# MDG31 / MDG51 / MDG77 Installation/Operator Manual

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.

# RETAIN THESE INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE

Part No. 113430-9

# **Retain This Manual in a Safe Place for Future Reference**

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 technicians should service this equipment.

**OBSERVE ALL SAFETY PRECAUTIONS** displayed on the equipment or specified in the installation manual included with the dryer.

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.

We have tried to make this manual as complete as possible and hope you will find it useful. The manufacturer reserves the right to make changes from time to time, without notice or obligation, in prices, specifications, colors, and material, and to change or discontinue models. The illustrations included in this manual may not depict your particular dryer exactly.

# IMPORTANT

For your convenience, log the following information:

DATE OF PURCHASE \_\_\_\_\_\_ MODEL NO. \_\_\_\_\_

DISTRIBUTOR'S NAME

Serial Number(s) \_\_\_\_\_

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

Maytag Co. 403 West Fourth Street North, Newton, Iowa 50208 Telephone: (641) 787-7000

### "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.

# IMPORTANT

You must disconnect and lockout the electric supply and the gas 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 standards.

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

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

# CAUTION

Dryer(s) should never be left unattended while in operation.

"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.»

# WARNING

Children should not be allowed to play on or near the dryer(s). Children should be supervised if near dryer(s) in operation.

Under no circumstances should the dryer door switch(es), lint door/drawer switch(es), or heat safety circuit(s) ever be disabled.

The dryer must never be operated with any of the back guards, outer tops, or service panels removed. Personal injury or fire could result.

The dryer must never be operated without the lint filter/screen in place, even if an external lint collection system is used.

# FOR YOUR SAFETY

Do not dry mop heads in the dryer. Do not use dryer in the presence of dry cleaning fumes.

The dryers 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 behind the control panel.

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### List of Acronyms

HVAC	Heating, Ventilating, and Air-Conditioning
in wc	Inches of Water Column
L.C.D.	Liquid Crystal Display
L.E.D.	Light Emitting Diode
L.P.	Liquid Propane
OSHA	Occupational Safety and Health Administration
UI	Underwriters Laboratory

# Safety Precautions

### 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 loss of life.

The drver must never be operated with any of the back quards, outer tops, or service panels removed. Personal injury or fire could result.

Failure to properly install, maintain, and/or operate dryer according to this manual and operator's manuals included with dryer may result in conditions which can cause serious injury, death and/or property damage.

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

Purchaser and 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.

### 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 gas supplier.

Dryers must be exhausted to the outdoors.

Although the manufacturer produces a very versatile dryer, 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, combustible detergents, or "all purpose" cleaner. Explosion could result.

Do not dry rags or articles coated or contaminated with gasoline, kerosene, oil, paint, or wax. Explosion could result.

Items that have been spotted or soaked with vegetable or cooking oil constitute a fire hazard and should not be placed in a tumble dryer.

Do not dry mop heads. Contamination by wax or flammable solvents will create a fire hazard.

Do not use heat for drying articles that contain plastic, foam, sponge rubber, or similarly textured rubber materials. Drying in a heated tumbler may damage plastics or rubber and also may be a fire hazard.

A program should be established for the inspection and cleaning of lint in the burner area, exhaust ductwork, and area around the back of the dryer. The frequency of inspection and cleaning can best be determined from experience at each location.



### Warning

The collection of lint in the burner area and exhaust ductwork can create a potential fire hazard.

For personal safety, the dryer must be electrically grounded in accordance with local and/or country codes. In the absence of these codes use the National Electrical Code ANSI/NFPA NO. 70-LATEST EDITION or in Canada, the Canadian Electrical Codes Parts 1 & 2 CSA C22.1-1990 or LATEST EDITION.



# Note

Failure to electrically ground the dryer properly will void the warrantv.

## Warning

Personal injury or fire could result should the dryer door switch, lint door/drawer, or heat safety circuit ever be disabled.

Remove articles from the dryer as soon as the drying cycle has been completed.

# Warning



Articles left in the dryer after the drying and cooling cycles have been completed can create a fire

For safety, proper operation, and optimum performance, the dryer must not be operated with a load less than 66% of its rated capacity.

### Warning

You must disconnect and lockout the electric supply and the gas supply before any covers or quards are removed from the machine to allow access for cleaning, adjusting, installation, or testing of any equipment per OSHA standards.

### Important

The dryer must be installed in a location/ environment, which the ambient temperature remains between 40° F (4.44° C) and 130° F (54.44° C).

The operation of this appliance may affect the operation of other types of gas appliances, which take their air for safe combustion from the same room. If in doubt, consult the appliance manufacturer(s).

Use this dryer only for its intended purpose, drying fabrics.

The "Cool Down" Cycle of tumble dryers should be used to reduce the temperature of the items. They should not be removed from the tumble dryer or piled or stacked while hot.

Fabric softeners or similar products should not be used in a tumble dryer to eliminate the effects of static electricity, unless this practice is specifically recommended by the manufacturer of the fabric softener or product.

Warning

To reduce the risk of personal injury, install lockable doors to prevent public access to the rear of the dryers.

Exhaust duct outlet should be checked periodically for blockages, and if any found, removed.



### Important

A means of restraint must be used to prevent straining of the gas supply when the appliance is d.

An external means of power removal (disconnect device) must be provided by the installer.

### **CE ONLY**

Important

This appliance must only be installed and operated in the country of destination indicated on the dryer's data plate. If the appliance is to be installed and operated in a country other than the one indicated on the data plate, a data plate amendment must be obtained from Maytag.

#### **Warning** This appliance must only operate with the gas type indicated on the dryer's data plate. If the appliance is converted (gas type is changed), a data plate amendment must be obtained from Maytag.

This appliance may cause spillage of products of combustion from an open-flue appliance fitted in the same room, and that such an appliance shall be tested for clearance of products with the appliance in operation and all windows and doors closed.

