

# AD-235D/AD-235ED Installation Manual

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

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

— **WHAT DO YOU 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 dans le voisinage de cet appareil ou de tout autre appareil.

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

- \* Ne pas tenter d'allumer d'appareil.
- \* Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous vous trouvez..
- \* 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.



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

**American Dryer Corporation**

88 Currant Road

Fall River MA 02720-4781

Telephone: (508) 678-9000 / Fax: (508) 678-9447

e-mail: techsupport@amdry.com

# Retain This Manual In A Safe Place For Future Reference

American Dryer Corporation products embody 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 or 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 dans le voisinage 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. **ADC** 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.

## Important

For your convenience, log the following information:

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

**RESELLER'S NAME** \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

Replacement parts can be obtained from your reseller or the **ADC** factory. When ordering replacement parts from the factory, you can FAX your order to **ADC** at (508) 678-9447 or telephone your order directly to the **ADC** Parts Department at (508) 678-9000. Please specify the dryer **model number** and **serial number** in addition to the **description** and **part number**, so that your order is processed accurately and promptly.

### **“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 (Occupational Safety and Health Administration) STANDARDS.**

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

«Attention: Lors des opérations d'entretien des commandes étiqueter tous fils avant de les déconnecter. Toute erreur de câblage peut être une source de danger et de panne.»

## **CAUTION**

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

## **WARNING**

**CHILDREN SHOULD NOT BE ALLOWED TO PLAY ON OR NEAR THE DRYER(S).  
CHILDREN SHOULD BE SUPERVISED IF NEAR DRYER(S) IN OPERATION.**

## **FOR YOUR SAFETY**

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

## **WARNING**

**UNDER NO CIRCUMSTANCES should the door switch or the heat circuit devices ever be disabled.**

**WARNING**

The dryer must never be operated with any of the back guards, outer tops, or service panels removed. **PERSONAL INJURY or FIRE COULD RESULT.**

**WARNING**

**DRYER MUST NEVER BE OPERATED WITHOUT THE LINT FILTER/SCREEN IN PLACE, EVEN IF AN EXTERNAL LINT COLLECTION SYSTEM IS USED.**

**IMPORTANT**

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

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

# ***Table of Contents***

## **SECTION I**

<b>IMPORTANT INFORMATION .....</b>	<b>3</b>
A. RECEIVING and HANDLING .....	3
B. SAFETY PRECAUTIONS .....	4

## **SECTION II**

<b>SPECIFICATIONS .....</b>	<b>6</b>
A. Specifications .....	6

## **SECTION III**

<b>INSTALLATION PROCEDURES .....</b>	<b>9</b>
A. UNPACKING/SETTING UP .....	9
B. LOCATION OF THE DRYER .....	9
C. DRYER ENCLOSURE REQUIREMENTS .....	11
D. FRESH AIR SUPPLY .....	11
E. EXHAUST REQUIREMENTS .....	13
F. ELECTRICAL INFORMATION .....	17
G. GAS INFORMATION .....	21
H. PREPARATION FOR OPERATION .....	25
I. PREOPERATIONAL TESTS .....	25
J. SHUT DOWN INSTRUCTIONS .....	27

## **SECTION IV**

<b>OPERATING INSTRUCTIONS .....</b>	<b>28</b>
A. STARTING THE DRYER .....	28

## **SECTION V**

<b>SERVICE/PARTS INFORMATION .....</b>	<b>30</b>
A. SERVICE .....	30
B. PARTS .....	30

## **SECTION VI**

<b>WARRANTY INFORMATION .....</b>	<b>31</b>
A. RETURNING WARRANTY CARD(S) .....	31
B. WARRANTY .....	31
C. RETURNING WARRANTY PART(S) .....	31

## **SECTION VII**

<b>ROUTINE MAINTENANCE .....</b>	<b>33</b>
A. CLEANING .....	33
B. ADJUSTMENTS .....	35
C. LUBRICATION .....	35

<b>SECTION VIII</b>	
<b>TROUBLESHOOTING .....</b>	<b>36</b>
<b>SECTION IX</b>	
<b>DATA LABEL LOCATION/INFORMATION .....</b>	<b>42</b>
A. Data Label .....	42
<b>SECTION X</b>	
<b>PROCEDURE FOR FUNCTIONAL CHECK OF REPLACEMENT</b>	
<b>COMPONENTS .....</b>	<b>44</b>
<b>SECTION XI</b>	
<b>BURNER/TUMBLER HI-LIMIT MANUAL RESET INSTRUCTIONS .....</b>	<b>47</b>

# SECTION I

## IMPORTANT INFORMATION

### A. RECEIVING and HANDLING

The dryer is shipped in a protective stretch wrap cover with protective cardboard corners and top cover (or optional box) as a means of preventing damage in transit. Upon delivery, the dryer and/or packaging, and wooden skid **should be** visually inspected for shipping damage. If any damage whatsoever is noticed, inspect further before delivering carrier leaves.

Dryers Damaged in Shipment:

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 the number refused **must be** noted on the receipt.
4. If you determine that the dryer was damaged after the trucker has left your location, you should call the delivering carrier's freight terminal immediately and file a claim. The freight company considers this concealed damage. This type of freight claim is very difficult to get paid and becomes extremely difficult when more than a day or two passes after the freight was delivered. It is your responsibility to file freight claims. Dryer/parts damaged in transit **cannot** be claimed under warranty.
5. Freight claims are the responsibility of the consignee, and **ALL** claims **must be** filed at the receiving end. **ADC** assumes no responsibility for freight claims or damages.
6. If you need assistance in handling the situation, please contact the **ADC** Traffic Manager at (508) 678-9000.

**IMPORTANT:** The tumbler section of the dryer **must be** transported and handled in an upright position at **ALL** times.

## B. SAFETY PRECAUTIONS

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

**WARNING:** The dryer *must never be* operated with any of the back guards, outer tops, or service panels removed. **PERSONAL INJURY or FIRE COULD RESULT.**

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. WHAT TO DO IF YOU SMELL GAS...
  - a. **DO NOT** try to light any appliance.
  - b. **DO NOT** touch any electrical switch.
  - c. **DO NOT** use any phone in your building.
  - d. Clear the room, building, or area of **ALL** occupants.
  - e. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - f. If you **cannot** reach your gas supplier, call the fire department.
4. Installation and service **must be** performed by a qualified installer, service agency, or gas supplier.
5. Dryer(s) **must be** exhausted to the outdoors.
6. Although ADC produces 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" cleaner. **EXPLOSION COULD RESULT.**

**WARNING:** **DO NOT** dry rags or articles coated or contaminated with gasoline, kerosene, oil, paint, or wax. **EXPLOSION COULD RESULT.**

**WARNING:** **DO NOT** dry mop heads. 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 rubberlike materials. Drying in a heated basket (tumbler) may damage plastics or rubber and also may be a fire hazard.

7. A program **should be** established for the inspection and cleaning of lint in the heating unit area, exhaust duct work, and inside 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 duct work can create a potential fire hazard.

8. For personal safety, the dryer **must be** electrically grounded in accordance with local codes and/or 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 do so will VOID THE WARRANTY.

9. **UNDER NO CIRCUMSTANCES** should the dryer door switch, lint door switch, or heat safety circuit ever be disabled.

**WARNING: PERSONAL INJURY or FIRE COULD RESULT.**

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

11. 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 hazard.

12. **READ and FOLLOW ALL CAUTION and DIRECTION LABELS ATTACHED TO THE DRYER.**

**WARNING: 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 (Occupational Safety and Health Administration) STANDARDS.**

13. For safety, proper operation, and optimum performance, the dryer **must not be** operated with a load less than 66% (20 pounds [9.07 kg]) of its rated capacity.

# SECTION II

## SPECIFICATIONS

### A. SPECIFICATIONS

MAXIMUM CAPACITY (DRY WEIGHT)		60 lbs. **	<b>27.2 kg</b>	
BASKET (TUMBLER) DIAMETER		27-1/4"	<b>69.22 cm</b>	
BASKET (TUMBLER) DEPTH		30"	<b>76.2 cm</b>	
BASKET (TUMBLER) MOTOR		1/2 HP *	<b>0.373 kw</b>	
Door Opening (DIAMETER)		21-1/2" *	<b>54.61 cm</b>	
BASKET (TUMBLER) VOLUME		10.1 cu. ft. *	<b>0.286 cu.m.</b>	
<b>Gas</b>	VOLTAGE AVAILABLE		120-240v 1ø 60/50 Hz	
			208-240v 3ø 60/50 Hz	
	APPROX. WEIGHT (UNCRATED)		850 lbs.	<b>385.6 kg</b>
	APPROX. WEIGHT (CRATED)		900 lbs.	<b>408.2 kg</b>
	HEAT INPUT		144,000 btu/hr **	<b>36,288 kcal/hr</b>
	AIRFLOW		800 cfm **	<b>22.65 cmm</b>
	INLET PIPE SIZE		3/4" N.P.T.	--
	EXHAUST DUCT OUTLET		8"	<b>20.32 cm</b>

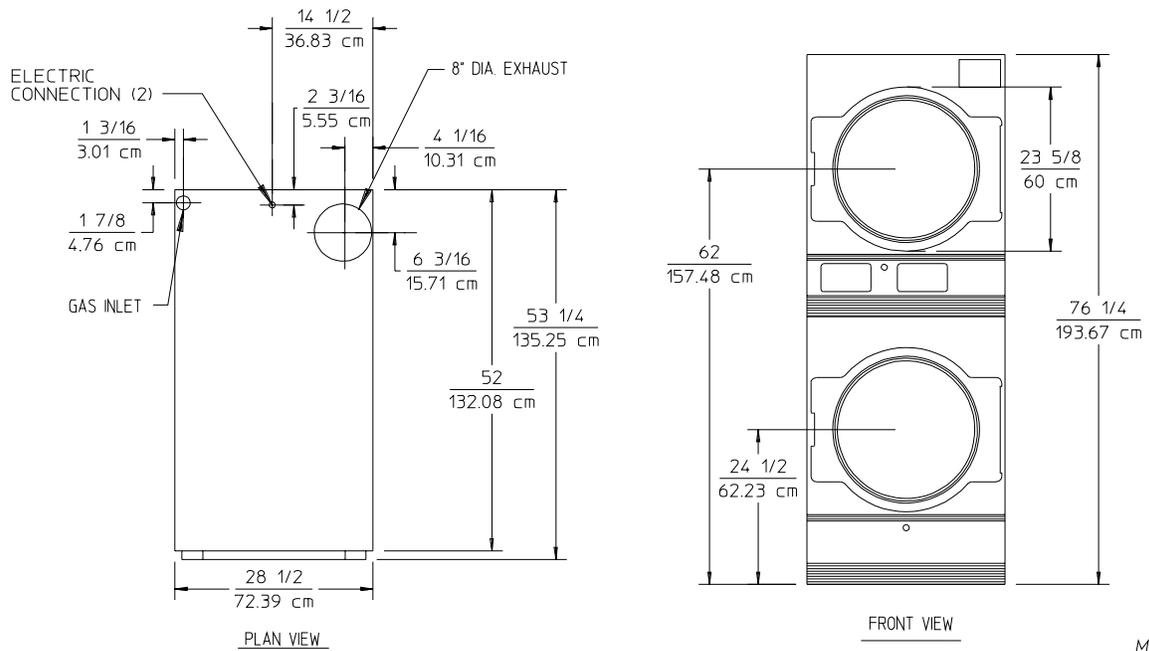
*Shaded areas are stated in metric equivalents*

\* Per basket (tumbler).

