COMMERCIAL DRYER MODEL T-20 SWD VENDED (10.5 KG) C-SERIES CONTROL, ELECTRC-HEATED



OPERATOR'S MANUAL INSTALLATION & OPERATION INSTRUCTIONS

Original Instructions

For GB & IE

The dryer will operate correctly in ambient temperatures of $+5^{\circ}$ C to $+45^{\circ}$ C, in relative humidity up to 50% at $+40^{\circ}$ C and above 50% when below $+40^{\circ}$ C, and at altitudes up to 1000m above sea level, must be transported and stored from -40° C to $+140^{\circ}$ C, and has been packaged to prevent damage from humidity, vibration, and shock. Take measures to avoid harmful effects of occasional condensation.

Post the following "For Your Safety" caution in a prominent location:

FOR YOUR SAFETY

Do not store or use petrol or other flammable vapours and liquids or dry cleaning solvents in the vicinity of this or any other appliance.

FOR YOUR SAFETY

THIS MACHINE IS FOR DRYING ONLY FABRICS WASHED IN WATER.

To avoid possibility of fire, including spontaneous combustion, do not dry oiled floor mops, items containing foam rubber or similarly textured rubberlike materials or any material on which you have used a cleaning solvent or which contains flammable liquids or solids (such as petrol, kerosene, waxes, etc.) Fabric softeners, or similar products, should be used per the fabric softener instructions. Remove all objects from pockets such as lighters and matches.

▲WARNING – Risk of Fire

Clothes dryer installation must be performed by a qualified installer.

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.

To reduce the risk of severe injury or death, follow all installation instructions.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision. Children of less than 3 years should be kept away unless continuously supervised.

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

Dexter Laundry, Inc.

2211 West Grimes Avenue Fairfield, Iowa 52556, USA

TABLE OF CONTENTS

	Page No.
Warnings about use and operation	2
Dryer Specifications	4
Dryer Dimensions	5
Installation Instructions	6 – 12
Dryer Shutdown	12
Operating Instructions	13
Programming the Dryer Control	14 – 22
Servicing and Troubleshooting	23
Preventative Maintenance Instructions	24

WARNINGS ABOUT USE AND OPERATION

Caution! There are sharp edges on various sheet metal parts internation to the enclosure. Use safety consciousness when placing or moving your hands while working in the interior of this equipment.		
Meaning: Do Not Enter This Equipment (or Space).	Meaning: Do Not Step, Stand, or Sit on This Equipment.	
Meaning: Do Not Operate with Guards or Covers Removed.	Meaning: High Voltage. Disconnect power before servicing.	
Meaning: Lock Out and Tag Out before servicing.	Meaning: Burn Hazard. Do Not Touch Heater Housing or Heating Elements. Allow these parts to cool before servicing.	
Meaning: Do Not Dry Items Containing Explosive Material.	Meaning: Do Not Dry Items Containing Flammable Material.	
Meaning: Read Operators Manual.	Meaning: Center of Gravity.	
Meaning: Left Point for Forklift or Hand Pallet Truck or Jack.	Meaning: Right Point for Forklift or Hand Pallet Truck or Jack.	

It is **ABSOLUTELY ESSENTIAL** that the dryer be earthed to a known earth. This is not only for personal safety, but is necessary for proper operation of the controller. Failure to do so will void the warranty of the controller.

DO NOT MODIFY THIS APPLIANCE. KEEP SHIELDS, GUARDS AND COVERS IN PLACE. These safety devices are provided to protect everyone from injury.

WARNING: Do not stop dryer before end of cycle time unless all items are quickly removed and spread out to dissipate heat.

WARNINGS ABOUT USE AND OPERATION continued

THIS DRYER IS EQUIPPED WITH A MANUALLY RESETTABLE OVER-TEMPERATURE

THERMOSTAT located above the motor on the rear of the cabinet. Should the dryer cease to heat, refer to your "Service Procedure and Parts Data" book for instructions.

CHECK THIS THERMOSTAT WHEN INSTALLING DRYER to assure it is not tripped. Impacts, such as rough handling in shipment, may trip the thermostat. It may be reset by pushing the red tipped rod located above the control box at the rear of the dryer.

DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE while in operation.

THIS APPLIANCE SHALL NOT BE USED TO DRY OFF CLOTHES CONTAINING SOLVENTS OR DRY-CLEANING FLUIDS.

