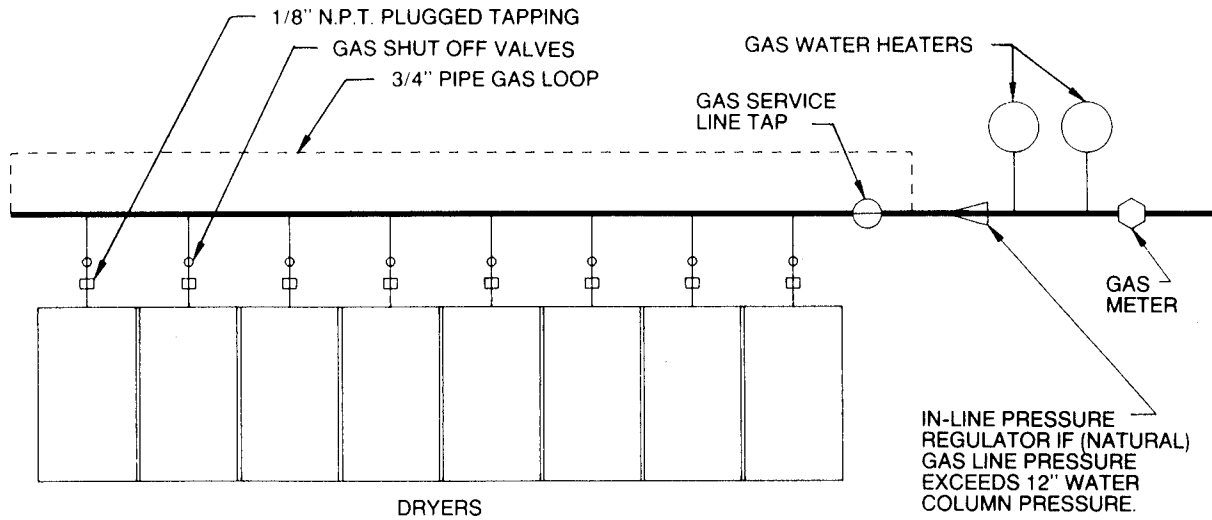
Consistent gas pressure is essential at all gas connections. It is recommended that a 3/4" pipe loop be installed in the supply line serving the bank of dryers. An in-line pressure regulator must be installed in the gas supply line (header) if (natural) gas line pressure exceeds 12.0 inches water column pressure. (Refer to illustration on page 16 for details.)

IMPORTANT: Water column pressure of 4.0 inches for natural gas dryers and 10.5 inches for L.P. gas is required at the gas valve pressure tap of each dryer for proper and safe operation.

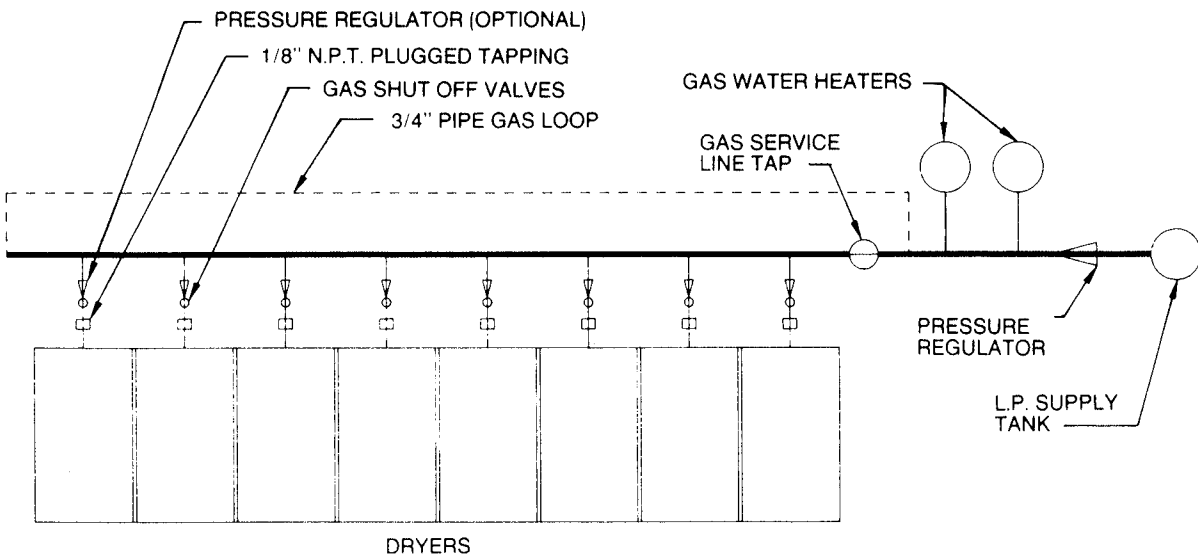
A 1/8" N.P.T. plugged tapping, accessible for a test gauge connection, must be installed in the main gas supply line immediately upstream of each dryer.