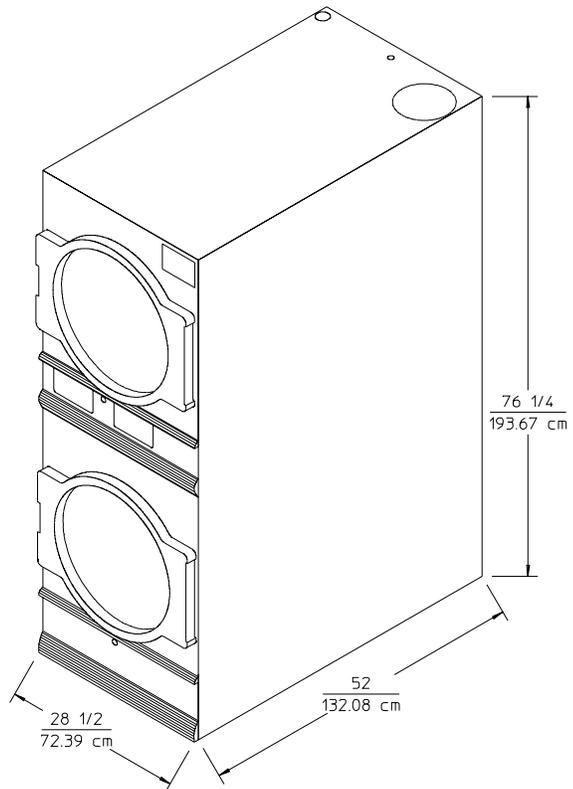
\*\* Total for both baskets (tumblers).

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

# ADG-235D (Gas)

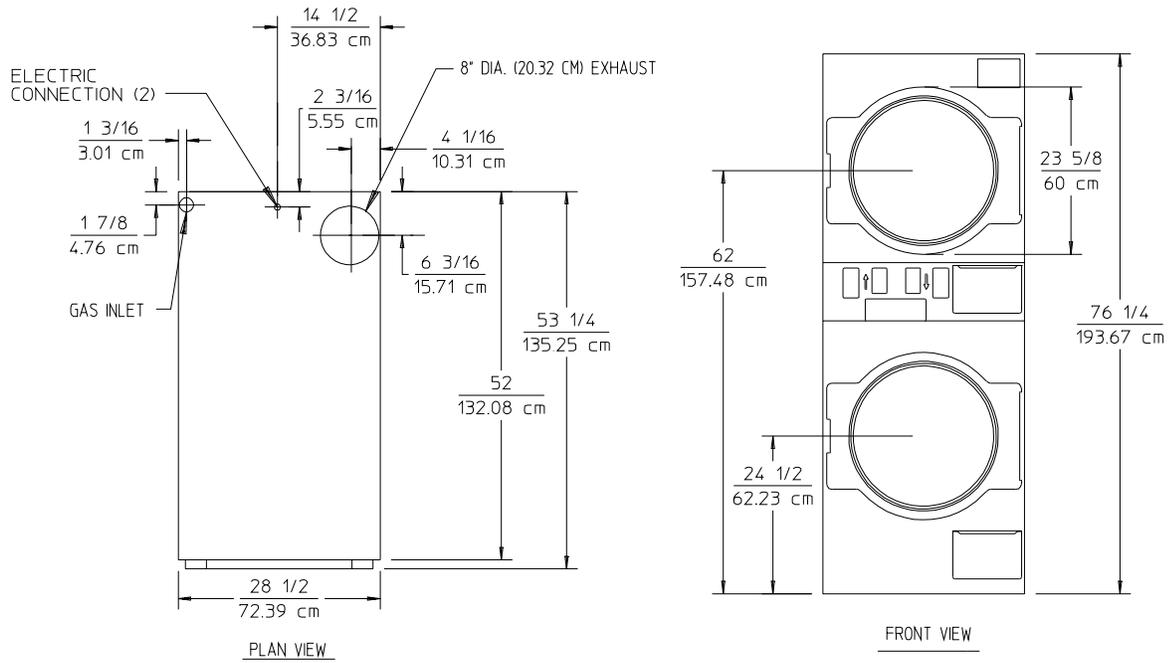


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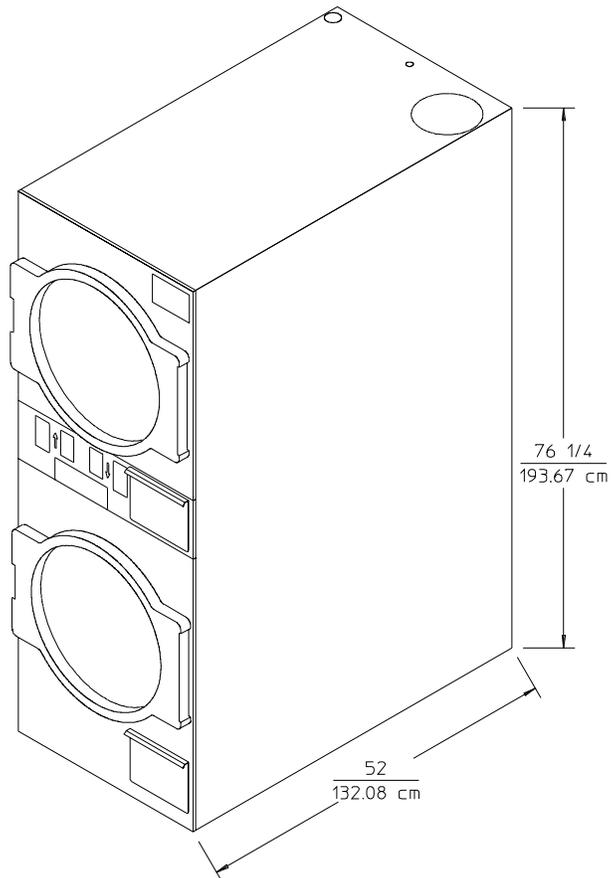


**NOTE:** ADC reserves the right to make changes in specifications at any time without notice or obligation.

# ADG-235ED (Gas)



SPEC327



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

# SECTION III

## INSTALLATION PROCEDURES

Installation **should be** performed by competent technicians in accordance with local and state 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).

### A. UNPACKING/SETTING UP

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

**NOTE:** The access keys for the service doors are included in the information packet shipped in the basket (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.

**Dryers are shipped with a coin box and coin box faceplate ONLY.** The coin box lock is not included and **must be** purchased elsewhere or the lock can be ordered as a parts order from the **ADC** factory.

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 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** four (4) 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 (1) at each corner of the dryer base. The hex head adjustment bolts for the two (2) front leveling legs are located directly behind the lower access door, and the rear two (2) adjustments are directly behind the lower rear back (guard) panel.

### B. LOCATION OF THE DRYER

Before installing the dryer, be sure the location conforms to local codes and ordinances. 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 (liquid propane [L.P.] Gas) or LATEST EDITION (for General Installation and Gas Plumbing).

1. The dryer **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.

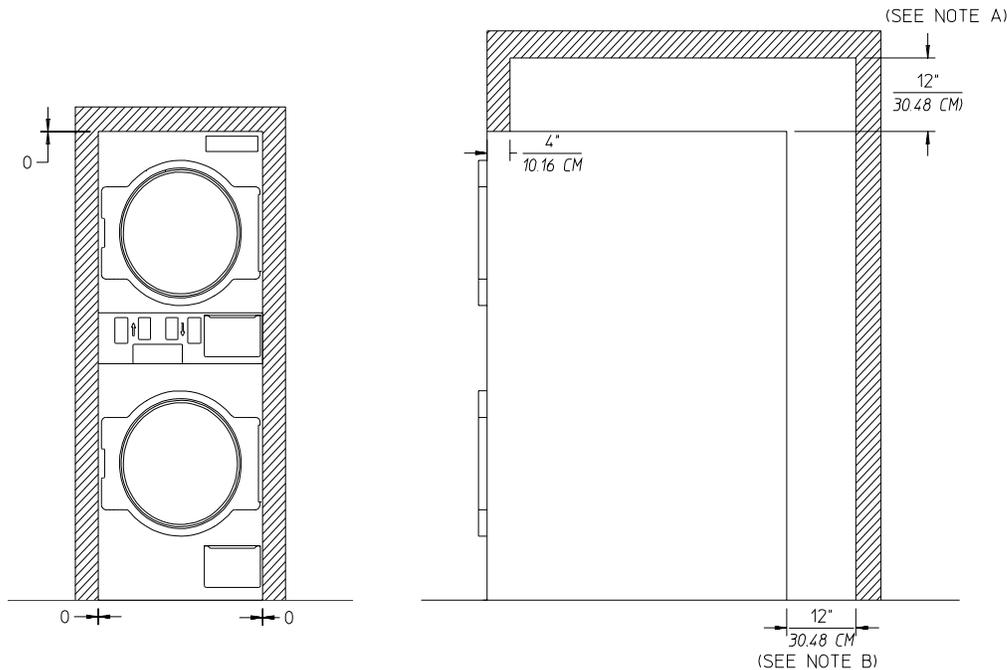
**IMPORTANT:** “The dryer **must be** installed on noncombustible floors only.”

2. The dryer **must not be** installed or stored in an area where it will be exposed to water and/or weather.
3. The dryer is for use in noncombustible locations.
4. Provisions for adequate air supply **must be** provided as noted in this manual (refer to **Fresh Air Supply** in **Section D**).
5. Clearance provisions **must be** made from noncombustible construction as noted in this manual (refer to **Dryer Enclosure Requirements** in **Section C**).

Even though a 12-inch (30.48 cm) clearance is acceptable, it is recommended that the rear of the dryer be positioned approximately 2 feet (0.61 meters) away from the nearest obstruction (i.e., wall) for ease of installation, maintenance, and service. (Refer to the **illustration below**.)

6. provisions **must be** made for adequate clearances for servicing and for operation as noted in this manual (refer to **Dryer Enclosure Requirements** in **Section C**).
7. Dryer **must be** exhausted to the outdoors in an area where correct exhaust venting can be achieved as noted in this manual (refer to **Exhaust Requirements** in **Section E**).
8. Dryer **must be** located in an area where correct exhaust venting can be achieved as noted in this manual (refer to **Exhaust Requirements** in **Section E**).

CLEARANCES SHOWN ARE MINIMUM DIMENSIONS TO NEAREST COMBUSTIBLE MATERIALS.



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NOTES:

- A. MINIMUM OF 12" (30.48 CM) CLEARANCE IS ACCEPTABLE FOR EASE OF INSTALLATION AND SERVICE (POWER CONNECTIONS). AT LEAST 18" (45.72 CM) IS RECOMMENDED.
- B. MINIMUM OF 12" (30.48 CM) CLEARANCE IS ACCEPTABLE FOR EASE OF INSTALLATION, MAINTENANCE AND SERVICE. AT LEAST 24" (61 CM) IS RECOMMENDED.

**IMPORTANT:** Dryer *should be* located where a minimum amount of exhaust duct will be necessary.

## C. DRYER ENCLOSURE REQUIREMENTS

Bulkheads and partitions **should be** made of noncombustible materials and **must be** located a minimum of 12-inches (30.48 cm), 18-inches (45.72 cm) or more is recommended for ease of installation, maintenance, and service) above the dryer's outer top, except along the front of the dryer which may be closed in if desired.