Misuse of Dryer		
	Do not use this Equipment for any purpose not described in this Manual.	
	Do not operate this equipment without all guards and covers in place.	
4	Do not operate this dryer from any power source not matching the operational requirements on the back of the dryer.	
	Do not place your body inside the dryer cylinder or allow others to do so. Death or serious injury can result from this!	
Other Examples May Be Applicable		

SPECIFICATIONS

10.5 KG (23 lb.) Commercial Dryer: T-20 SWD

Cabinet Height $34 3/4''$ 883 mm. (Assumes minimum leveling leg adjustment)Cabinet Width $27''$ 686 mm. Overall Depth $44 5/8''$ 1133 mm. Floor to Bottom of Door $8 1/2''$ 215 mm. Door Opening $18 1/8''$ 460 mm. Dry Wt. Capacity 23 lbs. 10.5 kg. Cylinder Diameter $25 1/2''$ 647 mm. Cylinder Depth $24'''$ 609 mm. Cylinder Volume 7.0 cu. ft. 198.2 liters Lint Screen Area 285 sq. in. 1839 sq. cm. Exhaust Size $6''$ 152 mm. Make-up Air 100 sq. in. 645 sq. cm. Example: $100 \text{ sq. in} = 10 \text{ in. long X 10 in. wide}$ 248 kW Airflow (50 hz) 300 CFM $8.5 \text{ m}^3/\text{min}$	DCS020E82		
Cabinet Width $27''$ 686 mm. Overall Depth $44 5/8''$ 1133 mm. Floor to Bottom of Door $8 1/2''$ 215 mm. Door Opening $18 1/8''$ 460 mm. Dry Wt. Capacity 23 lbs. 10.5 kg. Cylinder Diameter $25 1/2''$ 647 mm. Cylinder Depth $24'''$ 609 mm. Cylinder Volume 7.0 cu. ft. 198.2 liters Lint Screen Area 285 sq. in. 1839 sq. cm. Exhaust Size $6''$ 152 mm. Make-up Air 100 sq. in. 645 sq. cm. Example: 100 sq. in = 10 in. long X 10 in. wide $.248 \text{ kW}$	Cabinet Height	34 3/4″	883 mm.
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$\begin{array}{ccccc} \text{Door Opening} & 18 \ 1/8'' & 460 \ \text{mm.} \\ \text{Dry Wt. Capacity} & 23 \ \text{lbs.} & 10.5 \ \text{kg.} \\ \text{Cylinder Diameter} & 25 \ 1/2'' & 647 \ \text{mm.} \\ \text{Cylinder Depth} & 24'' & 609 \ \text{mm.} \\ \text{Cylinder Volume} & 7.0 \ \text{cu. ft.} & 198.2 \ \text{liters} \\ \text{Lint Screen Area} & 285 \ \text{sq. in.} & 1839 \ \text{sq. cm.} \\ \text{Exhaust Size} & 6'' & 152 \ \text{mm.} \\ \text{Make-up Air} & 100 \ \text{sq. in.} & 645 \ \text{sq. cm.} \\ \text{Example: 100 \ sq. in} = 10 \ \text{in. long X 10 \ in. wide} \\ \end{array}$	Overall Depth	44 5/8″	1133 mm.
Dry Wt. Capacity23 lbs.10.5 kg.Cylinder Diameter $25 \ 1/2''$ $647 \ mm.$ Cylinder Depth $24'''$ $609 \ mm.$ Cylinder Volume $7.0 \ cu. \ ft.$ $198.2 \ liters$ Lint Screen Area $285 \ sq. \ in.$ $1839 \ sq. \ cm.$ Exhaust Size $6''$ $152 \ mm.$ Make-up Air $100 \ sq. \ in.$ $645 \ sq. \ cm.$ Example: 100 \ sq. \ in = 10 \ in. \ long X \ 10 \ in. \ wide $248 \ kW$	Floor to Bottom of Door	8 1/2″	215 mm.
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Motor Size-Tumbler/Blower 1/3 H.P248 kW	Make-up Air	100 sq. in.	645 sq. cm.
	Example: 100 sq. in = 10 in. long X 10 in. wide		
Airflow (50 hz) 300 CEM 8.5 m^3/min	Motor Size-Tumbler/Blower	1/3 H.P.	.248 kW
	Airflow (50 hz)	300 CFM	8.5 m^3/min

Electrical Specifications – Model -82

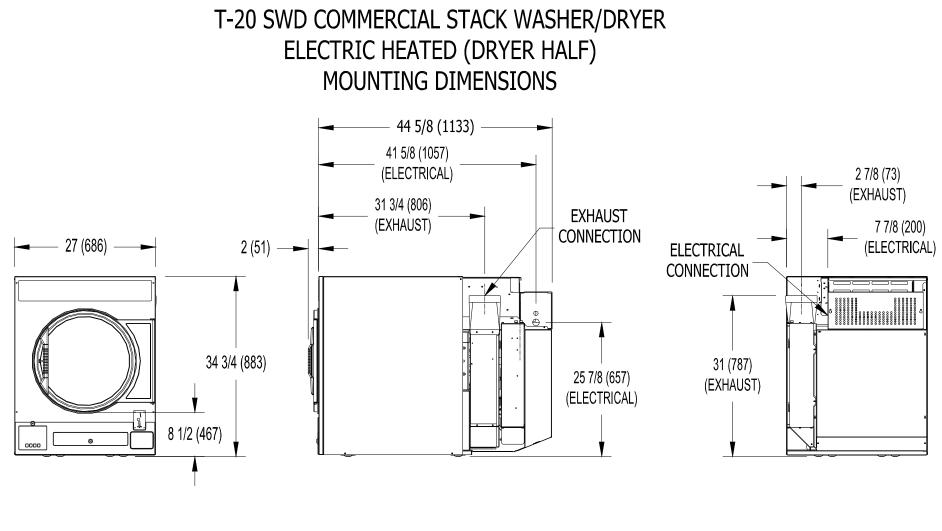
Voltage/Hz/Phase	400V/50Hz/3Phase/15kW Heat
Running Amps	30 Amps
Minimum Dual Element Time Delay Fuse	30 Amp
Wire Size	8.5 mm^2
Electrical Service	4 wire + ground

Stand-alone Dryer

Shipping Weight	350 lbs.	159 kg.
Net Weight	320 lbs.	145 kg.
Clearance Behind Machines (min.)	18″	457 mm.