NOTES \_\_\_\_\_

TUMBLER DIAMETER         30°         76.20 cm           TUMBLER DEPTH         27°         68.58 cm           TUMBLER VOLUME         11.04 cu ft         312.62 L           TUMBLER/DRIVE MOTOR         1/4 hp         0.18 kW           BLOWER/AN MOTOR         1/4 hp         0.37 kW           DOOR OPENING (DIAMETER)         19-3/8°         49.23 cm           DOOR OPENING (DIAMETER)         19-3/8°         49.23 cm           DOOR SLL HEIGHT         14-7/8°         37.78 cm           WATER CONNECTION         N / A         DRYERS PER 20'/40° CONTAINER         12 / 28           DRYERS PER 48'/53° TRUCK         34 / 38         VOLTAGE AVAILABLE         120V 1 ø         2w 60 Hz           APPROXIMATE NET WEIGHT         285 lb         129.27 kg         APPROXIMATE SHIPPING WEIGHT         310 lb         140.61 kg           AIRFLOW         380 cfm         10.19 cmm         15.24 cm         COMPRESSED AIR CONNECTION         N / A           COMPRESSED AIR CONNECTION         N / A         1/2° M.N.P.T.         VOLTAGE AVAILABLE         N / A           APPROXIMATE NET WEIGHT         APPROXIMATE NET WEIGHT         1/2° M.N.P.T.         VOLTAGE AVAILABLE         N / A           APPROXIMATE NET WEIGHT         APPROXIMATE NET WEIGHT         APPROXIMATE NET WEIGHT	MAX	IMUM CAF	ACITY (DRY WEIG	GHT)	30 lb	13.61 kg		
TUMBLER DEPTH         27"         68.58 cm           TUMBLER VOLUME         11.04 cu ft         312.62 L           TUMBLER/DRIVE MOTOR         1/4 hp         0.18 kW           BLOWER/FAN MOTOR         1/2 hp         0.37 kW           DOOR OPENING (DIAMETER)         19.3/8"         49.23 cm           DOOR SILL HEIGHT         14-7/8"         37.78 cm           WATER CONNECTION         N / A           DRYERS PER 20'40' CONTAINER         12/ 28           DRYERS PER 49'53' TRUCK         34 / 38           VOLTAGE AVAILABLE         120V 1 ø         2w 60 Hz           APPROXIMATE NET WEIGHT         285 lb         129.27 kg           APPROXIMATE SHIPPING WEIGHT         310 lb         140.61 kg           AIRFLOW         360 cfm         10.19 cmm           HEAT INPUT         55,000 Btu/hr         13,860 kcal/hr           EXHAUST CONNECTION (DIAMETER)         6"         15.24 cm           COMPRESSED AIR CONNECTION         N / A           INLET PIPE CONNECTION (DIAMETER)         N / A           QUATAGE AVAILABLE         APPROXIMATE NET WEIGHT           APPROXIMATE NET WEIGHT         APPROXIMATE SHIPPING WEIGHT           AIRFLOW         STEAM CONSUMPTION         N / A           COMPRESSED AIR VOLUME </td <td></td> <td></td> <td>,</td> <td>,</td> <td></td> <td></td>			,	,				
TUMBLER VOLUME         11.04 cu ft         312.62 L           TUMBLER/DRIVE MOTOR         1/4 hp         0.18 kW           BLOWER/FAN MOTOR         1/2 hp         0.37 kW           DOOR OPENING (DIAMETER)         19-3/8"         49.23 cm           DOOR OPENING (DIAMETER)         19-3/8"         49.23 cm           DOOR SILL HEIGHT         14-7/8"         37.78 cm           WATER CONNECTION         N / A         DRYERS PER 20/40' CONTAINER         12 / 28           DRYERS PER 20/40' CONTAINER         12 / 28         DRYERS PER 32/30' TRUCK         34 / 38           VOLTAGE AVAILABLE         120V 16         2w 60 Hz         APPROXIMATE NET WEIGHT         310 lb         140.61 kg           APPROXIMATE SHIPPING WEIGHT         310 lb         140.61 kg         AIRFLOW         360 cfm         10.19 cmm           EXHAUST CONNECTION (DIAMETER)         6"         15.24 cm         N / A           COMPRESSED AIR VOLUME         N / A         N / A         N / A           OUTAGE AVAILABLE         APPROXIMATE NET WEIGHT         APPROXIMATE NET WEIGHT         APPROXIMATE NET WEIGHT           APPROXIMATE NET WEIGHT         APPROXIMATE SHIPPING WEIGHT         N / A         N / A           COMPRESSED AIR VOLUME         OVER SIZE         N / A         APPROXIMATE SHIPPING								
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BLOWER/FAN MOTOR     1/2 hp     0.37 kW       DOOR OPENING (DIAMETER)     19-3/8"     49.23 cm       DOOR SILL HEIGHT     14-7/8"     37.78 cm       WATER CONNECTION     N / A       DRYERS PER 20'40' CONTAINER     12 / 28       DRYERS PER 48'/53' TRUCK     34 / 38       VOLTAGE AVAILABLE     120V 1ø     2w       APPROXIMATE NET WEIGHT     285 lb     129.27 kg       APPROXIMATE SHIPPING WEIGHT     310 lb     140.61 kg       AIRFLOW     360 cfm     10.19 cmm       HEAT INPUT     55,000 Btu/hr     13,860 kcal/hr       EXHAUST CONNECTION (DIAMETER)     6"     15.24 cm       COMPRESSED AIR CONNECTION     N / A       INLET PIPE CONNECTION (DIAMETER)     0"     1/2" M.N.P.T.       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT     1/2" M.N.P.T.       APPROXIMATE NET WEIGHT     1/2" M.N.P.T.       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       AIRFLOW     0/2 N.V.LABLE     N / A       COMPRESSED AIR CONNECTION     N / A       COMPRESSED AIR VOLUME     N / A       OVENTAGE AVAILABLE     APPROXIMATE NET WEIGHT       AIRFLOW     STEAM CONSUMPTION       OPERATING STEAM PRESSURE     EXHAUST CONNECTION (DIAMETER)       COMPRESSED AIR VOLUME     OPERATING STEAM PRESSURE								
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Sg     ARFLOW     360 cfm     10.19 cmm       HEAT INPUT     55,000 Btu/hr     13,860 kcal/hr       EXHAUST CONNECTION (DIAMETER)     6"     15.24 cm       COMPRESSED AIR CONNECTION     N / A       COMPRESSED AIR VOLUME     N / A       INLET PIPE CONNECTION     11/2" M.N.P.T.       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE SHIPPING WEIGHT     AIRFLOW       EXHAUST CONNECTION (DIAMETER)     N / A       COMPRESSED AIR VOLUME     OVEN SIZE       kW     Btu/hr       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       ARFLOW     OVEN SIZE       kW     Btu/hr       VOLTAGE AVAILABLE     N / A       OVEN SIZE     N / A       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE NET WEIGHT     AIRFLOW       STEAM CONSUMPTION     OPERATING STEAM PRESSURE       COMPRESSED AIR CONNECTION (DIAMETER)     N / A       COMPRESSED AIR CONNECTION (DIAMETER)     N / A       COMPRESSED AIR CONNECTION     N / A       OUTAGE AVAILABLE     N / A								
Fight     55,000 Btu/hr     13,860 kcal/hr       EXHAUST CONNECTION (DIAMETER)     6"     15.24 cm       COMPRESSED AIR CONNECTION     N / A       COMPRESSED AIR VOLUME     N / A       INLET PIPE CONNECTION     1/2" M.N.P.T.       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE NET WEIGHT     AIRFLOW       EXHAUST CONNECTION (DIAMETER)     N / A       COMPRESSED AIR CONNECTION     N / A       OVEN SIZE     W       W     Btu/hr       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       AIRFLOW     OVEN SIZE       KW     Btu/hr       VOLTAGE AVAILABLE     N / A       OVEN SIZE     N / A       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE NET WEIGHT     AIRFLOW       STEAM CONSUMPTION     OPERATING STEAM PRESSURE       OPERATING STEAM PRESSURE     EXHAUST CONNECTION (DIAMETER)       COMPRESSED AIR CONSURPTION     OPERATING STEAM PRESSURE       BOILER HORSEPOWER (NORMAL LOAD)     SUPPLY CONNECTION       SUPPLY CONNECTION     SUPPLY CONNECTION	S							
Second Stress     Exhaust connection (Diameter)     6"     15.24 cm       COMPRESSED AIR CONNECTION     N / A       COMPRESSED AIR VOLUME     N / A       INLET PIPE CONNECTION     1/2" M.N.P.T.       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE SHIPPING WEIGHT     AIRFLOW       EXHAUST CONNECTION (DIAMETER)     N / A       COMPRESSED AIR CONNECTION     COMPRESSED AIR CONNECTION       COMPRESSED AIR VOLUME     OVEN SIZE       W     Btu/hr       KW     Btu/hr       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE NET WEIGHT     APPROXIMATE SHIPPING WEIGHT       APPROXIMATE NET WEIGHT     APPROXIMATE SHIPPING WEIGHT       ARFLOW     STEAM CONSUMPTION       OPERATING STEAM PRESSURE     N / A       EXHAUST CONNECTION (DIAMETER)     N / A       OPERATING STEAM PRESSURE     EXHAUST CONNECTION (DIAMETER)       COMPRESSED AIR CONNECTION     OPERATING STEAM PRESSURE       EXHAUST CONNECTION (DIAMETER)     N / A       OPERATING STEAM PRESSURE     EXHAUST CONNECTION       BOILER HORSEPOWER (NORMAL LOAD)     SUPPLY CONNECTION       SUPPLY CONNECTION     RETURN CONNECTION								
COMPRESSED AIR CONNECTION N / A COMPRESSED AIR VOLUME N / A INLET PIPE CONNECTION 1/2" M.N.P.T. VOLTAGE AVAILABLE APPROXIMATE NET WEIGHT AIRFLOW EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION COMPRESSED AIR CONNECTION COMPRESSED AIR CONNECTION COMPRESSED AIR VOLUME VOLTAGE AVAILABLE APPROXIMATE SHIPPING WEIGHT AIRFLOW VOLTAGE AVAILABLE APPROXIMATE SHIPPING WEIGHT AIRFLOW STEAM CONSUMPTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION COMPRESSED AIR CONNECTION SUPPLY CONNECTION RETURN CONNECTION								
COMPRESSED AIR VOLUME N / A INLET PIPE CONNECTION 1/2" M.N.P.T. VOLTAGE AVAILABLE APPROXIMATE NET WEIGHT APPROXIMATE SHIPPING WEIGHT AIRFLOW EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION COMPRESSED AIR VOLUME OVEN SIZE kW Btu/hr kcal/hr VOLTAGE AVAILABLE APPROXIMATE NET WEIGHT APPROXIMATE NET WEIGHT APPROXIMATE SHIPPING WEIGHT APPROXIMATE SHIPPING WEIGHT APPROXIMATE SHIPPING WEIGHT APPROXIMATE SHIPPING WEIGHT AIRFLOW STEAM CONSUMPTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION SUPPLY CONNECTION RETURN CONNECTION RETURN CONNECTION								
INLET PIPE CONNECTION       1/2" M.N.P.T.         VOLTAGE AVAILABLE       APPROXIMATE NET WEIGHT         APPROXIMATE SHIPPING WEIGHT       AIRFLOW         EXHAUST CONNECTION (DIAMETER)       N / A         COMPRESSED AIR CONNECTION       OVEN SIZE         kW       Btu/hr       kcal/hr         VOLTAGE AVAILABLE       OVEN SIZE         kW       Btu/hr       kcal/hr         VOLTAGE AVAILABLE       APPROXIMATE NET WEIGHT         APPROXIMATE SHIPPING WEIGHT       AIRFLOW         STEAM CONSUMPTION       OPERATING STEAM PRESSURE         EXHAUST CONNECTION (DIAMETER)       OMPRESSED AIR CONNECTION         OPERATING STEAM PRESSURE       N / A         BOLER HORSEPOWER (NORMAL LOAD)       SUPPLY CONNECTION         SUPPLY CONNECTION       RETURN CONNECTION								
VOLTAGE AVAILABLE APPROXIMATE NET WEIGHT APPROXIMATE SHIPPING WEIGHT AIRFLOW EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION COMPRESSED AIR VOLUME OVEN SIZE kW Btu/nr kcal/hr VOLTAGE AVAILABLE APPROXIMATE NET WEIGHT APPROXIMATE SHIPPING WEIGHT AIRFLOW STEAM CONSUMPTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION COMPRESSED AIR VOLUME BOILER HORSEPOWER (NORMAL LOAD) SUPPLY CONNECTION RETURN CONNECTION								
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kW     Btu/hr     kcal/hr       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE SHIPPING WEIGHT       AIRFLOW       STEAM CONSUMPTION       OPERATING STEAM PRESSURE       EXHAUST CONNECTION (DIAMETER)       COMPRESSED AIR CONNECTION       COMPRESSED AIR VOLUME       BOILER HORSEPOWER (NORMAL LOAD)       SUPPLY CONNECTION       RETURN CONNECTION		APPRO	XIMATE NET WEI	GHT	N / A			
kW     Btu/hr     kcal/hr       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE SHIPPING WEIGHT       AIRFLOW       STEAM CONSUMPTION       OPERATING STEAM PRESSURE       EXHAUST CONNECTION (DIAMETER)       COMPRESSED AIR CONNECTION       COMPRESSED AIR VOLUME       BOILER HORSEPOWER (NORMAL LOAD)       SUPPLY CONNECTION       RETURN CONNECTION	Ŭ.	APPRO	XIMATE SHIPPING	WEIGHT				
kW     Btu/hr     kcal/hr       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE SHIPPING WEIGHT       AIRFLOW       STEAM CONSUMPTION       OPERATING STEAM PRESSURE       EXHAUST CONNECTION (DIAMETER)       COMPRESSED AIR CONNECTION       COMPRESSED AIR VOLUME       BOILER HORSEPOWER (NORMAL LOAD)       SUPPLY CONNECTION       RETURN CONNECTION		AIRFLO	W					
kW     Btu/hr     kcal/hr       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE SHIPPING WEIGHT       AIRFLOW       STEAM CONSUMPTION       OPERATING STEAM PRESSURE       EXHAUST CONNECTION (DIAMETER)       COMPRESSED AIR CONNECTION       COMPRESSED AIR VOLUME       BOILER HORSEPOWER (NORMAL LOAD)       SUPPLY CONNECTION       RETURN CONNECTION	Ū	EXHAU	ST CONNECTION	(DIAMETER)				
kW     Btu/hr     kcal/hr       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE SHIPPING WEIGHT       AIRFLOW       STEAM CONSUMPTION       OPERATING STEAM PRESSURE       EXHAUST CONNECTION (DIAMETER)       COMPRESSED AIR CONNECTION       COMPRESSED AIR VOLUME       BOILER HORSEPOWER (NORMAL LOAD)       SUPPLY CONNECTION       RETURN CONNECTION	Ŭ	COMPR	ESSED AIR CON	NECTION				
kW     Btu/hr     kcal/hr       VOLTAGE AVAILABLE     APPROXIMATE NET WEIGHT       APPROXIMATE SHIPPING WEIGHT       AIRFLOW       STEAM CONSUMPTION       OPERATING STEAM PRESSURE       EXHAUST CONNECTION (DIAMETER)       COMPRESSED AIR CONNECTION       COMPRESSED AIR VOLUME       BOILER HORSEPOWER (NORMAL LOAD)       SUPPLY CONNECTION       RETURN CONNECTION		COMPR	ESSED AIR VOLU	JME				
VOLTAGE AVAILABLE APPROXIMATE NET WEIGHT APPROXIMATE SHIPPING WEIGHT AIRFLOW STEAM CONSUMPTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION COMPRESSED AIR VOLUME BOILER HORSEPOWER (NORMAL LOAD) SUPPLY CONNECTION RETURN CONNECTION			OVEN SIZ	E				
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APPROXIMATE SHIPPING WEIGHT AIRFLOW STEAM CONSUMPTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION COMPRESSED AIR VOLUME BOILER HORSEPOWER (NORMAL LOAD) SUPPLY CONNECTION RETURN CONNECTION		-						
AIRFLOW STEAM CONSUMPTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION COMPRESSED AIR VOLUME BOILER HORSEPOWER (NORMAL LOAD) SUPPLY CONNECTION RETURN CONNECTION								
STEAM CONSUMPTION OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION COMPRESSED AIR VOLUME BOILER HORSEPOWER (NORMAL LOAD) SUPPLY CONNECTION RETURN CONNECTION				WEIGHT				
OPERATING STEAM PRESSURE EXHAUST CONNECTION (DIAMETER) COMPRESSED AIR CONNECTION COMPRESSED AIR VOLUME BOILER HORSEPOWER (NORMAL LOAD) SUPPLY CONNECTION RETURN CONNECTION	2							
BOILER HORSEPOWER (NORMAL LOAD) SUPPLY CONNECTION RETURN CONNECTION								
BOILER HORSEPOWER (NORMAL LOAD) SUPPLY CONNECTION RETURN CONNECTION					N	/ A		
BOILER HORSEPOWER (NORMAL LOAD) SUPPLY CONNECTION RETURN CONNECTION	Ť	-		, ,				
BOILER HORSEPOWER (NORMAL LOAD) SUPPLY CONNECTION RETURN CONNECTION	S							
SUPPLY CONNECTION RETURN CONNECTION								
RETURN CONNECTION			,					
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Note

