

**INDUSTRIAL DRYER
MODEL T-30, T-50, T-80 ON-PREMISE
B-SERIES CONTROL, ELECTRIC-HEATED**



DEXTER[®]
LAUNDRY

**OPERATOR'S MANUAL
INSTALLATION & OPERATION INSTRUCTIONS**

The dryer must not be stored or installed where it will be exposed to water and/or weather and is suitable for use in room temperatures between 40F and 105F (5C and 45C.)

Post the following "For Your Safety" caution 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 or machine.

It is important that you read this Manual and retain it for future reference. For service or replacement parts, contact the Dexter Distributor in your area or the manufacturer.

 **WARNING / Avertissement**

WARNING - Risk of Fire / Avertissement: Risque d'incendie

Clothes dryer installation must be performed by a qualified installer. / L'installation de la sècheuse doit être effectuée par un spécialiste qualifié.

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

Do not install a clothes dryer with flexible plastic venting materials. If flexible metal (foil type) duct is installed, use duct that has been investigated and found acceptable for use with clothes dryers. Flexible venting materials are known to collapse, be easily crushed, and trap lint. These conditions will obstruct clothes dryer airflow and increase the risk of fire. / Ne pas installer une sècheuse avec des matériaux de ventilation en plastique. Dans le cas où un conduit en métal flexible (du genre à feuille) est installé, il doit être d'un type spécifique identifié par le fabricant de l'appareil comme acceptable pour les sècheuses. Les matériaux de ventilation flexibles sont réputés pour s'aplatir, se déformer facilement et collecter de la peluche. Ces conditions vont obstruer l'écoulement d'air de la sècheuse et augmenter le risque d'incendie.

To reduce the risk of severe injury or death, follow all installation instructions. / Pour réduire le risque de blessures graves ou mortelles, suivre toutes les instructions d'installation.

Save these instructions. / Garder les instructions.

Dexter Laundry, Inc.
2211 West Grimes Avenue
Fairfield, Iowa 52556, USA

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WARNINGS ABOUT USE AND OPERATION

KEEP SHIELDS, GUARDS, AND COVERS IN PLACE. These safety devices are provided to protect everyone from injury.

THIS DRYER IS EQUIPPED WITH A MANUALLY RESETTABLE OVER-TEMPERATURE THERMOSTAT located to the right of the motor on the rear of the cabinet. If the dryer ceases to operate, refer to your "Service Procedure and Parts Data" book for instructions.

CHECK THE THERMOSTAT WHEN INSTALLING THE DRYER to assure it is not tripped. Impacts, such as rough handling in shipment, may trip the thermostat.

SPECIFICATIONS

30 lb. Industrial Dryer: T-30

DN0030EC-(71/74/77/78)EB1X

Cabinet Height	72 1/4"	1835 mm.
(Assumes minimum leveling leg adjustment)		
Cabinet Width	31 1/2"	800 mm.
Overall Depth	43 3/4"	1111 mm.
Floor to Bottom of Door	28 3/4"	730 mm.
Door Opening	22 5/8"	575 mm.
Dry Wt. Capacity	30 lbs.	13.6 kg.
Cylinder Diameter	30"	762 mm.
Cylinder Depth	27 1/2"	699 mm.
Cylinder Volume	11.25 cu. ft.	319 liters
Lint Screen Area	515 sq. in.	3323 sq. cm.
Exhaust Size	8"	203 mm.
Make-up Air	1.0 sq. ft.	929 sq. cm.
Example: 1.0 sq. ft = 1 ft. long X 1 ft. wide		
Motor Size	1/2 H.P.	.373 kW
Airflow	830 CFM	23.5 m ³ /min

Electrical Specifications – Model -71

Voltage/Hz/Phase	208V/60Hz/3Phase/24kW Heat
Running Amps	85
Minimum Dual Element Time Delay Fuse	90 Amp
Wire Size	#2
Electrical Service	4 wire + ground

Electrical Specifications – Model -74

Voltage/Hz/Phase	240V/60Hz/3Phase/24kW Heat
Running Amps	75
Minimum Dual Element Time Delay Fuse	80 Amp
Wire Size	#3
Electrical Service	4 wire + ground

Electrical Specifications – Model -77

Voltage/Hz/Phase	120&208V/60Hz/1Phase/20kW Heat
Running Amps	120
Minimum Dual Element Time Delay Fuse	125 Amp
Wire Size	(1/0)
Electrical Service	3 wire + ground

Electrical Specifications – Model -78

Voltage/Hz/Phase	120&240V/60Hz/1Phase/20kW Heat
Running Amps	105
Minimum Dual Element Time Delay Fuse	110 Amp
Wire Size	(1/0)
Electrical Service	3 wire + ground

Shipping Weight	507 lbs.	231 kg.
Net Weight	463 lbs.	210 kg.
Clearance Behind Machines (min.)	18"	457 mm.

**50 lb. Industrial Dryer: T-50
DN0050EC-(71/72/74/75)EB1X**

Cabinet Height	72 1/4"	1835 mm.
	(Assumes minimum leveling leg adjustment)	
Cabinet Width	34 1/2"	875 mm.
Overall Depth	50"	1270 mm.
Floor to Bottom of Door	27 1/4"	692 mm.
Door Opening	25 5/8"	653 mm.
Dry Wt. Capacity	50 lbs.	24.9 kg.
Cylinder Diameter	32.5"	826 mm.
Cylinder Depth	33"	845 mm.
Cylinder Volume	15.84 cu. ft.	449.5 liters
Lint Screen Area	708 sq. in.	4568 sq. cm.
Exhaust Size	8"	203 mm.
Make-up Air	1.25 sq. ft.	1161 sq. cm.
	Example: 1.25 sq. ft = 1.25 ft. long X 1 ft. wide	
Motor Size	1 H.P.	.746 kW
Airflow	910 CFM	25.8 m ³ /min

Electrical Specifications – Model -71

Voltage/Hz/Phase	208V/60Hz/3Phase/24kW Heat
Running Amps	85
Minimum Dual Element Time Delay Fuse	90 Amp
Wire Size	#2
Electrical Service	4 wire + ground

Electrical Specifications – Model -72

Voltage/Hz/Phase	208V/60Hz/3Phase/30kW Heat
Running Amps	100
Minimum Dual Element Time Delay Fuse	100 Amp
Wire Size	#1
Electrical Service	4 wire + ground

Electrical Specifications – Model -74

Voltage/Hz/Phase	240V/60Hz/3Phase/24kW Heat
Running Amps	75
Minimum Dual Element Time Delay Fuse	80 Amp
Wire Size	#3
Electrical Service	4 wire + ground

Electrical Specifications – Model -75

Voltage/Hz/Phase	240V/60Hz/3Phase/30kW Heat
Running Amps	90
Minimum Dual Element Time Delay Fuse	90 Amp
Wire Size	#2
Electrical Service	4 wire + ground

Shipping Weight	611 lbs.	277 kg.
Net Weight	579 lbs.	263 kg.
Clearance Behind Machines (min.)	18"	457 mm.

**80 lb. Industrial Dryer: T-80
DNO080EC-(72/73/75/76)EB1X**

Cabinet Height	75 3/4"	1924 mm.
(Assumes minimum leveling leg adjustment)		
Cabinet Width	38 1/2"	978 mm.
Overall Depth	53 3/4"	1365 mm.
Floor to Bottom of Door	29 1/4"	743 mm.
Door Opening	25 5/8"	653 mm.
Dry Wt. Capacity	80 lbs.	36.3 kg.
Cylinder Diameter	36.5"	927 mm.
Cylinder Depth	38"	965 mm.
Cylinder Volume	23.0 cu. ft.	651.3 liters
Lint Screen Area	823 sq. in.	5310 sq. cm.
Exhaust Size	8"	203 mm.
Make-up Air	1.5 sq. ft.	1394 sq. cm.
Example: 1.5 sq. ft = 1.5 ft. long X 1 ft. wide		
Motor Size	1 H.P.	.746 kW
Airflow	1200 CFM	34.0 m ³ /min

Electrical Specifications – Model -72

Voltage/Hz/Phase	208V/60Hz/3Phase/30kW Heat
Running Amps	100
Minimum Dual Element Time Delay Fuse	100 Amp
Wire Size	#1
Electrical Service	4 wire + ground

Electrical Specifications – Model -73

Voltage/Hz/Phase	208V/60Hz/3Phase/34.6kW Heat
Running Amps	120
Minimum Dual Element Time Delay Fuse	125 Amp
Wire Size	(1/0)
Electrical Service	4 wire + ground