IMPORTANT: Pipe joint compounds that resist the action of natural and L.P. gases 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.



TYPICAL NATURAL GAS INSTALLATION



TYPICAL L.P. GAS INSTALLATION

PREPARATION FOR OPERATION

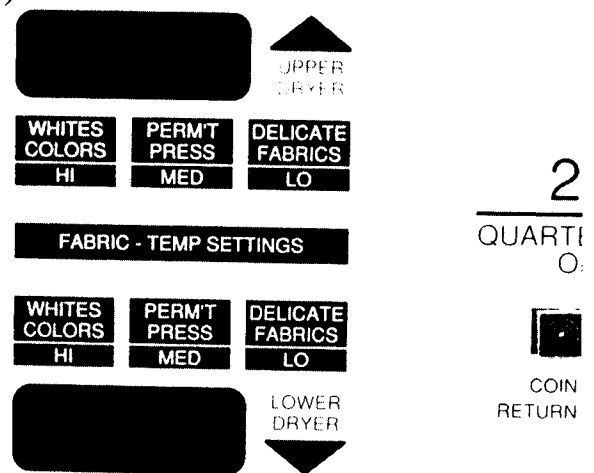
The following items should be checked before attempting to operate the dryer.

1. Read and follow all caution, warning and direction labels attached to the dryer.
2. Check incoming supply voltage to be sure that it is the same as indicated on the dryer data label located on the rear side of the middle access (control) door.
3. Check to assure that the dryer is connected to the type of gas indicated on the dryer data label.
4. The sail switch damper assemblies are installed and preadjusted at the factory prior to dryer shipment. However, each sail switch adjustment should be checked to assure that this important safety control is functioning.
5. Check bolts, nuts, screws, terminals and fittings for security.
6. Be sure all gas shut-off valves are in the open position.
7. Be sure all back panels (guards) and electric box covers have been replaced.
8. Check all service doors to assure that they are closed and secured in place.
9. Rotate the tumblers (drums) by hand to be sure they move freely.

PREOPERATIONAL TEST

All dryers are thoroughly tested and inspected before leaving the factory. However, a preoperational test should be taken before the dryer is publicly used. It is possible that adjustments have changed in transit.

1. Turn on electric power to dryer. Open all gas shut-off valves.



2. Computer System Operational Test.

a. Display(s) will flash back and forth between "FILL" and the amount needed to start the dryer (i.e., "25"), meaning the dryer is available and 25 cents is required to start it.

b. Insert the proper number of coins into coin acceptor. Once the correct amount needed to start the dryer has been inserted, display(s) will read "PUSH" ... "tEnP".

c. Start the dryer by pressing the desired setting for either the upper or lower dryer tumbler (i.e., "LO" selection for upper dryer). Display will now read selection (setting) made and amount of time vended (i.e., "LO 10").

NOTE: Dryer can be stopped at any time by opening main door. To restart dryer, shut main door and press desired setting.

d. Open main door to stop dryer and change selection to "MED" (medium) setting. Repeat this procedure, but change selection (setting) to "HI" (high). This will confirm that setting key circuits and door switch circuits are functioning properly.

NOTE: Selection (setting) changes can be made at any time during the drying cycle by opening and closing main door and then making new selection.

e. Repeat above procedure for other tumbler.