The manufacturer reserves the right to make changes in specifications at any time without notice or obligation.

# **MDG31 Specifications**



BACK VIEW

MAXI	MUM CAPACITY (DRY WEIGHT)	50 lb	22.68 kg		
	BLER DIAMETER	37"	93.98 cm		
	BLER DEPTH	25-3/4"	65.41 cm		
	BLER VOLUME	16.02 cu ft	453.64 L		
_	BLER/DRIVE MOTOR	1 hp	0.75 kW		
BLOV	VER/FAN MOTOR	1/2 hp	0.37 kW		
DOO	R OPENING (DIAMETER)	27-3/8"	69.55 cm		
	R SILL HEIGHT	16"	40.64 cm		
WATE	ER CONNECTION	3/4"-11.5 NH (	North America)		
		3/4" B.S.P.T. (Outs	ide North America)		
DRYE	ERS PER 20'/40' CONTAINER	10	/ 22		
DRYE	ERS PER 48'/53' TRUCK	28	/ 30		
	VOLTAGE AVAILABLE	120V 1ø	2w 60 Hz		
	APPROXIMATE NET WEIGHT	545 lb	247.21 kg		
	APPROXIMATE SHIPPING WEIGHT	565 lb	256.28 kg		
S	AIRFLOW	525 cfm	14.87 cmm		
ő	HEAT INPUT	90,000 Btu/hr	22,680 kcal/hr		
Ga	EXHAUST CONNECTION (DIAMETER)	8"	20.32 cm		
	COMPRESSED AIR CONNECTION	N / A			
	COMPRESSED AIR VOLUME	N / A			
	INLET PIPE CONNECTION	1/2" M	I.N.P.T.		
		1/2" F.B.S.P.T. (CE and Australia Only)			
	VOLTAGE AVAILABLE				
U	APPROXIMATE NET WEIGHT				
Ŀ.	APPROXIMATE SHIPPING WEIGHT				
Ţ	AIRFLOW	_			
U	EXHAUST CONNECTION (DIAMETER)	N	/ A		
	COMPRESSED AIR CONNECTION				
Electric	COMPRESSED AIR VOLUME				
	OVEN SIZE				
	kW Btu/hr kcal/hr				
3	AIRFLOW				
	STEAM CONSUMPTION				
	OPERATING STEAM PRESSURE	N	/ A		
Stea	EXHAUST CONNECTION (DIAMETER)				
Ś					
	BOILER HORSEPOWER (NORMAL LOAD)				
	SUPPLY CONNECTION				
	RETURN CONNECTION				

Shaded areas are stated in metric equivalents

11/23/05



The manufacturer reserves the right to make changes in specifications at any time without notice or obligation.



MAXI	MUM CAPACITY (DRY WEIGHT)	75 lb	34.02 kg		
	BLER DIAMETER	37"	93.98 cm		
	BLER DEPTH	35-1/2"	90.17 cm		
	BLER VOLUME	22.09 cu ft	625.52 L		
	BLER/DRIVE MOTOR	1 hp	0.75 kW		
BLOV	VER/FAN MOTOR	1/2 hp	0.37 kW		
DOO	R OPENING (DIAMETER)	27-3/8"	69.53 cm		
DOO	R SILL HEIGHT	16"	40.64 cm		
WATE	ER CONNECTION	3/4"-11.5 NH(	North America)		
		3/4" B.S.P.T. (Outs	ide North America)		
DRYE	ERS PER 20'/40' CONTAINER	9 /	20		
DRYE	ERS PER 48'/53' TRUCK	25	/ 27		
	VOLTAGE AVAILABLE	120V 1ø	2w 60 Hz		
	APPROXIMATE NET WEIGHT	600 lb	272.16 kg		
	APPROXIMATE SHIPPING WEIGHT	620 lb	281.23 kg		
S	AIRFLOW	560 cfm	15.86 cmm		
a	HEAT INPUT	110,000 Btu/hr	27,720 kcal/hr		
Ü	EXHAUST CONNECTION (DIAMETER)	8"	20.32 cm		
	COMPRESSED AIR CONNECTION	N / A			
	COMPRESSED AIR VOLUME	Ν.	/ A		
	INLET PIPE CONNECTION		I.N.P.T.		
		1/2" F.B.S.P.T. (CE and Australia Only)			
	VOLTAGE AVAILABLE				
U	APPROXIMATE NET WEIGHT				
Ē	APPROXIMATE SHIPPING WEIGHT				
Ţ	AIRFLOW				
U	EXHAUST CONNECTION (DIAMETER)	N / A			
	COMPRESSED AIR CONNECTION				
Electric	COMPRESSED AIR VOLUME				
	OVEN SIZE				
	kW Btu/hr kcal/hr				
3	AIRFLOW				
		N	/ A		
Ť					
Stea					
	BOILER HORSEPOWER (NORMAL LOAD)				
	RETURN CONNECTION				

Shaded areas are stated in metric equivalents

11/23/05



The manufacturer reserves the right to make changes in specifications at any time without notice or obligation.