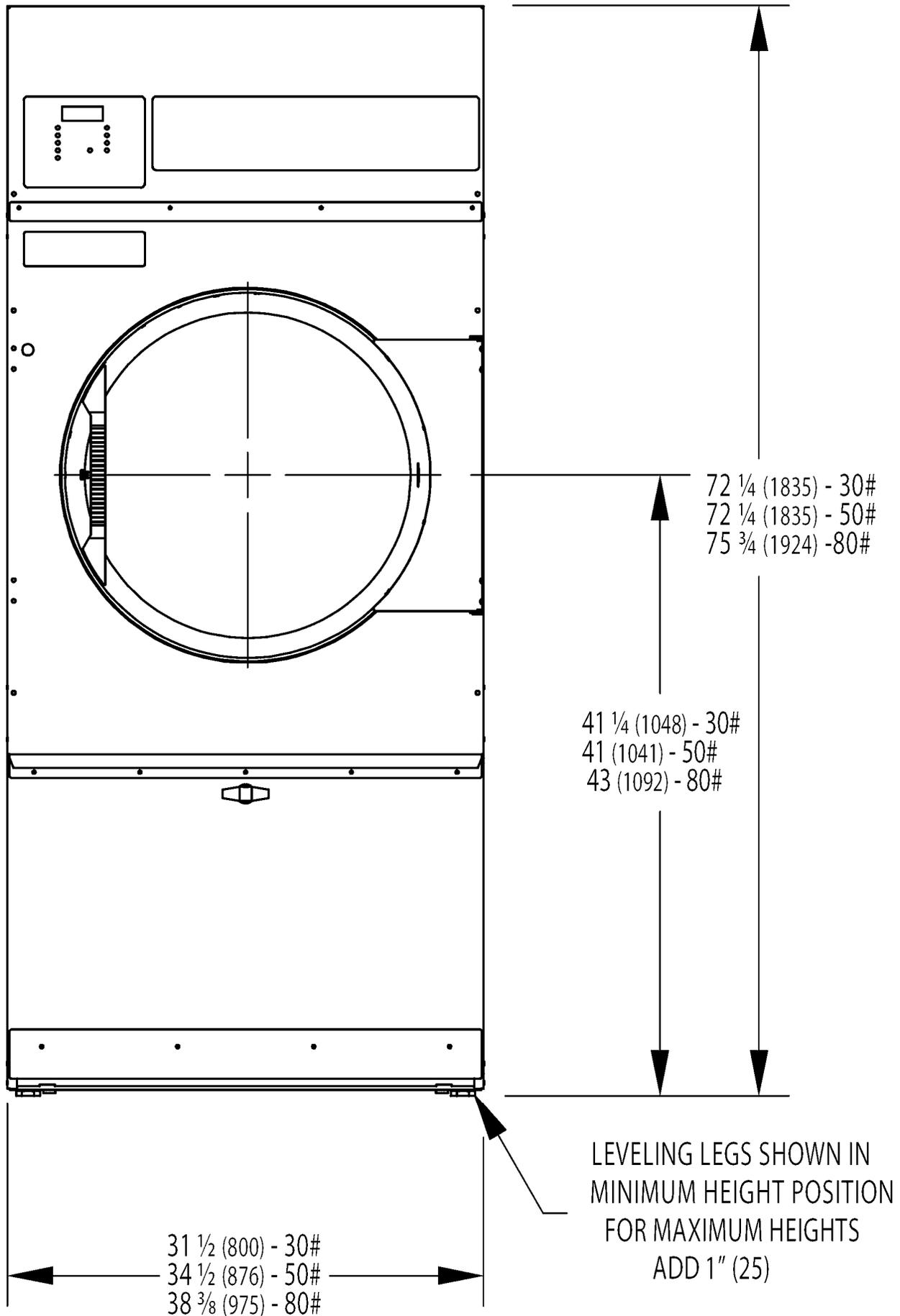
Electrical Specifications – Model -75

Voltage/Hz/Phase	240V/60Hz/3Phase/30kW Heat
Running Amps	90
Minimum Dual Element Time Delay Fuse	90 Amp
Wire Size	#2
Electrical Service	4 wire + ground

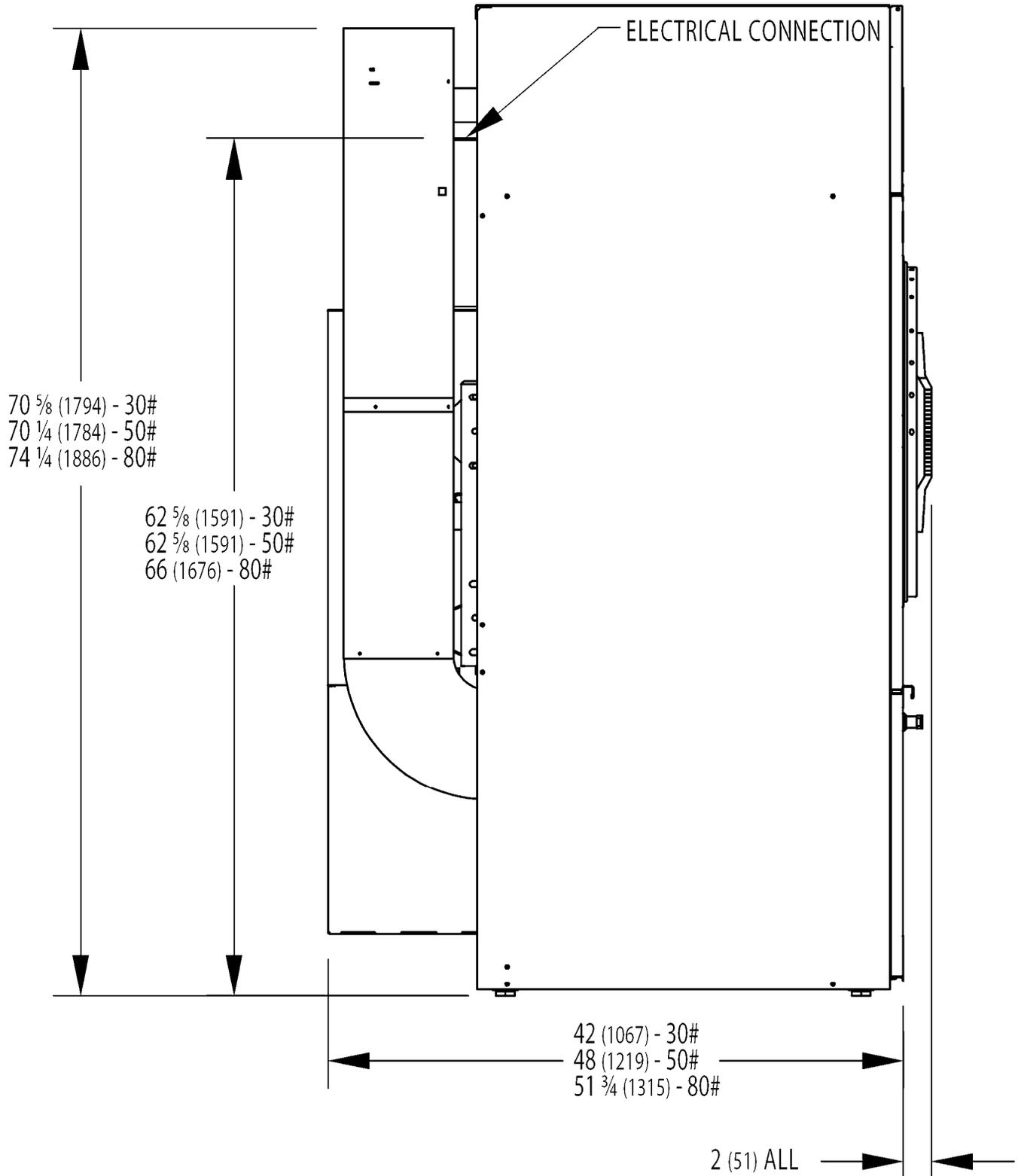
Electrical Specifications – Model -76

Voltage/Hz/Phase	240V/60Hz/3Phase/36kW Heat
Running Amps	105
Minimum Dual Element Time Delay Fuse	110 Amp
Wire Size	#1
Electrical Service	4 wire + ground