3. Heat Circuit Operational Test

When a gas dryer is first started (during initial start-up), it has a tendency not to ignite on the first attempt. This is because the gas supply piping is filled with air. So, it may take a few minutes for this air to be purged from the lines.

The dryer is equipped with a direct spark ignition (DSI) system which has internal diagnostics. If ignition is not established after first attempt, the system will retry two (2) more times. If ignition is not established after three (3) attempts, the heat circuit DSI module will lock out until it is manually reset. To reset the DSI system, open and close main door and restart dryer (press desired temperature selection).

NOTE: During the purging period, check to be sure that all gas shut-off valves are open.

Once ignition is established, a gas pressure test should be taken at the gas valve pressure tap of each dryer (tumbler) to assure that the water column pressure is correct and consistent.

NOTE: Water column pressure requirements (measured at the gas valve pressure tap):

Natural Gas - 4.0 Inches W.C.

L. P. Gas - 10.5 Inches W.C.

IMPORTANT: If dryer has been converted to L.P., the water column

pressure must be regulated at the source (L.P. tank) or an external regulator must be added to each dryer.

4. Make a complete operational check of all safety-related circuits (i.e., lint basket switches and sail switches).

NOTE: The sail switch can be checked for proper operation by opening the middle access (control) door while the dryer is running and the heating unit (burner) active (on). The heating unit(s) should shut off within a few seconds. If not, make necessary adjustments.

5. Each tumbler should be operated through one complete cycle to assure that no further adjustments are necessary and that all components are functioning properly.

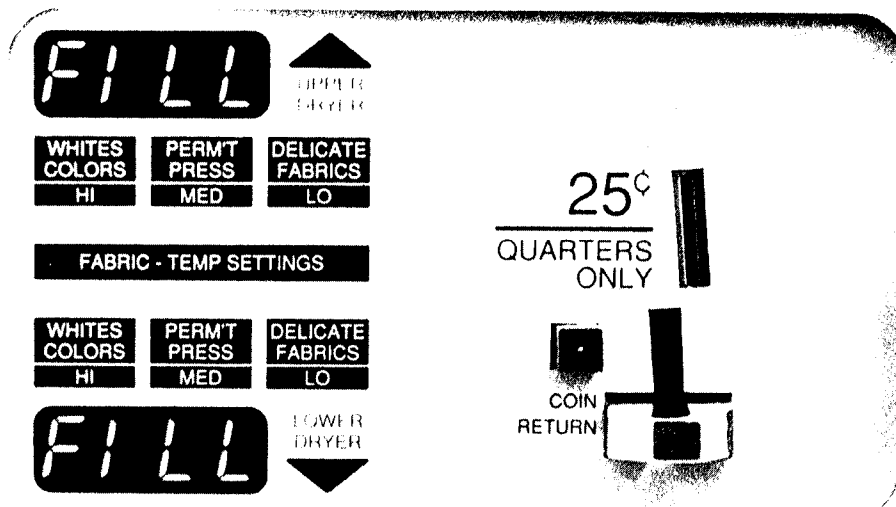
NOTE: Drying and cooling cycles are complete when display reads ... "donE".

IMPORTANT: The dryer tumblers (baskets/drums) are treated with a protective coating. This coating can be removed by tumbling old clothes or material in the baskets/drums, using a mild detergent to remove the protective coating.

6. Computer Programs/Selections

Each computer has been preprogrammed by the factory with the most commonly used parameter selections. If computer program changes are required, refer to the user's manual which was shipped with the dryer.

OPERATING INSTRUCTIONS



The dryer is available for use when the L.E.D. display reads "FILL" and/or the amount needed to start the dryer (i.e., "25"). Once the load has been put into the dryer and the main door is closed, start the dryer as follows:

1. Insert the proper number of coins into the coin acceptor. Once the correct amount to start has been inserted, displays will read "PUSH" ... "tEnP".
2. Determine fabric setting (selection). Setting "WHITE COLORS" is the high temperature range, "PERM'T PRESS" is the medium range setting and "DELICATE FABRICS" is the low-range temperature.