Combo Stack Washer/Dryer

Shipping Weight	840 lbs.	381 kg.
Net Weight	800 lbs.	363 kg.
Clearance Behind Machines (min.)	24″	611 mm.



FRONT VIEW

SIDE VIEW

REAR VIEW

FIGURE 1 – DRYER DIMENSIONS

INSTALLATION INSTRUCTIONS

This dryer may have been supplied as part of a washer/dryer stacked appliance. If so, refer to the washer instructions for uncrating and hard mounting the stacked unit to a concrete floor and observe the dryer clearances listed below.

UNCRATING (Stand-alone dryer unit)

Tools Required: 3/4" (19 mm) hex socket and ratchet driver, a knife, and groove joint pliers, which will open to 1 3/8" (35 mm).

Note: A forklift, or a hand pallet truck or jack, must lift the washer/dryer or dryer and only from the front or rear of the washer/dryer or dryer with the washer/dryer or dryer bolted to the pallet and supported the full length of the washer/dryer or dryer.

1. Remove the plastic wrap with the 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 groove joint pliers, 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 Model	Mass
DCS020E	159 kg

DRYER INSTALLATION

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

The appliance must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the tumble dryer, in such a way that a full opening of the tumble dryer door is restricted.

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

- 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 4" (100 mm) back from the front. However, a 1/4" (6 mm) clearance should be allowed in case the dryer needs to be moved.

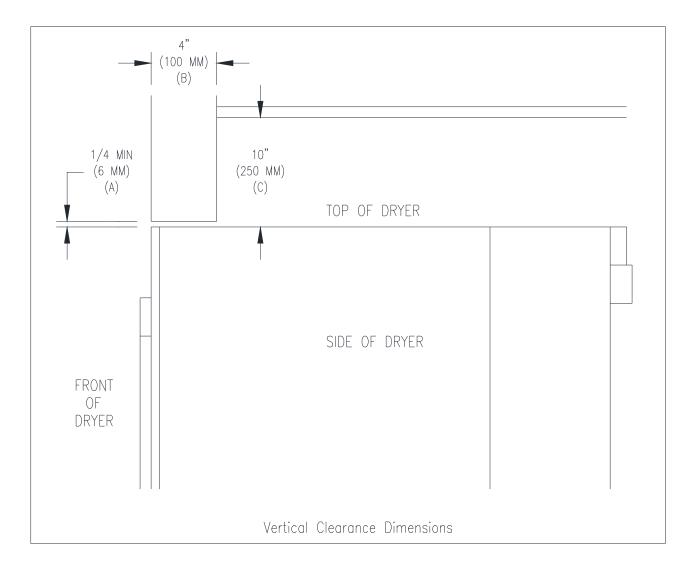
A 10" (254 mm) clearance is required from the top at all other points.

VI. Floor This unit may be installed upon a combustible floor.

Do not obstruct the flow of combustion and ventilation air.

Maintain minimum of 25 mm (1 in.) clearance between duct and combustible material.

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



VERTICAL CLEARANCE DIMENSIONS

3. MAKE-UP AIR. Adequate make-up air must be supplied to replace air exhausted by dryers on all types of installations. Provide a minimum air opening to the outside for each dryer as follows:

Dryer Model	Make-up Air Volume/Time	Make-up Air Opening Size (minimum)
DCS020E	300 CFM (8.5 m ³ /minute)	100 in. ² (645 cm ²)

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.

The operation of this appliance may affect the operation of gas appliances, which take their air for safe combustion from the same room. Adequate ventilation must be provided to avoid back flow of gasses from other appliances in the same room. All gas appliances should be tested with the Dexter dryer in operation and all the windows and doors closed. If in doubt, consult the appliance manufacturer(s).

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 earthed to a known earth (No. 8 AWG copper conductor recommended). Knockouts are provided for the connection of 1-inch (25 mm) conduit for the power supply conductors and 3/8-inch (10 mm) conduit for the external earthing conductor. It is absolutely necessary that the dryer be connected to a good earth connection. The earth connection resistance should be checked prior to operation. Introduction of supply wiring must not increase the Ingress Protection (IP) rating.

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)
15	3 / 400	30	(8.5 mm^2)

The installation must meet the electrical requirements of the country, state, and locality of installation. Individual circuit breakers for each dryer are required. The installer must 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 in the belt guard on the back of the dryer.

For destination countries where CE requirements must be met, individual 400V supply disconnecting devices for each dryer are required and must be one of the following types: a. switch-disconnector with fuses per IEC 60947-3 utilization category AC-23B; b. disconnector with fuses per IEC 60947-3 having an auxiliary contact that in all cases causes switching devices to break the load circuit before the opening of the main contacts of the disconnector;

c. a circuit-breaker suitable for isolation per IEC 60947-2;

d. any other switching device in accordance with an IEC product standard for that device and which meets the isolation requirements of IEC 60947-1 as well as a utilization category defined in the product standard as appropriate for on-load switching of motors or other inductive loads; The supply disconnecting devices must

a. provide a means allowing the supply disconnecting devices to be locked in the OFF position; b. be mounted 0.7 m to 1.7 m above the floor, within 2 m from the dryer, and within 8 m from the operator position;

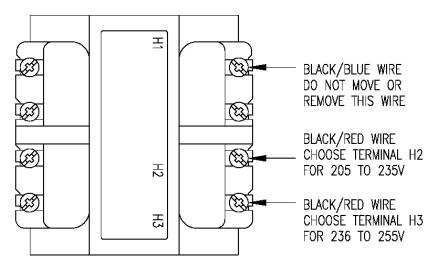
c. have a red actuator to indicate that it serves a dual Emergency Stop function;

d. be rated for branch circuit operation;

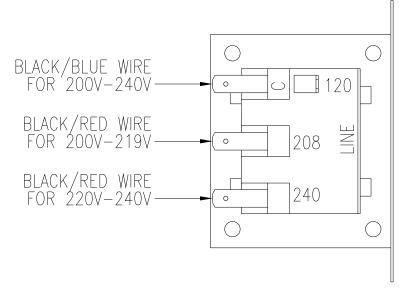
e. be approved for use in the country where installed;

<u>CONTROL TRANSFORMER CONNECTIONS</u> Adjustment for different voltages of supply mains.

FOR -82C MODELS:



FOR -82X MODELS:



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 lightening 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.

6. EXHAUST INSTALLATION. (Refer to Figure 3 at the end of section 6.) The exhaust duct connection near the top of the dryer will accept a 152 mm (6 in.) round duct. 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 heating elements and results in inefficient drying.

Individual exhausting of the dryers is recommended. All heat, moisture, and lint should be exhaust 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. 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 14' (4.25 m) of straight 6" (152 mm) diameter pipe with two right angle elbows is used. The design of the vent system shall be such that any condensate formed when operating the dryer from cold shall either be retained and re-evaporated or discharged.

Maintain a minimum of 25 mm (1 in.) clearance between duct and combustible material.

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" (600 mm), of any objects, which would cause air restriction. Never install a protective screen over the exhaust outlet.

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 or under a building is not permitted. The exhaust air should not be vented into a wall, a ceiling, or a concealed space of building. In these cases, there is a danger of lint buildup, which can be highly combustible.

Installation of several dryers, where a main discharge duct is necessary, will need the following considerations for installation (see Figure 3). 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 3 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.

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

NOTE: Exhaust air must not be discharged into a flue which is used for exhausting fumes from appliances burning gas or other fuels.

DIAMETER TO INCREASE AS SHOWN

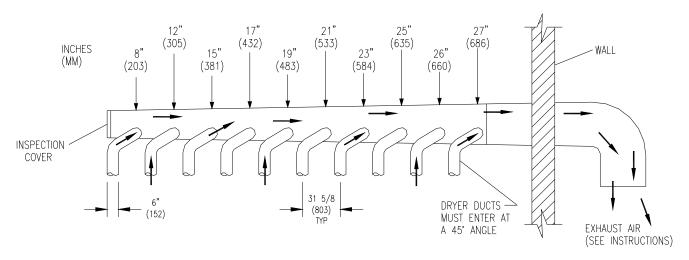


FIGURE 3- Dryer Exhausting Using A Main Discharge Duct.

NOTE: The A-weighted emission sound pressure level does not exceed 70dB(A). The operator does not need hearing protection.

NOTE: The dryer does not emit hazardous radiation.



WARNING: To avoid potential risks of spontaneous combustion of a load, remove the load quickly after the completion of the cycle or in case of failure of power supply.

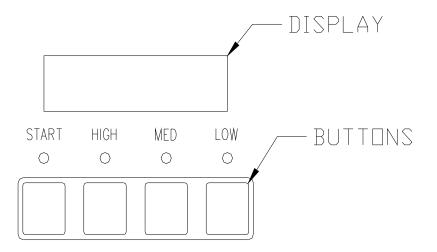
DANGER: Do not dry loads which may create an explosive atmosphere in the dryer.

DRYER SHUTDOWN

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

OPERATING INSTRUCTIONS

Maximum Load Capacity: 10.5 kg (23#) Dry Weight for DCS020E



STARTING THE DRYER

- 1. The display on the dryer control will show the required vend amount when in idle mode. Once the door is opened it will prompt the user to add money. Load clothes into the dryer. Close the door completely.
- 2. Deposit coins equal to or greater than the displayed vend price. The display on the control will prompt the user to choose a drying temperature.
- 3. Select the drying temperature by pressing the appropriate button for "high", "med" (medium) or "low". This will turn on the red indicator light showing the selected temperature.
- 4. Press the "start" button to start dryer. This will turn on the green indicator light. The drying time purchased is now displayed. The colon begins flashing to indicate that the timer is counting down.