# Installation Procedures

Installation should be performed by competent professional in accordance with local, state, and country codes. In the absence of these codes, the installation must conform to applicable American National Standards: ANSI Z223.1-LATEST EDITION (National Fuel Gas Code) or ANSI/NFPA NO. 70-LATEST EDITION (National Electrical Code) or in Canada, the installation must conform to applicable Canadian Standards: CAN/CGA-B149.1-M91 (Natural Gas) or CAN/ CGA-B149.2-M91 (L.P. Gas) or LATEST EDITION (for General Installation and Gas Plumbing) or Canadian Electrical Codes Parts 1 & 2 CSA C22.1-1990 or LATEST EDITION (for Electrical Connections).

# Location Requirements

Before installing the drver, be sure the location conforms to local, state, and country codes. In the absence of such codes or ordinances the location must conform with the National Fuel Gas Code ANSI.Z223.1 LATEST EDITION, or in Canada, the installation must conform to applicable Canadian Standards: CAN/CGA-B149.1-M91 (Natural Gas) or CAN/CGA-B149.2-M91 (L.P. Gas) or LATEST EDITION (for General Installation and Gas Plumbing).

The drver must be installed on a sound level floor capable of supporting its weight. Carpeting must be removed from the floor area that the dryer is to rest on.

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

Dryers installed in residential garages must be elevated 18-inches (45.72 cm) above the floor.

Provisions for adequate air supply must be provided as noted in this manual (refer to Fresh Air Supply Requirements section).

Clearance provisions must be made from combustible construction as noted in this manual (refer to Dryer Enclosure Requirements section).

Provisions must be made for adequate clearances for servicing and for operation as noted in this manual (refer to Dryer Enclosure Requirements section).

The dryer must be installed with a proper exhaust duct connection to the outside as noted in this manual (refer to Exhaust Requirements section).

The dryer must be located in an area where correct exhaust venting can be achieved as noted in this manual (refer to Exhaust Requirements section).

### Important

The dryer should be located where a minimum amount of exhaust ducting will be necessary.

The dryer must be installed with adequate clearance for air openings into the combustion chamber.



### Caution

This dryer produces combustible lint and must be exhausted to the outdoors. Every 6 months, inspect the exhaust ducting and remove any lint buildup.

### Important

The dryer must be installed in a location/ environment, which the ambient temperature remains between 40° F (4.44° C) and 130° F (54.44° C).

# Unpacking/Setting Up \_

Remove protective shipping material (i.e., plastic wrap and optional shipping box) from the dryer.

## Important

Dryer must be transported and handled in an upright position at all times.

The dryer can be moved to its final location while still attached to the skid or with the skid removed. To remove the skid from the MDG31, MDG51, or MDG77, locate and remove the 2 bolts securing the base of the dryer to the wooden skid. One is located at the center rear and the other is at the center front.

With the skid removed, use caution and assure all four leveling legs are fully retracted if the dryer is to be slid into its final position.

### **Leveling Dryer**

The dryer is equipped with 4 leveling legs, 1 at each corner of the base. For optimum performance the dryer should be level front-to-back and side-to-side.

# Dryer Enclosure Requirements \_\_\_\_\_

### Commercial Type II (MDG31, MDG51, MDG77)

Bulkheads and partitions should be made of noncombustible material.



Allowances must be made for opening the control door.



А The requirement to allow the door to open completely for the MDG31 is 33-inches (83.8 cm), and the MDG51 and MDG77 are 40-inches (101.6 cm).

- В A minimum overhead clearance of 6-inches (15.24 cm) is required.
- С Dryer should be positioned a minimum of 12-inches (30.48 cm) away from the nearest obstruction. 24-inches (60.96 cm) is recommended for ease of installation, maintenance, and service.
- D 1/16" (1.5875 mm) minimum is required.
- Е Flooring should be level or below dryer cabinet for ease of removing panels during maintenance.
- F Dryers may be positioned sidewall to sidewall, however a 1/16" (1.5875 mm) minimum allowance must be made for the opening and closing of the control door, along with the removal of panels during maintenance.

### Domestic Type I (MDG31, MDG51 Only)



EXAMPLE: For MDG51, 2 unrestricted openings measuring 6-inches by 24-inches (15.24 cm by 60.96 cm) are acceptable.

If a closet door is installed: unobstructed air openings are required. The air openings shall be located 3-inches (7.62 cm) from the lower opening (above floor level) and upper opening (below ceiling). The total free area of the air openings in the door shall not be less than 179 inch<sup>2</sup> (1154.836 cm<sup>2</sup>) for MDG31; and 293 inch<sup>2</sup> (1890.319 cm<sup>2</sup>) for MDG51. Louvered doors with equivalent air openings are acceptable.

No other fuel-burning appliance shall be installed in the same closet as the dryer.

# Fresh Air Supply Requirements

When the dryer is operating, it draws in room air, heats it, passes this air through the tumbler, and exhausts it out of the building. Therefore, the room air must be continually replenished from the outdoors. If the make-up air is inadequate, drying time and drying efficiency will be adversely affected. Ignition problems and sail switch "fluttering" problems may result, as well as premature motor failure from overheating. The dryer must be installed with provisions for adequate combustion and make-up air supply.

Air supply (make-up air) must be given careful consideration to ensure proper performance of each dryer. As a general rule, an unrestricted air entrance from the outdoors of 110 inch<sup>2</sup> (710 cm<sup>2</sup>) is required for each MDG77, 90 inch<sup>2</sup> (580 cm<sup>2</sup>) for each MDG51, 55 inch<sup>2</sup> (354 cm<sup>2</sup>) for each MDG31. (Based on 1 inch<sup>2</sup> [6.5 cm<sup>2</sup>] per 1,000 Btu [252 kcal].)

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 all the dryers.

To compensate for the use of registers or louvers used over the openings, this area must be increased by approximately 33%. Make-up air openings should not be located in an area directly near where exhaust vents exit the building.

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





EXAMPLE: For a bank of 4 MDG31 dryers, 2 unrestricted openings measuring 10-inches by 11-inches (25.4 cm by 27.94 cm) are acceptable.

**Important** Make-up air must be free of dry cleaning solvent fumes. Make-up air that is contaminated by dry cleaning solvent fumes will result in irreparable damage to the motors and other dryer components.

# Exhaust Requirements \_\_\_\_\_

Exhaust ductwork should be designed and installed by a qualified professional. Improperly sized ductwork will create excessive back pressure, which results in slow drying, increased use of energy, and shutdown of the burner by the airflow (sail) switch, burner hi-limits, or lint chamber hi-limit protector thermostat. The dryer must be installed with a proper exhaust duct connection to the outside.

The dryer shall not be exhausted into any gas vent, chimney, wall, ceiling or concealed space of a building.



This dryer produces combustible lint and must be exhausted to the outdoors.

Improperly sized or installed exhaust ductwork can create a potential fire hazard.

The ductwork should be laid out in such a way that the ductwork travels as directly as possible to the outdoors with as few turns as possible. There should be a minimum 6-inch (15.24 cm) clearance between the back guard and the first bend in the ductwork for ease of servicing. Single or independent dryer venting is recommended. It is suggested that the use of 90° turns be avoided; use 30° and/or 45° bends instead. The radius of the elbows should preferably be 1-1/2 times the diameter of the duct. All ductwork should be smooth inside with no projections from sheet metal screws or other obstructions, which will collect lint. When adding ducts, overlap the duct being connected. All ductwork joints must be taped to prevent moisture and lint from escaping into the building. Back draft dampers must be installed in all commonly ducted systems. Inspection doors should be installed at strategic points in the exhaust ductwork for periodic inspection and cleaning of lint from the ductwork.

### Important



It is recommended that exhaust or booster fans not be used in the exhaust ductwork system.

## Important

Exhaust back pressure measured by a manometer/magnehelic in the exhaust duct must be no less than 0 and must not exceed 0.6 in wc (1.48 mb).

# Note

When the exhaust ductwork passes through a wall, ceiling, or roof made of combustible materials, the opening must be 2-inches (5.08 cm) larger than the duct (all the way around). The duct must be centered within this opening.

As per the National Fuel Gas Code, "Exhaust ducts for type 2 clothes dryers shall be constructed of sheet metal or other noncombustible material. Such ducts shall be equivalent in strength and corrosion resistance to ducts made of galvanized sheet steel not less than 26 gauge (0.0195-inches [0.50 mm]) thick."

The ductwork for this appliance must be suitable for the appliance category in accordance with national installation regulations of the country of destination.

### **Outside Ductwork Protection**

To protect the outside end of the horizontal ductwork from the weather, a  $90^{\circ}$  elbow bent downward should be installed where the exhaust exits the building. If the ductwork travels vertically up through the roof, it should be protected from the weather by using a  $180^{\circ}$  turn to point the opening downward. In either case, allow at least twice the diameter of the duct between the duct opening and the nearest obstruction (refer to the diagram).

# $\Lambda$

### Important

Do not use screens, louvers, or caps on the outside opening of the exhaust ductwork.

### Single Dryer Venting

Important

For extended ductwork runs, the cross-sectional area of the ductwork can only be increased to an extent. When the ductwork approaches the maximum limits as noted in this manual, a professional HVAC firm should be consulted for proper venting information.