Once the fabric temperature setting (selection) has been determined, you start the dryer by pressing the fabric setting key for the tumbler being used (i.e., "DELICATE FABRICS" setting for the upper tumbler).

3. The dryer will now start and the display for the tumbler selected will read the setting and the time vended (i.e., "LO 10").
4. The cycle time will count down until the drying and cooling cycles are completed.

5. Upon completion of the drying and cooling cycles, the dryer will shut off, the tone will sound for five (5) seconds and the display will read "donE".

NOTE: If the anti-wrinkle program is active, the display will remain reading "donE", and the computer will proceed through the anti-wrinkle program until the maximum "guard on time" has expired or until the main door is opened, whichever comes first.

If the anti-wrinkle program is not active or in use, the display will read "donE" until the main door is opened, at which time, the display will read "FILL" and the amount to start.

6. Notes

a. Dryer tumbler can be stopped at any time by opening the main door. To restart dryer, shut main door and press desired setting.

NOTE: When cycle is interrupted by opening main door, cycle time will continue to count downward, regardless if door is open or closed until keyboard selection is made.

b. Selection (setting) changes can be made at any time during the drying cycle by opening and closing main door and then making a new selection.

c. Additional time can be purchased at any time. If the dryer is in operation (drying mode) and additional coins are inserted, displays will read "PUSH" ... "tEnP", and the selection (setting) key for the appropriate tumbler must be pressed.

NOTE: Any one of the three (3) selection keys can be pressed for the appropriate tumbler. No matter which key is pressed, the microcomputer will continue the cycle selection that was in operation at the time of inserting additional coins.

When both tumblers are in operation and additional coins are inserted for one tumbler and the appropriate tumbler selection is made, the other tumbler automatically resumes cycle status.

MAINTENANCE

CLEANING

A program or schedule should be established for periodic inspection, cleaning and removal of lint from various areas of the dryer as well as throughout the duct work system. The frequency* of cleaning can best be determined from experience at each location. Maximum operating efficiency is dependent upon proper air circulation. The accumulation of lint can restrict this airflow. If the guidelines in this section are met, your new dryer will provide many years of efficient, troublefree and ... most importantly ... safe operation.

WARNING: LINT FROM MOST FABRICS IS HIGHLY COMBUSTIBLE, THE ACCUMULATION OF LINT CAN CREATE A POTENTIAL FIRE HAZARD.

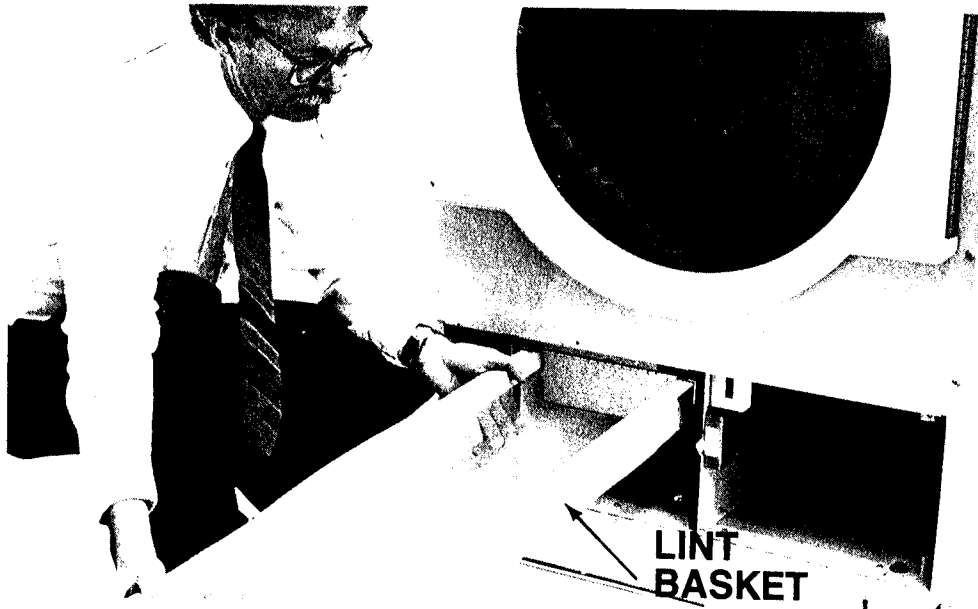
WARNING: KEEP DRYER AREA CLEAR AND FREE FROM COMBUSTIBLE MATERIALS, GASOLINE, AND OTHER FLAMMABLE VAPORS AND LIQUIDS.