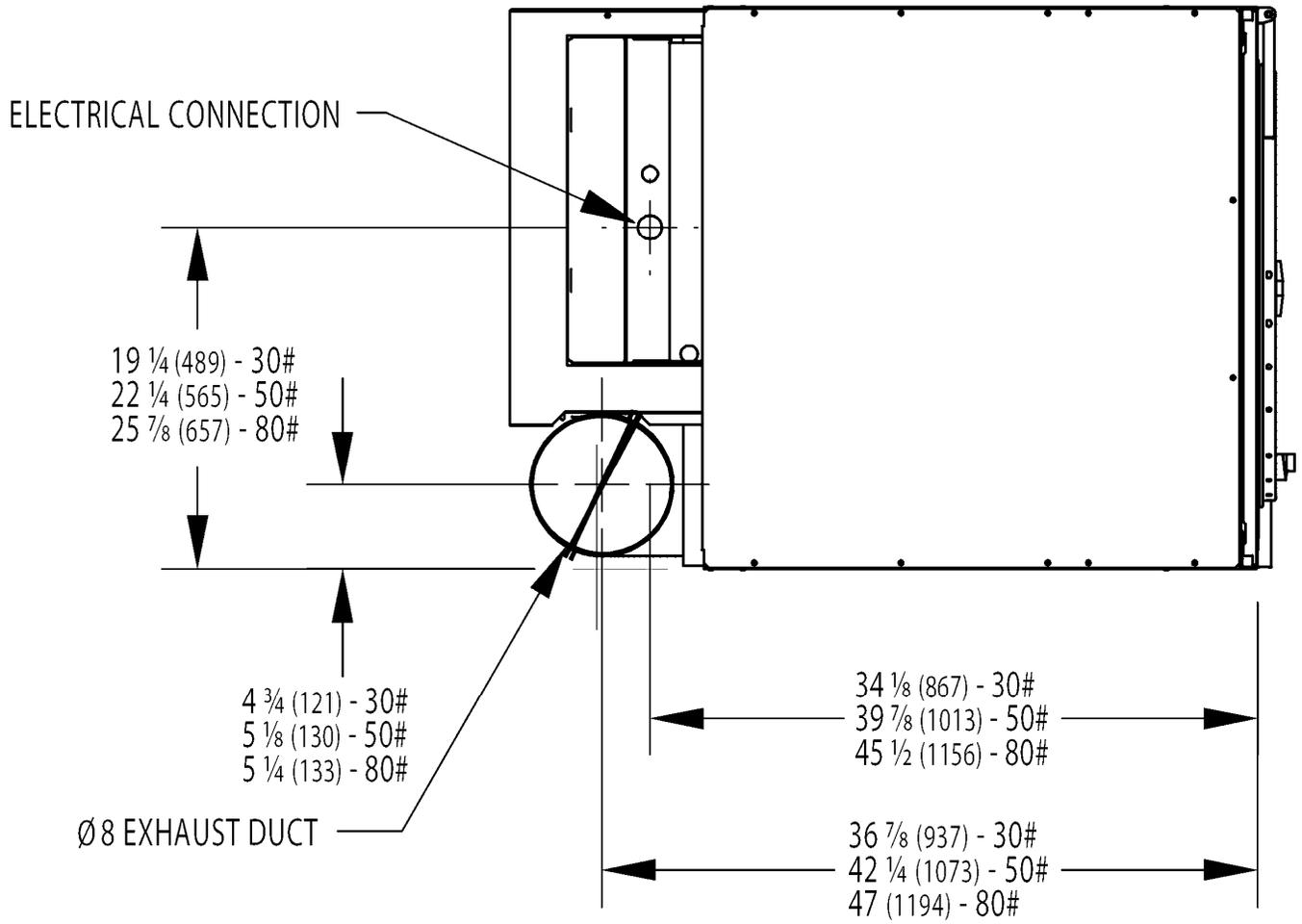
Shipping Weight	729 lbs.	331.2 kg.
Net Weight	699 lbs.	291.2 kg.
Clearance Behind Machines (min.)	18"	457 mm.



DRYER DIMENSIONS- FIGURE 1A



DRYER DIMENSIONS- FIGURE 1B



DRYER DIMENSIONS- FIGURE 1C

INSTALLATION AND OPERATING INSTRUCTIONS

UNCRATING

Tools Required: 3/4" (19 mm) hex socket and ratchet driver, knife, and channel-lock wrench that opens to 1 3/8" (35 mm).

1. Remove the plastic wrap with knife. Remove cardboard rails, fillers, and top cap.
2. Using a ratchet and a 3/4" (19 mm) socket, remove the (4) bolts attaching the wooden skid to the dryer cabinet. Save the bolts for future moving of the dryer.
3. With a walking motion, move the dryer forward completely off the wooden skid. Save the skid for future moving of the dryer.
4. Using the channel-lock wrench, adjust the leveling legs to align the machine with adjacent units.

Note: If the dryer is ever moved again, the dryer should be re-mounted on its pallet and its crating bolts re-inserted and tightened, in the reverse order as above.

DRYER INSTALLATION

1. CODE CONFORMITY: All commercial dryer installations must conform to the local and national codes for the location of installation.

2. INSTALLATION CLEARANCES: This unit may be installed at the following alcove clearance.

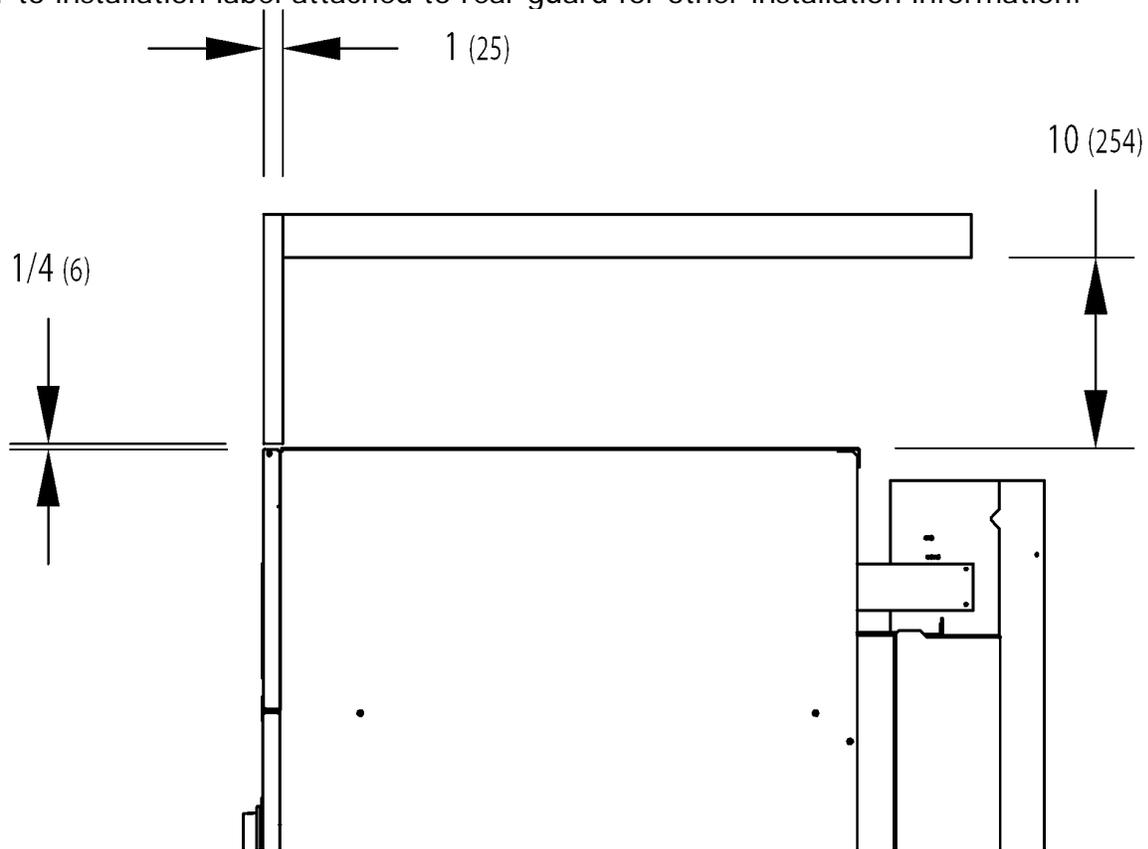
- | | |
|----------------|---|
| I. Left Side | 0" |
| II. Right Side | 0" * |
| III. Back | 18" (457 mm) (Certified for 1" (25 mm) clearance; however, 18" (457 mm) clearance is necessary behind the belt guard to allow servicing and maintenance.) |
| IV. Front | 48" * (1220 mm) (to allow use of dryer) |
| V. Top | Refer to figure labeled on the next page "Vertical Clearance Dimensions".