RUNNING THE DRYER

-Opening the door will stop the dryer, but the timer will continue to count down. The dryer will restart, if time has not expired, upon closing the door and pressing the "start" button.

-Selected temperature may be changed at any time (unless Temperature Pricing feature is activated).

-Running time may be extended by depositing coins and pressing the "start" button. Unless time has expired, the controller will accept coins whether or not the original vend price is equaled.

-If time has run out, the dryer must be restarted as if it was at the beginning of drying the load, which requires meeting or exceeding the vend price.

-Clothes should be removed promptly after the cycle is completed to prevent excessive wrinkling.

-Cool-down time (owner programmable) is always part of the cycle time to prevent damage from heat and is purchased by the customer. For example, if the cool-down time is 2 minutes, then the last 2 minutes of the cycle will have no heat.

PROGRAMMING THE DRYER CONTROL

The dryer control can be programmed to prompt the user for alternate vend prices, change dryer cycle times, temperatures and many other options. This can be accomplished in two ways:

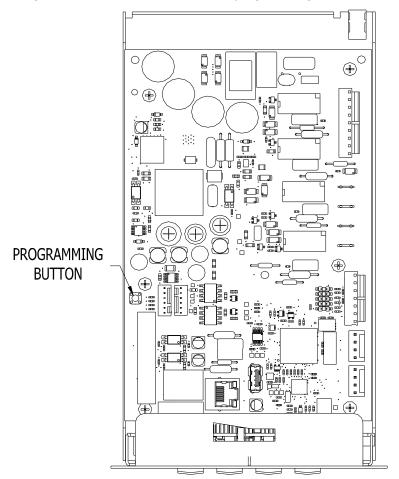
- 1. Manual programming utilizing the "Start", "High", "Medium" and "Low" buttons on the dryer.
- 2. USB download of a customizable User File. For instructions on using the USB download feature, please contact your local Dexter distributor or visit DexterLive.com.

MANUAL PROGRAMMING:

The dryer must be in idle mode for the manual programming menus to be accessed. Idle mode is when the dryer is not actively running a drying cycle and the vend price is displayed on the screen.

To enter the manual programming mode, the control tray on the dryer must be unlocked and pulled out to reveal the programming button. The programming button is then pressed for 1 second. The control should display "DRYER PROGRAMMING".

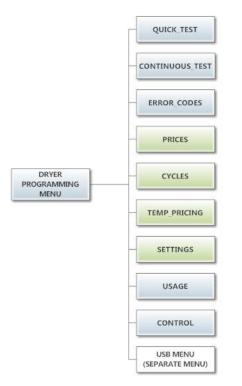
See the figure below for the location of the programming button on the control tray.



When manual programming mode is entered, the "Start", "High", "Medium" and "Low" buttons perform alternate functions.

Button Name	Alternate Function in Programming Mode	
Start	Becomes the action to accept the displayed option or the "Enter" key	
High	Becomes the action to move UP through displayed options (Press & hold for accelerated scrolling)	
Medium	Becomes the action to move DOWN through displayed options (Press & hold for accelerated scrolling)	
Low	Becomes the action to move back a step (1 press) or EXIT from programming mode (press for 3 seconds)	

These alternate functions allow the user to move through a menu of options to choose various programmable settings. The figure below shows the top level menu. Choosing an option from the top level menu will then display the next level of options (the sub menu).



Quick Test Option:

When the Quick Test Option is chosen, the dryer will begin a shortened dry cycle without the displayed vend price being met. The purpose of this shortened cycle is to test all major components for proper operation. Error Codes should all function normally during this test. The display will show customer prompts in a similar way to a normal dry cycle.

Continuous Test Option:

Similar to the Quick Test, when the Continuous Test Option is chosen, the dryer will begin a dry cycle without the displayed vend price being met. However, in this case, it will be a continuously-running cycle. It will not time out after any designated amount of time.

CAUTION: This option is meant for factory use only. Do not operate the dryer with this cycle active without factory authorization.

Error Code Historical Log:

The last five occurring error codes will be stored in the control with a time and date stamp. The purpose of this option is only to observe the history of these code occurrences (no changes can be made).

The time is based off the Real Time Clock, but potentially shifted by the user's manual programming changes (Shift Hours option) and/or network time override. As additional error codes occur, the oldest of the five logged codes is cleared from memory.

Prices Option:

This option allows the user to set values for coin acceptor inputs, vend price & time and extend dry price & time. It also allows the user to return the values to factory defaults. After changing prices using the "Up" or "Down" buttons, the "Enter" button must be pressed again for the control to store the changes that have been made. Note that, in general, time values are set in 1 minute increments. This can be changed to 30 second increments, by changing the "Display Time" to "MIN+SEC" (refer to the "Settings" section").

- 1. "RIGHT COIN" and "LEFT COIN" are the two possible inputs from coin acceptors.
- 2. "PRICE SET VEND" is the actual Base Vend Price (or Vend Price A) that is shown on the control display. The value can be increased or reduced even down to "0". In this case, the displays will prompt "FREE" and the cycle will start as soon is the "Start' button is pressed (without any vend price being met).
- 3. "TIME SET VEND" is the cycle time that the customer has available once they've met the Base Vend Price.

- 4. "FREE SET TIME" is the cycle time that the customer has available if the Base Vend Price is set to "FREE".
- 5. "EXTEND DRY" sets the price and time for additional drying time that becomes available after the customer has already met the Base Vend Price.

To reset either the coin acceptor inputs or the vend price to factory default, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

Example A store owner has programmed the control for the following values.	
Base Vend Price	\$1.00
Base Vend Time	30 minutes
Extend Dry Price	\$.25
Extend Dry Time	8 minutes

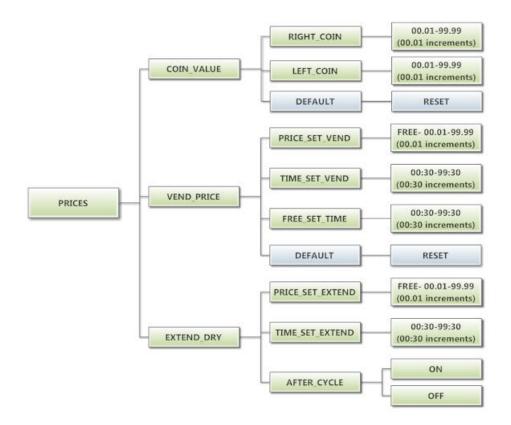
Example- A store owner has programmed the control for the following values:

In this case, the customer adds 4 quarters to satisfy the \$1.00 Vend Price. The display shows 30 minutes of drying time. At this point, if an additional quarter is added, the customer display shows an additional 8 minutes of drying time (38 minutes total) as per the Extend Dry Price & Time.

The customer starts the drying cycle and at 25 minutes into the cycle (13 minutes displayed), they add an additional quarter. The controller adds 8 minutes to the displayed time again (21 minutes total) as per the Extend Dry Price & Time.

"AFTER CYCLE" allows the user to choose whether a customer is allowed to add "EXTEND DRY" time for up to 30 seconds after the dryer door is opened after a completed cycle.

The figure below shows the sub menu options for Prices:



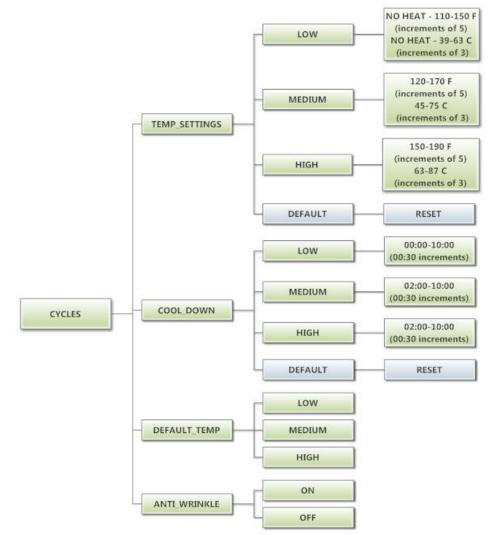
Cycles Option:

This option allows the user to set temperature and cooldown information for the drying cycle. It also allows the user to return the values to factory defaults.

- 1. "TEMP SETTINGS" allows the user to make adjustments, within a designated range, to the cycling temperature for each of the "Low", "Medium" and "High" customer choices.
- 2. In addition, on the "Low" setting, the user can reduce the cycling temperature below 110 degrees F. In this case, when the customer chooses the "Low" setting, the dryer will not turn on the heating elements. When checked, the displayed temperature will read "NO HEAT". Press and hold the "start" button and the active temperature button while the dryer is running to display the current dryer temperature.
- 3. "COOLDOWN" allows the user to change the designated time at the end of a cycle where the heating relay is turned off. On "High" and "Medium" temperature settings, the designated time cannot be reduced to less than 2 minutes.
- 4. "DEFAULT TEMP" allows the user to choose which general temperature setting, "High", "Medium" or "Low", the control will default to at the beginning of each cycle if the customer does not make a choice.
- 5. "ANTI WRINKLE" is a feature that periodically rotates the dryers after a cycle is complete. If the door was closed at the end of the cycle, and is left closed for 5 minutes, the enunciator will sound and the display begins scrolling "ANTI WRINKLE". 5 seconds later, the dryer motor will turn on for 60 seconds and then turn off. The heating elements will not be turned on. The "ANTI WRINKLE" message will continue throughout the time that the motor is turned on. The user can choose to enable or disable this feature.

To reset all values in the Cycles option to factory default, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

The figure below shows the sub menu options for Cycles:



Temperature Pricing Option:

This option allows the user to require additional vend amounts be added based on the drying temperature chosen by the customer. This pricing adder is effective only for the Base Vend Price (it does not affect the Extend Dry Price). It allows a pricing adder separate for "Medium" and "Hot" temperature settings.

Example ⁻ A store owner has programmed the control for the following.		
Vend Price	\$1.00	
Vend Time	30 minutes	
Extend Dry Price	\$.25	
Extend Dry Time	8 minutes	
Medium Adder	\$.25	
Hot Adder	\$.50	

Example- A store owner has programmed the control for the following:

In this case, the Vend Price is displayed as:

\$1.00 if Low Temperature is chosen

\$1.25 if Medium Temperature is chosen

\$1.50 if Hot Temperature is chosen

When Temperature Pricing Adders are in place (user has chosen a higher value then \$0.00), if the customer attempts to change their temperature selection from a lower temperature to a higher one during a drying cycle, there will be no change in the temperature selection. The higher temperature buttons are disabled until the drying cycle is complete and a new Vend Price is required.

The figure below shows the sub menu options for Temperature Pricing:



Settings Options:

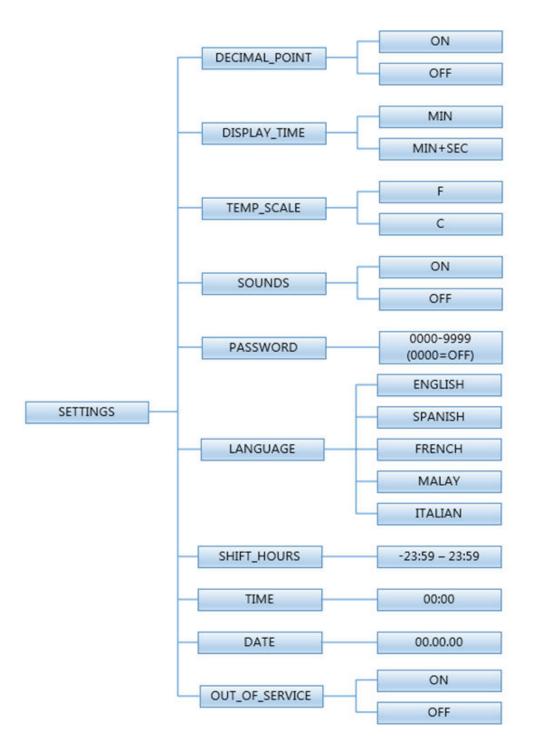
The Settings options allow for the user to make various programming changes to change how the control operation affects the customer. See below for detailed information on each next level option.

- 1. "Decimal Point": If the user programs the Decimal Point to "OFF", control display will not show a decimal point on any vend price values. The factory default is "ON".
- "Display Time": If the user programs this value to "MIN", then minutes only will be shown for the cycle time. If it is programmed to "MIN+SEC", then minutes and seconds will be shown. This also allows other programming changes, involving time, to be made in either minute increments or minutes & seconds increments, as desired.
- 3. "Temp Scale": If the user programs this value to "F", then the temperatures will be displayed in Fahrenheit units. If it is programmed to "C", then the temperature will be in Celsius units.
- 4. "Sounds": If the user programs the Sounds to "OFF", the control will not sound the enunciator at the end of a dry cycle. The factory default is "ON".
- 5. "Password": If the user programs the password to any value other then 0000, the control will prompt the user to enter a password (the programmed value) before manual programming can be accessed. The factory default is "0000" (no password).
 - a. Note that if the user forgets the Password, it can be reset to factory default (no password), by performing a hard reset on the control. Please refer to the appropriate section of this manual to understand how to perform a hard reset.
 - b. The individual digits of the Password can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired number is chosen for a single digit, press the "Enter" button to move to the next one. Once all four desired digits are chosen, the "Enter" button must be held down for 3 seconds to confirm that the complete password should be set.
- 6. "Language": The control uses English for the default language of the customer prompts. Alternatively, the user can choose Spanish, French, Malay, or Italian for the customer display prompts. However, all other prompts, such as Manual Programming, USB Programming and any Error Codes will still display in English.

- 7. "Shift Hours": This feature allows the user to shift the time used by the control from the time kept internally by the control. The control uses a Real Time Clock (RTC) to internally track the time and date. The RTC continues operation even if the control loses external power. The RTC is set for Central Standard Time and no daylight savings. Because the machine may be located in another time zone, the user can choose to create an alternate time & date that tracks in parallel to the RTC. When this alternate time is chosen, or shifted from the RTC, the alternate time will be used to, for example, track error code occurrences and set time-of-day pricing changes.
 - a. The hours in "SHIFT HOURS" can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired hour shift is chosen, press the "Enter" button to move to the minutes. Once the hours and minute shift are both chosen, the "Enter" button must be held down for 3 seconds to confirm that the complete shifted time is set.
- 8. "Time": The control uses a Real Time Clock (RTC) to internally track the time and date. The RTC continues operation even if the control loses external power. The RTC is set for Central Standard Time and no daylight savings. However, if a problem occurs and the RTC time is not accurate, it can be reset to the current time using this option.
 - a. The hours in "TIME" can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired hour is chosen, press the "Enter" button to move to the minutes. Once the hours and minute are both chosen, the "Enter" button must be held down for 3 seconds to confirm that RTC is meant to be reset to the complete entry.
- 9. "Date": Similar to "Time", if a problem occurs and the RTC date is not accurate, it can be reset to the current date using this option.
 - a. The day of the month in "DATE" can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired day of the month is chosen, press the "Enter" button to move to the month of the year. Once the desired month of the year is chosen, press the "Enter" button to move to the year. Once the day, month and year are all chosen, the "Enter" button must be held down for 3 seconds to confirm that RTC is meant to be reset to the complete entry.
- 10. "Out of Service" The control can be put into an Out-of-Service mode via manual programming. When the mode is "ON", the control will scroll "OUT OF SERVICE" on the display. The machine will not react to any vend input and will not operate when in this mode. The factory default is "OFF".

To reset all values in the Settings options to factory default, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

The figure below shows the sub menu options for Settings:

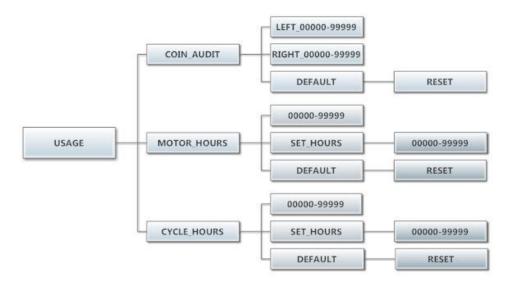


Usage Menu:

The Usage menu allows for the user to track data about machine usage. See below for detailed information on each sub menu option.

- 1. "Coin Audit": The coin audit field shows the accumulation of coin pulses that were sent to the control over each of the left and right coin inputs. Note that this is a count of coin pulses, not an accumulated report of vend value.
 - a. The user can also return the coin audit amounts to the factory default setting (zero). To reset all coin audit values, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.
- 2. "Motor Hours": The motor hours field shows the accumulated hours of operation for the dryer motor. In many cases, it will match the cycle hours of the machine. However, separate fields are provided in the event that a motor is replaced on a machine. The user can set the motor hours to a designated number. For example, if it is necessary to replace the control on a machine, the new control could be programmed to show the motor hours that were recorded by the previously installed control. The individual digits of the hours count can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired digit of the hours is chosen, press the "Enter" button to move to the next digit. Once the complete hours are chosen, the "Enter" button must be held down for 3 seconds to confirm the action.
 - a. The user can also return the motor hours to the factory default setting (zero). To reset the motor hours, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.
- 3. "Cycle Hours": The cycle hours field shows the accumulated hours of operation for the dryer. In many cases, it will match the motor hours of the machine. However, separate fields are provided in the event that a motor is replaced on a machine. See the Motor Hours description for more information.

The figure below shows the sub menu options for Usage:

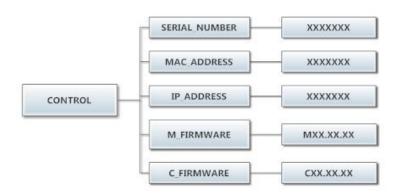


Control Menu:

The Control menu allows for the user to observe important technical information for the control. No changes can be made at this menu. See below for detailed information on each sub menu.

- 1. "Serial Number": This is the control serial number.
- 2. "MAC Address": The MAC Address is a unique identifier designated to the control by the manufacturer. It allows the control to be recognized by network routers.
- 3. "IP Address": The IP Address is the identifier given to the control by a network system.
- 4. "M Firmware": The M Firmware is the Main Firmware currently loaded onto the control.
- 5. "C Firmware": The C Firmware is the Communications Firmware currently loaded onto the control.

The figure below shows the sub menu options for Control:



SERVICING AND TROUBLESHOOTING

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

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.

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	Control	Check that Control Display shows time available for drying. If not, deposit money as needed.
	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
"Temp Sensor Short" or "Temp Sensor Open" Error Code displayed on control	Temperature Sensor	Press programming button to clear Error Code. If Error code persists, contact Dexter agent for assistance
"PCB Error" or "Comm Error" code displayed on control	Control Error	Cycle power to dryer to clear Error Code. If Error Code persists, contact Dexter Agent for Assistance

PREVENTIVE MAINTENANCE INSTRUCTIONS

Note: A key with the markings "6324" is provided for service access to controller and another key with markings "6101" is provided for service access to the lint screens, both by a qualified person. These keys should be stored in a secure place away from the dryer. A different key is required to open the coin box, if provided.

PREVENTIVE MAINTENANCE INSTRUCTIONS continued

DAILY

Use service key to gain access to the line screen.

- 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.

Relock lint screen to prevent unauthorized access.

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 burners and burner 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. Remove lint accumulation from the primary air ports in the burners.
- 9. Apply a few drops of oil to each spacer tube on the tension arm assembly.
- 10. Grease the pivot pins and the tension arms where in contact with each other.

SEMI-ANNUALLY

- 1. Remove and clean the main burners.
- 2. Remove all orifices and examine for dirt and hole obstruction.
- 3. 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-20 SWD
DRIVE BELT, MOTOR	9040-076-012
DRIVE BELT, TUMBLER	9040-073-013
LINT SCREEN FILTER	9555-057-011
SERVICE MANUAL	8533-103-001

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 AvenuePhone: 1-800-524-2954Fairfield, IA 52556 USAFairfield, IA 5256 USA

Website: <u>www.dexter.com/</u>