**NOTE:** Even though a minimum of 12-inches (30.48 cm) above the dryer's outer top is acceptable, a clearance of 18-inches (45.72 cm) or more is suggested for ease of installation and service (electrical power connections).

**NOTE:** When fire sprinkler systems are located above the dryers, a minimum of 12-inches (30.48 cm) above the dryer's outer top is required.

**NOTE:** Allowances **must be** made for opening the control door.

Dryers may be positioned side wall to side wall. However, allowances **must be** made for opening and closing of the control door and the lint door. It is suggested that the dryer be positioned about 2 feet (0.61 meters) away from the nearest obstruction for ease of installation, maintenance, and service (to be measured from the back guard). Refer to the **illustration** on the **previous page (page 10)** for details.

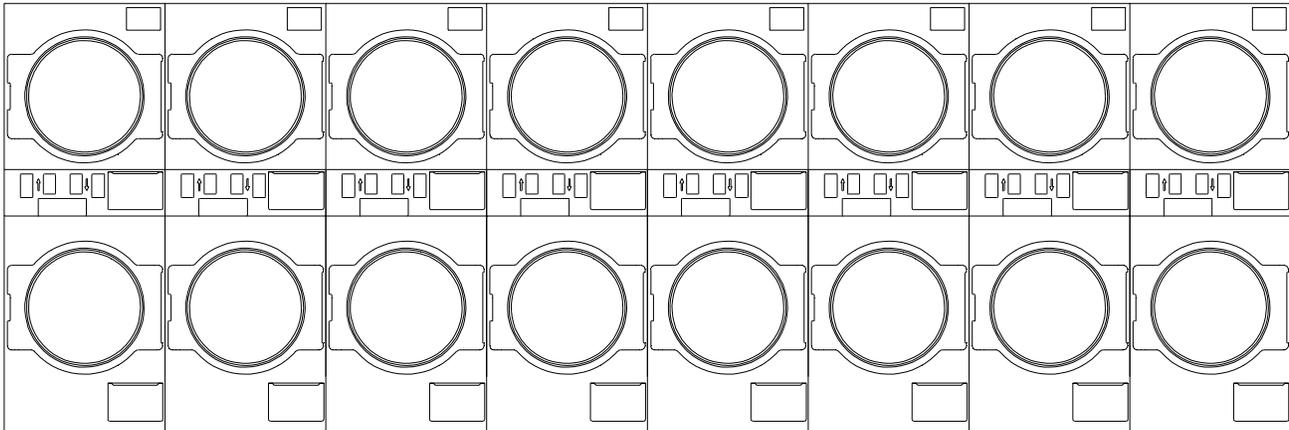
**NOTE:** Air considerations are important for proper and efficient operation.

## D. FRESH AIR SUPPLY

Air supply (make-up air) **must be** given careful consideration to assure proper performance of each dryer. An unrestricted source of 800 cfm (22.65 cmm) is necessary for each dryer. An unrestricted air entrance from the outdoors (atmosphere) of a minimum of 1-1/2 square feet (0.14 square meters) 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 square feet (3.66 square meters) is required. Two (2) openings measuring 2 feet by 3 feet (0.61 by 0.92 meters) - 6 square feet (0.56 square meters) - are acceptable. (Refer to the **illustration** on **page 12.**)

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

**IMPORTANT:** Make-up air **must be** provided from a source 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.



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## TYPICAL INSTALLATION SHOWING MAKE-UP AIR OPENINGS

**IMPORTANT:** Make-up air openings *should not be* located near duct work exhaust outlets. If make-up air opening(s) are too close to the exhaust outlet, lint and fumes may be drawn back into the dryer area through these openings.

**NOTE:** Component failure due to dry cleaning solvent fumes will VOID THE WARRANTY.

## E. 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 basket (tumbler) hi-heat thermostats.

**CAUTION: IMPROPERLY SIZED or INSTALLED EXHAUST DUCT WORK CAN CREATE A POTENTIAL FIRE HAZARD.**

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. When single dryer venting is used, the duct work from the dryer to the outside exhaust outlet **must not exceed** 20 feet (6.1 meters). In the case of multiple (common) dryer venting, the distance from the last dryer to the outside exhaust outlet **must not exceed** 20 feet (6.1 meters). The shape of the exhaust duct work is not critical so long as the minimum cross-sectional area is provided.

### 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° turns in ducting be avoided; use 30° or 45° angles instead. The shape of the exhaust duct work is not critical so long as the minimum cross-sectional area is provided.

**IMPORTANT:** Exhaust back pressure measured by a manometer at each basket (tumbler) exhaust duct area **must not exceed** 0.3 inches of water column (7.4 mb).

It is suggested that the duct work from each dryer not exceed 20 feet (6.1 meters) with no more than two (2) elbows. If the duct work exceeds 20 feet (6.1 meters) or has numerous elbows, the cross-sectional area of the duct work **must be** increased in proportion to length or number of elbows in it.

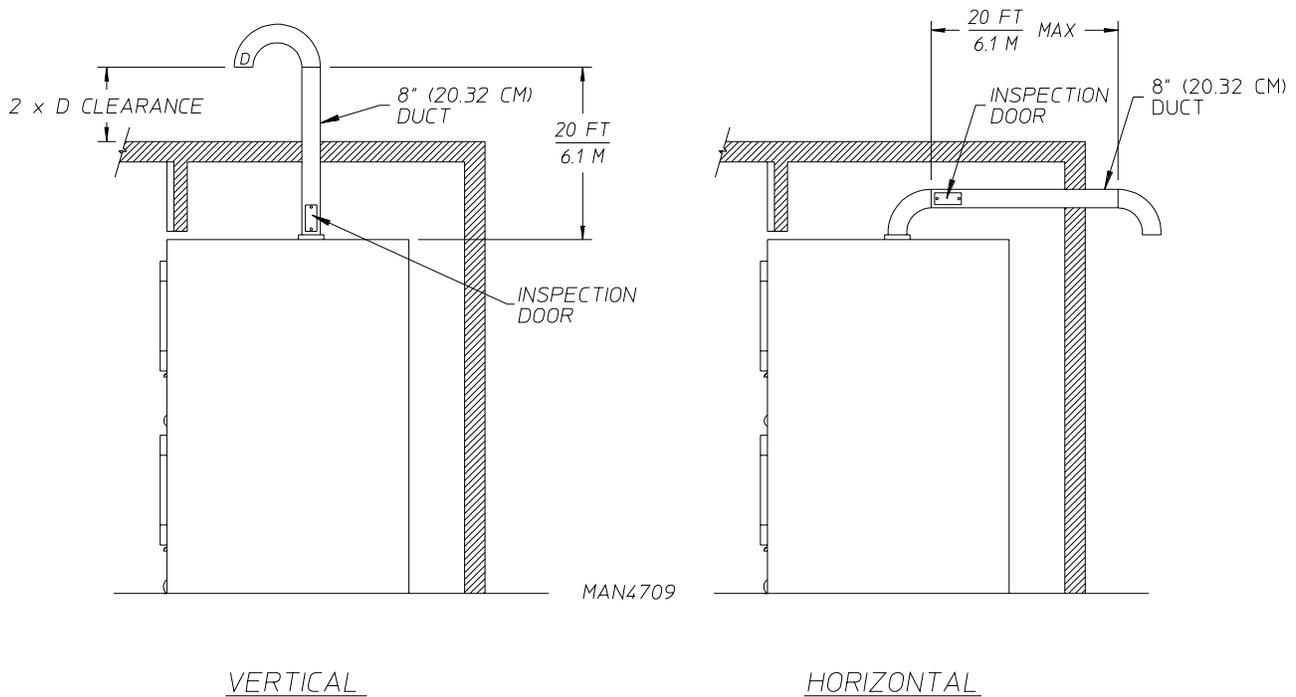
**IMPORTANT:** For extended duct work runs, the cross-sectional area of the duct work can only be increased to an extent. When the duct work approaches the maximum limits as noted in this manual, a professional heating venting air conditioning (HVAC) firm **should be** consulted for proper venting information.

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:** When the exhaust duct work 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.

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

SINGLE DRYER VENTING



**IMPORTANT: DO NOT** use screens or caps on the outside opening of the 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.” The individual ducts should enter the bottom or side of the main duct at an angle not more than 45° in the direction of the airflow. The main duct **should be** tapered, with the diameter increasing before each individual 8-inch (20.32 cm) duct is added.

**IMPORTANT:** No more than eight (8) dryers **should be** connected to one (1) main common duct. (Refer to the **illustration** on **page 16**).

**NOTE:** Refer to the **illustration** on **page 16** for examples of multiple dryer (common) venting.

The main duct may be any shape so long as the minimum cross-sectional area is provided. The **illustration** on **page 16** shows the minimum cross-sectional area for multiple dryer venting. These figures **must be** increased in proportion if the main duct run from the last dryer to where it exhausts to the outdoors is unusually long (over 20 feet [6.1 meters]) or has numerous elbows (more than two [2]) in it.

**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 runs **cannot** exceed 20 feet (6.1 meters) more than the original limitations of 20 feet (6.1 meters) 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

**IMPORTANT:** Exhaust back pressure measured by a manometer at each basket (tumbler) exhaust duct area **must not exceed** 0.3 inches water column (W.C.) - 0.74 mb.

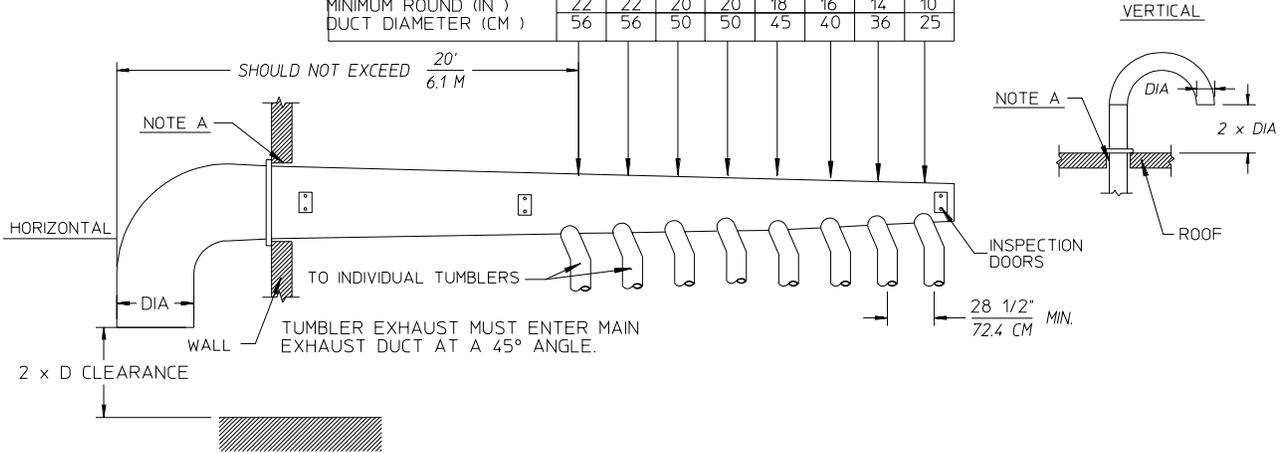
The duct work **should be** smooth inside with no projections from sheet metal screws or other obstructions which will collect lint. When adding ducts, the duct to be added should overlap the duct to which it is to be connected. **ALL** duct work joints **must be** taped to prevent moisture and lint 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:** When the exhaust duct work 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.