Certification allows 0" clearance at the top 1" (25 mm) back from the front. However, a 1/4" (6 mm) clearance is required to allow opening the upper service door.

A 10" (254 mm) clearance is required from the top at all other points. |
| VI. Floor | This unit may be installed upon a combustible floor. |

*Units may be installed in direct contact with an adjacent dryer, providing allowance is made for opening upper and lower service doors.

Refer to installation label attached to rear guard for other installation information.



VERTICAL CLEARANCE DIMENSIONS – ALL T-30/50/80

3. MAKE-UP AIR. Adequate make-up air must be supplied to replace air exhausted by dryers on all types of installations. Refer to specifications for the minimum amount of make-up air opening to outside for each dryer. This is a net requirement of effective area. Screens, grills or louvers, which will restrict the flow of air, must be considered. Consult the supplier to determine the free area equivalent for the grill being used.

The source of make-up air should be located sufficiently away from the dryers to allow an even airflow to the air intakes of all dryers. Multiple openings should be provided.

4. ELECTRICAL REQUIREMENTS:

The electrical installation must be performed by a qualified electrical technician.

The electrical power requirements necessary to operate the unit satisfactorily are listed on the serial plate located on the back panel of each dryer. The electrical connection should be made at the terminal blocks in the control box on the rear of the unit using conductors rated at 75 C (167 F) and a wire size adequate to handle the amperage and voltage listed on the serial plate (see table below for recommended minimum sizes). It is absolutely necessary that the dryer be grounded to a known (earth) ground (No. 8 AWG copper conductor recommended). Knockouts are provided for the connection of 1-inch conduit for the power supply conductors and 3/8-inch conduit for the external grounding conductor. The earth connection resistance should be checked prior to operation.

HEATING ELEMENT SIZE (kW)	SUPPLY VOLTAGE (PHASE / V.)	MINIMUM DUAL ELEMENT TIME DELAY FUSE SIZE AT FUSED DISCONNECT (A.)	MINIMUM WIRE SIZE FROM FUSED DISCONNECT TO DRYER TERMINAL BLOCK (75°C COPPER WIRE)
20	1 / 208	125	1 / 0
20	1 / 240	110	1 / 0
24	3 / 208	90	#2
24	3 / 240	80	#3
30	3 / 208	100	#1
30	3 / 240	90	# 2
34.6	3 / 208	125	1 / 0
36	3 / 240	110	# 1

For 240V power supplies, an earthed mid-point of a phase is required. The “high” leg of the 3-phase electrical supply (delta) must be connected to terminal L3. A neutral is required for all electrical supply variations; see the wiring diagram affixed to the belt guard on the back of the dryer.

The installation must meet the electrical requirements of the country, state and locality of the installation. The installer may be required to provide a disconnect switch which will interrupt all lines. It may be a local or national requirement to provide an electrical interruption switch visible and accessible from the room in which the dryer is installed. The wiring diagram is located on the belt guard on the back of the dryer.

IMPORTANT: TRANSIENT VOLTAGE SURGE SUPPRESSORS

Like most electrical equipment your new machine can be damaged or have its life shortened by voltage surges due to lightning strikes which are not covered by factory warranty. Local power distribution problems also can be detrimental to the life of electrical components. We recommend the installation of transient voltage surge suppressors for your new equipment. These devices may be placed at the power supply panel for the complete installation and don't require an individual device for each machine.

These surge protectors help to protect equipment from large spikes and also from small ongoing spikes in the power that occur on a day to day basis. These smaller surges can shorten overall life of electrical components of all types and cause their failure at a later date. Although they can't protect against all events, these protective devices have a good reputation for significantly lengthening the useful life of electronic components. Electronic components are helped to have a longer useful life when they are supplied with the clean stable electrical power they like.

We are including the following names and phone numbers of a few suppliers of these devices for those who don't currently have a source.

<u>MANUFACTURER</u>	<u>CONTACT</u>	<u>PHONE</u>
Innovative Technology, Inc (Eaton)	Factory	1-800-647-8877 or www.itvss.com
EFI Electronics Corporation (Schneider Electric)	Factory Distributor – Surge Pro	1-800-877-1174 or www.efinet.com 1-877-233-0153
MCG Surge Protection	Factory	1-800-851-1508 or www.mcgsurge.com
Advanced Protection Technologies Inc.	Factory	1-800-237-4567 or www.aptsurge.com

6. EXHAUST INSTALLATION. (Refer to Figure 2 at the end of section 6.) Exhausting of the dryer(s) should be planned and constructed so that no air restrictions occur. Any restriction due to pipe size or type of installation can cause slow drying time, excessive heat, and lint in the room.

From an operational standpoint, incorrect or inadequate exhausting can cause a cycling of the high limit thermostat, which shuts off the main heaters and results in inefficient drying.

Individual exhausting of the dryers is recommended. All heat, moisture, and lint should be exhausted outside by attaching a pipe of the proper diameter to the dryer adapter collar and extending it out through an outside wall. This pipe must be very smooth on the inside, as rough surfaces tend to collect lint, which will eventually clog the duct and prevent the dryer from exhausting properly. All elbows must be smooth on the inside. All joints must be made so the exhaust end of one pipe is inside the next one downstream. Do not assemble pipe or elbows with screws or other fastening means that will extend in to the pipe or elbows and catch lint. The addition of an exhaust pipe tends to reduce the amount of air the blower can exhaust. This does not affect the dryer operation if held within practical limits. For the most efficient operation, it is recommended that no more than 20' (6 m) of straight 8" (204 mm) diameter pipe is used with two right angle elbows. When more than two elbows are used, 2' (610 mm) of straight pipe should be removed for each additional elbow. No more than four right angle elbows should be used to exhaust a dryer.

If the exhaust pipe passes through a wall, a metal sleeve of slightly larger diameter should be set in the wall and the exhaust pipe passed through this sleeve. This practice is required by some local codes and is recommended in all cases to protect the wall. This type of installation should have a means provided to prevent rain and high winds from entering the exhaust when the dryer is not in use. A hood with a hinged damper can be used for this purpose. Another method would be to point the outlet end of the pipe downward to prevent entrance of wind and rain. In either case, the outlet should be kept clear, by at least 24" (610 mm), of any objects, which would cause air restriction.

Provide a screen or grill over the termination of the exhaust or flue outlet such as will prevent the entry of a ball of 5/8" (16 mm) in diameter while the machine is not operating but will allow entry of a ball 1/4" (6 mm) in diameter while operating.

When exhausting a dryer straight up through a roof, the overall length of the duct has the same limits as exhausting through a wall. A rain cap must be placed on top of the exhaust and must be of such a type as to be free from clogging. The type using a cone shaped "roof" over the pipe is suitable for this application.

Exhausting the dryer into a chimney, a wall, a ceiling, an attic, a crawl space, or a concealed space of a building is not permitted. In any case, there is a danger of lint buildup, which can be highly combustible.

Only rigid or flexible metal duct shall be used for exhausting. When assembling ducts, do not use screws or other fasteners that extend into the duct and catch lint.

Installation of several dryers, where a main discharge duct is necessary, will need the following considerations for installation (see Figure 2). Individual ducts from the dryers into the main discharge duct should be at a 45-degree angle in the direction of discharge airflow.

NOTE: Never install the individual ducts at a right angle into the main discharge duct. The individual ducts from the dryers can enter at the sides or bottom of the main discharge duct. Figure 2 indicates the various round main duct diameters to use with the individual dryer ducts. The main duct can be rectangular or round, provided adequate airflow is maintained. For each individual dryer, the total exhausting (main discharge duct plus duct outlet from the dryer) should not exceed the equivalent of 20' (6 m) and two elbows. The diameter of the main discharge duct, at the last dryer, must be maintained to exhaust end.

NOTE: A small diameter duct will restrict airflow; a large diameter duct will reduce air velocity - both contributing to lint build up. An inspection door should be provided for periodic clean out of the main duct.

Caution - A clothes dryer produces combustible lint and should be exhausted outdoors. The area around the clothes dryer should be kept free of lint.

NOTE: STATIC BACK PRESSURE should be a maximum of 0.3 at the rear exhaust outlet of the dryer. If multiple dryers are connected to the common duct, ensure the back draft damper is installed properly.