### **Horizontal Venting**

When horizontal dryer venting is used, the length of the ductwork from the dryer to the outside exhaust outlet, must not exceed 20 feet (6.10 meters). The minimum diameter of this ductwork must be at least 6-inches (15.24 cm) for MDG31, and 8-inches (20.32 cm) for MDG51 and MDG77. Including tumbler/dryer elbow connections or elbows used for outside protection from the weather, no more than 1 elbow should be used in the exhaust duct run. If more than 1 elbow is used, the cross-sectional area of the ductwork must be increased.

### **Vertical Venting**

When vertical dryer venting is used, the length of the ductwork from the dryer to the outside exhaust outlet, must not exceed 12 feet (3.66 meters). The minimum diameter of this ductwork must be at least 6-inches (15.24 cm) for MDG31, and 8-inches (20.32 cm) for MDG51 and MDG77. Including tumbler/dryer elbow connections or elbows used for outside protection from the weather, no more than 3 elbows should be used in the exhaust duct run. If more than 3 elbows are used, the cross-sectional area of the ductwork must be increased.





 A = 20 feet (6.10 meters)
 C = 12 feet (3.66 meters)

 B = MDG31: 6-inches (15.24 cm)
 D = MDG31: 6-inches (15.24 cm)

 MDG51, MDG77: 8-inches (20.32 cm)
 MDG51, MDG77: 8-inches (20.32 cm)



- NOTE 1 Opening from combustible materials must be 2-inches (5.08 cm) larger than the duct (all the way around). The duct must be centered within this opening.
- NOTE 2 Distance should be 2 times the diameter of the duct to the nearest obstruction.

## **Multiple Dryer (Common) Venting**

### Important

For extended ductwork runs, the cross-sectional area of the ductwork can only be increased to an extent. When the ductwork approaches the maximum limits as noted in this manual, a professional HVAC firm should be consulted for proper venting information.

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." The individual ducts should enter the bottom or side of the main duct at an angle not more than 45° in the direction of airflow. The main duct should be tapered, with the diameter increasing before each individual duct is added.



The illustration below shows the minimum cross-sectional area for multiple dryer round or square venting. These figures must be increased if the main duct run from the last dryer to where it exhausts to the outdoors is longer than 12 feet (3.66 meters) or has more than 1 elbow in it.



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- NOTE 1 Opening from combustible materials must be 2-inches (5.08 cm) larger than the duct (all the way around). The duct must be centered within this opening.
- **NOTE 2** Distance should be 2 times the diameter of the duct to the nearest obstruction

Multiple Dryer Venting with 6-Inch (15.24 cm) Diameter 360 cfm (10.19 cmm) Exhaust Connections at Common Duct

_	NUMBER OF DR	4	3	2	1	
G	MINIMUM CROSS-	SQ IN	80	80	54	30
DQM	SECTIONAL AREA	SQ CM	516.1	516.1	348.4	193.55
	MINIMUM ROUND	IN	10	10	8	6
	DUCT DIAMETER	СМ	25.4	25.4	20.32	15.24

Multiple Dryer Venting with 8-Inch (20.32 cm) Diameter 525 cfm (14.87 cmm) Exhaust Connections at Common Duct

	NUMBER OF DR	4	3	2	1	
G51	MINIMUM CROSS-	SQ IN	120	120	80	54
		SQ CM	774.2	774.2	516.1	348.4
E	MINIMUM ROUND	IN	12	12	10	8
	DUCT DIAMETER	СМ	30.48	30.48	25.4	20.32

Multiple Dryer Venting with 8-Inch (20.32 cm) Diameter 560 cfm (15.86 cmm) Exhaust Connections at Common Duct

	NUMBER OF DR	4	3	2	1	
1	MINIMUM CROSS-	SQ IN	120	120	80	54
Ü	SECTIONAL AREA	SQ CM	774.2	774.2	516.1	348.4
E		IN	12	12	10	8
2	DUCT DIAMETER	СМ	30.48	30.48	25.4	20.32

# **Electrical Information**

### **Electrical Requirements**

All electrical connections must be made by a properly licensed and competent electrician. This is to ensure that the electrical installation is adequate and conforms to local, state, and national regulations or codes of the country of origin. In the absence of such codes, all electrical connections, materials, and workmanship must conform to the applicable requirements of the National Electrical Code ANSI/NFPA NO. 70-LATEST EDITION or in Canada, the Canadian Electrical Codes Parts 1 & 2 CSA C22.1-1990 or 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.

Each dryer should be connected to an independently protected branch circuit. The dryer must be connected with copper wire only. Do not use aluminum wire, which could cause a fire hazard. The copper conductor wire/cable must be of proper ampacity and insulation in accordance with electric codes for making all service connections.



The use of aluminum wire will void the warranty.

An individual ground circuit must be provided to each dryer, do not daisy chain.

Component failure due to improper voltage application will void the warrantv.

The manufacturer reserves the right to make changes in specifications at any time without notice or obligation.

# Important

A separate protected circuit must be provided to each dryer.

The dryer must be connected to the electric supply shown on the data label. In the case of 208 VAC or 240 VAC, the supply voltage must match the electric service specifications of the data label exactly.

## Important

The wire size must be properly sized to handle the related current.

## Warning



208 VAC and 240 VAC are not the same. Any damage done to dryer components due to improper voltage connections will automatically void the warrantv.

### Warning (Gas Models Only)

Dryers built for use with a voltage between 200 and 240 must verify the input voltage during installation. If the nominal voltage is outside of the medium tolerances shown on the diagram below, adjust the autotransformer, located near the burner assembly. To adjust the autotransformer wiring, place the red wire on the appropriate tap (HIGH, MED, LOW) of the autotransformer. For additional wiring details, refer to the electrical diagram located on the inside of the control panel.

TERM	LINE VOLTAGE				
	50 Hz	60 Hz			
HIGH	260 226	283 249			
MED	239 208	260 230			
LOW	217 189	236 208			

# **Electrical Service Specifications**

#### **Gas Models Only**

E	LEC	CTRICAL	SERVICE	SPEC	IFICA	TIONS		
IMPORTA		208 VAC AND 230/240 VAC ARE NOT THE SAME. When ordering, specify exact voltage.						
<u>NOTES</u> :		When fuses are used they must be dual element, time delay, current limiting, class RK1 or RK5 ONLY. Calculate/determine correct fuse value, by applying either local and/or National Electrical Codes to listed appliance amp draw data.						
	В.	Circuit breaker	rs are thermal-ma ers, calculate/veri	gnetic (ind				
		appliance amp	o draw rating and s for 3-phase (3e	type of bre	eaker usec	i.		
SERVI	CE		WIRE	APPROX. AMP DRAW		CIRCUIT		
		PHASE	SERVICE	AMP [	DRAW			
VOLTA		PHASE		60 Hz	50 Hz	BREAKER		
		PHASE		60 Hz				
	GE	PHASE 1ø	SERVICE	60 Hz				
VOLTA	GE		SERVICE	60 Hz <b>1</b> 10.3		BREAKER		
VOLTA	GE		SERVICE MDG3 2	60 Hz <b>1</b> 10.3		BREAKER		
<b>VOLTA</b> 120	GE	1ø	SERVICE MDG3 2 MDG5	60 Hz 1 10.3 1 15.6		BREAKER 15		
<b>VOLTA</b> 120	GE	1ø	SERVICE MDG3 2 MDG5 2	60 Hz 1 10.3 1 15.6		BREAKER 15		

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### Grounding

A ground (earth) connection must be provided and installed in accordance with local, state, and national regulations or codes of the country of origin. In the absence of these codes, grounding must conform to applicable requirements of the National Electrical Code ANSI/NFPA NO. 70-LATEST EDITION, or in Canada, the installation must conform to applicable Canada Standards: Canadian Electrical Codes Parts 1 & 2 CSA C22.1-1990 or 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 (size per local codes) be connected from the ground connection of the dryer to a grounded cold water pipe. Do not ground to a gas pipe or hot water pipe. The grounded cold water pipe must have metal-to-metal connection all the way to the electrical ground. If there are any nonmetallic interruptions, such as, a meter, pump, plastic, rubber, or other insulating connectors, they must be jumped out with a wire (size per local codes) and securely clamped to bare metal at both ends.

### Important



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

Provisions are made for ground connection in each dryer at the electrical service connection area.

### Warning

Electrical Grounding Instructions – This dryer is equipped with a 3-prong (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded 3-prong receptacle. Do not cut or remove the grounding prong from this plug.

### **Electrical Connections**

A wiring diagram is located behind the control panel for connection data.

If local codes permit, power to the dryer can be made by the use of a flexible UL 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.

### For CE Models Only

The means for disconnection from the supply must be incorporated into wiring having a minimum contact separation of 3.0 mm in all poles.

### Single-Phase (1ø) Wiring Connections/Hookup

The electrical input connections are made into the rear service box located at the upper right area of the dryer. The ground connection is made to the copper lug, also provided in this box. To gain access, the service box cover must be removed.

### **Gas Models Only** 120-240V Application with Neutral



### 200-240V Application without Neutral



### Caution

The dryer must be grounded. A ground lug has been provided for this purpose.

Input connection wiring must be sized properly to handle the dryer's current draw. This information is printed on the dryer's data label.



### Important

A strain relief must be used where the input wiring enters the oven assembly.

# Gas Information

It is your responsibility to have all plumbing connections, materials, and workmanship conform to local and state regulations or codes of the country of destination. In the absence of such codes, all plumbing connections, materials, and workmanship must conform to the applicable local requirements. In the USA this is the National Fuel Gas Code ANSI Z223.1-LATEST EDITION, or in Canada, the Canadian Installation Codes CAN/CGA-B149.1-M91 (Natural Gas) or CAN/CGAB149.2-M91 (L.P. Gas) or LATEST EDITION.