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

**MULTIPLE DRYER VENTING**  
WITH 8" (20.32 CM) DIAMETER EXHAUST CONNECTIONS AT COMMON DUCT

NO. OF DRYERS	8	7	6	5	4	3	2	1
MINIMUM CROSS (SQ IN )	380	380	315	315	255	200	155	80
SECTION AREA (SQ CM )	2451	2451	2032	2032	1655	1290	1000	516
MINIMUM ROUND (IN )	22	22	20	20	18	16	14	10
DUCT DIAMETER (CM )	56	56	50	50	45	40	36	25



IMPORTANT: NO MORE THAN 8 DRYERS CAN  
BE CONNECTED TO ONE COMMON DUCT (VENT).

RAR 09/06/00

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FORMULAS TO CALCULATE DUCTING CROSS SECTIONAL AREA	
CROSS SECTIONAL AREA OF A ROUND DUCT = .785 (19.939 MM) x D <sup>2</sup> WHERE D = DIAMETER OF THE DUCT.	
CROSS SECTIONAL AREA OF A RECTANGULAR DUCT = W x H WHERE W = WIDTH AND H = HEIGHT.	

NOTE A: OPENING MUST BE 2-INCHES (5.08 CM) LARGER THAN THE DUCT (ALL THE WAY AROUND).  
THE DUCT MUST BE CENTERED WITHIN THIS OPENING.

**IMPORTANT: DO NOT** use screens or caps on the outside opening of the exhaust duct work.

## F. 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, 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.

A separate circuit servicing each dryer **must be** provided. The dryer **must be** connected to copper wire ONLY. ***DO NOT use aluminum wire which could cause a fire hazard.***

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

**IMPORTANT:** The dryer ***must be*** connected to the electrical supply shown on the data label affixed to the dryer. In the case of 208 VAC or 230/240 VAC, the supply voltage ***must match*** the electric service specifications of the data label **exactly**.

**WARNING:** **208 VAC and 230/240 VAC ARE NOT THE SAME**. Any damage done to dryer components due to improper voltage connections will automatically VOID THE WARRANTY.

**NOTE:** On gas dryers, to convert from 208 VAC to 230/240 VAC (or vice versa), the Direct Spark Ignition (DSI) transformer wiring ***must be*** changed.

## 2. Grounding

A ground (earth) connections **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 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 (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 electrical ground. If there are any nonmetallic interruptions, such as, a meter, pump, plastic, rubber, or other insulating connectors, they **must be** jumped with no. 4 copper wire and securely clamped to bare metal at both ends.

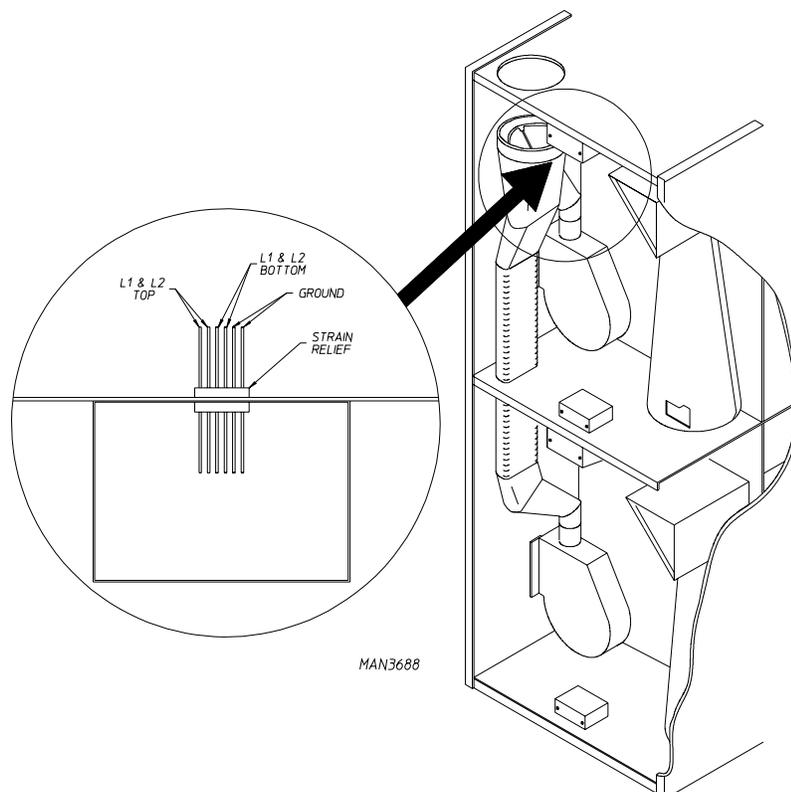
**IMPORTANT:** For personal safety and proper operation, the dryer **must be** grounded.

## 3. Electrical Connections

A wire diagram is located on the inside of the control (service) box for connection data.

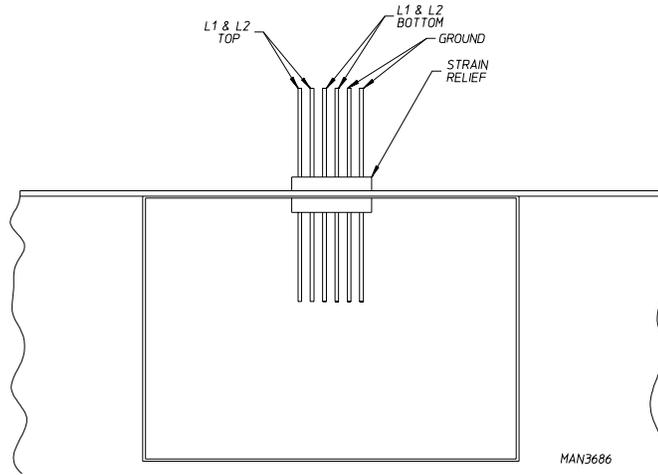
### a. Single-Phase (1Ø) Hookup

The electrical connections on ALL single-phase (1Ø) dryers are made into the junction box located at the upper rear of the dryer. A separate circuit servicing each dryer basket (tumbler) **must be** provided.



SINGLE-PHASE (1Ø) ELECTRICAL CONNECTIONS LEADS		
Black + Positive	White - Neutral	Green Ground
or L2		

Providing 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 the rating of the 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.



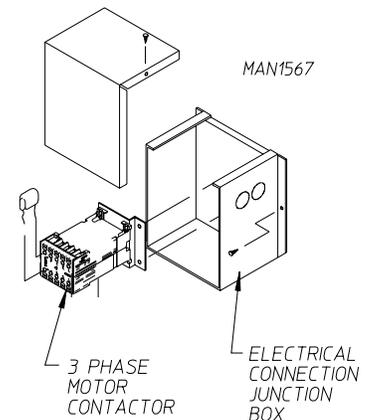
#### 4. 3-Phase (3Ø) Wiring Connections

The only electrical input connections to the dryer are the 3-phase (3Ø) power leads (L1, L2, L3, and sometimes Neutral) and ground. Single phase (1Ø) power for the control circuit and for any single-phase (1Ø) motors (if present) is done internally to the dryer. No single-phase (1Ø) input connection is required on a 3-phase (3Ø) dryer.

##### a. 3-Phase (3Ø) Hookup

For gas dryers manufactured for operation at 3-phase (3Ø), the electrical connections are made at the power distribution block located in the service box at the rear, upper left hand corner of the dryer. To gain access to the service box and contactor, the service box cover **must be** removed.

Providing 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 the rating of the 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.



# ADG-230D (Gas) ADG-235ED (Gas)

## ELECTRICAL SERVICE SPECIFICATIONS (PER DRYER)

**IMPORTANT:** 208 VAC AND 230/240 VAC **ARE NOT THE SAME.** When ordering, *specify exact voltage.*

**NOTE:**

- A. Circuit breakers are thermal magnetic (industrial) type **ONLY.** For others, calculate/verify correct breaker size according to appliance amp draw rating and type of breaker used.
- B. Circuit breakers for 3-phase (3 $\phi$ ) dryers **must be** 3-pole type.

SERVICE VOLTAGE	PHASE	WIRE SERVICE	APPROX. AMP DRAW (60 Hz)	MINIMUM WIRE SIZE*	CIRCUIT BREAKER
120	1 $\phi$	2	9.6	14	20
208	1 $\phi$	2	5.8	14	15
230/240	1 $\phi$	2	5.3	14	15
208	3 $\phi$	3	2.9	14	15
230/240	3 $\phi$	3	3.2	14	15

\* AWG Stranded Type Wire...for individual lengths less than 100 feet (30.48m).

**NOTE:** Contact factory for electrical information not listed.

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

## G. 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, materials, and workmanship **must conform** to the applicable requirements of 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/CGA-B149.2-M91 (liquid propane [L.P.] Gas) 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 and improper operation of the dryer.

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

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

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

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

### 1. Gas Supply

The gas dryer installation **must meet** the American National Standard...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/CGA-B149.2-M91 (L.P. Gas) or LATEST EDITION, as well as local codes and ordinances and **must be** done by a qualified professional.

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

The dryer **must be** connected to the type of heat/gas indicated on the dryer's data label. If this information does not agree with the type of gas available, **DO NOT operate the dryer**. Contact the reseller who sold the dryer or the **ADC** factory.

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

The input ratings shown on the dryer's data label are for elevations up to 2,000 feet (609.6 meters), unless elevation requirements of over 2,000 feet (609.6 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 (609.6 meters) are made by changing each burner orifice. If this conversion is necessary, contact the reseller who sold the dryer or contact the **ADC** factory.

2. Technical Gas Data

a. Gas Specifications

	<b>TYPE OF GAS</b>			
	Natural		Liquid Propane	
Manifold Pressure*	3.5 inches W.C.	<b>8.7 mb</b>	10.5 inches W.C.	<b>26.1 mb</b>
Inline Pressure	6.0 - 12.0 inches W.C.	<b>14.92 - 29.9 mb</b>	10.5 inches W.C.	<b>26.1 mb</b>

*Shaded areas are stated in metric equivalents*

\* Measured at gas valve pressure tap when the gas valve is on.

b. Gas Connections:

Inlet connection ----- 3/4-inch N.P.T.  
 Inlet supply size ----- 3/4-inch N.P.T. (minimum)  
 Btu/hr input (per dryer) ----- 144,000 (36,288 kcal/hr)  
 Btu/hr input (per pocket) --- 72,000 (18,144 kcal/hr)

1) Natural Gas

Regulation is controlled by the dryer's gas valve's internal regulator. Incoming supply pressure **must be** consistent between a minimum of 6.0 inches (14.92 mb) and a maximum of 12.0 inches water column (W.C.) - 29.9 mb - pressure.

2) Liquid Propane (L.P.) Gas

Dryers made for use with L.P. gas have the gas valve's internal pressure regulator blocked open so that the gas pressure **must be** regulated upstream of the dryer. The pressure measured at each gas valve pressure tap **must be** a consistent 10.5 inches water column (26.1 mb.) There is no regulator or regulation provided in a 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.

ADC MODEL NUMBER	BTU Per Hour Rating	kcal/hr Rating **	<b>TYPE OF GAS</b>						Liquid Propane (L.P.) Conversion Kit Part Number
			Natural			Liquid Propane (L.P.)			
			Qty.**	D.M.S.*	Part Number	Qty.**	D.M.S.*	Part Number	
ADG-230D ADG-235ED	72,000	<b>18,144</b>	1	#20	140828	1	#41	140811	874059

*Shaded area is stated in metric equivalent*

\* D.M.S. (Drill Material Size) equivalents are as follows:

\*\* Each pocket/tumbler

Natural Gas ..... #20 = .1610" (4.089 mm)

Liquid Propane Gas .. #41 = .0960" (2.438 mm)

### 3. Piping Connections

**ALL** components/materials **must conform** to National Fuel Gas Code Specifications ANSI Z223.1-LATEST EDITION, or in Canada, CAN/CGA-B149.1-M91 (Natural Gas) or CAN/CGA-B149.2-M91 (liquid propane [L.P.] Gas) or LATEST EDITION (for General Installation and Gas Plumbing), as well as local codes and ordinances and **must be** done by a qualified professional. 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 BTUs being supplied.

The dryer is provided with a 3/4-inch N.P.T. inlet pipe connection located at the upper right hand corner (when viewed from the rear ) of the dryer. The minimum pipe size (supply line) to the dryer is 3/4" N.P.T. For ease of servicing, the gas supply line of each dryer **must have** its own shutoff valve.

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), 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 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-inch pipe loop be installed in the supply line servicing 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 (29.2 mb.) Refer to the **illustration** on the following page [[page 24](#)] for details.

**IMPORTANT:** Water column pressure of 3.5 inches (8.7 mb) for natural gas dryers and 10.5 inches (26.1 mb) for L.P. gas is required at the gas valve pressure tap of each dryer for proper and safe operation.

An 1/8-inch N.P.T. plugged tap, 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 gas and L.P. gas **must be** used.

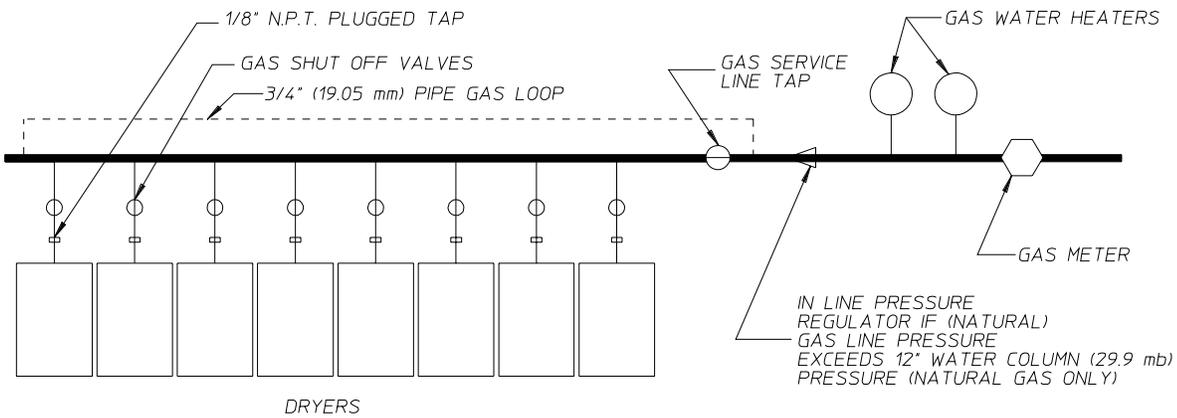
**IMPORTANT:** Test **ALL** connections for leaks by brushing on a soapy water solution (liquid detergent works well).

**WARNING: NEVER TEST FOR LEAKS WITH A FLAME!!!**

**IMPORTANT:** 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).

**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).

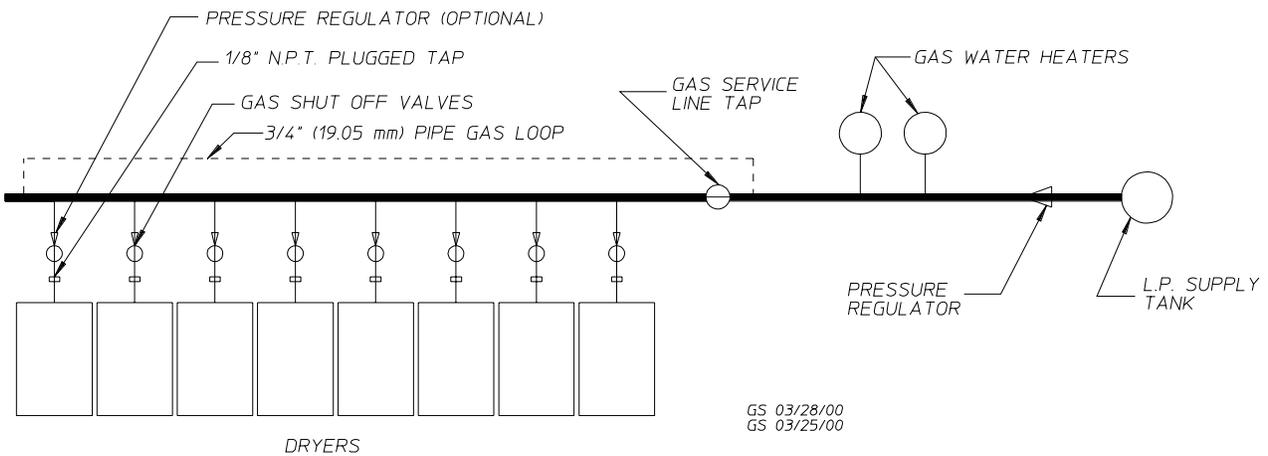
TYPICAL NATURAL GAS INSTALLATION



IN LINE PRESSURE  
REGULATOR IF (NATURAL)  
GAS LINE PRESSURE  
EXCEEDS 12" WATER COLUMN (29.9 mb)  
PRESSURE (NATURAL GAS ONLY)

MAN5155

TYPICAL L.P. GAS INSTALLATION



GS 03/28/00  
GS 03/25/00

## H. PREPARATION FOR OPERATION

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

1. Read **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’s data label affixed on the back of the dryer control (service) door.
3. **GAS MODELS** - check to assure that the dryer is connected to the type of heat/gas indicated on the dryer’s data label.
4. **GAS & ELECTRIC MODELS** - the sail switch damper assembly was installed and adjusted at the factory prior to shipping. However, each sail switch adjustment **must be** checked to assure that this important safety control is functioning.
5. Check bolts, nuts, screws, terminals, and fittings for tightness.
6. **GAS MODELS** - be sure that **ALL** gas shutoff valves are in the open position.
7. Be sure **ALL** back guard panels and service box covers have been replaced.
8. Check the lint door to assure that it is closed and secured in place.
9. Rotate the basket (tumbler) by hand to be sure it moves freely.

## I. PREOPERATIONAL TESTS

**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.

1. Turn on electric power to the dryer.
  - a. **COIN MODELS ONLY**
    - 1) The light emitting diode (L.E.D.) display(s) will flash back and forth between “FILL” and the amount needed to start the dryer (i.e., “25”), meaning that the dryer is available and 25¢ is required to start it.
    - 2) Insert the proper number of coins into coin acceptor. Once the correct amount needed to start the dryer has been inserted, the L.E.D. display(s) will read “PUSH.”
    - 3) Start the dryer by pressing the desired setting (i.e., “LO” selection for the upper basket/tumbler). The L.E.D. display will now read the selection (setting) made and the amount of time vended (i.e., “LO 10”).

<p><b>NOTE:</b> The dryer can be stopped at any time by opening the main door. To restart dryer, shut the main door and press desired setting.</p>
--

- 4) Open main door to stop the dryer, and change selection to “PERM PRESS” (medium) setting. Repeat this procedure, but change the selection (setting) to “HI” (high). This will confirm that setting key circuits and door switch circuits are functioning properly.
- 5) Repeat above procedure for the other basket (tumbler).

**b. OPL (NON-COIN) MODELS ONLY**

- 1) The light emitting diode (L.E.D.) display(s) will read “FILL” meaning that the dryer is available.
- 2) Start the dryer by pressing the “E” of the keyboard (touch pad). The L.E.D. display will quickly show “Ld 30,” “LC 04,” “F 180.” The dryer will start and the L.E.D. display will show “dr 30.”

**NOTE:** The dryer can be stopped at any time by opening the main door. To restart the dryer, shut the main door and press “ENTER/START.”

- 3) Repeat above procedure for the other basket (tumbler).

**2. Heat Circuit Operational Test.**

- a. 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.

**NOTE:** Gas dryers are equipped with a Direct Spark Ignition (DSI) system which has internal diagnostics. If ignition **is not** established after the first attempt, the heat circuit in the DSI module will lockout until it is manually reset. To reset the DSI system, open and close the main door and restart the dryer.

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

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

Natural Gas ..... 3.5 Inches Water Column (8.7 mb).  
 Liquid Propane (L.P.) Gas ..... 10.5 Inches Water Column (26.1 mb).

**IMPORTANT:** There is no regulator provided in a L.P. Dryer. The water column (W.C.) pressure **must be** regulated at the source (L.P. tank) or an external regulator **must be** added to each dryer.

3. Make a complete operational check of **ALL** the operating controls to insure that the timing is correct and that the temperatures are set properly.

4. Make a complete operational check of **ALL** safety-related circuits (i.e., door switches, hi-limit thermostats, sail switches, basket [tumbler] safety thermostats, etc.).

**NOTE:** The sail switch can be checked for proper operation by opening the 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 the necessary adjustments.

5. Each basket (tumbler) **should be** operated through one (1) complete cycle to assure that no further adjustments are necessary and that **ALL** components are functioning properly.

## BASKET COATING

The basket (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 basket (tumbler) to remove this coating.

**NOTE:** Drying and cooling cycles are complete when the light emitting diode (L.E.D.) display reads “donE.”

6. Computer Programs/Selections...

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

7. On models manufactured for 3-phase (3 $\phi$ ) electrical input voltage, check the electrical service phase sequence. While the dryer is operating, check to see if the baskets (tumblers) are rotating in the clockwise (CW) direction (when viewed from the front of the dryer). If the baskets (tumblers) rotate counterclockwise (CCW), the phasing is incorrect. Reverse the two (2) leads at connections L1, L2, or L3 of the power supply to the dryer.

## J. SHUT DOWN INSTRUCTIONS

In the case where the dryer is to be shut down (taken out of service) for a period of time, the following **must be** performed:

1. Discontinue power to the dryer either at the external disconnect switch or the circuit breaker.
2. Discontinue the gas supply (for gas models Only):
  - a. **SHUT OFF external gas supply shutoff valve (for both the top basket [tumbler] and the bottom basket [tumbler] where the independent supply line for each basket [tumbler] is used).**
  - b. **SHUT OFF internal gas supply shutoff valve located in the gas valve burner area (for both the top basket [tumbler] and the bottom basket [tumbler]).**

# SECTION IV

## OPERATING INSTRUCTIONS

### A. STARTING THE DRYER

The dryer is available for use when the appropriate microprocessor controller (computer) light emitting diode (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, the L.E.D. display will read “PUSH.”
2. Determine fabric setting (selection). Setting “HI TEMP” is the high temperature range, “PERM PRESS” is the medium-range temperature setting, and “LO TEMP” is the low-range temperature.

Once the fabric temperature setting (selection) has been determined, start the dryer by pressing the fabric setting key.

3. The dryer will now start, and the L.E.D. display 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 cycle and cooling cycle, the dryer will shut off, the tone (buzzer) will sound for 5-seconds, and the L.E.D. display will read “donE.”

**NOTE:** If the Anti-Wrinkle program is active, the L.E.D. display will remain reading “donE,” and the microprocessor controller (computer) will proceed through the Anti-Wrinkle program until the maximum “Active Guard Time” has expired or until the main door is opened, whichever comes first.

**NOTE:** If the Anti-Wrinkle program **is not** active or in use, the L.E.D. display will read “donE” until the main door is opened, at which time, the L.E.D. display will read “FILL” and/or the “Amount To Start.”

#### a. Notes

- 1) The dryer basket (tumbler) can be stopped at any time by opening the main door. To restart dryer, shut the main door and press desired setting.

**NOTE:** When a cycle is interrupted by opening the main door, the cycle time will continue to count downward, regardless if the door is open or closed until a keyboard (touch pad) selection is made.

- 2) Selection (setting) changes can be made at any time during the drying cycle by opening and closing the main door and then making a new selection.
- 3) Additional time can be purchased at any time. If the dryer is in operation (drying mode) and additional coins are inserted, the light emitting diode (L.E.D.) display will change to display the appropriate time vended.

# SECTION V

## SERVICE/PARTS INFORMATION

### A. SERVICE

1. Only properly licensed or trained technicians should service the dryer. If service is required, contact the reseller from whom the **ADC** equipment was purchased. If the reseller **cannot** be contacted or is unknown, contact the **ADC** Service Department for a reseller in your area.

**NOTE:** When contacting the **ADC** Service Department, be sure to give them the correct **model number** and **serial number** so that your inquiry is handled in an expeditious manner.

### B. PARTS

1. Replacement parts **should be** purchased from the reseller from whom the **ADC** equipment was purchased. If the reseller **cannot** be contacted or is unknown, contact the **ADC** Parts Department for a reseller in your area. Parts may also be purchased directly from the factory by calling the **ADC** Parts Department at (508) 678-9000 or you may FAX in your order at (508) 678-9447.

**NOTE:** When ordering replacement parts from the **ADC** dealer or the **ADC** factory be sure to give them the correct **model number** and **serial number** so that your parts order can be processed in an expeditious manner.

# SECTION VI

## WARRANTY INFORMATION

### A. RETURNING WARRANTY CARD(S)

1. Before any dryer leaves the **ADC** factory 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, if you file a warranty claim.
  - a. If a warranty card did not come with your dryer, contact the **ADC** Warranty Department or the **ADC** Service Department at (508) 678-9000.

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

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

### B. WARRANTY

For a copy of the **ADC** commercial warranty covering your particular dryer(s), contact the **ADC** reseller from whom you purchased the equipment and request a dryer warranty form. If the reseller **cannot** be contacted or is unknown, warranty information can be obtained from the factory by contacting the **ADC** Warranty Department at (508) 678-9000.

**NOTE:** Whenever contacting the **ADC** factory for warranty or warranty information, be sure to have the dryer's **model number** and **serial number** available so that your inquiry can be handled in an expeditious manner.

### C. RETURNING WARRANTY PART(S)

**ADC** has a Warranty Parts Department that handles **ALL** returned warranted merchandise. To expedite processing, the following procedures **must be** followed:

1. No parts are to be returned to **ADC** without prior written authorization (“Return Material Authorization” [R.M.A.]) from the factory.

**NOTE:** A R.M.A. is valid for only sixty (60) days from date of issue.

- a. The R.M.A. issued by the factory, as well as any other correspondence pertaining to the returned part(s), **must be** included inside the package with the failed merchandise.
2. Each part **must be** tagged with the following information:
  - a. **Model number** and **serial number** of the dryer from which part was removed.
  - b. Nature of failure (be specific).
  - c. Date of dryer installation.
  - d. Date of part failure.
  - e. Specify whether the part(s) being returned is for a replacement, a credit, or a refund.

**NOTE:** If a part is marked for a credit or a refund, the invoice number covering the purchase of the replacement part **must be** provided.

**NOTE:** Warranty tags (ADC Part No. 450064) are available at “no charge” from ADC upon request.

3. The company returning the part(s) **must clearly note** the complete company name and address on the outside of the package.
4. **ALL** returns **must be** properly packaged to insure that they are not damaged in transit. *Damage claims are the responsibility of the shipper.*

**IMPORTANT:** No replacements, credits, or refunds **will be** issued for merchandise damaged in transit.

5. **ALL** returns **should be** shipped to the ADC factory in such a manner that they are insured and a proof of delivery can be obtained by the sender.
6. **Shipping charges are not the responsibility of ADC. ALL returns should be “prepaid” to the factory. Any “C.O.D.” or “COLLECT” returns will not be accepted.**

**IMPORTANT:** No replacements, credits, or refunds **will be** issued if the claim **cannot** be processed due to insufficient information. The party filing the claim **will be** notified in writing, either by “FAX” or “CERTIFIED MAIL - Return Receipt Requested,” as to the information necessary to process claim. If a reply **is not** received by the ADC Warranty Department within thirty (30) days from the FAX/letter date, then no replacement, credit, or refund **will be** issued, and the merchandise **will be discarded**.

# SECTION VII

## ROUTINE MAINTENANCE

### A. 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 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, an ADC 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.**

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

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

### SUGGESTED CLEANING SCHEDULE

#### ***DAILY (beginning of each work shift)***

Clean lint from basket(s)/tumbler(s).

Inspect lint screen(s)/drawer(s) for damage and replace if torn.

#### ***WEEKLY***

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

## ***90 DAYS***

Remove lint from the motor air vents and surrounding area.

**IMPORTANT:** Lint accumulation will restrict the airflow over the motor(s), 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 dryer's back panels.

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

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

Inspect and remove lint accumulation in customer furnished exhaust duct work system and from the dryer's 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 AIR and VENTILATION AIR.

Inspect and remove lint accumulation from the dryer's 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 and/or thermostats.

## ***EVERY 6 MONTHS***

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

**ALL** bearings and set screws **should be** checked to insure they are tight.

## B. ADJUSTMENTS

### ***7 DAYS AFTER INSTALLATION and EVERY 6 MONTHS THEREAFTER***

Inspect bolts, nuts, screws (bearing set screws), nonpermanent gas connections (unions, shutoff valves, orifices, etc.), electrical terminations, and grounding connections.

Motor and drive belts **should be** examined. A cracked or seriously frayed belt(s) **should be** replaced. Tighten loose belt(s) when necessary and check the alignment.

Complete operational check of controls and valves.

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

## C. LUBRICATION

The motor bearings, idler bearings, and under normal/most conditions the tumbler bearings are permanently lubricated. It is physically possible to re-lubricate the tumbler bearings if you chose to do so even though this practice is not necessary. Use Shell Alvania #2 grease or its equivalent. The tumbler bearings used in the dryer **DO NOT** have a grease fitting. Provisions are made in the bearing housing for the addition of a grease fitting which can be obtained elsewhere, or from **ADC** by ordering kit Part No. 882159 (includes two [2] fittings).

# SECTION VIII

## TROUBLESHOOTING

**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 (Occupational Safety and Health Administration) STANDARDS.**

The information provided will help isolate the most probable component(s) associated with the difficulty described. The experienced technician realizes, however, that a loose connection or broken/shorted wire may be at fault where electrical components are concerned ... and not necessarily the suspected component itself.

Electrical parts **should always be** checked for failure before being returned to the factory.

The information provided **should not be** misconstrued as a handbook for use by an untrained person making repairs.

**IMPORTANT:** When replacing blown fuses, the replacement *must be* of the exact rating as the fuse being replaced.

**WARNING:** ALL SERVICE and TROUBLESHOOTING **SHOULD BE** PERFORMED BY A QUALIFIED PROFESSIONAL or SERVICE AGENCY.

**WARNING:** WHILE MAKING REPAIRS, OBSERVE ALL SAFETY PRECAUTIONS DISPLAYED ON THE DRYER or SPECIFIED IN THIS MANUAL.

### **A. No light emitting diode (L.E.D.) display...**

1. Service panel fuse blown or tripped breaker.
2. Blown control circuit fuse (1/2-Amp [slo blo] fuse).
3. Failed microprocessor controller (computer).

### **B. Basket (tumbler) motor does not start, microprocessor controller (computer) shows drying cycle in progress and L.E.D. motor indicator dot is on...**

1. Microprocessor controller (computer) indicator is on ...
  - a. Failed motor contactor (relay).
  - b. Failed motor.

2. Microprocessor controller (computer) indicator is off (and the light emitting diode [L.E.D.] display does not read “door”) ...
  - a. Failed microprocessor controller (computer).

**C. The dryer will not stop, even with no cycle (L.E.D. display reads “FILL”) in progress...**

1. Failed motor contactor/relay.

**D. The dryer operates for a few minutes, and with the microprocessor controller (computer) motor L.E.D. indicator dot on the motor stops, and then after a period of time restarts on it’s own...**

1. Motor is overheating and tripping out on its internal overload ...
  - a. Motor air vents clogged with lint.
  - b. Low voltage to motor.

**E. The dryer operates for a few minutes and then stops...microprocessor controller (computer) L.E.D. display continues to read cycle in progress, indicator dots are off and dryer can be restarted by pressing selection key...**

1. Intermittent connection in main door circuit.

**F. Microprocessor controller (computer) L.E.D. display reads “dSFL”...**

1. L.E.D. display consistently reads “dSFL” and will not clear ...
  - a. Microprocessor controller (computer) 1/8-Amp (slo blo) fuse is blown.
  - b. Failed microprocessor controller (computer) temperature sensor.
  - c. Broken wire and/or termination in sensor harness somewhere between the sensor bracket and the microprocessor controller (computer).
  - d. Failed microprocessor controller (computer).
2. L.E.D. display reads “dSFL” for a short period of time (30-seconds or less) and then returns to the normal “FILL” mode...

**NOTE:** Once the microprocessor controller (computer) detects a problem, it updates every 30-seconds so that if a problem was a loose connection in this circuit which corrected itself, the “dSFL” display condition would automatically be cancelled.

- a. Loose wire and/or termination in sensor harness somewhere between the sensor bracket and the microprocessor controller (computer).
- b. Failed microprocessor controller (computer) temperature sensor.

### **G. Microprocessor controller (computer) light emitting diode (L.E.D.) display reads “Hot”...**

The “Hot” display condition indicates a possible overheating condition. The microprocessor controller (computer) monitors the temperature in the dryer at **ALL** times. If the microprocessor detects that the temperature in the dryer has exceeded 220° F (104° C), it will disable **ALL** of the dryer outputs (shut the dryer down), the buzzer (tone) will sound for approximately 5-seconds, and the L.E.D. display will read “Hot.” The L.E.D. display will continue to read “Hot” until the temperature has dropped to 220° F (104° C) or lower and the microprocessor controller (computer) is manually reset by closing and opening the Program Switch (PS).

Possible reasons for overheating ...

1. Restriction in location exhaust duct work ...
  - a. Dryer exhaust damper stuck in closed position.
  - b. Undersized exhaust duct work.
2. Insufficient make-up air.

### **H. Microprocessor controller (computer) L.E.D. display reads “SEFL” ...**

The “SEFL” display condition indicates a rotational sensor circuit failure which means that there is a fault somewhere in the basket (tumbler) rotation detection circuit ... or ... the microprocessor controller (computer) program related to this circuit (PL01) is set incorrectly in the active mode (“SEn”) where the dryer is not equipped with the optional rotation sensor and **should be** set in the nonactive mode (“nSEn”).

If the dryer is equipped with the optional rotational sensor and for whatever reason the microprocessor controller (computer) detects that the basket (tumbler) is not turning, it will disable **ALL** of the dryer outputs (shut the dryer down), and the L.E.D. display will read “SEFL.” The L.E.D. display will continue to read “SEFL” until the microprocessor is manually reset by closing and opening the Program Switch (PS).

Possible causes:

1. Loose/slipping (out of proper adjustment) basket/tumbler and/or idler belt.
2. Broken basket (tumbler) and/or idler belt.
3. Failed motor (refer to **Item B** on **page 36 and page 37**).
4. Failure in the rotational sensor circuit ...
  - a. Failed rotational sensor.
  - b. Loose connection or break between the rotation sensor and the microprocessor controller (computer).

### **I. Microprocessor controller (computer) will not accept any, or only accept certain keyboard (touch pad) entries...**

1. Failed keyboard (touch pad) label assembly.
2. Failed microprocessor controller (computer).

**J. Microprocessor controller (computer) locks up and the light emitting diode (L.E.D.) display reads erroneous message(s) or only partial segments...**

1. Transient power voltage (spikes)...disconnect power to the dryer, wait one (1) minute (**NOTE:** for dryer models with the optional battery backup...disconnect battery), then reestablish power to the dryer. If problem is still evident, proceed to **Item J2 thru Item J4 below.**
2. Failed keyboard (touch pad) label assembly.
3. Improper grounding of the dryer or the microprocessor controller (computer) ground connections to the panel or the dryer are not proper.
4. Failed microprocessor controller (computer).

**K. Dryer stops during a cycle and the microprocessor controller (computer) L.E.D. display returns to “FILL”...**

If the dryer is equipped with optional battery backup ...

1. Refer to **Item J1, Item J3, or Item J4 above.**
  - a. If the dryer is not equipped with optional battery backup ...
    - 1) Loose connection somewhere in the power source to the dryer.
    - 2) Loose connection in main power circuit to the microprocessor controller (computer).
    - 3) Improper grounding of the dryer or the microprocessor controller (computer) ground connections to the panel or the dryer are not proper.
    - 4) Failed microprocessor controller (computer).

**L. Heating unit is not operating (no heat)... basket (tumbler) is turning, microprocessor controller (computer) heat indicator dot is on but “HEAT” output L.E.D. is not...**

1. Failed microprocessor controller (computer).

**M. Gas heating unit is not operating (no heat)... both microprocessor controller (computer) heat indicator dot and “HEAT” indicator are on... but no spark at burner area when the dryer is first started...**

1. Fault in sail switch circuit ...
  - a. Sail switch is out of adjustment or has failed.
  - b. Sail switch damper is not closing or is fluttering ...
    - 1) Lint drawer/screen is dirty or clogged.
    - 2) Restriction in exhaust duct work.
    - 3) No exhaust airflow.

2. Fault in burner hi-limit circuit or tripped manual reset hi-limit thermostat.
3. Fault in basket (tumbler) hi-limit circuit or tripped manual reset hi-limit thermostat.
4. Failed Direct Spark Ignition (DSI) module (burner control).
5. Failed DSI ignitor and/or flame-probe assembly.

**N. No heat... ignitor sparks but there is no flame at burner...**

1. DSI ignitor probe out of adjustment...
  - a. Reposition ignitor assembly closer to the burner ribbon area. Also, check to make sure ribbon in burner is flush **ALL** around the top of the burner tube (ribbon **should not** stick up at any area).
  - b. Check gap between ignitor assembly and top of burner. Gap **must be** set  $1/8'' \pm 1/32''$  ( $3.175 \pm 0.79248$  mm)
2. Failed ignitor flame-probe assembly or problem with wiring connections to the assembly.
3. No gas (check shutoff valves) or insufficient (low water column [W.C.] pressure) gas supply.
4. Failed DSI module.
5. Failed gas valve.

**O. No heat... ignitor sparks, burner goes on and off right away...**

1. DSI flame sensor (probe) out of adjustment...reposition closer to the flame area.
2. Failed DSI flame sensor probe.
3. Sail switch is fluttering ...
  - a. Lint drawer/screen is dirty or clogged.
  - b. Restriction in exhaust duct work.
4. Insufficient make-up air.
5. Failed Direct Spark Ignition (DSI) module.

**P. Dryer operates, but is taking too long to dry...**

1. Exhaust duct work run is too long or is undersized...back pressure **cannot** exceed 0.3 inches Water Column (0.74 mb).
2. Low and/or inconsistent gas pressure.
3. Insufficient make-up air.
4. Poor air/gas mixture at burner...yellow or poor flame pattern...adjust gas burner air adjustment shutters.
5. Lint drawer/screen is not being cleaned out on a regular basis or often enough.

6. Extractors (washers) are not performing properly.
7. Sail switch is fluttering... restriction in exhaust.
8. Failed microprocessor temperature sensor...temperature calibration is inaccurate.
9. Failed microprocessor controller (computer)...temperature calibration is inaccurate.
10. Lint accumulation in location exhaust system.

**Q. Condensation on main door glass...**

1. Too long, undersized, or improperly installed duct work.
2. Exhaust back draft damper is stuck closed or partially closed.
3. Restriction in exhaust duct work.

**R. Dryer is making scraping noise at basket (tumbler) wrapper area...**

1. Check for object(s) caught in the basket (tumbler) wrapper area.
2. Basket (tumbler) is out of proper alignment ...
  - a. Check both the vertical alignment and lateral alignment.
  - b. Check gap between the front panel and the basket (tumbler) front...set screws may have come loose and basket (tumbler) walked forwards or backwards.
3. Loose or broken basket (tumbler) tie rod.
4. Broken basket (tumbler) support.

**S. Excessive noise and/or vibration...**

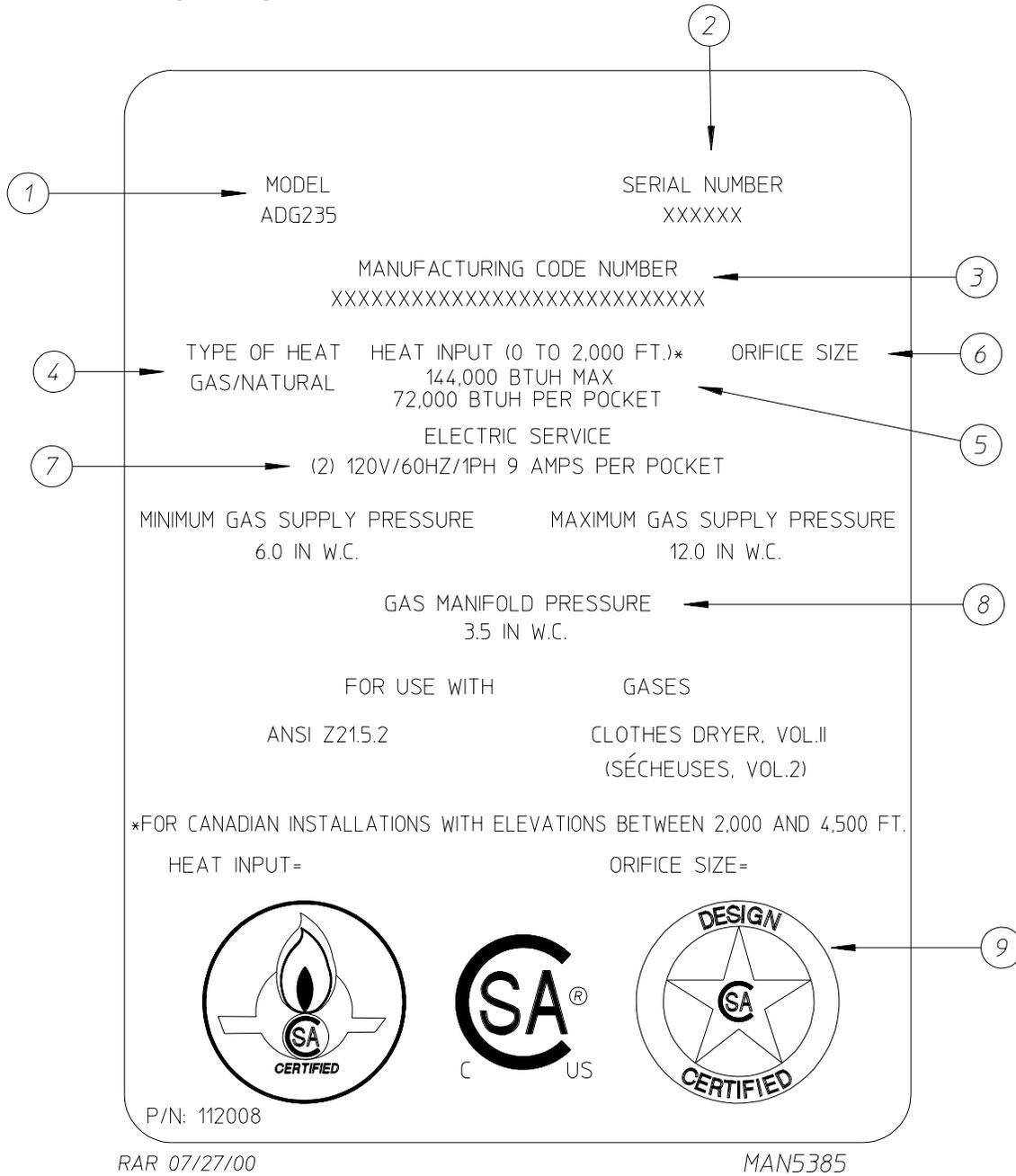
1. Dryer is not leveled properly.
2. Impellor (fan) out of balance or broken.
3. Loose basket (tumbler) tie rod.
4. Basket (tumbler) is out of adjustment or adjustment bolts (hardware) loose.
5. Loose motor or motor mount assembly.

# SECTION IX

## DATA LABEL LOCATION/INFORMATION

### A. DATA LABEL

Contact American Dryer Corporation



When contacting **American Dryer Corporation**, certain information is required to insure proper service/parts information from **ADC**. This information is on the data label that is located in the left inside front side panel (as shown in the **illustration above**). When contacting **ADC** please have the **model number** as well as the **serial number** readily available.

## **THE DATA LABEL**

### **1. MODEL NUMBER**

The model number is an **ADC** number which describes the size of the dryer and the type of heat (gas, electric, or steam).

### **2. SERIAL NUMBER**

The serial number allows **ADC** to gather information on your particular dryer.

### **3. MANUFACTURING CODE NUMBER**

The manufacturing code number is a number issued by **ADC** which describes **ALL** possible options on your particular model.

### **4. TYPE OF HEAT**

This describes the type heat for your particular dryer; gas (either natural gas or liquid propane [L.P.]) or steam.

### **5. HEAT INPUT (for GAS DRYERS)**

This describes the heat input in British Thermal Units per Hour (BTUH).

### **6. ORIFICE SIZE (for GAS DRYERS)**

Gives the number drill size used.

### **7. ELECTRIC SERVICE**

This describes the electric service for your particular model.

### **8. GAS MANIFOLD PRESSURE (for GAS DRYERS)**

This describes the manifold pressure taken at the gas valve tap.

### **9. APPLICABLE APPROVAL SEAL(S)**

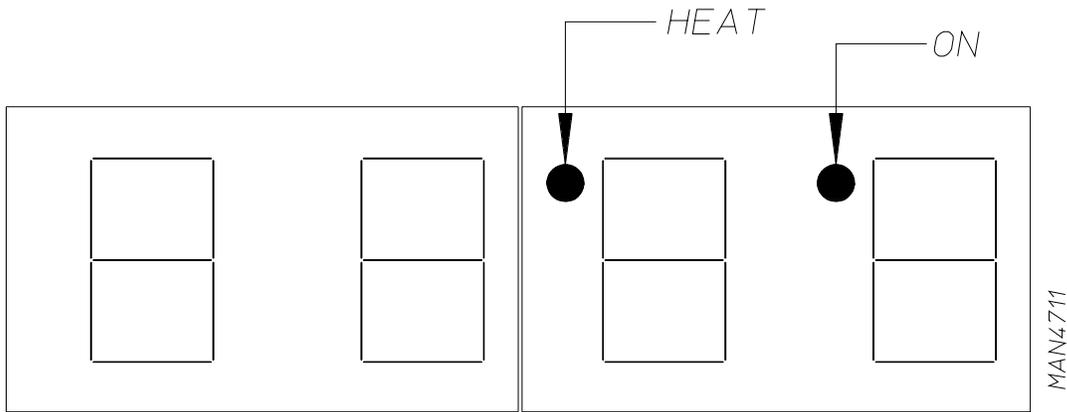
I.e., Canadian Standards Association International.

# SECTION X

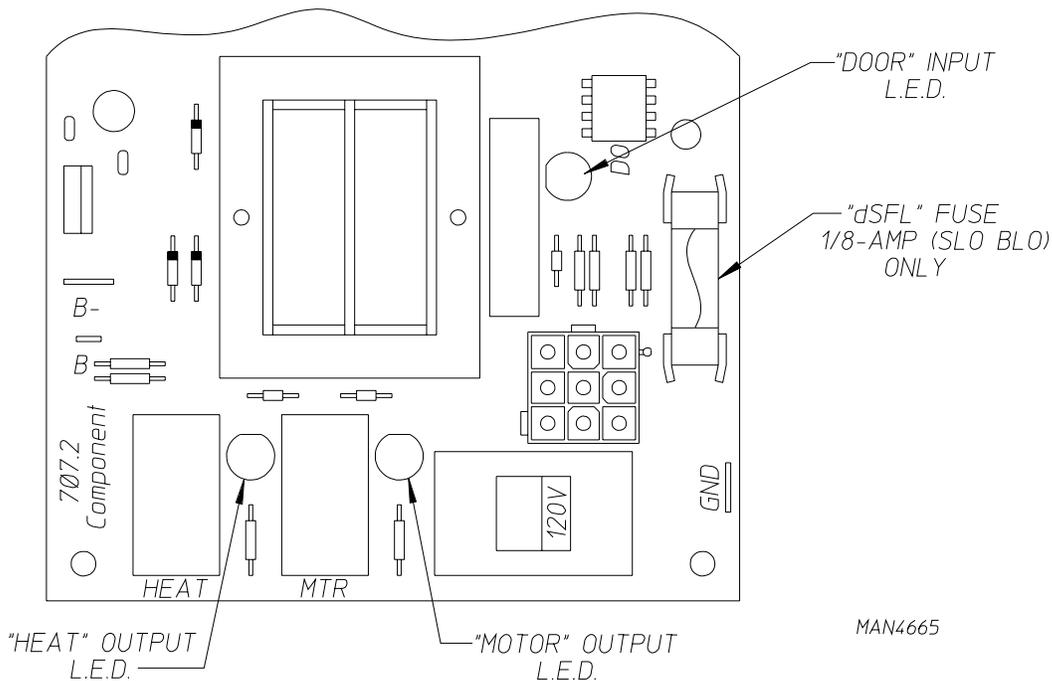
## PROCEDURE FOR FUNCTIONAL CHECK OF REPLACEMENT COMPONENTS

1. Microprocessor Controller (computer) Board

- a. Upon completing installation of the replacement microprocessor controller (computer) board, reestablish power to the dryer.
- b. Start the drying cycle.
- c. Verify that the motors and the heat indicator dots, in the microprocessor controller (computer) light emitting diode (L.E.D.) display are on. (Refer to the **illustration below.**)



- d. Verify that motor's heat and door indicator lights on the back side of the microprocessor controller (computer) board are lit. (Refer to **illustration below.**)



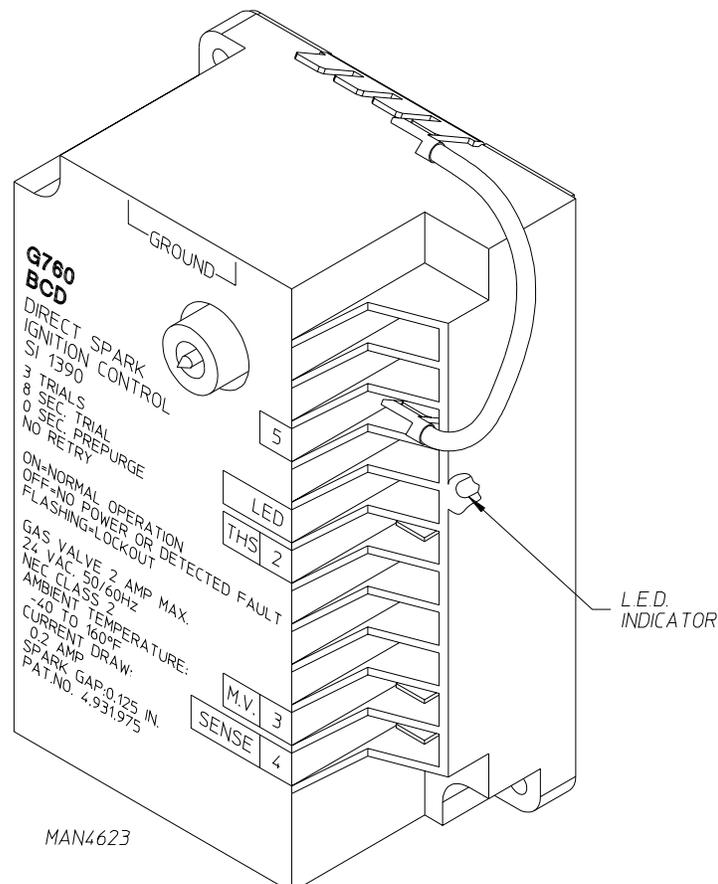
- e. Open main door. The dryer **must stop** and **ALL** indicator lights on the back side of the microprocessor controller (computer) board **must go out**.
  - f. Try to restart the dryer with the main door open.
  - g. The microprocessor controller (computer) board's light emitting diode (L.E.D.) display **must read "DOOR."**
  - h. Close the main door and restart the dryer.
  - i. Functional check of microprocessor controller (computer) board is complete.
2. For Models With Johnson Controls Direct Spark Ignition (DSI) Module (G760)

Theory Of Operation:

Start the drying cycle. When the gas burner ignites within the chosen trial for ignition time (6-seconds), the flame sensor detects gas burner flame and signals the DSI module to keep the gas valve open...as long as there is a call for heat. The DSI module will "LOCKOUT" if the gas burner flame is not sensed at the end of the trial for ignition period. The trial for ignition period will be repeated for a total of three (3) retries/trials (the initial try and two [2] more retries/trials). If the flame is not sensed at the end of the third retry/trial (inter-purge period of 30-seconds) the DSI module will "LOCKOUT" (L.E.D. flashes).

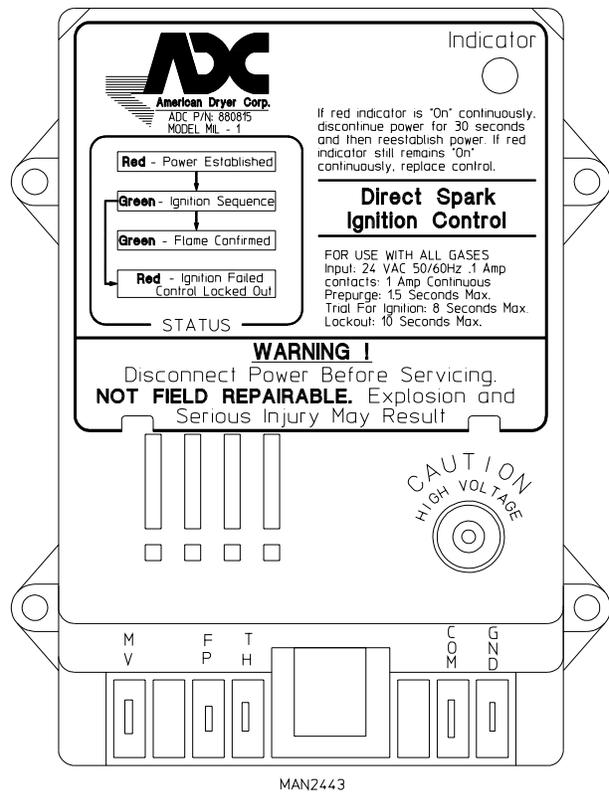
A steady L.E.D. indicator indicates *normal operation*.

No L.E.D. indicator indicates a power or an internal failure has occurred.



3. For Direct Spark Ignition (DSI) System Models Manufactured With ADC Module Part No. 880815

- a. Upon completing installation of the replacement DSI module, reestablish power to the dryer.
- b. Start the drying cycle.
- c. The ignition DSI module's light emitting diode (L.E.D.) indicator will light "red" for up to approximately 1.5-seconds (prepurge time).
- d. 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.
- e. With the burner flame on, remove the flame sensor wire from the FS terminal of the DSI module.
- f. The burner flame **must shut off** and the ignition module **must lockout** with the DSI module's indicator light "red."
- g. Stop the drying cycle, with the flame sensor wire still removed, restart the drying cycle.
- h. 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."
- i. Functional check of the DSI module is complete.
  - 1) Replace the flame sensor wire from the FS terminal to the DSI module.



# **SECTION XI**

## **BURNER/TUMBLER HI-LIMIT MANUAL**

### **RESET INSTRUCTIONS**

Both the top and bottom tumbler of this dryer is equipped/manufactured with a burner manual reset hi-limit and manual reset tumbler/lint chamber hi-limit thermostat. If either manual reset hi-limit thermostat is open prior to the start of the drying cycle, or during the drying cycle, the dryer will not recognize the open (tripped) state of the applicable basket/tumbler hi-limit thermostat and will start or continue through the drying cycle with no heat. The applicable open/tripped manual reset hi-limit **must be** reset manually. This hi-temperature condition may be caused due to a restricted exhaust, poor airflow, or improper burner operation. The burner manual reset hi-limit is located at the gas/valve manifold left burner chamber area. The tumbler manual reset hi-limit is located in the (right) lint chamber area.

### **IMPORTANT**

This dryer is equipped with a burner hi-limit and tumbler/lint chamber hi-limit thermostat which must be reset manually.

**WARNING:** Discontinue power to dryer before attempting to reset hi-limit.

ADC P/N:114093

ADC 113118 1- 11/11/99-50 2- 11/29/99-200 3- 01/03/00-500  
4- 08/04/00-500 5\* 09/11/00-25