Suggested Interval*

Function

Daily

Clean lint from the lint basket. Inspect lint screen for damage and replace if torn.



30 Days

Clean lint accumulation from around microprocessor temperature sensor probes and sensor bracket assemblies.

WARNING: TO AVOID THE HAZARD OF ELECTRICAL SHOCK, DISCONNECT ELECTRICAL POWER SUPPLY TO THE DRYER.

90 Days

Remove lint from the motor air vents and surrounding area.

IMPORTANT: Lint accumulation will restrict the airflow over the motor, causing overheating and irreparable motor damage. Motor failure due to lint accumulation will void the warranty.

Remove lint accumulation from around the openings in the dryers back panels.

Remove lint from gas valve burner train area with a dusting brush or vacuum cleaner attachment.

Remove any lint accumulation from inside control box and at rear area behind control box.

Remove any lint accumulation from coin acceptor area, including coin optic switch.

6 Months

Inspect and remove lint accumulation in customer furnished exhaust duct work system and from dryers internal exhaust ducting.

WARNING: THE ACCUMULATION OF LINT IN THE EXHAUST DUCT WORK CAN CREATE A POTENTIAL FIRE HAZARD.

WARNING: DO NOT OBSTRUCT THE FLOW OF COMBUSTION AND VENTILATION AIR.

Inspect and remove lint accumulation from the dryer exhaust duct work back draft dampers.

NOTE: A back draft damper that is sticking partially closed can result in slow drying and shutdown of the heat circuit safety switches or thermostats.

In the cleaning of the cabinet, avoid using harsh abrasives. A product intended for the cleaning of appliances is recommended.

ADJUSTMENTS

Suggested Interval

Function

7 Days
After
Installation

Inspect bolts, nuts screws (bearing set screws), non-permanent gas connections (unions, shut-off valves, orifices, etc.), electrical terminations, and grounding connections. AND....

Every 6
Months

Motor and drive belts should be examined. Cracked or seriously frayed belts should be replaced. Tighten loose V-Belts when necessary and check belt alignment.

Complete operational check of controls and valves.

Complete operational check of all safety devices (door switches, lint compartment switched, sail switch, burner and hi-limit thermostats.)

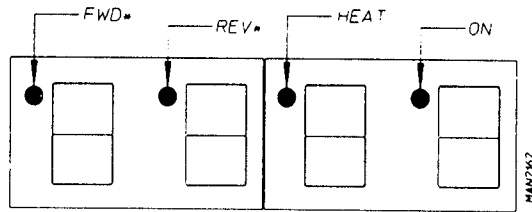
LUBRICATION

The motor bearings, idler bearings, and tumbler bearings are permanently lubricated and no relubrication is necessary.