In Australia, the fuel gas code is AS 5601/AG 601, local authority, gas, electricity, and any other relevant statutory regulations.

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 being supplied.



### 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.



# Important

For ease of service, the individual gas supply line of each dryer must have its own manual shutoff valve.

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) for non-CE dryers or 50 mb for CE dryers.

Failure to isolate or disconnect the dryer from supply as noted can cause irreparable damage to the gas valve, voiding the warranty.

Note	

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) for non-CE dryers or 50 mb for CE dryers.

# Warning

Fire or explosion could result due to failure of isolating or disconnecting the gas supply as noted.

# 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 data label and pressure must be confirmed. If this information does not agree with the type of gas available, do not operate the dryer. Contact the distributor who sold the dryer or contact the manufacturer.

The input ratings shown on the data label are for elevations up to 2,000 feet (610 meters), unless elevation requirements of over 2,000 feet (610 meters) were specified at the time the dryer order was placed with the factory. The adjustment or conversion of dryers in the field for elevations over 2,000 feet (610 meters) is made by changing each burner orifice. If this conversion is necessary, contact the distributor who sold the dryer or contact the manufacturer.

# Important

If connection to this appliance is made with a flexible hose, it must be suitable for the appliance category in accordance with national installation regulations of the country of destination, and if in doubt the installer must contact the supplier. The manufacturer of this appliance does not recommend the use of flexible gas supply line/hose. An external gas supply shutoff must be provided.

### **CE Dryers**

There is an N.P.T. to B.S.P.T. adaptor included with each dryer, which must be installed to the gas inlet. The adaptor is shipped in the tumbler.

## Important

Pipe joint compounds that resist the action of natural, propane, and butane gases must be used.

### Heat Input/Gas Consumption/Orifice (Injector) Data (For Non-CE [European] Models Only)

Gas Specifications for Non-CE Approved Dryers**										
Model	Gas	Nominal Heating Value	Supply Pressure	Gross Heat Input		Orifice Size		Orifice (Injector)	Burner Pressure	
	Туре	Btu/ft³	in WC	Btu/hr	kW	DMS	mm	Quantity	in WC	
MDG31	Natural	1,000	7.0-13.0	55,000	16.12	20	4.089	1	3.0	
WD G31	*Liquid Propane	2,500	11.0	55,000	16.12	44	2.184	1	10.0	
MDG51	Natural	1,000	7.0-13.0	90,000	26.38	29	3.454	2	3.0	
MDG51	*Liquid Propane	2,500	11.0	90,000	26.38	47	2.994	2	10.0	
MDG77	Natural	1,000	7.0-13.0	110,000	32.24	22	3.988	2	3.0	
	*Liquid Propane	2,500	11.0	110,000	32.24	44	2.184	2	10.0	

Shaded areas are stated in metric equivalents

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\* Gas valve's internal regulator disabled.
 \*\* Consult factory for elevations over 2,000 feet (610 meters) for correct orifice size.

### Heat Input/Gas Consumption/Orifice (Injector) Data (For CE [European] Models Only)

Gas Specifications for CE Approved Dryers**										
Model	Gas Type	Nominal Heating Value			ss nput	Fuel Consumption	Orifice Size		Orifice (Injector)	Burner Pressure
		Btu/ft <sup>3</sup>	mb	Btu/hr	kW		DMS	mm	Quantity	mb
31	Natural (I <sub>2H</sub> /I <sub>2E</sub> )	1,000	15-30	55,000	16.12	1.557 M <sup>3</sup> /H	22	3.988	1	6.9
	Natural (I <sub>2L</sub> )	830	20-35	55,000	16.12	1.876 M <sup>3</sup> /H	22	3.988	1	9.5
	Natural (I <sub>2ELL</sub> )	830	15-30	55,000	16.12	1.876 M <sup>3</sup> /H	22	3.988	1	9.5
	*Natural (I <sub>2E+</sub> )	1,000	20	55,000	16.12	1.557 M <sup>3</sup> /H	31	3.048	1	_
C		830	25	55,000	16.12	1.876 M <sup>3</sup> /H	31	3.048	1	_
DW	*Butane (I <sub>3+</sub> )	3,175	28-30	55,000	16.12	1.162 kg/H	48	1.930	1	_
E	*Propane (I <sub>3+</sub> )	2,500	37	55,000	16.12	1.162 kg/H	48	1.930	1	_
	Butane (I <sub>3B/P</sub> )	3,175	28-30/50	55,000	16.12	1.162 kg/H	44	2.184	1	18.1
	Propane (I <sub>3P</sub> )	2,500	28-30/50	55,000	16.12	1.162 kg/H	44	2.184	1	24.9
	Natural (I <sub>2H</sub> /I <sub>2E</sub> )	1,000	15-30	90,000	26.38	2.549 M <sup>3</sup> /H	29	3.454	2	7.2
	Natural (I <sub>2L</sub> )	830	20-35	90,000	26.38	3.071 M <sup>3</sup> /H	29	3.454	2	8.9
	Natural (I <sub>2ELL</sub> )	830	15-30	90,000	26.38	3.071 M <sup>3</sup> /H	29	3.454	2	8.9
51		1,000	20	90,000	26.38	2.549 M <sup>3</sup> /H	35	2.794	2	_
U U	*Natural (I <sub>2E+</sub> )	830	25	90,000	26.38	3.071 M <sup>3</sup> /H	35	2.794	2	—
MDG	*Butane (I <sub>3+</sub> )	3,175	28-30	90,000	26.38	1.901 kg/H	50	1.778	2	—
	*Propane (I <sub>3+</sub> )	2,500	37	90,000	26.38	1.901 kg/H	50	1.778	2	_
	Butane (I <sub>3B/P</sub> )	3,175	28-30/50	90,000	26.38	1.901 kg/H	47	1.994	2	18.1
	Propane (I <sub>3P</sub> )	2,500	28-30/50	90,000	26.38	1.901 kg/H	47	1.994	2	24.9
	Natural (I <sub>2H</sub> /I <sub>2E</sub> )	1,000	15-30	110,000	32.24	3.115 M <sup>3</sup> /H	22	3.988	2	6.9
	Natural (I <sub>2L</sub> )	830	20-35	110,000	32.24	3.753 M <sup>3</sup> /H	22	3.988	2	9.5
•	Natural (I <sub>2ELL</sub> )	830	15-30	110,000	32.24	3.753 M <sup>3</sup> /H	22	3.988	2	9.5
MDG77	*Natural (I <sub>2E+</sub> )	1,000	20	110,000	32.24	3.115 M <sup>3</sup> /H	31	3.048	2	—
		830	25	110,000	32.24	3.753 M <sup>3</sup> /H	31	3.048	2	—
	*Butane (I <sub>3+</sub> )	3,175	28-30	110,000	32.24	2.324 kg/H	48	1.930	2	—
	*Propane (I <sub>3+</sub> )	2,500	37	110,000	32.24	2.324 kg/H	48	1.930	2	_
	Butane (I <sub>3B/P</sub> )	3,175	28-30/50	110,000	32.24	2.324 kg/H	44	2.184	2	18.1
	Propane (I <sub>3P</sub> )	2,500	28-30/50	110,000	32.24	2.324 kg/H	44	2.184	2	24.9

Shaded areas are stated in metric equivalents

Gas valve's internal regulator disabled.

\*\* Consult factory for elevations over 2,000 feet (610 meters) for correct orifice size.

### **Piping/Connections**

MDG31	MDG51	MDG77
1/2"	1/2"	1/2"

CE dryer connections will be B.S.P.T., all others will be N.P.T.

There should be a minimum 6-inch (15.24 cm) clearance between the back guard and the first bend in the gas piping for ease of servicing. It is recommended that a gas shutoff valve be provided to the gas supply line of each dryer for ease in servicing.

The size of the main gas supply line (header) will vary depending on the distance this line travels from the gas meter or, in the case of L.P. gas, the supply tank, other gas-operated appliances on the same 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 pressure, which will result in erratic operation of the burner ignition system.



#### TYPICAL L.P. GAS INSTALLATION



Consistent gas pressure is essential at all gas connections. It is recommended that a 3/4-inch (19.05 mm) pipe gas loop be installed in the supply line servicing a bank of dryers. An in-line pressure regulator must be installed in the gas supply line (header) if the (natural) gas pressure exceeds 13.0 in wc (32.34 mb) pressure.

A plugged tap, accessible for a pressure gauge connection, must be installed in the main gas supply line immediately upstream of the dryers.



Pipe joint compounds that resist the action of natural, L.P., and butane gases must be used.

Test all connections for leaks by brushing on a soapy water solution (liquid detergent works well).

### Warning



Never test for leaks with a flame!!!

# Converting from One Family of Gas to Another \_\_\_\_\_

### Warning (CE Dryers)

This appliance must only be operated with the gas type indicated on the dryer's data plate. If the appliance is converted (gas type changed), a data plate amendment must be obtained from Maytag (dryer's serial number is required to purchase a conversion kit).

# Important

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

The dryers manufactured for Belgium, Luxemburg, Greece, Estonia, Slovak Republic, Iceland, Malta, Poland and Cyprus cannot be converted from one family of gas to another.

# Conversion from Natural Gas to Propane or Butane Gas

The following conversion allows the dryer to be operated with either propane, butane, or LPG. The use of gas valve kit (P/N 140414) disables the internal regulator of the gas valve. Therefore, the gas supply is ungoverned and an external regulator must be provided at the source of the supply (example L.P. tank) or the gas supply line to the dryer. The type of L.P. kit supplied will depend on the country the dryer is installed in.

### **Parts Required for Conversion:**

Description	P/N	Qty
Unregulated Gas Conversion Kit**	140414	***
OR		
Regulated L.P. Gas Conversion Kit****	140416	***
Burner Orifice (Injector)	*	***
L.P. Conversion Label	114515	1

\* Refer to page 18 for orifice (injector) size.

\*\* Required for unregulated propane or butane only.

MDG31 will require 1; MDG51 and MDG77 will require 2.

\*\*\*\* Required for regulated LPG or propane only.

### Instructions

Disconnect electrical power to the dryer.

Close all shutoff valves in dryer's gas supply line.

# Important

The MDG51 and MDG77 will require that the following procedures be performed on both burner assemblies.

Open the panel located just below the loading door.

Locate the gas train and disconnect the union, 3 electrical plugs, and the gas train mounting screws from the burner. Carefully slide the gas train out of the gas train enclosure. (The carbon ignitor located at the far end of the gas train is very fragile.)

Remove 2 burner tube mounting screws and remove burner tube in order to gain access to the orifice.

Using a 3/8" wrench or socket, remove the existing orifice and replace it with an orifice from the kit.

# Important

Use extreme care when removing and replacing orifice (injector). This orifice (injector) is made of brass, which is easily damaged.

Reinstall the burner tube onto the burner base.

Use a flat screwdriver to remove the regulator vent cap.

- For unregulated L.P. gas (most countries): install blocking pin (P/N 140414).
- For regulated L.P. gas (some countries): remove the white plastic regulator adjustment screw (under vent cap). Remove spring under screw and replace with spring from kit (P/N 140416). Replace regulator adjustment screw.

Install the gas train back into the dryer gas train enclosure. Be sure the tab at the rear of the gas train engages into the mounting slot.

Connect the union and the 3 electrical plugs.

Affix L.P. Conversion Label (P/N 114515) to the dryer's data label.

Complete L.P. Kit Conversion Confirmation Label (P/N 114083) and affix this label as close as possible to the dryer's existing dryer rating (data) label/plate.

### **Non-CE Dryers**

Affix L.P. Conversion Rating Label Addendum (P/N 114090) as close as possible to the dryer's existing dryer rating (data) label/plate.

### **CE Dryers**

Affix new data plate label that came with the conversion kit.

Open all shutoff valves, reconnect electrical power to the dryer, and test for leaks.

### Important

Never test for leaks with an open flame!!! Use a soapy water solution or product intended for that purpose.



### **Unregulated Gas Valve**

Regulate (govern) gas externally (refer to "Supply Pressure" in chart on page 18) to the correct gas pressure for the gas being used. Operate dryer through 1 complete cycle to ensure proper operation.

### **Regulated Gas Valve**

Refer to "Gas Pressure Adjustment" on the following page to adjust the gas valve to the appropriate burner pressure listed on page 18. The supply pressure must also match what is listed on page 18 for the type of gas to be used.

### Important



Conversions done improperly can result in a fire or explosion!

# Conversion from Propane or Butane Gas to Natural Gas

The following conversion allows the dryer to be operated with natural gas.

### **Parts Required for Conversion:**

Description	P/N	Qty
Vent Cap and Spring	140415	**
Burner Orifice (Injector)	*	**

\* Refer to page 18 for orifice (injector) size.

\*\* MDG31 will require 1; MDG51 and MDG77 will require 2.

### Instructions

Disconnect electrical power to the dryer.

Close all shutoff valves in dryer's gas supply line.

# Important



Open the panel located just below the loading door.

Locate the gas train and disconnect the union, 3 electrical plugs, and the gas train mounting screws from the burner. Carefully slide the gas train out of the gas train enclosure. (The carbon ignitor located at the far end of the gas train is very fragile.)

Remove 2 burner tube mounting screws and remove burner tube in order to gain access to the orifice.

Using a 3/8" wrench or socket, remove the existing orifice and replace it with an orifice from the kit.

### Important

Use extreme care when removing and replacing orifice (injector). This orifice (injector) is made of brass, which is easily damaged.

Reinstall the burner tube onto the burner base.

Select from the following 3 options, the conversion to be performed:

• Converting from unregulated L.P. to regulated natural gas: use a flat screwdriver to remove the cap with blocking pin and install the regulator vent cap from the kit (P/N 140415).

- Converting from unregulated L.P. to unregulated natural gas: no change to the regulator is required.
- Converting from regulated L.P. to regulated natural gas: remove the white plastic regulator adjustment screw (under vent cap). Remove spring under screw and replace with spring from kit (P/N 140415). Replace regulator adjustment screw.

Install the gas train back into the dryer gas train enclosure. Be sure the tab at the rear of the gas train engages into the mounting slot.

Connect the union and the 3 electrical plugs.

Open all shutoff valves, reconnect electrical power to the dryer, and test for leaks.

Operate the dryer through 1 complete cycle to ensure proper operation.

With dryer operating, check the manifold (burner) pressure at the tap on the gas valve to ensure proper operating pressure (refer to chart on page 18).

### **Gas Pressure Adjustment**

Disconnect electrical power to the dryer.

### Important

The MDG51 and MDG77 will require that the following procedures be performed on both burner assemblies.

To adjust gas valve's internal regulator, remove the regulator vent cap with the regulator adjustment tool, which is located on the back guard between the gas inlet and exhaust outlet (refer to the illustration below for proper use of adjustment tool). Be sure to use one of the wide ends of the adjustment tool for removal of the vent cap. Once vent cap is removed, the narrow end of the adjustment tool can be used to turn the plastic adjustment screw in the valve. Turn the screw clockwise to raise pressure and counterclockwise to lower pressure.

Gas (burner) pressures are measured with the burner in operation for all burner adjustment conditions. Therefore once the necessary adjustments have been made, the dryer must be operated in a heating cycle to verify that the pressure is correct. If it is not correct, you must discontinue the power to the unit and make further adjustments. Repeat these steps as many times as necessary to achieve the correct burner pressure. Once the adjustment of the valve is complete, the vent cap must be replaced and sealed with, for example, paint to prevent maladjustment by the user.



# Warning (CE Dryers)

This appliance must only be operated with the gas type indicated on the dryer's data plate. If the appliance is converted (gas type changed), a data plate amendment must be obtained from Maytag.

Conversions done improperly can result in a fire or explosion!

# **Gas Pressure Testing**

For proper operation, the gas pressure must be correct, consistent and maintained at the gas pressure rates shown on page 18. Provisions are made at the gas valve for taking gas pressure readings.

There are 2 types of devices used to measure gas pressure. They are the spring/mechanical type gauge and the manometer. The use of the spring/mechanical type gauge is not recommended because they are very easily damaged and are not always accurate. The preferred type of gauge is the manometer because it is a simple device to use and is highly accurate. A manometer is simply a glass or transparent plastic tube with a scale graduated in inches or mb. When it is filled with water and pressure is applied, the water in the tube rises, showing the exact gas pressure.

### **Gas Pressure Test Procedure**

Turn gas cock in gas supply line to "OFF" position.

50 Hz dryers: Back out miniature screw inside pressure tap and attach manometer (refer to the illustration on page 20).

60 Hz dryers: Install pressure tap and attach manometer (refer to the illustration on page 20).

Turn gas cock to "ON" position.

Start the dryer in Heat Mode and wait for ignition. Gas manifold pressure should be as shown on page 18.

If the gas pressure needs to be adjusted, refer to "Gas Pressure Adjustment" on this page.

Once test is complete, turn gas cock to "OFF" position. Remove manometer. Tighten screw inside the pressure tap or install plug.

Turn gas cock to "ON" position and check for leaks with soap solution with main burner "ON."

# Water Information \_

### Before You Start Check Local Codes and Permits

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

## Important

It is your responsibility to have all plumbing connections made by a qualified professional to ensure that the plumbing installation is adequate and conforms to local, state, and federal regulations or codes.

It is the installer's or owner's responsibility to see that the required water pressure, pipe size, or connections are provided. The manufacturer assumes no responsibility if the fire suppression system is not connected, installed, or maintained properly.

### Installation

### Water Supply

The fire suppression system must be supplied with a minimum water pipe size of 1/2-inch (12.7 mm) and be provided with 40 psi +/- 20 psi (2.75 bar +/- 1.37 bar) of pressure.

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

# Warning

If the water in the supply line or water solenoid valve freezes, the fire suppression system will be inoperative!!

### **Water Connections**

The water connection is made to the 3/4"-11.5 NH hose adaptor, which is shipped in the tumbler and must be installed to the 1/2" N.P.T. water connection, located at the upper rear of the dryer. A flexible supply line/coupling must be used in an effort to avoid damaging the electric water solenoid valve.

Note The 3/4"-11.5 NH is a standard hose coupling screw thread. It is not to be confused with 3/4" N.P.T. The sealing of an NH connection is made with a washer opposed to the mating threads of an N.P.T. assembly. The 2 thread designs are not compatible.

It is recommended that a filter or strainer be installed in the water supply line.

## Important

Flexible supply line/coupling must be used. Solenoid valve failure due to hard plumbing connections will void warranty.

The dryer is to be connected to the water mains using a new hose set and the old hose set should not be reused.

### **Optional Manual Bypass**

Provisions are made in the dryer's fire suppression system for the installation of an optional manual bypass. The connections for the manual bypass are made at the "tee" or "three way" fitting located in the outlet supply side of the water solenoid valve. The manual ball cock shutoff valve must be located outside of the dryer at a distance from the dryer where it is easily accessible. The use and connection of this manual bypass is at the option or discretion of the owner.

The water connection for the manual bypass is made to the "tee" or "three way" fitting, which has a 3/8" F.N.P.T. and a coupling must be used to provide the minimum 1/2-inch (12.7 mm) supply (feed) line.

### **Electrical Requirements**

No independent external power source or supply connection is necessary. The 24-volt power to operate the fire suppression system is accomplished internally in the dryer (from the dryer controls).



## Warning

Electrical power must be provided to the dryer at all times. If the main electrical power supply to the dryer is disconnected, the fire suppression system is inoperative!!

# Preparation for Operation/Start-Up

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

- Read all "CAUTION." "WARNING." and "DIRECTION" labels attached to the dryer.
- Check incoming supply voltage to be sure that it is the same as indicated on the data label. In the case of 208 VAC or 240 VAC, the supply voltage must match the electric service exactly.
- · GAS MODELS Check to ensure that the dryer is connected to the type of heat/gas indicated on the dryer data label.
- · GAS MODELS Be sure that all gas shutoff valves are in the open position.
- · Be sure all back panels (guards) and electric box covers are in place.
- · Be sure the service doors are closed and securely in place.
- · Be sure the lint door/drawer is securely in place.
- Rotate the tumbler (drum) by hand to be sure it moves freely.
- · Check bolts, nuts, screws, terminals, and fittings for tightness and security.
- Check that the vent is connected to the dryer and is exhausted to the outdoors.

# **Preoperational Test**

All dryers are thoroughly tested and inspected before leaving the factory. However, a preoperational test should be performed before the dryer is publicly used. It is possible that adjustments have changed in transit or due to marginal location (installation) conditions.

Turn on electric power to the dryer.

Refer to the Operating Instructions for starting your particular model dryer.

### **Gas Dryers**

Open all shutoff valves.

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



### Note

During the purging period, check to be sure that all gas shutoff valves are open.

A gas pressure test should be taken at the gas valve pressure tap of each dryer to ensure that the water column pressure is correct and consistent.

Note Water column pressure requirements (measured at the pressure tap of the gas valve body) must be verified.

#### Important

In most cases 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.

### **Safety Related Circuits**

Make a complete operational check of all safety related circuits:

- Door Switch(es)
- · Hi-Limit Thermostats
- · Sail Switch

Make a complete operational check of all operating controls.

#### **Tumbler Coating**

The tumbler is treated with a protective coating. We suggest dampening old garments or cloth material with a solution of water and nonflammable mild detergent and tumbling them in the tumbler to remove this coating.

#### **Microprocessor Programs/Selections**

Each microprocessor controller (computer) has been preprogrammed by the factory with the most commonly used parameter (program) selections. If computer program changes are required, refer to the computer programming manual, which was shipped with the dryer.

### **Preoperational Instructions**

#### Important

For more detailed information regarding the microprocessor controller (computer), refer to the microprocessor user's manual included with the dryer.

## **Coin Models**

### **Microprocessor Controller (Computer)**

When the microprocessor controller (computer) is in the ready state, the L.C.D. screen will display "Ready, Insert \$XX.XX (amount) to Start".

Insert coin(s). Once the correct "Amount to Start" has been inserted, the L.C.D. will display "Select Temperature".

Select temperature by pressing "HI," "MED," or "LO." The cycle will start and the L.C.D. will display the Dry Cycle selected and the remaining time.

The dryer will continue through the drying and cooling cycles, until the vended time has expired.



# Note

To stop the dryer, open main door. Continuation of the cycle will resume only after the door has been closed and any one of the 3 temperature selections is pressed.

### Non-Coin Models

### Microprocessor Controller (Computer)

The L.E.D. display reads "READY" (no cycle in progress).

Press the letter on the keypad corresponding to the cycle desired (e.g. key "D").

The dryer will then start (i.e. blower, tumbler, and heat).

The L.E.D. display will read MANUAL DRYING CYCLE D, MIN REMAIN.



The dryer can be stopped at any time by pressing the "STOP/CLEAR" key, at this time the dryer will go into a cycle pause. If the "STOP/CLEAR" key is pressed again at this point, the cycle that was in progress will be cancelled and returned to the "READY" state.

When the programmed drying time has expired, the non-coin microprocessor controller (computer) will proceed into the Cool Down Cycle.

Once the Cool Down Cycle begins at the end of the heat cycle, the L.E.D. display will read COOL DOWN TEMP / MINUTES remaining. At the end of the heat cycle, the dryer will shut off the heat and continue the fan and tumbler until the Cool Down Time or temperature is reached.

### Shutdown Instructions

If the dryer is to be shutdown (taken out of service) for a period of time, the following must be performed:

Discontinue power to the dryer either at the external disconnect switch or the circuit breaker.

Discontinue the heat supply:

Gas Models - Discontinue the gas supply.

Shut off external gas supply shutoff valve.

Shut off internal gas supply shutoff valve located in the gas valve burner area.

### Service/Parts Information

#### Service

Service must be performed by a qualified trained technician, service agency, or gas supplier. If service is required, contact the Maytag distributor from whom the equipment was purchased. If the distributor cannot be contacted or is unknown, contact the Maytag Co. for a distributor in your area.



When contacting the Mavtag Co., be sure to give them the correct model number and serial number so that your inquiry is handled in an expeditious manner.

### Parts

Replacement parts should be purchased from the distributor from whom the Maytag equipment was purchased. If the distributor cannot be contacted or is unknown, contact the Maytag Co. for a distributor in your area.

# Warranty Information

### **Returning Warranty Cards**

Before any drver leaves the manufacturer's test area, a warranty card is placed on the back side of the main door glass. These warranty cards are intended to serve the customer where we record the individual installation date and warranty information to better serve you should you file a warrantv claim.



### Important

A separate warranty card must be completed and returned for each individual dryer.



### Note

Be sure to include the installation date when returning the warranty card(s).

### Warranty

For a copy of the manufacturer's commercial warranty covering your particular dryer(s), contact the Maytag distributor from whom you purchased the equipment and request a dryer warranty form. If the distributor cannot be contacted or is unknown, warranty information can be obtained from the Maytag Co.



# Routine Maintenance

### Cleaning

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



### Warning

Lint from most fabrics is highly combustible. The accumulation of lint can create a potential fire hazard. Keep dryer area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.



Suggested time intervals shown are for average usage which is considered 6 to 8 operational (running) hours per day.

### Important

Dryer produces combustible lint and must be exhausted to the outdoors. Every 6 months, inspect the exhaust ducting and remove any lint buildup.

### Suggested Cleaning Schedule

### **Every Third or Fourth Load**

Clean the lint screen every third or fourth load. A clogged lint screen will cause poor dryer performance. The lint door/ drawer is located just below the loading door of the dryer. Open the lint door/drawer, brush the lint off the lint screen, and remove the lint. Inspect lint screen and replace if torn.

# Note

To remove the lint drawer from the dryer, pull drawer out approximately halfway. Press the lint door/drawer stop downward and pull the drawer out.

### Important



The frequency of cleaning the lint screen can best be determined from experience at each location.

### Weekly

Clean lint accumulation from lint chamber, thermostat, and microprocessor temperature sensor area.



### Warning



#### To avoid the hazard of electrical shock. discontinue electrical supply to the dryer.

### 90 Days

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

Clean any lint accumulation in and around the motor(s) casing opening.

# Note



To prevent damage, avoid cleaning and/or touching ignitor/flame-probe assembly.

### **Every 6 Months**

Inspect and remove lint accumulation in customer furnished exhaust ductwork system and from dryer's internal exhaust ducting.



The accumulation of lint in the exhaust ductwork can create a potential fire hazard.

**Note** Do not obstruct the flow of combustion and ventilation air. Check back draft dampers in the exhaust ductwork. Inspect and remove any lint accumulation, which can cause the damper to bind or stick.

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

When cleaning the dryer cabinet(s), avoid using harsh abrasives. A product intended for the cleaning of appliances is recommended.

#### 7 Days After Installation and Every 12 Months Thereafter

A competent professional should inspect bolts, nuts, screws, setscrews, grounding connections and nonpermanent gas connections (unions, shutoff valves, and orifices). Belts should be examined. Cracked or seriously frayed belts should be replaced. Complete an operational check of controls and valves. Complete an operational check of all safety devices (lint door/drawer switch, door switches, sail switch, and hi-limit thermostats).



When contacting Maytag, the information on the data label is required to ensure proper service/parts assistance. The data label is located at the upper left rear of the dryer behind the back guard.

- 1. Model Number This describes the style of dryer and type of heat (gas, electric, or steam).
- 2. Serial Number Allows the manufacturer to gather information on your particular dryer.
- 3. Type of Heat This describes the type of heat for your particular dryer, gas (either natural gas or L.P. gas), electric, or steam.
- 4. Heat Input (For Gas Dryers) This describes the heat input in British thermal units per hour (Btu/hr) or kilowatts (kW).
- 5. Orifice Size (For Gas Dryers) Gives the number drill size used.
- 6. Electric Service This describes the voltage and current rating for a particular model.
- 7. Gas Manifold Pressure (For Gas Dryers) This describes the manifold pressure taken at the gas valve tap.

# Data Label Information