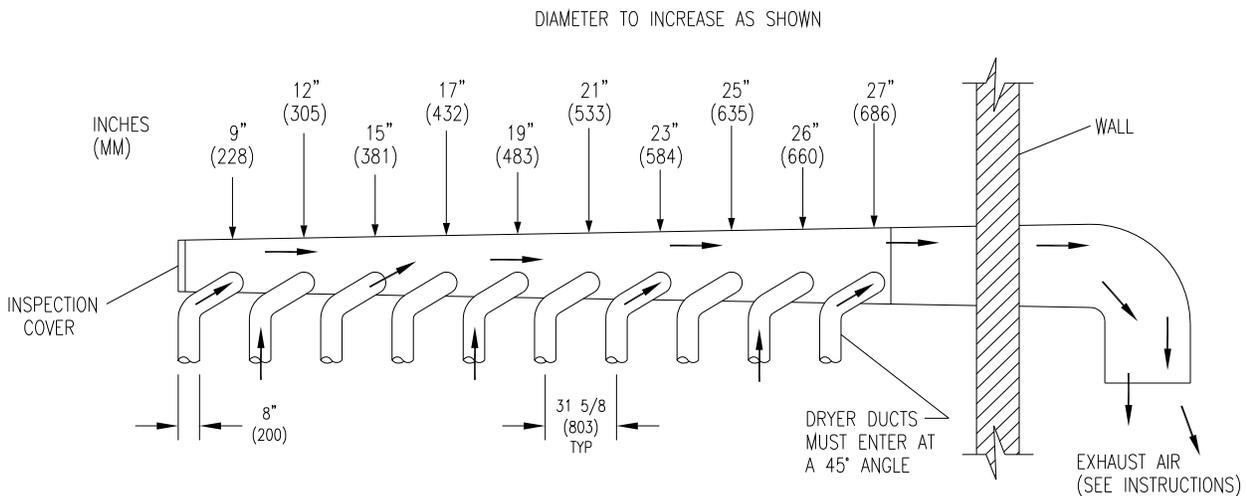


FIGURE 2- Dryer Exhausting Using A Main Discharge Duct.

DRYER SHUTDOWN

To render the dryer inoperative, disconnect electrical supply to the dryer.

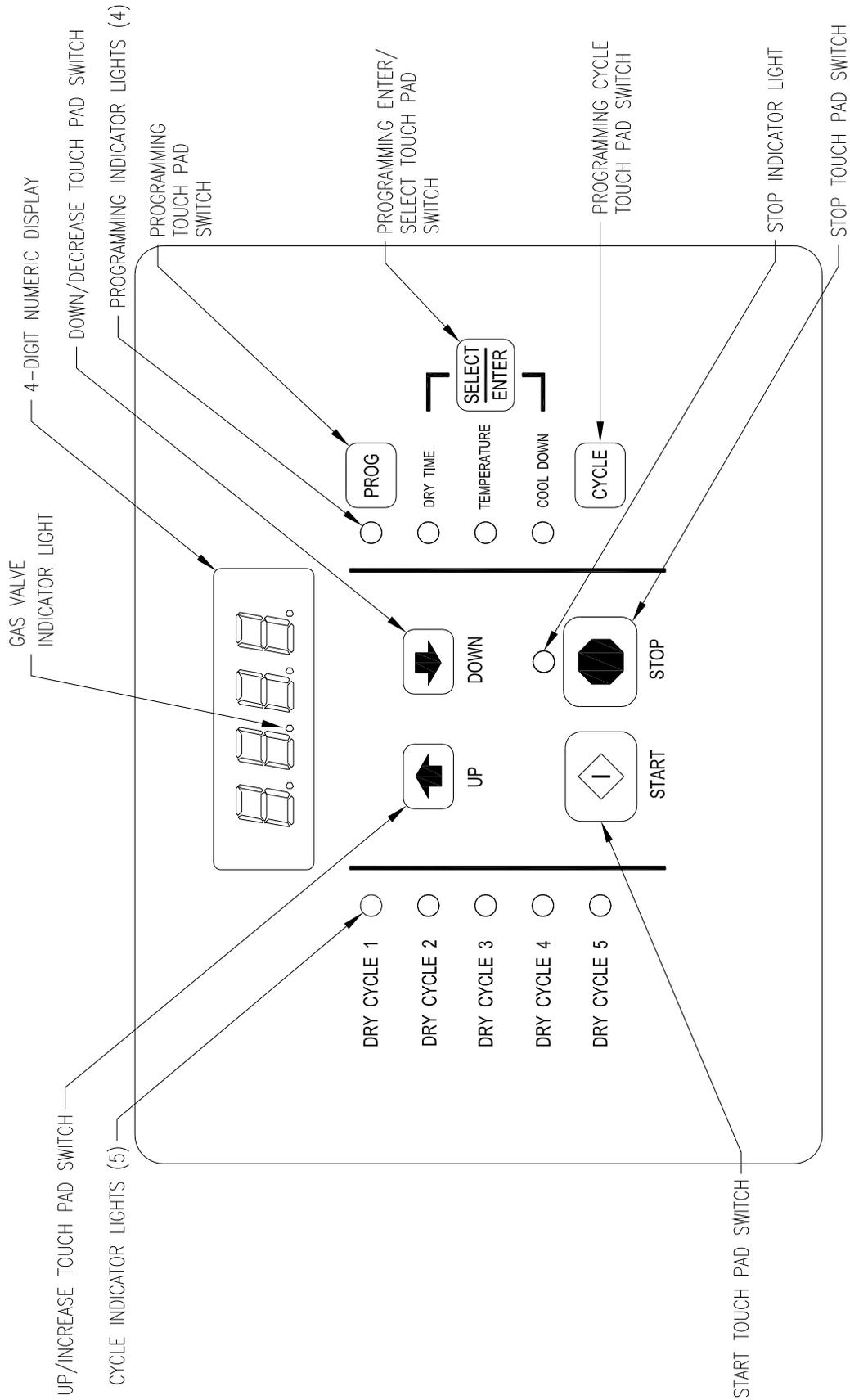


Figure 3 – Non-Reversing Dryer Controller Interface.

DRYER CONTROLLER FACTORY DEFAULT PROGRAM SETTINGS

DRY CYCLE	COOL DOWN TIME (MINUTES)	TOTAL CYCLE TIME (MINUTES)	DRYING TEMPERATURE		DRYER LOAD
			(°F)	(°C)	
1	5	35	180	82	Towels, pads, heavy cotton
2	2	20	170	77	Sheets, blended materials
3	5	25	180	82	Cotton
4	2	20	130	54	Synthetic materials
5	2	25	175	79	Blended materials

DRYER FAULT CODES

FAULT#	FAULT DESCRIPTION	ACTION
F1	Shorted thermostat sensor.	Dryer stops and "F1" flashes on the 4-digit display. When short circuit on sensor input is removed, "LOAD" appears on the 4-digit display and the remaining dry time is reset.
F2	Open thermostat sensor.	Dryer stops and "F2" flashes on the 4-digit display. When a good sensor is connected to sensor input, "LOAD" appears on the 4-digit display and the remaining dry time is reset.
F3	EEPROM corrupted.	Dryer will not start and "F3" appears on the 4-digit display. The power to the dryer must be cycled to reset the controller. Fault should only occur when starting a dry cycle.
F4	Heating element on fault.	The drying temperature did not increase 1°F in 5 minutes. "F4" will flash on the display and the dry cycle will finish without calling for heat (energizing element contactor). Opening the door or pressing the STOP key will reset the fault and clear the remaining time in the dry cycle.
F5	Temperature fault.	The drying temperature is at least 25°F above the temperature setting. "F5" will flash on the 4-digit display and the dry cycle will finish without calling for heat (energizing element contactor). The power to the dryer must be cycled to reset the controller.

TOUCH PAD DESCRIPTION

INDICATOR LIGHTS (LEDs)

Description

Cycle (1 through 5) These LEDs are on solid when a particular cycle is chosen for operation or programming.

Heating Elements This LED is part of the 4-digit numeric display and will be on solid during the drying part of a cycle when the heating elements do not need to be on. The LED will be blinking when the heating elements need to be on. The LED will not be on solid or blinking (off) if the cycle is stopped, complete, in cool down, or terminated.

Programming These LEDs are on solid as they are selected during the programming of the dryer controller.

Stop This LED is on solid when either the **STOP** touch pad switch is pressed once or the door is opened during an operating cycle.

SWITCHES (Pushbuttons)

Description



UP

Up/Increase

This touch pad switch will increment (increase) dry time, cool down time, and drying temperature. It will also scroll upwards when selecting a dry cycle.



DOWN

Down/Decrease

This touch pad switch will decrement (decrease) dry time, cool down time and drying temperature. It will also scroll downwards when selecting a cycle.



Program

This touch pad switch allows the dryer controller to enter the permanent programming mode.



Select/Enter

This touch pad switch will select one of the three variable parts of the dry cycle (dry time, temperature, or cool down) by sequencing through them. Once one of the variable parts of the dry cycle is chosen and changed, this touch pad switch will enter the new (changed) value into the dry cycle program.



Cycle

This touch pad switch allows the dryer controller to enter the temporary programming mode.



STOP

Stop

This touch pad switch will stop the dryer during a dry cycle without clearing the present drying cycle if pressed once. If pressed and released twice, consecutively, the present dry cycle will be cleared.



START

Start

This touch pad switch will start the operation of a dry cycle if pressed and released once. Pressing and holding this touch pad switch will display the current temperature of the dryer heat sensor as long as it is held in the depressed position.

4-DIGIT NUMERICAL DISPLAY MESSAGES

<u>Message</u>	<u>Description</u>
LOAd	This message is displayed after a dry cycle is complete and the dryer loading door has been opened or the STOP touch pad switch on the dryer controller has been pressed and released twice.
donE	This message blinks immediately after completion of the dry cycle and continues to blink until the stop key on the dryer controller touch pad is pressed or the dryer loading door is opened.
Prog	This message is displayed when entering the permanent programming mode.
.15	This message appears while the dryer is in the heating time of a dry cycle. The decimal point will blink if the output for the heating elements is on, or remain on constantly if the output for the heating elements is not on. The number represents the total time left in the dry cycle (includes cool down time).
C02	This message appears when the cool down time of the dry cycle is reached. The letter "C" represents the cool down (non-heating) part of the dry cycle. The numbers after the letter "C" represent the total time remaining in the dry cycle.
F5	This message appears if there is a dryer fault. The letter "F" indicates a fault and the number after the "F" represents the specific fault that has occurred. There are five different faults that can appear (F1 through F5).

OPERATING INSTRUCTIONS

To dry a load of items, you must choose one of the five-programmed dry cycles. Each of these five dry cycles may be modified in two different ways to match your load. Please refer to the "Permanent Dryer Controller Programming" or "Temporary Dryer Controller Programming" section of this manual.

There are two parts to each dry cycle. The first part is the heating time, which is when the heating elements are cycled on and off according to the temperature setting in the dry cycle program. The second part is the cool down time, which is after the heating part of the dry cycle, and is when the tumbler continues to turn, but no heat is applied.

There will always be at least two minutes of cool down time for each dry cycle. The maximum amount of cool down time is 60 minutes if the controller has a red dot sticker or 15 minutes if the controller has no red dot sticker.

The five dry cycle default values are shown in the "DRYER CONTROLLER FACTORY DEFAULT PROGRAM SETTINGS" table in this manual.

To improve the drying capabilities of this dryer, you should always separate (untangle) the individual articles in your load before using the dryer.

In the following instruction steps, things that are displayed on the 4-digit numerical display will be in "quotation marks" and any touch pad switches on the dryer controller that physically need to be pressed will be in **CAPITAL AND BOLD LETTERS**.

- 1) Place your untangled load into the dryer tumbler and close the dryer loading door. Notice that the dryer controller 4-digit numerical display should show the word "LOAD". If it does not show this word, then press and release the **STOP** touch pad switch on the dryer controller twice.
- 2) Press and release the **UP** or **DOWN** touch pad switch on the dryer controller to select a dry cycle.
- 3) Once the desired dry cycle is selected, press and release the **START** touch pad switch.

After the **START** touch pad switch of the dryer controller is pressed, the dryer tumbler will start rotating and the two-digit total dry cycle time, along with a decimal point, will appear on the dryer controller display.

The time shown on the dryer controller display will count down to the programmed cool down time. At that time, the display will change from the decimal point and two-digit number to a letter "C" and two digits.

The letter "C" represents the cool down portion of the dry cycle. The two digits represent the amount of time remaining in the dry cycle. The two-digit time, shown on the dryer controller display, will count down to zero.

When the time decrements to zero, the dryer controller display will flash the word "donE" and the end of cycle tone will sound.

At that point, the wrinkle free cycle will automatically begin. This cycle will wait two minutes, if the door is not opened or the **STOP** touch pad switch on the dryer controller is not pressed, and then rotate the tumbler for 10 seconds and stop. These two minutes of idle time and 10 seconds of tumble time will repeat a total of 10 times, at which time the wrinkle free cycle stops. The tumbler will not rotate again until a new dry cycle is started.

During the wrinkle free cycle, the heating elements will not be operated and there will be no heat applied to the load. The word "donE" will also continue to flash and do so even after the wrinkle free cycle is finished. When the dryer loading door is opened, or the **STOP** touch pad switch is pressed, the word "donE" will change to the word "LOAD" on the dryer controller display. The dryer will then be ready for another dry cycle.

During the dry cycle, either pressing the STOP touch pad switch on the dryer controller or opening the dryer loading door, will stop the dry cycle and not clear it. If you press the **STOP** touch pad switch on the dryer controller and then open the dryer loading door, the dry cycle will not be cleared. However, if you open (or open and close) the dryer loading door and then press the **STOP** touch pad switch on the dryer controller, the present dry cycle will be cleared and the word "LOAD" will appear on the dryer controller display.

There are two jumpers and one push button on the component side of the dryer controller printed circuit board.

The jumper located at the lower right side of the circuit board controls whether the controller display shows and operates in the Fahrenheit or Celsius mode. This jumper is labeled as TEMP SELECT and has three pins. The bottom and middle pins are for Celsius and the top and middle pins are for Fahrenheit, which is indicated by the letter C for Celsius and the letter F for Fahrenheit.

The other jumper, located at the upper right side of the component side of the dryer controller circuit board, is used for choosing either a reversing or non-reversing type of dryer. This jumper is labeled as REV and NON-REV. This jumper must be in the non-reversing position, which are the bottom and middle pins. If the jumper is in the reversing position, the heating part of the dry cycle will not operate properly. The dryer will not reverse direction either.

The push button, which is located at the lower middle side of the component side of the dryer controller circuit board, is used to reset all five of the dry cycles to the factory default settings. It is labeled as DEFAULT SETTINGS. Even the dry cycles that have been modified using the permanent programming procedure will be changed back to the factory default settings when using this push button. This push button must be pressed and held for at least three seconds with power applied to the dryer controller circuit board.

TEMPORARY DRYER CONTROLLER PROGRAMMING

The temporary programming mode will allow the change of the stored dry cycle settings in the dryer controller for one complete dry cycle. After the dry cycle is complete, the default settings that existed before the temporary change are restored. The temporary dry cycle can be stopped and cleared at any time during the dry cycle operation.

To temporarily change a dryer controller cycle, follow the procedures below. Things that are displayed on the 4-digit numeric display will be in "quotation marks". Switches on the dryer controller touch pad that physically need to be pressed will be in **CAPITAL AND BOLD LETTERS**.

If, at any time, you want to escape the temporary programming mode while changing the program settings, you can press the **STOP** touch pad switch on the dryer controller if the 4-digit numeric display is not flashing. The **SELECT/ENTER** touch pad switch on the dryer controller can be pressed and released to enter the flashing value shown on the 4-digit numeric display and allow you to escape.

If you press and release the **STOP** touch pad switch on the dryer controller, when the 4-digit numeric display is not flashing, the temporary changes to the dry cycle program will be cancelled. The stored dry cycle settings that existed before the temporary change will then be restored.

If, at any time, you want to start the temporary dry cycle during the temporary programming mode, press and release the **START** touch pad switch on the dryer controller if the 4-digit numeric display is not flashing. The **SELECT/ENTER** touch pad switch on the dryer controller can be pressed and released to enter the flashing value shown on the 4-digit numeric display and allow you to start the temporary dry cycle. If you start the temporary dry cycle, the 4-digit numerical display will change to the total dry time and count down to 0 as the dry cycle progresses.

PROCEDURE

- 1) Make sure the dryer is not in a dry cycle. The 4-digit numeric display on the dryer controller will show "LOAD" when the dryer is not in a dry cycle.
- 2) Press and release the **UP** or **DOWN** touch pad switch on the dryer controller to choose the dry cycle that you want to change (dry cycle 1 through 5). The dry cycle LED will illuminate to indicate which dry cycle you are choosing. If you press and hold it down either the **UP** or **DOWN** touch pad switch, the controller will sequence through the five dry cycles.
- 3) Press and release the **CYCLE** touch pad switch on the dryer controller once you have chosen the dry cycle you want to change. After you press the **CYCLE** touch pad switch, the programming LED and the dry time LED will illuminate, the dry cycle LED will remain illuminated, and the total dry time will be displayed on the 4-digit numeric display.
- 4) Press and release the **UP** or **DOWN** touch pad switch on the dryer controller to change the total cycle time. Once either the **UP** or **DOWN** touch pad switch is pressed, the dry time LED and the total dry time on the 4-digit numeric display will flash. If you press and hold down either the **UP** or **DOWN** touch pad switch, you will increment (**UP** touch pad switch) or decrement (**DOWN** touch pad switch) through the total dry times available (1 through 60 minutes). This displayed dry time includes the cool down time along with the heated time. To not change the total dry time, do not press either the **UP** or **DOWN** touch pad switch to change the total dry time.
- 5) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller. Once the **SELECT/ENTER** touch pad switch is pressed and released, the dry time LED will switch off, the dry cycle LED and programming LED will remain on, the temperature LED will illuminate, and the drying temperature will be shown on the 4-digit numeric display.
- 6) Press and release the **UP** or **DOWN** touch pad switch on the dryer controller to change the drying temperature. Each press and release of either the **UP** or **DOWN** touch pad switch will either increase or decrease the temperature by five degrees Fahrenheit or three degrees Celsius, depending on how your dryer controller is set up. Once either the **UP** or **DOWN** touch pad switch is pressed, the temperature LED and the drying temperature on the 4-digit numeric display will flash. If you press and hold down either the **UP** or **DOWN** touch pad switch, you will increment (**UP** touch pad switch) or decrement (**DOWN** touch pad switch) your way through the available drying temperatures (105^o Fahrenheit or 41^o Celsius, up to 195^o Fahrenheit or 90^o Celsius). If you do not want to change the drying temperature, do not press either the **UP** or **DOWN** touch pad switch. Go to the next step.

- 7) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller. Once the **SELECT/ENTER** touch pad switch is pressed and released, the temperature LED will switch off, the dry cycle LED and programming LED will remain on, the cool down LED will illuminate, and the cool down time will be shown on the 4-digit numeric display.
- 8) Press and release the **UP** or **DOWN** touch pad switch on the dryer controller to change the cool down time. Once either the **UP** or **DOWN** touch pad switch is pressed, the cool down LED and the cool down time on the 4-digit numeric display will flash. If you press and hold down either the **UP** or **DOWN** touch pad switch, you will increment (**UP** touch pad switch) or decrement (**DOWN** touch pad switch) through the cool down times available (2 through 60 minutes if the controller has a red dot sticker or 2 through 15 minutes if the controller has no red dot sticker). To not change the cool down time, do not press either the **UP** or **DOWN** touch pad switch. Go to the next step.
- 9) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller. Once the **SELECT/ENTER** touch pad switch is pressed and released, the cool down LED and the programming LED will switch off, the dry cycle LED will remain on, and the flashing cool down time on the 4-digit display will stop flashing and remain.
- 10) At this point, you have two choices.
 - 1) You can perform the modified dry cycle by pressing and releasing the **START** touch pad switch on the dryer controller. If you start the modified cycle, the total dry time will appear on the 4-digit numeric display and it will count down to 0 as the dry cycle progresses.
 - 2) You can clear the modified dry cycle program by pressing and releasing the **STOP** touch pad switch once. If you choose to clear the modified dry cycle, the 4-digit numeric display will change to "LOAD".

TEMPORARY DRYER CONTROLLER PROGRAMMING EXAMPLE

REQUIREMENTS: Dry a load with 40 minutes of actual heat at 185 °F and five minutes of cool down.

The following procedure will show you how to temporarily modify the existing dry cycle 1 program for one cycle of drying. It is based on the assumption that the factory defaults have not been permanently changed. If they have been changed, the steps of this procedure will be the same, but the values that are displayed will be different. The amount of times that the **UP** or **DOWN** touch pad switches of the dryer controller must be pressed and released may also be different.

If you want the change to be permanent, go to the "PERMANENT DRYER CONTROLLER PROGRAMMING" section of this manual.

PROCEDURE

- 1) After the load has been placed in the dryer, press and release the **UP** or **DOWN** touch pad switch on the dryer controller until the LED for dry cycle 1 is illuminated.
- 2) Press and release the **CYCLE** touch pad switch on the dryer controller. You will see the number "35" on the dryer controller display. The programming LED and dry time LED will be illuminated.
- 3) Press and release the **UP** touch pad switch on the dryer controller 10 times so the display will show a flashing "45". When the **UP** touch pad switch is pressed the first

time, the number "36" will be flashing on the dryer controller display. Each number after that will also flash.

- 4) Now, press and release the **SELECT/ENTER** touch pad switch on the dryer controller. The number "45" will stop flashing and the dry time LED will turn off. The dryer controller display will now show "180", the temperature LED will illuminate, and the programming LED and dry cycle 1 LED will remain on.
- 5) Press and release the **UP** touch pad switch on the dryer controller one time so the controller display will show a flashing "185". Each press of the **UP** touch pad switch will increment the temperature by five degrees.
- 6) Now, press and release the **SELECT/ENTER** touch pad switch on the dryer controller. The number "185" will stop flashing and the temperature LED will turn off. The dryer control display will now show a number "5", the cool down LED will illuminate, and the programming LED and dry cycle 1 LED will remain on.
- 7) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller, since the desired cool down time is five minutes. After you press the **SELECT/ENTER** touch pad switch on the controller, the cool down LED and programming LED will turn off. The controller display will remain at "5" and the cycle 1 LED will remain on.

You are now ready to start the new dry cycle. This new dry cycle will be in effect for one dry cycle only. After the dry cycle is done, or if the **STOP** touch pad switch on the dryer controller is pressed and released twice, consecutively, the cycle 1 program will revert to the factory default settings.

If you press the **START** touch pad switch on the dryer controller, the controller display will change from the number "5" to the number "45" and dry cycle 1 will begin.

PERMANENT DRYER CONTROLLER PROGRAMMING

The permanent programming mode will allow the change of the stored dry cycle settings in the dryer controller until the operator physically changes them again. The factory default settings can be restored in the dryer controller by pressing the default settings pushbutton on the back (component) side of the dryer controller circuit board. It is labeled and located at the lower middle side of the printed circuit board, as you face the component side of the board. It must be pressed and held down for at least three seconds with power applied to the dryer controller circuit board.

To permanently change a dryer controller cycle, follow the procedure below. Things that are displayed on the 4-digit numeric display will be in "quotation marks". Touch pad switches that physically need to be pressed will be in **CAPITAL AND BOLD LETTERS**.

If, at any time, you want to escape the permanent programming mode while changing the settings, you can press the **STOP** touch pad switch on the dryer controller if the 4-digit numeric display is not flashing. The **SELECT/ENTER** touch pad switch on the dryer controller can be pressed and released to enter the flashing value shown on the 4-digit numeric display and allow you to escape.

PROCEDURE

- 1) Make sure the dryer is not in a dry cycle. The 4-digit numeric display on the dryer controller will show "LOAD" when the dryer is not in a dry cycle.

- 2) Press and release the **PROG** touch pad switch on the dryer controller.
- 3) Press and release the **UP** touch pad switch on the dryer controller. The programming LED will illuminate and the 4-digit numeric display on the dryer controller will change to "Prog".
- 4) Press and release the **UP** or **DOWN** touch pad switch on the dryer controller to choose the dry cycle you want to change (dry cycle 1 through 5). The dry cycle LED will illuminate to indicate which dry cycle you are choosing. If you press and hold down either the **UP** or **DOWN** touch pad switch, the controller will sequence through the five dry cycles.
- 5) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller when you have chosen the dry cycle that you want to change. After you press the **SELECT/ENTER** touch pad switch, the dry time LED will illuminate, the dry cycle LED and the programming LED will remain illuminated, and the total dry time will be displayed on the 4-digit numeric display.
- 6) Press and release the **UP** or **DOWN** touch pad switch on the dryer controller to change the total dry time. Once either the **UP** or **DOWN** touch pad switch is pressed, the dry time LED and the total dry time on the 4-digit numeric display will flash. If you press and hold down either the **UP** or **DOWN** touch pad switch, you will increment (**UP** touch pad switch) or decrement (**DOWN** touch pad switch) through the total dry times available (1 through 60 minutes). This displayed dry time includes the cool down time along with the heated time. To not change the total dry time, do not press either the **UP** or **DOWN** touch pad switch. Go to the next step.
- 7) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller. Once the **SELECT/ENTER** touch pad switch is pressed and released, the dry time LED will switch off, the dry cycle LED and programming LED will remain on, the temperature LED will illuminate, and the drying temperature will be shown on the 4-digit numeric display.
- 8) Press and release the **UP** or **DOWN** touch pad switch on the dryer controller to change the drying temperature. Each press and release of either the **UP** or **DOWN** touch pad switch will either increase or decrease the temperature by five degrees Fahrenheit or three degrees Celsius, depending on how your dryer controller is set up. Once either the **UP** or **DOWN** touch pad switch is pressed, the temperature LED and the drying temperature on the 4-digit numeric display will flash. If you press and hold down either the **UP** or **DOWN** touch pad switch, you will increment (**UP** touch pad switch) or decrement (**DOWN** touch pad switch) your way through the available drying temperatures (105^o Fahrenheit or 41^o Celsius, up to 195^o Fahrenheit or 90^o Celsius). If you do not want to change the drying temperature, do not press either the **UP** or **DOWN** touch pad switch. Go to the next step.
- 9) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller. Once the **SELECT/ENTER** touch pad switch is pressed and released, the temperature LED will turn off, the dry cycle LED and programming LED will remain on, the cool down LED will illuminate, and the cool down time will be shown on the 4-digit numeric display.
- 10) Press and release the **UP** or **DOWN** touch pad switch on the dryer controller to change the cool down time. Once either the **UP** or **DOWN** touch pad switch is pressed, the cool down LED and the cool down time on the 4-digit numeric display will flash. If you press and hold down either the **UP** or **DOWN** touch pad switch, you will increment (**UP** touch pad switch) or decrement (**DOWN** touch pad switch) through the cool down times available (2 through 60 minutes if the controller has a red dot sticker or 2 through 15 minutes if the controller has no red dot sticker). To not change the cool down time, do not press either the **UP** or **DOWN** touch pad switch. Go to the next step.

- 11) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller. Once the **SELECT/ENTER** touch pad switch is pressed and released, the cool down LED will turn off, the dry cycle LED and programming LED will remain on, and the 4-digit numeric display will change to "Prog".
- 12) Press and release the **STOP** touch pad switch on the dryer controller to save the cycle program and escape the programming mode. If you want to change the same dry cycle program again, press the **SELECT/ENTER** touch pad switch and continue at step 6 of this procedure. If you want to modify another dry cycle program, go to step 4 of this procedure and continue.
- 13) If you pressed the **STOP** touch pad switch to escape the programming mode, you may now start the dry cycle by pressing the **START** touch pad switch.

PERMANENT DRYER CONTROLLER PROGRAMMING EXAMPLE

REQUIREMENTS: Dry a load with 50 minutes of actual heat at 195° F and three minutes of cool down.

The following procedure will show you how to permanently modify the existing dry cycle 1 program for one cycle of drying. It is based on the assumption that the factory defaults have not been permanently changed. If they have been changed, the steps of this procedure will be the same, but the values that are displayed will be different. The amount of times that either the **UP** or **DOWN** touch pad switch of dryer controller must be pressed and released may also be different.

If you want the change to be temporary (for only one dry cycle), go to the "TEMPORARY DRYER CONTROLLER PROGRAMMING" section of this manual.

PROCEDURE

- 1) After the load has been placed in the dryer, press and release the **UP** or **DOWN** touch pad switch on the dryer controller until the LED for dry cycle 1 is illuminated.
- 2) Press and release the **PROG** touch pad switch on the dryer controller. The dryer controller display will not change.
- 3) Immediately, press and release the **UP** touch pad switch on the dryer controller. The controller display will change from "LOAD" to "Prog". You have now entered the permanent programming mode. The dry time LED will remain on and the programming LED will illuminate.
- 4) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller once. The dry time LED and programming LED will remain on, the dry time LED will illuminate, and the dryer controller will show the number "35".
- 5) Press the **UP** touch pad switch on the dryer controller 18 times until the dryer controller display shows the number "53".
- 6) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller once. The dry time LED and programming LED will remain on, the dry time LED will turn off, the temperature LED will illuminate, and the dryer controller display will show the number "180".

- 7) Press and release the **UP** touch pad switch on the dryer controller three times until the dryer controller display shows the number "195".
- 8) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller. The dry time LED and the programming LED will remain on, the temperature LED will turn off, the cool down LED will illuminate, and the dryer controller display will show the number "5".
- 9) Press and release the **DOWN** touch pad switch on the dryer controller twice until the dryer controller display shows the number "3".
- 10) Press and release the **SELECT/ENTER** touch pad switch on the dryer controller. The dry time LED and the programming LED will remain on, the cool down LED will turn off, and the dryer controller display will change to "Prog".
- 11) Press and release the **STOP** touch pad switch on the dryer controller. The dry time LED will remain on, the programming LED will turn off, and the dryer controller display will change to the word "LOAD".

The dryer is now ready for the new modified dry cycle to start. This modified dry cycle 1 program will remain in the dryer controller memory until the default settings push button is pressed. This default settings push button is located on the component side of the dryer controller printed circuit board at the lower middle side.

IMPORTANT: Clothes should be removed from the dryer as soon as possible after the cycle is completed and then folded or hung to prevent excessive wrinkling.

SERVICING THE DRYER

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

ATTENTION: Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de câblage peuvent entraîner un fonctionnement inadéquat et dangereux. S'assurer que l'appareil fonctionne adéquatement une fois l'entretien terminé.

If any of the following symptoms occur on this dryer, check the suggested remedies listed below. If all probable causes have been eliminated and the symptom still exists, contact your local Dexter agent for further troubleshooting assistance. See contact information in Preventative Maintenance section. Parts & Service Manuals from Dexter are also available for further troubleshooting assistance.

Symptom	Probable Cause	Suggested Remedy
Tumbler Does not turn	Loading Door	Check that Loading Door is completely closed
	Lint Compartment Door	Check that Lint Compartment Door is completely closed.
	Drive Belts	Check drive belts for excessive wear. Replace as needed.
Slow Drying	Control	Check that proper Temperature setting is chosen.
	Lint Screen	Clean Lint Screen
	Air flow Restrictions/ Make-up Air	Follow installation guidelines for static back pressure and make-up air
	Exhaust	Check exhaust for obstructions, follow installation guidelines

PREVENTIVE MAINTENANCE INSTRUCTIONS

DAILY

1. Clean the lint screen. Use a soft brush if necessary.
2. Check the lint screen for tears. Replace if necessary.
3. Clean lint from the lint screen compartment.

MONTHLY

1. Remove lint accumulation from the end bells of the motor.
2. Remove lint accumulation from front control area.
3. Remove lint and dirt accumulation from the top of the dryer and all areas above, below, and around the heating elements and heating elements housing. Failure to keep this portion of the dryer clean can lead to a build-up of lint creating a fire hazard.
4. Place a few drops of light oil on the clothes door hinge.
5. Grease the bearings and the shaft of the intermediate drive pulley. Use an Alemite grease gun and Molykote BR2-S grease.

QUARTERLY

1. Check the belts for looseness, wear, or fraying.
2. Inspect the gasket of the door glass for excessive wear.
3. Check tightness of all fasteners holding parts to support channel.
4. Check tightness of all set screws.
5. Inspect the impeller for tightness of the blades to hub.
6. Check the tightness of the tumbler shaft retaining bolt.
7. Remove the air flow switch assembly and check the tumbler thru-bolts for tightness.
8. Apply a few drops of oil to each spacer tube on the tension arm assembly.
9. Grease the pivot pins and the tension arms where in contact with each other.

SEMI-ANNUALLY

1. Remove and clean the heating elements.
2. Remove all lint accumulation. Remove the front panel and the lint screen housing and remove lint accumulation.

ANNUALLY

1. Check the intermediate pulley bearings for wear.
2. Check and remove any lint accumulation from the exhaust system.

SERVICE PARTS

PART NUMBER

	T-30	T-50	T-80
DRIVE BELT, MOTOR	9040-076-003	9040-076-006	9040-076-011
DRIVE BELT, TUMBLER	9040-073-009	9040-073-011	9040-073-012
LINT SCREEN FILTER	9822-026-002	9822-026-001	9822-031-002

For service and parts information, contact your local Dexter agent. If a Dexter agent is not available, contact **Dexter Laundry, Inc.** directly as listed below:

Mailing Address: 2211 West Grimes Avenue Phone: 1-800-524-2954
Fairfield, IA 52556 USA

Website: www.dexter.com