PROCEDURE FOR FUNCTIONAL CHECK OF REPLACEMENT COMPONENTS

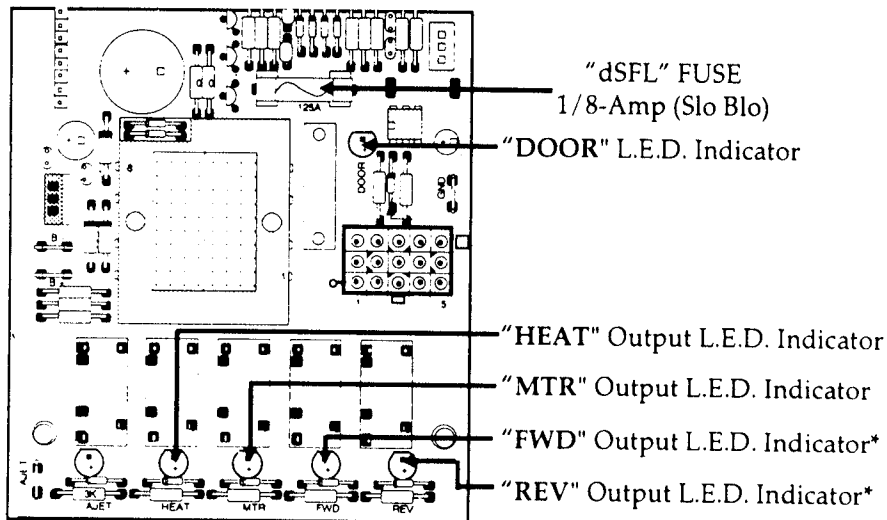
MICROPROCESSOR (COMPUTER) BOARD

1. Upon completing installation of the replacement microprocessor (computer) board, reestablish power to the dryer.
2. Start the drying cycle.
3. Verify that the motor(s) and the heat indicator dots, in the microprocessor (computer) L.E.D. display are on. (Refer to the illustration below.)



*OPL (NON-COIN) REVERSING MODELS ONLY.

4. Verify that the motor(s), heat, and door indicator lights on the back side of the microprocessor (computer) board are lit. (Refer to the illustration below.)



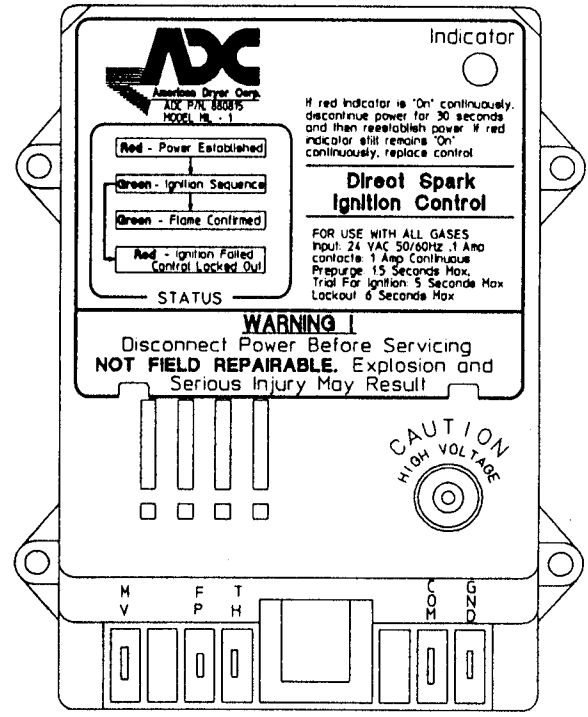
* OPL (non-coin) REVERING MODELS ONLY.

5. Open main door. The dryer **must stop** and **ALL** indicator lights on the back side of the microprocessor (computer) board **must go out**.

6. Try to restart the dryer with the main door open.
7. The microprocessor (computer) board's L.E.D. display **must read** "DOOR".
8. Close the main door and restart the dryer.
9. Functional check of the microprocessor (computer) board is complete.

DIRECT SPARK IGNITION (DSI) MODULE

1. Upon completing installation of the replacement Direct Spark Ignition (DSI) module, reestablish power to the dryer.
2. Start the drying cycle.
3. The Ignition (DSI) module's L.E.D. indicator will light "red" for up to approximately 1.5 seconds (prepurge time).
4. The module's indicator light will then turn "green". The gas valve will be energized and the ignitor probe will spark for approximately 8 seconds. The burner flame should now be established.
5. With the burner flame on, remove the flame sensor wire from the FS terminal of the DSI module.
6. The burner flame **must shut off** and the ignition module **must lock out** with the DSI module's indicator light "red".
7. Stop the drying cycle, with the flame sensor wire still removed, restart the drying cycle.
8. The ignition module **must proceed** through the prepurge, with the indicator light "red", the ignition trial time of approximately 8 seconds, with the indicator light "green", and then proceed to lock out with the indicator light "red".
9. Functional check of the Direct Spark Ignition (DSI) Module is complete.



Replace the flame sensor wire from the FS terminal to the DSI module.

CAUTION

LABEL **ALL** WIRES PRIOR TO DISCONNECT WHEN SERVICING THE COMPUTER BOARD AND THE IGNITION MODULE. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION.