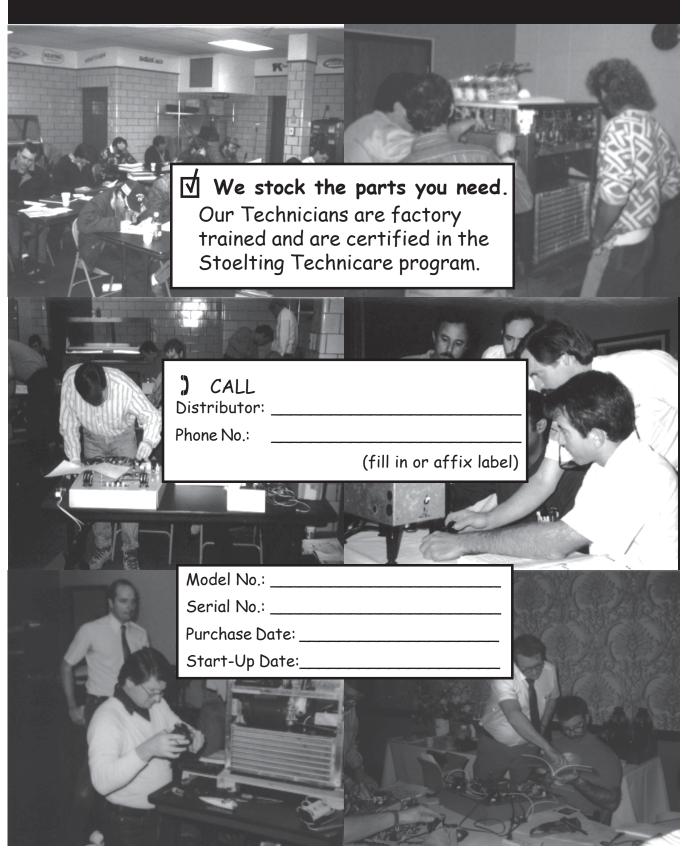


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STOELTING® OWNER'S MANUAL FOR MODEL U431 CAB MODEL SOFT-SERVE PRESSURIZED FREEZER

This manual provides basic information about the freezer. Instructions and suggestions are given covering its basic operation and care.

The illustrations and specifications are not binding in detail. We reserve the right to make changes at any time without notice, to the freezer and its components, without incurring any obligation to modify or provide new parts for freezers built prior to date of change.

DO NOT ATTEMPT to operate the freezer until instructions and safety precautions in this manual are read completely and are thoroughly understood. If problems develop or questions arise in connection with installation, operation or servicing of the freezer, contact the company at the location listed below.

STOELTING, LLC 502 Hwy 67 Kiel, WI 53042-1600 Tele: 920-894-2293

Fax: 920-894-7029

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SECTION 1 INTRODUCTION

1.1 DESCRIPTION

The Stoelting U431 floor model freezer is pressure fed. The freezer is equipped with fully automatic controls to provide a uniform product. The freezer is designed to operate with almost any type of commercial soft-serve or non-dairy mixes available, including ice milk, ice cream, yogurt, and frozen dietary desserts.

This manual is designed to assist qualified personnel and operators in the installation, operation and maintenance of the Stoelting Model U431 pressure freezer.



Figure 1. Model U431 Freezer

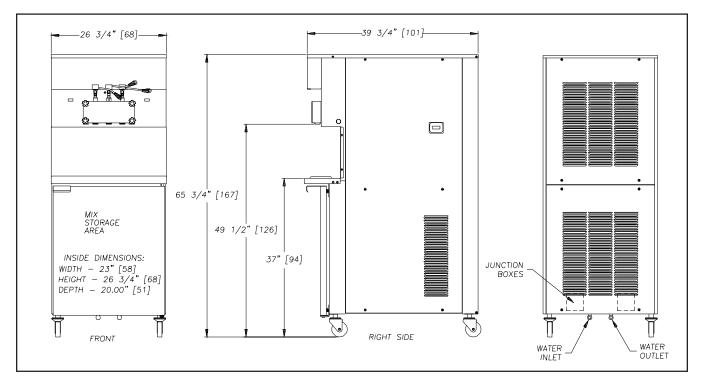


Figure 2. Specification

1.2 SPECIFICATIONS

	MODEL U431								
DIMENSIONS	Width: 26-3/4" (68cm) Depth: 39-3/4" (101cm) Height: 65-3/4" (167cm)							67cm)	
WEIGHT	925lbs. (419,5 kg) 975lbs. w/Crate (442 kg)								
ELECTRICAL (2 separate power sources required.)	Total Running Amps Minimum Circuit Ampacity HACR Max.Circuit Breaker Maximum Fuse Size	1 PH <u>Left Side</u> 17.6 31 45 45	l <u>Right Side</u> 17.2 31 45 45	3 PH <u>Left Side</u> 11.6 21 30 30	Right Side 11.2 21 30 30	1 PH <u>Left Side</u> 20.8 36 50 50	-	3 PI <u>Left Side</u> 14.8 26 35 35 35	•
COMPRESSOR	11,690 B.T.U.H. each								
DRIVE MOTOR	2 HP each								
COOLING	Water or air cooled. req's 3" (7,5cm) all around clearance and 10" (25cm) top clearance. Water cooled req's 1/2" (12,5mm) NPT water and drain fittings.						learance.		

SECTION 2 INSTALLATION INSTRUCTIONS

2.1 SAFETY PRECAUTIONS





Do not attempt to operate the freezer until the safety precautions and operating instructions in the manual are read completely and are thoroughly understood.

Take notice of all warning labels on the freezer (Fig.3). The labels have been put there to help you maintain a safe working environment. The labels have been designed to withstand washing and cleaning. All labels must remain legible for the life of the freezer. Labels should be checked

PLACE ITEM (9) & (13) IN SIMILAR LOCATIONS ON OPPOSITE SIDE OF FREEZER. PLACE ITEM (27) ON INSIDE OF FREEZER ON MOTOR SUPPORT BRACKET. PLACE ITEM (27) ON INSIDE OF FREEZER ON REDUCER SUPPORT BRACKET (BETWEEN BELTS). PLACE ITEM (20) ON BACK PANEL & INSIDE OF FREEZER IN-BETWEEN JUNCTION BOXES. SECURE ITEM (4) WITH ITEM (5) TO CENTER SPIGUT HANDL.

periodically to be sure they have not been painted over, rubbed off, fallen off, and can be recognized as warning labels.

If you are in need of replacement labels, indicate the part number, type of label, location of label, and quantity required along with your name and address and mail to:

Stoelting, LLC **Commercial Products** 502 Hwy. 67 Kiel, WI 53042

NDTE: FOR 4177327-05 USE OTY 1, DMIT ITEM(26) DECAL AND USE ITEM(34) DECAL FOR 4177327-05 USE OTY 1, DMIT ITEM(26) DECAL AND USE ITEM(34) DECAL FOR 4177327-06 USE QTY 2, OMIT ITEM(26) DECAL AND USE ITEM(34) DECAL

> ECAL DRIENTATION

REDUCER SUPPORT BRACKET (BETWEEN BELTS). IF FREEZER IN-BETWEEN JUNCTION BOXES.

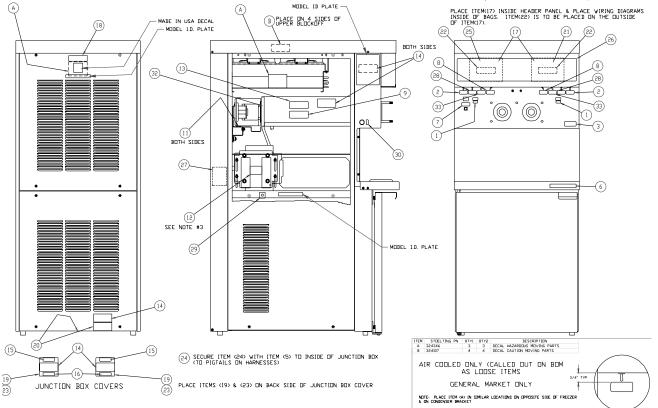


Figure 3. Decal Locations

ITEM	STDELTING PN	QTY1	QTY2	DESCRIPTION					
		-03	-04						
1	324801	2	2	DECAL - MIX LOW	18	324584	1	1	DECAL, ADEQUATE VENTILATION (3")
5	324798	2	5	DECAL CLEAN-DFF-SERVE SWITCH	19	324158	2	2	DECAL COPPER CONDUCTORS ONLY
3	324141	1	1	DECAL CAUTION-ROTATING BLADES	20	324106	2	2	DECAL CAUTION WIRING MAT'L
4	723526	1	1	TAG READ MANUAL & ALL DECALS	21	324107	4	4	DECAL CAUTION MOVING PARTS
5	324346	3	3	DECAL HAZARD⊡US M⊡∨ING PARTS	55	324566	2	2	DECAL - WIRED ACCORDING TO
6	324393	1	1	DECAL STOELTING SWIRL LOGO	23	324015	-	2	DECAL 2X1-1/4 BLK ON WHITE
7	324800	1	1	DECAL - CAB DN/DFF	24	723552	2	2	TAG, CAUTION - SUPPLY VOLTAGE
8	324799	2	2	PUMP DN/DFF	26	324804	1	1	DECAL - GM HEADER (STDELTING SWIRL)
9	324208	2	2	DECAL REFRIG LEAK CHECK	26	324803	1	1	DECAL - GM HEADER (STOLETING LOGD)
10	324509	1	1	DECAL CLEANING (SS & SHAKE)	26	324806	1	1	DECAL, A&W HEADER FOR U431 & 4231
11	324103	2	2	DECAL CAUTION-ROTATING SHAFT	27	324346	5	5	DECAL-CAUTION HAZARDOUS MO∨ING
12	324686	4	4	DECAL DANGER AUTOMATIC START	28	324797	2	2	DECAL, STANDBY/SERVE SWITCH
13	324107	2	2	DECAL CAUTION MO∨ING PARTS	29	324242	1	1	DECAL,TEMPERATURE CONTROL
14	324125	7	7	DECAL ELECT SHOCK HAZARD	30	324200	2	2	DECAL, MANUAL RESET
15	324151	2	5	DECAL FIELD CONNECTIONS	31				
16	324198	-	2	DECAL ATTENTION INSTALLER	35	324014	2	2	DECAL, ARROW
17	130000	2	2	BAG,ENVELOPE FRONT LOADING	33	314796	2	2	DECAL, FREEZING

2.2 SHIPMENT AND TRANSIT

The freezer has been assembled, operated, and inspected at the factory. Upon arrival at the final destination, the freezer must be checked for any damage which may have occurred during final transit.

With the method of packaging used, the equipment should arrive in excellent condition. THE CARRIER IS RESPONSIBLE FOR ALL DAMAGE IN TRANSIT, WHETHER VISIBLE OR CONCEALED. **Do not** pay the freight bill until the freezer has been checked for damage. Have the carrier note any visible damage on the freight bill. If concealed damage and/or shortage is found later advise the carrier within ten days and request inspection. The customer must place claim for damage and/or shortages in shipment with the carrier. **Stoelting, Inc. cannot make any claims against the carrier.**

2.3 FREEZER INSTALLATION

INSTALLATION MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN/REFRIGERATION SPECIALIST. INCORRECT INSTALLATION WILL VOID THE WARRANTY, AND MAY CAUSE SE-VERE DAMAGE TO THE MACHINE. MAY CAUSE PERSONAL INJURY.

Installation of the freezer involves moving the freezer close to its permanent location, removing all crating, setting in place, assembling parts, and cleaning.

- A. Uncrate the freezer.
- B. Install the four casters. Turn the threaded end into the freezer until zero threads are showing. To level, turn out casters no more than 1/4" maximum, then tighten all jam nuts.
- C. The freezer must be placed in a solid level position.

NOTE

Accurate leveling is necessary for correct drainage of freezer barrel and to insure correct overrun.

D. The freezer must have a minimum of 3" (7,5cm)
 -6" (15cm) high ambient conditions- of space on all sides and 10" (25cm) at the top for proper circulation.

FAILURE TO PROVIDE ADEQUATE VENTILA-TION WILL VOID WARRANTY!

E. Water-cooled freezers need an adequate water supply. Install 1/2" (12,7mm) pipe or 1/2" (12,7mm) inside diameter copper water line to the freezer. Connect water outlet to a drain using a 1/2" (12,7mm) inside diameter line. Automatic washer hoses work well for final connections. All water connections must comply with local codes. Fig. 4.

FLUSH ALL WATER LINES BEFORE INSTALLA-TION. IN STORES WITH SEDIMENT IN WATER, ADD SUITABLE FILTER OR STRAINER TO WATER INLET.

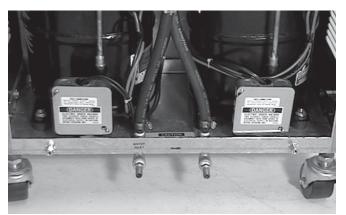


Figure 4. Water/Electrical Connections

F. Place the CLEAN-OFF-SERVE switches in the OFF position before continuing. Figure 11.

2.4 INSTALLING PERMANENT WIRING

Permanent wiring is required by local codes, the following procedure must be performed:

A. Refer to the nameplate at the rear of the freezer for specific electrical requirements. Make sure the power source in the building matches the freezer nameplate requirements. Bring the wires into the junction boxes through the access holes in the bottom rear of the freezer. Figure 4.

NOTE

Three phase freezers in areas of unbalanced electrical loads require special attention when connecting input electrical power. The unbalanced leg of power (called wild or high) must be connected to L2 in the junction box.

- B. Remove the lower back panel and the two junction box covers located at the bottom of the freezer.
- C. Install permanent wiring according to local code.
- D. Check the auger shaft rotation by placing the MAIN DRIVE switch in the CLEAN position. Auger shaft rotation is clockwise as viewed through the clear plastic front door. If the rotation is not clockwise, turn main electrical power OFF. Then reverse L1 and L3 electrical power lines to the junction box (three phase only). Re-check auger shaft rotation. Figure 5.

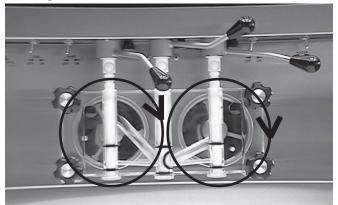


Figure 5. Auger Rotation

2.5 MIX PUMP

- A. Mix Pump Hose Installation Follow the steps below to install the mix pump hose.
 - 1. Turn pump on.
 - 2. Feed one end of mix pump hose into the entering or pick-up hose side (left) of black cover.
 - 3. Gently push the hose into the black cover until it begins to feed.

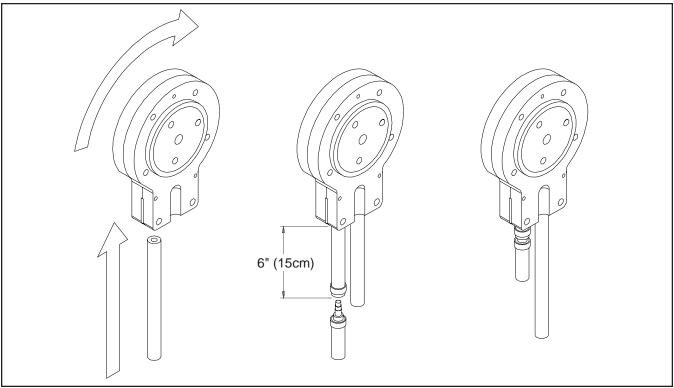


Figure 6. Mix Hose Installation

- 4. Allow the hose to feed itself thru the pump until 6" (15cm) remains on the entering side.
- 5. Turn pump off.
- 6. Connect mix pump hose to pickup hose adapter using small hose clamp.

DO NOT TWIST MIX PUMP HOSE.

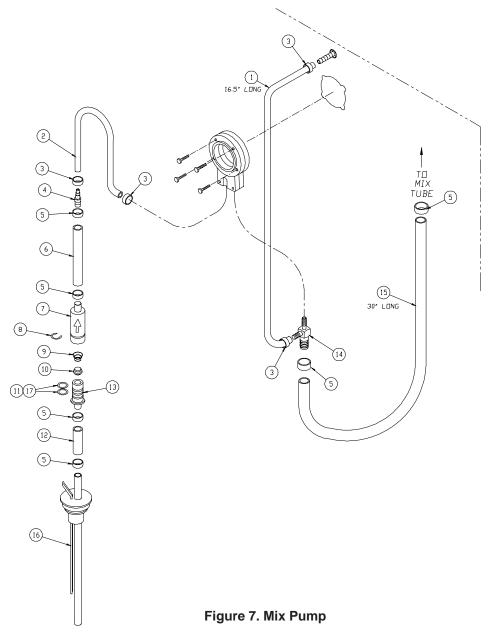
- 7. Turn pump on.
- 8. Allow remaining 6" (15cm) of tubing to feed thru pump until hose adapter prevents further feeding.
- 9. Turn pump off.
- 10.Connect free end of mix pump hose to 3-way Tee as shown in Figure 7. When all connections are complete the 3- way Tee must be lower than the black pump housing. Figure 8.

ITEM	STDELTING PN	QTY	DESCRIPTION
1	756067	33.5″	TUBING PLASTIC 1/4IDX7/16DD
2	756204-40	5	TUBING NORPRENE FOOD .25 ID X 40.0" LG
3	264235	8	CLAMP HOSE 3-8/9-16 MIN/MAX D
4	375867	5	FITTING UNION 1/4"X1/2" BARBED
5	264241	12	CLAMP HOSE 9/16 TO 13/16 STEEL
6	756088-26	5	TUBING PLASTIC 1/2IDX3/40D X 26.0" LG
7	1172864	5	VALVE BODY - OUTER
8	696152	5	LOCK CLIP FOR VALVE
9	694247	5	SPRING COMP 13/16X3/8X3/4
10	762256	2	VALVE DUTLET CHECK (MOLDED)
11	624607	4	RING 🛛 11/16X7/8X3/32 SPECIAL
12	756088-02	2	TUBING PLASTIC 1/2IDX3/40D X 2.0" LG
13	1151965	5	VALVE BODY - INNER
14	376041	2	TEE, 3-WAY, S'STL, AIR/MIX
15	756088-30	2	TUBING PLASTIC 1/2IDX3/40D X 30.0" LG
16	2177272	2	MIX PICKUP & PROBE ASSY
17	508135	AS REQ	LUBRICANT, PETRO-GEL 40Z.TUBES

- B. Connect 1/2 inch (12,7mm) I.D. plastic food grade tubing to mix check valve (Item 7) and then to the mix container. Observe check valve flow arrow. Secure with hose clamps. Then place assembly thru hole in cover and install retainer clip. See Figure 9.
- C. Connect 1/2 inch (12,7mm) I.D. plastic food grade tubing between the large port of air/mix tee and refrigerated mix transfer line. Secure with large hose clamp or equivalent. See Figure 9.

AIR/MIX TEE MUST REMAIN BELOW THE BLACK COVER/CLAMP. IF THE TEE IS ABOVE THE PUMP MIX WILL DRAIN TO THE AIR COMPRESSOR RESULTING IN PUMP DAMAGE.

D. Connect mix low cords. Figure 9.



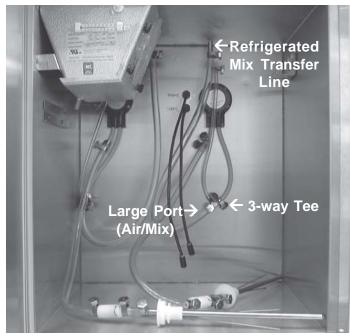


Figure 8. 3-way Tee

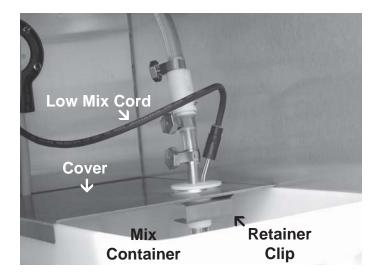


Figure 9. Mix Inlet Tube & Probe Assy. Clip



Figure 10. Hose Holder

SECTION 3 INITIAL SET-UP AND OPERATION

3.1 SAFETY PRECAUTIONS

SAFE OPERATION IS NO ACCIDENT; observe these rules:

- A. Know the freezer. Read and understand the operating instructions.
- B. Notice all warning labels on the freezer.
- **C.** Wear proper clothing. Avoid loose fitting garments, and remove watches, rings or jewelry which could cause a serious accident.
- **D.** Maintain a clean work area. Avoid accidents by cleaning the area and keeping it clean.
- E. Stay alert at all times. Know which switch, push button or control you are about to use and what effect it is going to have.
- F. Disconnect electrical power for maintenance. Never attempt to repair or perform maintenance on the freezer until the main electrical power has been disconnected.
- G. Do not operate under unsafe operating conditions. Never operate this freezer if unusual or excessive noise or vibration occurs.

3.2 OPERATING CONTROLS AND INDICATORS

Before operating the freezer, it is required that the operator know the function of each operating control. Refer to Figure 11 for the location of the operating controls on the freezer.

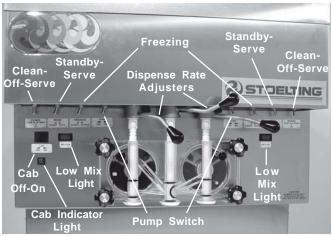


Figure 11. Operating Controls



The CLEAN-OFF-SERVE switch must be placed in the <u>OFF</u> position when disassembling for cleaning or servicing. The freezer must be disconnected from electrical supply before removing any access panel.

A. Spigot Switch

When the spigot handle is opened the SPIGOT switch will start the auger drive and refrigeration systems. When the spigot handle is closed, the drive

B. Clean-Off-Serve Switch

The CLEAN-OFF-SERVE switch is a three position toggle switch used to control the operation of the refrigeration system and auger. When the switch is placed in the CLEAN position, the refrigeration system will be off and auger **will** rotate for cleaning.

When the switch is placed in the OFF position, the refrigeration system and auger **will not** operate.

When the switch is placed in the SERVE position, the refrigeration system and auger **will** operate automatically. The switch should be placed in the SERVE position for normal operation.

C. Cabinet-Off-On Switch

The CABINET-OFF-ON switch is a two position toggle switch. When the switch is placed in the OFF position, the lower cabinet refrigeration system **will not** run. When the switch is placed in the ON position, the lower cabinet refrigeration system **will** run until the preset temperature is reached; then cycle ON and OFF to maintain that temperature.

D. Cab Indicator Light

A flashing light indicates the cab OFF-ON switch is in the OFF position, no refrigeration. Place the OFF-ON switch in the ON position for cab refrigeration.

E. Pump Switch

The pump motor switch is a two position toggle switch. When the switch is placed in the OFF position, the pump **will not** run. When the switch is placed in the ON position, the pump **will** run until the preset pressure is reached, then cycle ON and OFF as product is drawn to maintain that pressure.

F. Standby/Serve Switch

The standby/serve switch is a two position toggle switch. When the switch is placed in the Standby position the freezer will cycle to maintain a temperature below 41°F. When the switch is in the Serve position the freezer will cycle to maintain a servable product.

G. Freezing Switch

The freezing switch is a two position toggle switch. When the switch is placed in the ON position the freezer will be forced to run 30 seconds after the temperature control is satisfied.

H. Dispense Rate Adjusters

The dispense rate adjuster limits the opening of the spigot. To adjust product dispense rate, turn the adjusting knob clockwise for slower flow and counter-clockwise for faster flow.

I. High Head Pressure Cut Out

If the head pressure exceeds 445 PSIG (28 bar) air cooled and water cooled, the high head pressure cutout will trip. The reset button can be accessed from the side of the freezer.

J. Low Mix Light

The low mix light will illuminate when the liquid level in the mix container drops below two gallons.

K. Front Door Safety Switch

The front door safety switch prevents the auger from turning when the front door is removed. The switch is open when the door is removed and closed when the door is properly installed.

3.3 IMPORTANT INFORMATION REGARDING CLEANING AND SANITIZING

Soft serve and shake freezers require special consideration when it comes to food safety and proper cleaning and sanitizing.

The following information specifically covers issues for cleaning and sanitizing frozen dessert freezers. This information is meant to *supplement* a comprehensive food safety program.

Soil Materials Associated with Frozen Dessert Machines

MILKFAT/BUTTERFAT – As components of icecream/frozen custard mix, these soils will accumulate on the interior surfaces of the machine and its parts. Fats are difficult to remove and help attribute to milkstone build-up.

MILKSTONE – Is a white/gray film that forms on equipment and utensils that come in contact with dairy products. These films will accumulate slowly on surfaces because of ineffective cleaning, use of hard water, or both. **Milkstone is usually a porous deposit, which will harbor microbial contaminants and eventually defy sanitizing** *efforts.*

Once milkstone has formed, it is very difficult to remove. Without using the correct product and procedure, it is nearly impossible to remove a thick layer of milkstone.

(NOTE: general-purpose cleaners DO NOT remove milkstone.) *This can lead to high bacteria counts and a food safety dilemma.*

IT IS BEST TO CONTROL MILKSTONE ON A DAILY BASIS BEFORE IT CAN BECOME A SIGNIFICANT FOOD SAFETY PROBLEM.

In addition to food safety, milkstone can cause premature wear to machine parts which can add to costs for replacement parts or possibly more expensive repairs if worn machine parts are not replaced once they have become excessively worn.

Important Differences Between Cleaning and Sanitizing

CLEANING vs. SANITIZING

It is important to distinguish between cleaning and sanitizing. Although these terms may sound synonymous, they are not. BOTH are required for adequate food safety and proper machine maintenance.

CLEANING

- · Is the removal of soil materials from a surface.
- · Is a prerequisite for effective sanitizing.

NOTE

An UNCLEAN surface will harbor bacteria that can defy sanitizing efforts.

Bacteria can develop and resist sanitizing efforts within a layer of soil material (milkstone). *Thorough cleaning procedures that involve milkstone removal are critical for operators of frozen dessert machines.*

SANITIZING

- · Kills bacteria.
- Can be effective on clean surfaces only.
- DOES NOT clean or remove milkstone.

NOTE

Using a SANTITIZER on an unclean surface will not guarantee a clean and safe frozen dessert machine.

Proper Daily Maintenance: The Only Way to Assure Food Safety and Product Quality

Proper daily maintenance can involve a wide variety of products and procedures. Overall, the products and procedures fall into three separate categories. (Please note that this is a brief overview intended for informational purposes only.)

- 1. CLEANING This involves draining mix from the freezer barrel and rinsing the machine with water. Next, a cleaner is run through the machine. Then, the machine is disassembled and removable parts are taken to the sink for cleaning.
- 2. MILKSTONE REMOVAL Since almost all cleaners do not have the ability to remove milkstone, the use of a delimer becomes necessary. Although this procedure may not be needed on a daily basis, it will usually follow the cleaning procedure. It requires letting a delimer solution soak in the machine for an extended period of time. Individual parts are also soaked in a deliming solution for an extended period of time (more about delimers in Additional Information).
- 3. SANITIZING After the machine has been cleaned and contains no milkstone, the machine is reassembled. Then a FDA-approved sanitizing solution is run through the machine to kill bacteria. The machine is then ready for food preparation.

As a recommended cleaner and sanitizer for your frozen dessert machine, STERA-SHEEN has proven to be one of the best daily maintenance products for:

- **CLEANING** Thorough removal of all solids including butterfat and milk fat.
- MILKSTONE REMOVAL Complete removal of milkstone.
- **SANITIZING** FDA-approved no rinse sanitizer for food contact surfaces.

Additional Information

THE USE OF DELIMERS

A delimer is a strong acid that has the ability to dissolve milkstone. This type of chemical may become necessary once high levels of milkstone have developed. While these products are very effective for removing HIGH levels of milkstone, they are not ideal for two reasons:

- 1. **PRODUCT SAFETY** Strong acids are dangerous chemicals and handling them requires safety
- 2. MACHINE DAMAGE Strong acids will attack metal and rubber causing premature wear of parts. The use of a delimer needs to be closely monitored to avoid damage to machine surfaces and parts.

With proper daily use of STERA-SHEEN or it's equivalent, there is <u>no need</u> for the use of a DELIMER.

DONOTUSE BLEACH

- BLEACH HAS ABSOLUTELY NO CLEANING PROPERTIES.
- BLEACH IS CORROSIVE. It can and will damage components of the machine causing premature wear and metal corrosion.

GENERAL PURPOSE CLEANERS

General purpose cleaners **do not** have the ability to remove milkstone. Milkstone will become a problem *if not remedied* with additional products and procedures.

THE USE OF CHLORINE TEST STRIPS

"Test strips" are used to determine concentrations of active chlorine in sanitizing solutions. To use the strips, tear off a small portion and submerge it into the sanitizing solution. Then, compare the color change to the color key on the side of the test strip dispenser to determine the approximate chlorine concentration. The ideal concentration of chlorine needs to be 100 ppm (as stated by the FDA).

NOTE

Follow the directions on the container for proper concentration.

There are two main factors that contribute to falling chlorine concentrations in a sanitizing solution.

- 1. **PRODUCT USE** As the chlorine in the solution is being used, chlorine concentrations fall.
- 2. TIME As time passes, small amounts of chlorine "evaporate" from the solution. (That is why you can smell it.)

Sanitizing solutions *should not* be allowed to fall below 100 ppm chlorine. New solutions should be mixed once old solutions become ineffective.

3.4 DISASSEMBLY OF FREEZER PARTS

Moving machinery can grab, mangle and dismember. Place the CLEAN-OFF-SERVE toggle switch in the OFF position before disassembling for cleaning or servicing. Placing the CLEAN-OFF-SERVE toggle switch in the SERVE position during cleaning or servicing may result in serious personal injury.

Before using the freezer for the first time, complete freezer disassembly, cleaning and sanitizing procedures will need to be followed. Routine cleaning intervals and procedures must comply with the local and state health codes. Inspection for worn or broken parts should be made at every disassembly of the freezer for cleaning or other purposes. All worn or broken parts should be replaced to ensure safety to both the operator and the customer and to maintain good freezer performance and a quality product. Two normal wear areas are the auger flights and front auger support bushing (see Figure 12).

To disassemble the freezer, refer to the following steps:



Figure 12. Auger Flight Wear & Front Auger Support Bushing Wear

A. Disassembly Of Front Door

- 1. Remove the front door by turning off the circular knobs and then pulling the front door off the studs.
- 2. Remove the air bleed valve by unscrewing the knob while holding the valve stem from behind. Remove the compression spring and push air bleed valve through the rear of the front door.
- 3. Remove the spigot through the bottom of the front door (see Figure 13). Remove all O-rings from spigots and air bleed valve.

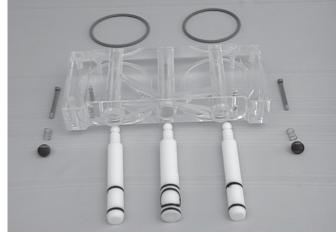


Figure 13. Front Door Disassembly B. Disassembly Of Auger

- 1. Remove the front auger support by pulling it straight out of the freezer barrel.
- 2. Remove the plastic bearing from the front auger support.
- 3. Remove the auger by pulling slowly and rotating out of the freezer barrel. As the auger is withdrawn, remove each plastic flight and spring from the auger. Be careful not to scratch inside of freezer barrel when removing flights or auger. Remove the spring from each auger flight.



Figure 14. Auger Flight Removal

- 4. Keep the rear of the auger tipped up once it is clear of the freezer barrel.
 - 5. Wipe spline lubricant off hex end of auger with a paper towel. Remove the rear seal. Figure 15.

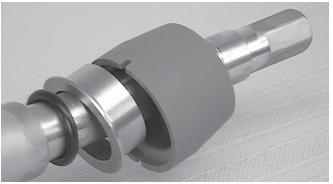


Figure 15. Rear Seal Removal

3.5 CLEANING DISASSEMBLED PARTS

Disassembled freezer parts require complete cleaning, sanitizing and air drying before assembling. Local and state health codes will dictate the procedure required. Some state health codes require a four sink process (prewash, wash, rinse, sanitize, air dry), while others require a three sink process (without the pre-wash step). The following procedures are a general guideline only. Consult your local and state health codes for procedures required in your location.

- A. To clean the freezer parts, disassemble all parts. (Refer to section 3.4 for the disassembly of freezer parts.)
- B. Place all front door and auger parts in clean 90° to 110°F (32°C to 43°C) water and wash thoroughly (four sink procedure only).
- C. Place all parts in 90° to 110°F (32°C to 43°C), mild detergent water and wash thoroughly.
- D. Rinse all parts with clean 90° to 110°F (32°C to 43°C) water.
- F. Sanitize all freezer parts following procedures out lined below.

3.6 SANITIZE FREEZER PARTS

- A. Use a sanitizer mixed according to manufacturer's instructions to provide a 100 parts per million strength solution. Mix sanitizer in quantities of no less than 2 gallons of 90° to 110°F (32°C to 43°C) water. Allow the sanitizer to contact the surfaces to be sanitized for 5 minutes. Any sanitizer must be used only in accordance with the manufacturer's instructions.
- B. Place all parts in the sanitizing solution for 5 minutes, then remove and let air dry completely before assem bling in freezer.

CAUTION

Risk of Product Damage

Do not use acid cleaners, strong caustic compounds or abrasive materials to clean any part of the freezer exterior or plastic parts.

The exterior should be kept clean at all times to preserve the lustre of the stainless steel. A good grade of stainless steel has been used on the freezer to ease clean-up. To remove spilled or dried mix, simply wash the exterior in 90° to 110°F (32°C to 43°C), soapy water and wipe dry.

Do not use highly abrasive materials as they will mar the finish. A mild alkaline cleaner is recommended. Use a soft cloth or sponge to apply the cleaner. For best results, wipe in the direction of the grain of the steel.

- A. Clean the rear seal surface from inside of the freezer barrel.
- B. Using this sanitizing solution and the large barrel brush provided, sanitize the barrel by dipping the brush in the sanitizing solution and brushing the inside of the barrel.
- C. Remove the rear drip tray by pulling from side panel. Clean and replace drip tray.

3.8 ASSEMBLING FREEZER

To assemble the freezer parts, refer to the following steps:

NOTICE

Petro-Gel sanitary lubricant or equivalent must be used when lubrication of freezer parts is specified.

NOTICE

The United States Department of Agriculture and the Food and Drug Administration require that lubricants used on food processing equipment be certified for this use. Use Lubricants only in accordance with the manufacturer's instructions.

- A. Assemble all O-rings onto parts dry, **without lubrication**. Then apply a thin film of sanitary lubrication to exposed surfaces of the O-rings.
- B. Lubricate rear seal area on auger shaft with a thin layer of sanitary lubricant. Install the rear seal O-ring. Lubricate outside of rear seal O-ring with sanitary lubricant.
- C. Install stainless steel rear seal adapter into rear seal dry (without lubricant). Lubricate inside surface of rear seal adapter and install onto auger shaft. DO NOT lubricate outside of rear auger seal (see Figure 16).



Figure 16. Rear Seal Lubrciation

- C. Lubricate the hex drive **end** of auger with a small amount of white socket lubricant. A small container of socket lubricant is shipped with the freezer.
- D. Screw the springs onto the studs in plastic flights. Spring must be screwed into the flights completely to provide proper tension (see Figure 17).



Figure 17. Spring Installation

- E. Install first flights to bottom of auger, rotate, add successive flights from bottom as the auger is pushed slowly into the freezer barrel. Carefully engage auger with drive socket in speed reducer by rotating auger slowly and pushing on end of auger.
- F. Apply a thin film of sanitary lubricant to the inside and outside of the front auger support bearing, then place on the front of the auger. Assemble the front auger support onto the auger bearing.

NOTICE

Position the front support on auger so legs do not interfere with the pin on the back of the front door assembly. Front door must push auger in slightly when it is being tightened to prevent the rear seal from leaking.

- G. Assemble O-rings onto the spigot dry, without lubrication. Then apply a thin film of sanitary lubricant to the outside of the O-rings and spigot bodies.
- H. Install the spigots through the bottom of the front door (see Figure 18).

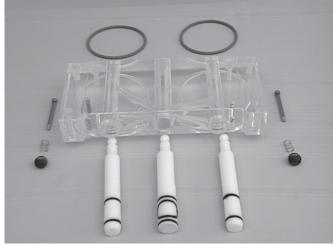


Figure 18. Front Door Assembly

- I. Assemble the air bleed valve O-ring onto the air bleed valves. Position the O-ring in groove close to the wide part. Apply a thin film of sanitary lubricant to the O-rings.
- J. Insert the air bleed valves from the back of the front door. Install compression springs onto air bleed valves, then screw knobs on finger tight.
- K. Apply a thin film of sanitary lubricant to the door seal O-rings, and fit into the grooves on the rear of the front door.
- L. Place the front door assembly on the mounting studs and push front door against the freezer carefully.
- M. Secure front door assembly by placing the knobs on the studs and alternately tighten opposite corners until **finger tight only**. Do **not** overtighten. Proper O-ring seal can be observed through the transparent front door.
- N. Move the spigot handles to the closed position.

3.9 SANITIZING

Sanitizing must be done after the freezer is clean and just before the freezer is filled with mix. **Sanitizing the night before is not effective.** However, you should always clean the freezer and parts after using it.

The United States Department of Agriculture and the Food and Drug Administration require that all cleaning and sanitizing solutions used with food processing equipment be certified for this use.

When sanitizing the freezer, refer to local sanitary regulations for applicable codes and recommended sanitizing products and procedures. The frequency of sanitizing must comply with local health regulations. Mix sanitizer according to manufacturer's instructions to provide a 100 parts per million strength solution. Mix sanitizer in quantities of no less than 2 gallons of 90°F to 110°F 90° to 110°F (32°C to 43°C) water. Allow sanitizer to contact the surfaces to be sanitized for 5 minutes. Any sanitizer must be used only in accordance with the manufacturer's instructions.

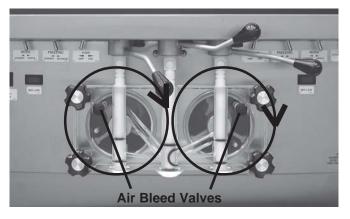


Figure 19. Air Bleed Valves

CAUTION

Risk of Product Damage

Avoid prolonged contact of sanitizer with freezer parts. Prolonged contact of sanitizer with freezer may cause corrosion of stainless steel parts.

- A. Prepare 3 gallons of sanitizing solution following manufacturer's instructions, and pour into storage container.
- B. Place the mix pump switch in the ON position and open air bleed valve on the front door by pushing valve in and holding (see Figure 19).

- C. Let sanitizing solution fill the freezer barrel to air bleed valve, then close the valve by pulling out to lock in place.
- D. Place the CLEAN-OFF-SERVE toggle switch in the ON position while pressing the CLEAN switch.



Figure 20. Draining Sanitizer

- E. Check for leaks when the freezer barrel is first pressurized with sanitizing solution.
 - 1. Check for leaks at the plastic front door, the O-rings may not be sealed.
 - 2. Check the drain located at the center of the Drip Tray for leaks coming from the rear of the Rear Auger Seal.
 - 3. Check inside cab unit for leaks at hose connections.
- F. Using a sanitized soft bristle brush or equivalent, dipped in sanitizing solution, clean mix container.
- G. After five minutes, open spigot to expel sanitizing solution. Drain all solution from freezer using all three spigots (See Figure 20).
- H. Close the spigot and place the mix pump switch and the CLEAN-OFF-SERVE switch in the OFF position.

The freezer is now sanitized and ready for adding mix.

3.10 INITIAL FREEZE DOWN AND OPERATION

This section covers the recommended operating procedures to be followed for the safe operation of the freezer.

- A. Sanitize just prior to use according to instructions outlined in this manual.
- B. Prepare the desired amount of mix and then fill each storage container with approximately 3 gallons or more of mix. Place a container(s) of mix in the refrigerated cabinet. If drawing from a storage container, place the draw tube through the cover to the bottom of the container. If drawing from a bag in a box, remove the cap, push out all of the air, and insert the adaptor.

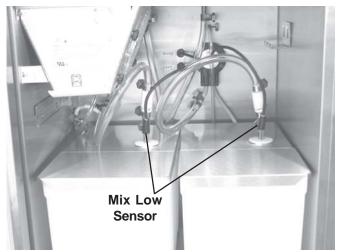


Figure 21. Refrigerated Cabinet

- C. Place the mix pump switch in the ON position. The mix pump switch is located in the upper left hand corner, inside the refrigerated cabinet. Immediately open the spigot and let approximately 8 ounces of liquid mix with sanitizing solution drain out of the spigot.
- D. Close the spigot and open the air bleed valve on the front door by pushing the valve in and holding. Allow the barrel to fill until the mix level is 1/2" (2.7 cm) below air bleed valve, then release valve and pull closed to lock in place.
- E. Start the compressor and drive by placing the CLEAN-OFF-SERVE switch in the SERVE position
- F. The product will be ready to serve after the compressor and drive have cycled off, or in approximately
- 12 minutes.
- G. The refrigeration is automatically actuated when the spigot is opened. For normal dispensing, open the spigot no more then 90°. (This is when the handle knob is pointed directly away from the front door.). This position provides excellent control over the product and aids in making desired shaped portions. Spigot Rate Adjusters are located under the Header Panel, to the immediate right of each Spigot Handle. Turning the Spigot Rate Adjuster clockwise will increase the dispense rate. (see Figure 22)

The freezer is designed to dispense the product at a reasonable draw rate. If the freezer is overdrawn, the result will be a soft product and air pops. If this should occur, allow the freezer to run for approximately 30 seconds before dispensing additional product. After a while the operator will sense or feel when the freezer is beginning to fall behind, and will slow down on the rate of draw so as not to exceed the freezer's capacity.

Do not operate the freezer when the MIX LOW light is on or with less than 1-3/4" (4.4 cm) of mix in the mix container. Refill the mix container immediately.

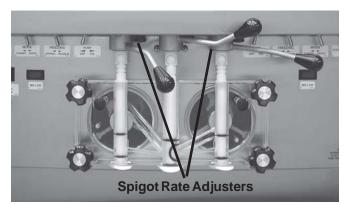


Figure 22. Dispensing Product

3.11 MIX INFORMATION

Mix can vary considerably from one manufacturer to another. Differences in the amount of butter-fat content and quantity and quality of other ingredients have a direct bearing on the finished frozen product. A change in freezer performance that cannot be explained by a technical problem may be related to the mix.

Proper product serving temperature varies from one manufacturer's mix to another. Mixes should provide a satisfactory product in the 17° to 20°F (-7° to -6°C) range. Diet and low-carb mixes typically freeze to proper consistency at higher temperatures.

When checking the temperature, stir the thermometer in the frozen product to read the true temperature.

Mix does not improve with age. Old mix, or mix that has been stored at too high a temperature, can result in a finished product that is less than satisfactory from the appearance and taste standpoint. To retard bacteria growth in dairy based mixes, the best storage temperature range is between 36° to 40°F (2.2° to 4.4° C).

3.12 OPERATION OF MIX PUMP

The pump switch is located on the front of the freezer. When the pump switch is placed in the ON position, the mix pump motor will be actuated to pump mix into the freezer cylinder. When the set pressure is reached, the mix pump will shut off automatically. When the switch is placed in the OFF position, the mix pump will be inoperative.

NOTE

The mix pump motor is equipped with an internal overload that will "trip", disabling the pump when the motor is overloaded. Consult the trouble shooting section for corrective information. The internal overload will automatically reset after cooling. If the condition continues, contact a qualified service person.

CAUTION

Risk of Product Damage

Mix pump hose must be repositioned every 1 -2 weeks or 60 hours of operation. Failure to comply will result in reduced mix pump liquid capacity, dispense stoppage, popping, and possible mix pump hose leakage. Hose leakage may damage the pump roller assembly and void the factory warranty.

- A. Mix Operation: The peristaltic mix pump contains one continuous mix pump hose. When looking at the face of the peristaltic mix pump, the left side of the hose is the suction or pickup. The right side of the hose is the discharge. Mix is drawn up the suction side of the hose and transferred thru the discharge side to the freezer (see Figure 23).
- B. Air Operation: The air compressor operates whenever the peristaltic mix pump is running. Air enters thru a check valve on the piston downstroke. The air is discharged thru a second check valve, on the piston upstroke. The air and mix join at the tee and then travel to the freezer.

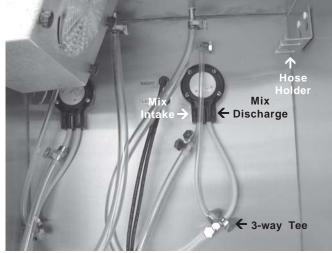


Figure 23. Mix Pumps

C. The over-run adjustment is preset at the factory. If an adjustment becomes necessary, refer to Section 4.

NOTICE

Any cleaning procedure must always be followed by sanitizing before filling freezer with mix. (Refer to section 3.3)

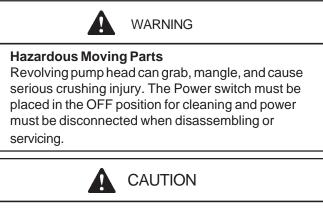
3.13 MIX PUMP CLEANING

The mix pump is approved for CIP (clean in place) and is thoroughly cleaned as cleaning solutions are pumped thru the freezer. We recommend completely disassembling the pump and connecting tubing every 14 days for inspection of parts to confirm the CIP has been properly performed. If any residue is detected clean or replace those parts as outlined below.

- 1. Place CLEAN-OFF-SERVE switch in CLEAN position. Allow the auger to agitate for 5 to 10 minutes.
- 2. Remove suction tube from mix container. Draw off the mix remaining in freezer barrel.
- 3. Pump 2 gallons (7.5 liters) of cold potable water thru freezer until water at spigot is free of mix.
- 4. Pump 2 gallons (7.5 liters) of 90° to 110°F (32°C to 43°C) detergent solution water thru freezer. The use of soft water is recommended, along with dishwashing detergents such as "Joy," "Dawn," or equivalent.
- 5. Place mix pump switch in OFF position. Open spigot to relieve remaining pressure.
- 6. Place CLEAN-OFF-SERVE switch in OFF position.

3.14 DISASSEMBLY AND INSPECTION OF REMOVABLE PARTS

Inspection of removable parts should be made whenever maintenance is performed or pump requires disassembly.



System Under Pressure

Never disconnect hoses from freezer or pump without first opening spigot to relieve pressure.

NOTE

If the mix lines or air line is difficult to remove, soften with a rag soaked in hot water. Hose connections may be sprayed with Haynes Sanitary Lubricant for ease of removal. Do not loosen or remove the mix pump cover wingnuts. Maintain the mix pump hose in its operational condition.

- 1. Loosen clamp and remove air hose from pump compressor.
- 2. Loosen clamp and disconnect mix pump hose. Remove the pickup hose, mix check valve and pickup hose adapter (and bag adapter if applicable) as an assembly from mix container.
- Completely disassemble both hose assemblies and check valve. Place hoses, tee, check valve assembly, and pickup hose adapter in 90° to 110°F (32°C to 43°C), mild detergent water and wash thoroughly. Use soft bristle brushes to clean inside of fittings. Rinse all parts in clean 90° to 110°F (32°C to 43°C) water (see Figure 24).
- 4. Carefully inspect each part for wear or damage. Replace worn or damaged parts.
- Wash feed tube and air tube with 90° to 110°F detergent water and brushes provided. Rinse with clean, 90° to 110°F water (See Figure 25 and 26).
- 6. Prepare two gallons (7.5 liters) of sanitizing solution using a USDA certified grade sanitizing solution. Sanitize all removed parts, then air dry.
- 7. Check Hose Service Record decal to determine if hose reposition or replacement is required at this time.
- 8. Reassemble both hose assemblies per the diagram located on the inside of the cab door. Reconnect assemblies to the pump and discharge hose, using the clamps. (See Figure 27 or refer to Section 2.5 Mix Pump).



Figure 24. Removable Parts

9. Sanitize assembled freezer as per instructions outlined in Section 3.9).

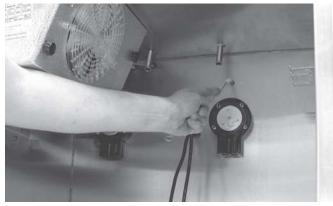


Figure 25. Cleaning Air Tube



Figure 26. Cleaning Feed Tube

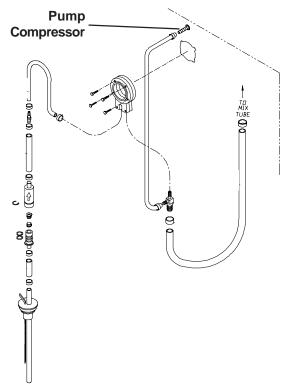


Figure 27. Mix Pump Tube Routing

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SECTION 4 MAINTENANCE INSTRUCTIONS

4.1 FREEZER ADJUSTMENT

This section is intended to provide maintenance personnel with a general understanding of the freezer adjustments. It is recommended that any adjustments in this section be made by a qualified person.

4.2 PRODUCT TEMPERATURE ADJUSTMENT

A potentiometer is used to control the product temperature. To change the temperature of the product, follow the steps below:

- A. Loosen the two screws under the header display sign, then pull sign out and down.
- B. Use a screw driver to make desired adjustment. A label near the potentiometer will give complete instructions. Figure 28.

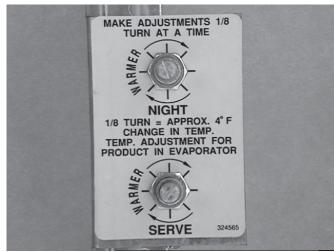


Figure 28. Potentiometer

4.3 OVERRUN ADJUSTMENT

The product when served is a combination of air and mix. Overrun is a measure of the amount of air blended into the mix.

Overrun can be expressed in terms of the amount of weight loss for a given volume. For example, if a pint of liquid mix weighs 18 ounces (510 grams) and a pint of frozen product with air added weighs 12 ounces (340 grams), the overrun is said to be 50 percent "18 oz. (510 grams) - 12 oz. (340 grams) = 6 oz. (170 grams)", (6/12) x 100 = 50%.

The overrun can be checked by placing a one pint container on an ice cream scale and zeroing out the scale. Then fill a one pint container with frozen product. The container should be filled over the top and leveled with a straightedge. The product should not contain any air pockets. When weighed on an ice cream scale, one pint (473 milliliters) of product should weigh 12 to 13 ounces (340 to 368,5 grams).

The mix pump has been preset at the factory to produce a product with approximately 40% overrun. Because of differences in mix formulation, temperatures and barometric pressure, this figure may vary. It will be necessary for approximately 2 gallons (7,5 liters) of mix to be pumped thru the freezer before changes in the product are noticeable due to adjustments in overrun.

Overrun is controlled by the length of the air compressor piston stroke within the piston cylinder. Lengthening the stroke within the cylinder will increase overrun. Conversely, shortening the stroke will decrease overrun. To perform an overrun adjustment, refer to the following procedure:

- A. Turn the mix pump switch to the OFF position. Disconnect both power sources/circuit breakers.
- B. Remove the lower back panel from freezer.
- C. On air compressor side of pump, locate the long/ slender piston rocking arm. The rocking arm downward travel is limited by a stationery cam. On the face of the cam there is an overrun setting indicator plate numbered 3 thru 8 and an adjustment knob. Figure 29.

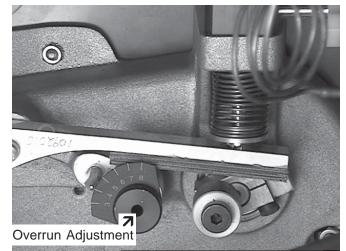


Figure 29. Overrun Adjustment

- D. The overrun setting is indicated by a pointed pin.
- E. To adjust overrun, loosen the allenhead screw (located within the center of the adjustment knob) with the 5/32" (4mm) allen wrench provided. Rotate the adjustment knob counterclockwise to a higher number for higher overrun, or clockwise to a lower number for lower overrun. Each number multiplied by 10 represents the overrun percentage (ie: #4 = 40% overrun).

F. Tighten the allen screw, then place the wrench back in its clip. Replace the lower back panel and secure with the four screws. Turn the mix pump power switch to the ON position.

4.4. MIX PUMP HOSE REPOSITION (every one or two weeks.)

NOTE

Mix pump hose must be repositioned every 1 - 2 weeks. Failure to comply will result in reduced mix pump liquid capacity, dispense stoppage, popping, and possible mix pump hose leakage.

- 1. Run cleaning solution through pump.
- 2. Turn pump off and relieve any pressure by opening the spigot.
- Grasp the pick-up hose end of the mix pump hose with one hand and turn the pump on. Pull down on the pick-up hose end until 12 to 14" (30-1/2 to 35-1/2cm) of tubing has reverse fed through the pump, then turn the pump off.
- 4. Loosen small clamp at the pick-up hose adapter and (Viewed from Back) disconnect mix pump hose.
- 5. Cut 7-1/2" (19 cm) off the end of the mix pump hose.
- 6. Reconnect mix pump hose to adapter.
- 7. Continue normal operation. Mix hose will automatically reposition itself with adapter near black cover.

NOTE

Each hose is long enough for 3 repositions before replacement is required. Record each event on Hose Service Record decal.

4.5 MIX PUMP HOSE REPLACEMENT

NOTE

Mix pump hose must be replaced when tubing cannot be further repositioned (every four to eight weeks). Failure to comply will result in hose failure and possible pump damage.

- 1. Run cleaning solution through pump.
- 2. Turn pump off and relieve any pressure by opening the spigot.

WARNING THE MIX PUMP SWITCH MUST BE IN THE "OFF" POSITION WHEN SERVICING OR CLEANING PUMP.



NEVER DISCONNECT HOSES FROM FREEZER OR PUMP WITHOUT FIRST OPENING SPIGOT TO RELIEVE PRESSURE.

- 3. Disconnect mix pump hose at each end.
- 4. Grasp the discharge hose end with one hand and turn the pump on. Pull down on the hose until all of the remaining hose is removed from the pump.
- 5. Connect new mix pump hose to pick-up hose adapter, using small clamp.
- 6. Insert free end of hose into the pick-up (suction side) hose side of the black cover. Gently push the hose into the black cover until it begins to self-feed. Allow the hose to feed itself through the pump until the pick-up hose adapter prevents further feeding, then turn the pump off.
- 7. Reconnect mix pump hose to T using small clamp. Pump is now ready to sanitize.

4.6 CAB TEMPERATURE ADJUSTMENT

A temperature control is used to control cab temperature. To change the temperature, disconnect electrical power and then follow the steps below:

- A. Remove the six screws holding the left side panel and remove panel.
- B. Use a small screwdriver to adjust the temperature control. Turn counterclockwise for a warmer temperature and clockwise for a colder temperature. It will take about an hour for the cab temperature to change. Figure 30.

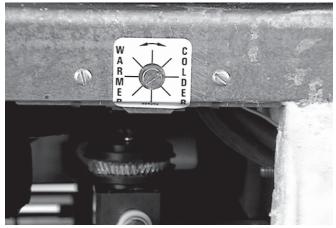


Figure 30. Temperature Control Cab

C. Install side panel and secure with the six retaining screws.

4.7 DRIVE BELT TENSION ADJUSTMENT

To check belt tension, refer to Figure 29 and follow the steps below:

<u>/!</u> WARNING DISCONNECT ELECTRICAL SUPPLY TO FREEZER BEFORE SERVICING.

A. Remove either side and back panels.

B. Press firmly on one belt. Figure 31.

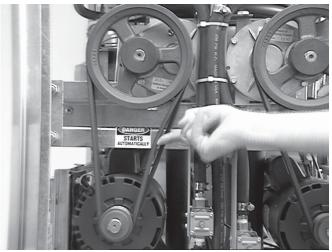


Figure 31. Belt Adjustment

- C. When the tension is properly adjusted, the outside of the depressed belt should be approximately in line with the inside of the other belt.
- D. If an adjustment is necessary, loosen the four motor plate retaining nuts, adjust belt tension then re tighten the four nuts.

NOTE

Belt life will be increased if new drive belts are tightened after two or three weeks of operation.

4.8 CONDENSER CLEANING (AIR-COOLED FREEZERS)

The condenser requires periodic cleaning. To clean the condenser, refer to the following steps:

NOTE

Some freezers have a condenser filter, to clean remove and wash in warm soapy water. Rinse in clean water and shake dry, taking care not to damage filter in any way.

- A. Visually inspect the condenser for dirt.
- B. If the condenser is dirty, place a wet towel over the condenser.
- C. Using compressed air or CO2 tank, blow out the dirt from the back of the condenser. Most of the dirt will cling to the wet towel.



D. An alternative method is to clean with a condenser brush and vacuum.

NOTE

If the condenser is not kept clean, loss of refrigeration efficiency will result.

4.9 PREVENTATIVE MAINTENANCE

It is recommended that a preventative maintenance schedule be followed to keep the freezer clean and operating properly. The following steps are suggested as a preventative maintenance guide.

WARNING NEVER ATTEMPT TO REPAIR OR PERFORM ANY MAINTENANCE ON FREEZER UNTIL ALL MAIN ELECTRICAL POWER HAS BEEN DIS-CONNECTED.

The United States Department of Agriculture and the Food and Drug Administration require that lubricants used in food zones be certified for this use. Use lubricants only in accordance with the manufacturer's instructions.

A. Daily Checks

Check for any unusual noise or condition and repair immediately.

B. Month Checks

- 1. Check drive belts for wear and tighten belts if necessary. (Refer to Section 4.7.)
- 2. Check the condenser for dirt. (Refer to Section 4.8).

NEVER ATTEMPT TO REPAIR OR PERFORM MAINTENANCE ON FREEZER UNTIL ALL MAIN ELECTRICAL POWER HAS BEEN DISCON-NECTED.

4.10 EXTENDED STORAGE

Refer to the following steps for winterizing the freezer or for storing the freezer over any long period of shutdown time.

A. Clean thoroughly with warm detergent all parts that come in contact with mix. Rinse in clear water and dry all parts. Do not sanitize.

NOTE

Do not let cleaning solution stand in freezer barrel or mix pump during the shutdown period.

- B. Remove, disassemble, and clean the front door, auger shaft, and mix pump. Leave disassembled during the shutdown period.
- C. Place plastic auger flights in a plastic bag with a moist paper towel. This will prevent flights from becoming brittle if exposed to dry air over an extended period of time (over 30 days).

- D. For water-cooled freezers that are left in unheated buildings, or buildings subject to freezing, the water must be shut off and disconnected. Disconnect fittings at water valve inlet and water outlet lines at the freezer. The fittings are located at the rear of the freezer. Run the compressor for 2 - 3 minutes to open water valve. Blow out all water, first through water inlet, then through water outlet lines with air or carbon dioxide. Also drain water supply line to the freezer.
- E. Place the mix pump ON-OFF switch, and the CLEAN-OFF-SERVE switch in the OFF position.
- F. Disconnect from the source of electrical supply in the building.

4.11 TROUBLESHOOTING

The Troubleshooting Table lists the common problems that can occur to the freezer.

FREEZER

PROBLEM	FREEZER POSSIBLE CAUSE	REMEDY
Drive motor (auger) "kicks-out", or does not run.	 Power to freezer is off. Drive motor overloaded. Low line voltage. 	 Check power to freezer. Wait 15-20 min. for Thermo overload to reset. Check, must be +\-10% of
	 Product too hard. Front door not installed securely. 	 nameplate voltage. 4. Raise overrun and/or product temperature. (See Section 4.3 or 4.2) 5. Install front door securely.
Compressor does not operate.	 Power to freezer if off. Drive motor overloaded. Low line voltage. 	 Check power to freezer. Wait 15-20 min. for Thermo overload to reset. Check, must be +/-10% of nameplate voltage.
	 Compressor internal overload is cut-out. Front door not installed securely. 	4. Check condenser (air cooled)(See Sect. 4.8), or water suppy (water cooled).5. Install front door securely.
Product too soft.	 Temperature setting is too high. Product break down. Standby/Serve Switch in Standby position. 	 Adjust temperature. (See Section 4.2) Fill with fresh product. Place Standby/Serve Switch in Serve position.
Freeze-up. (Product will not dispense easily.)	 Temperature setting is too low. Low overrun setting. Low pump pressure. Large air pocket in barrel. Auger turning counter-clockwise. 	 Adjust temperature. (See Section 4.2) Raise overrun. (See Section 4.3) Check pump pressure. Purge air from barrel. Change rotation to clockwise.
Rear auger seal leaks.	 Rear auger seal not lubricated. Seal missing or installed wrong. Worn or scratched shaft. 	 Lubricate seal. (See Section 3.8) Check. (See Section 3.8) Replace shaft.
Spigot leaks.	 Spigot parts are not lubricated. Chipped or worn o-rings. O-rings on spigot installed wrong. Nicks or scratched on front door where spigot is located. 	 Lubricate. (See Section 3.8) Replace O-rings. Remove spigot and check O-rings. Replace front door.
Drive belts slipping or squealing.	 Drive belt tension not correct. Worn belt(s). Temperature setting is too low. Low overrun. 	 Adjust belt tension. (See Section 4.7) Replace belts. Adjust temperature. (See Section 4.2) Check for air leak.
Mix temperature too warm in cab.	 System low on refrigerant. Temperature control set too warm. 	 Add refrigerant. (Refrig. Service) Remove left side panel and locate temperature control and follow instructions on decal.
Mix temperature too cold in cab.	1. Temperature control set too cold.	1. Remove left side panel and locate temperature control and follow instructions on decal.

MIX PUMP

1. PUMP MOTOR DOES NOT RUN	
Power to pump is off.	Supply power to pump.
Low voltage.	Check for low line voltage.
Mix pump hose jammed inside black cover/clamp.	Disconnect pump from power source. Remove four cover/clamp thumb screws. Separate cover/clamp halves and remove outer half. Remove jammed hose. Re-install cover/clamp and tighten four thumb screws securely. Allow motor thermal overload to reset. See Sec. 2.5 for hose replacement. Do not use jammed portion of hose.
Pump motor overloaded.	Allow internal thermal overload to reset; determine overload cause and repair.
Pressure switch on pump is defective.	Contact your local Stoelting Distributor.
Defective motor/capacitor	Contact your local Stoelting Distributor.
Defective toggle switch.	Contact your local Stoelting Distributor.
2. PUMP OPERATES BUT CYLINDER WILL NOT F	LL .
NOTE 1: A PROPERLY WORKING PUMP WILL FILL A	N 8 OZ. CUP WITH MIX IN ABOUT 9 SECONDS.
PINTS TO REDUCE SYSTEM PRESSURE TO ZERO. AND PICK-UP HOSE.	IE PUMP MAY BE UNABLE TO RE-ESTABLISH IT'S RE. IN THIS CASE, TURN THE PUMP OFF. DRAW 2-3 TURN PUMP ON. PURGE REMAINING AIR IN MIX BAG to the mix bag, purge the mix bag of air to the extent
possible.	
Out of Mix.	Replenish mix supply.
Mix pump hose kinked inside black cover/clamp.	Follow mix pump hose jammed repair. (See #1 above.)
Hoses assembled incorrectly.	Refer to diagram for correct hose connections.
Mix pump hose service life is exceeded.	Reposition/replace mix pump hose. See Sec. 2.5.
Mix pump hose not connected to freezer.	Connect mix pump hose to freezer.
lce crystals in mix.	Completely thaw mix prior to use.
Mix bag drawn against adapter.	Assure bag is clear of pick-up tube.
Foreign objects in mix.	Clear blockage. Use fresh mix.
Mix Check Valve is installed backwards.	Observe flow arrow for proper orientation.
3. OVERRUN TOO LOW OR NO OVERRUN	
Overrun setting too low.	Increase overrun setting.
Air leak.	Tighten all hose clamps.
Air compressor not pumping air.	Contact local Stoelting Distributor.
4. OVERRUN TOO HIGH	
Mix pump hose service life is exceeded.	Reposition/replace mix pump hose.
Out of mix.	Replenish mix supply.
Overrun setting too high.	Decrease overrun setting.
Pick-up leg of mix pump hose is collapsing.	See Section 2.5.
NOTE: ALSO SEE "2" ABOVE.	

5. REPLACEMENT MIX PUMP HOSE WON'T FEED 1	THROUGH PUMP			
Feeding hose into discharge hole of mix pump cover.	Feed hose into pick-up side of cover.			
Hose ends not cut squarely.	Carefully cut hose end off squarely (no tails).			
Force feeding too quickly.	Gently and slowly assist feeding of hose up into pick-up hose side of cover.			
Pump motor not running.	Turn on motor switch. Also see Item 1 above.			
6. AIR EXITING MIX PICK-UP HOSE				
Pickup tube check valve missing.	Contact local Stoelting Distributor.			
7. DISPENSED PRODUCT AIR "POPS"				
Overrun setting too high.	Reposition/replace mix pump hose.			
Mix pump hose service life is exceeded.	Reposition/replace mix pump hose.			
Overdrawing the freezer's capacity.	Reduce dispense rate.			
Recent "mix-out" condition.	Open spigot fully and allow excess air to "belch" out.			
NOTE: ALSO SEE 2 & 4 ABOVE.				
8. MIX LEAKAGE FROM PUMP				
CAUTION: To prevent mix pump damage from dried pump.	mix deposits, immediately disassemble and clean			
Mix pump hose service life is exceeded.	Remove mix pump hose. Disconnect pump from power source. Remove mix pump cover/clamp. THOROUGHLY rinse three squeeze rollers using a spray bottle filled with hot water. Thoroughly clean all mix from pump. See Sec. 2.5 for hose replacement.			
9. PUMP HAS POOR CAPACITY				
Lift and run limits are exceeded.	Pump is limited to 10' lift, 20' run.			
Lift and run limits are exceeded. NOTE: Also see 2, 4, 6 & 7.	Pump is limited to 10' lift, 20' run.			
	Pump is limited to 10' lift, 20' run.			
NOTE: Also see 2, 4, 6 & 7.				
NOTE: Also see 2, 4, 6 & 7. 10. PUMP IS NOISY/SQUEAKING NOTE: THE ACTION OF THE AIR COMPRESSOR ROC				
NOTE: Also see 2, 4, 6 & 7. 10. PUMP IS NOISY/SQUEAKING NOTE: THE ACTION OF THE AIR COMPRESSOR ROC SOUND DURING OPERATION. THIS IS NORMAL.				
NOTE: Also see 2, 4, 6 & 7. 10. PUMP IS NOISY/SQUEAKING NOTE: THE ACTION OF THE AIR COMPRESSOR ROC SOUND DURING OPERATION. THIS IS NORMAL. 11. MIX IN AIR HOSES	KING ARM CREATES A REPETITIVE CLICKING			

SECTION 5 HOW TO ORDER REPLACEMENT PARTS

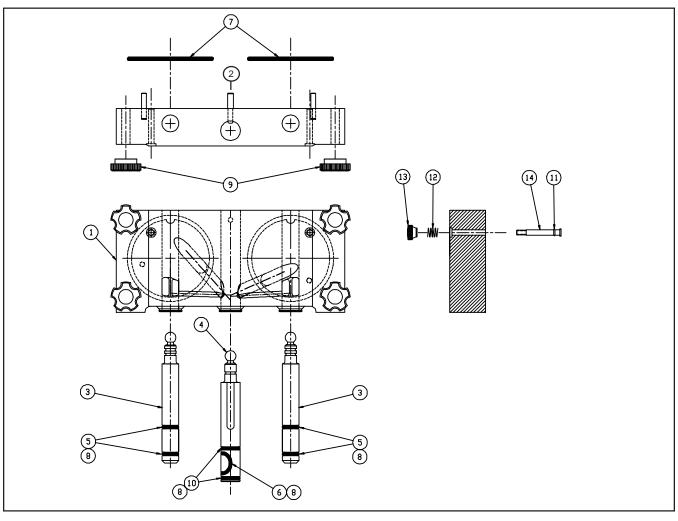
5.1 HOW TO ORDER REPLACEMENT PARTS

To assure the receipt of the proper replacement parts, supply your serviceperson with the following information:

- A. Model number of equipment.
- B. Serial number of model (stamped on nameplate)
- C. Part number, part name, and quantity needed.

5.2 PARTS LIST AND REFERENCE DRAWINGS

The following lists and drawings will aid the user when ordering parts or servicing.

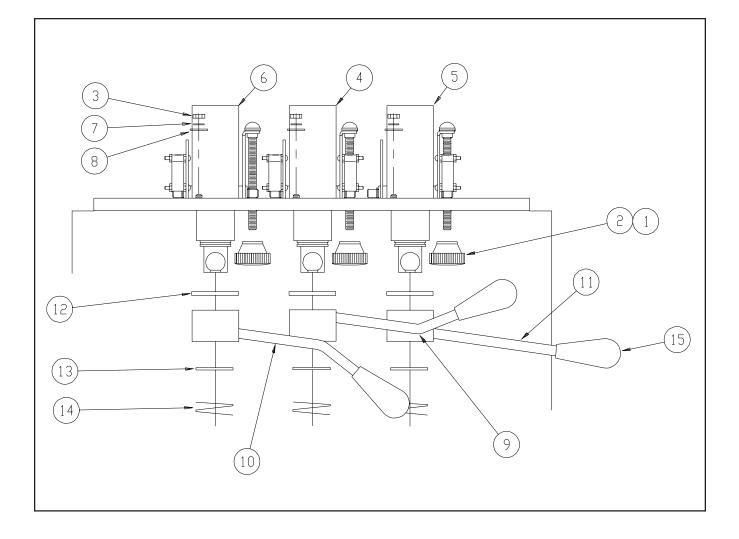


Item Stoelting P/N Qty. Description

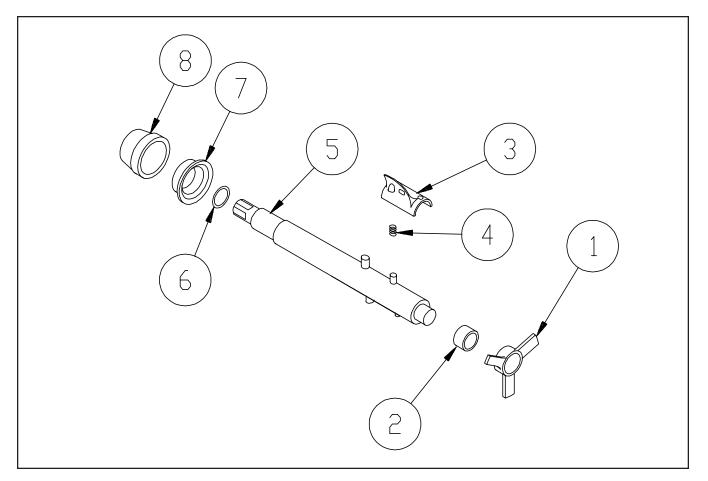
1	2177427	1	Door (Side ID Grooves)	2	1158091	1	Actuator, Door Safety
•	2177072	•	38mm (1.5 inch) Spigot Ext.	3	3159696	2	Spigot, Outside
	2177073		64mm (2.5 inch) Spigot Ext.	4	3158086	1	Spigot, Center
	2177074		76mm (3 inch) Spigot Ext.	5	624598	4	O-Ring
	232734		Rosette Cap	6	624664	1	O-Ring (CS)
	624677		Castle Top O-Ring	7	625133	2	O-Ring (Silicone)
1	2177588	1	Door w/Pins - CE	8	508135	AsReq	Lubricant, Petrogel
	624654		"O" Ring Spigot Extension	9	482019	4	Knob Black
	2158070		38mm (1.5 inch) Spigot Ext.	10	624614	2	O-Ring (CS)
	2159688		64mm (2.5 inch) Spigot Ext.	11	624520	2	O-Ring
	2157869		76mm (3 inch) Spigot Ext.	12	694200	2	Spring Comp.
	232732		Rosette Cap	13	482004	2	Knob
			NOTE	14	2110116	2	Valve Stem

NOTE

If you are replacing a front door without side grooves you mustorder the extensions and rosettes also.



ITEM	STOELTING PN	QTY	DESCRIPTION
1	M820172	.001	ADHESIVE LOCTITE 242-31
2	482004	3	KNDB
3	538297	6	NUT HEX FULL 10-24 ZP
4	3156992	1	CAM CENTER
5	3157854	1	CAM RIGHT
6	3157855	1	CAM LEFT
7	766948	6	WASHER SHAKEPROOF 10 ZINC
8	766430	6	WASHER ROUND
9	2156997	1	HANDLE CENTER
10	2156999	1	HANDLE LEFT
11	2157850	1	HANDLE RIGHT
12	221619	3	SPACER BUSHING
13	1154703	3	WASHER
14	625440	3	RING RETAINING 1.00" DIA
15	482039	3	KNDB



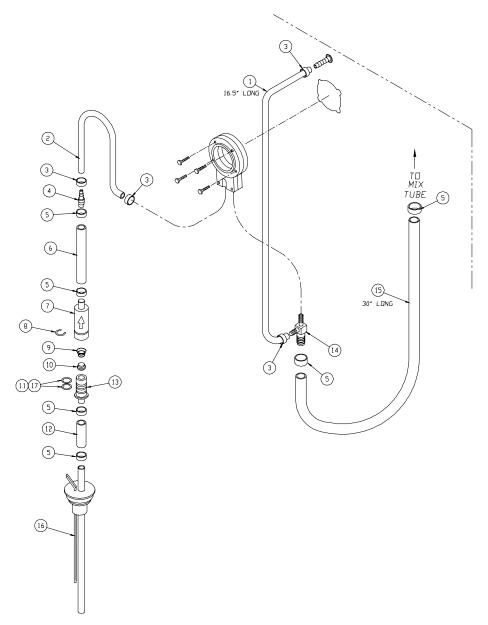
AUGER PARTS

Drawing Index No.	Part <u>Number</u>	<u>Qty.</u>	Description
1	2104552	1	Auger Front Support
2	149003	1	Front Bearing
3	381804	6	Plastic Flight
4	694255	6	Spring
5	4151178	1	Auger
6	624678	1	Rear Seal "O" Ring
7	1151859	1	Rear Seal Adaptor
8	667868	1	Rear Seal

MISCELLANEOUS PARTS

Description

Part No.

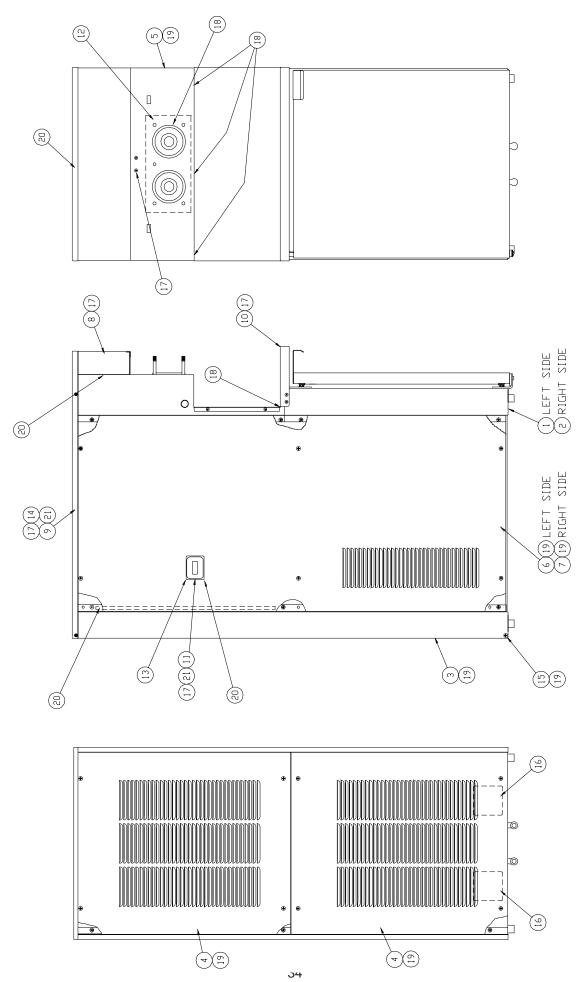


ITEM	STOELTING PN	QTY	DESCRIPTION
1	756067	33.5″	TUBING PLASTIC 1/4IDX7/16DD
2	756204-40	2	TUBING NORPRENE FOOD .25 ID X 40.0" LG
3	264235	8	CLAMP HOSE 3-8/9-16 MIN/MAX D
4	375867	2	FITTING UNION 1/4"X1/2" BARBED
5	264241	12	CLAMP HOSE 9/16 TO 13/16 STEEL
6	756088-26	2	TUBING PLASTIC 1/2IDX3/40D X 26.0" LG
7	1172864	2	VALVE BODY - OUTER
8	696152	2	LOCK CLIP FOR VALVE
9	694247	2	SPRING COMP 13/16X3/8X3/4
10	762256	2	VALVE DUTLET CHECK (MOLDED)
11	624607	4	RING 🛛 11/16X7/8X3/32 SPECIAL
12	756088-02	2	TUBING PLASTIC 1/2IDX3/40D X 2.0" LG
13	1151965	2	VALVE BODY - INNER
14	376041	2	TEE, 3-WAY, S'STL, AIR/MIX
15	756088-30	2	TUBING PLASTIC 1/2IDX3/40D X 30.0" LG
16	2177272	2	MIX PICKUP & PROBE ASSY
17	508135	AS REQ	LUBRICANT, PETRO-GEL 40Z.TUBES

Figure 7. Mix Pump

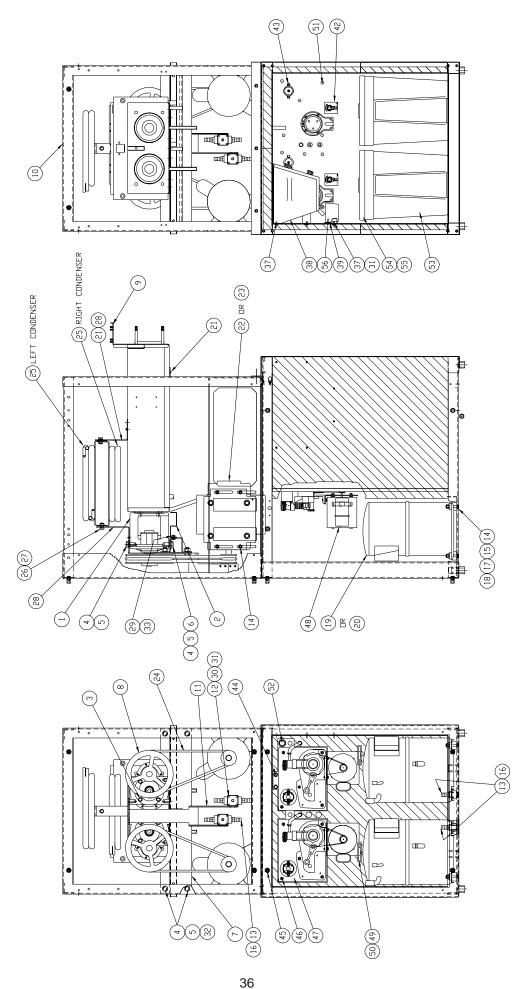
DECALS

<u>Qty.</u>	Part Number	Description
2	324200	H.P. Manual Reset
2	324798	Clean-Off-Serve
2	324797	Standby/Serve
1	324800	Cab Off-On
2	324799	Pump Off On
1	324141	Caution, Haz. Rot. Blade - Front Panel
1	324509	Cleaning - Right Side
2	324014	Auger Rotation - Evap. Enclosure Rear
4	324686	Danger - Start Auto, on Evap. Support between belts & motors support brkt.
1	723525	Winterizing, Attach to water hose near bottom
2	324106	Caution - Elec. Wiring Mat'ls must conform between water couplings, one rear
		panel bottom
2	324346	Caution - Haz. Mov. Parts, on inside of mtr support brkt @ rear
3	324107	Caution - Haz. Mov. Parts, on cond. bkt. rear & (2) on evap. enclosure sides
2	324208	Attn - Ref. Lk Chk, on evap. enclosure sides
2	723552	Tag - Supply volt., inside J-Box
1	723517	Card - Inside one J-Box
2		ID Tags, Back Panel Top
1	324548	Add. Vent Back Panel Ctr Top
1		Made in U.S.A Back panel
2	324103	Caution - Rot. Shaft, on gearbox support bracket
2	324151	Field Connections, J-Box cover, outside
3	324125	Danger Elec.Shock, J-Box covers outside, back panel bottom
1	324242	Warm/Cold, @ T-Stat
2	324565	Night/Serve - Temp. Control Bracket
2	324158	Use copper cond. only, inside both J-boxes
2	324566	Wired According to, on elec. schematic envelope
2	130000	Elec. Schematic Envelope
1	324065	Water Inlet - Back panel above inlet coupling
1	324803	Header Panel Decal (Stoelting Logo)
1	324804	Header Panel Decal (Stoelting Swirl)
1	324806	Header Panel Decal (A & W Logo)



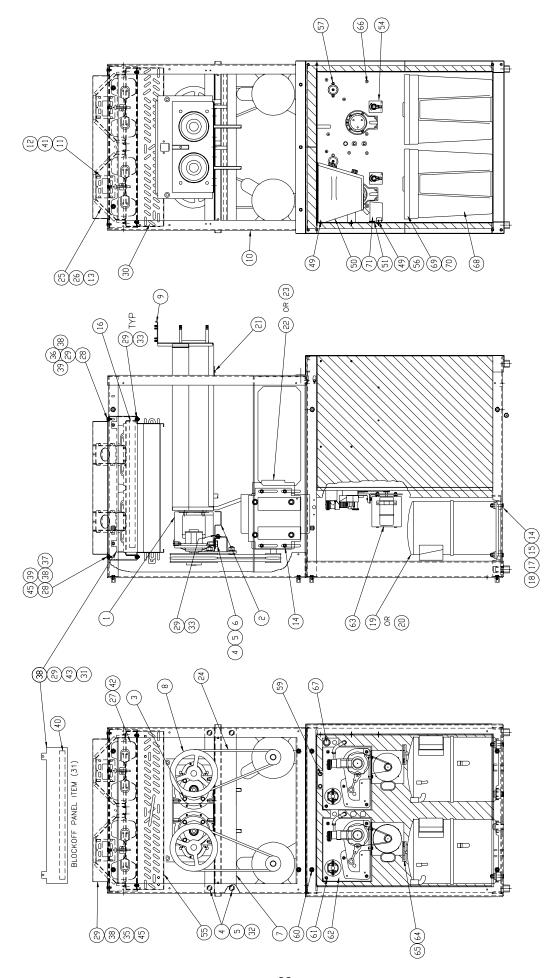
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ITEM	STOELTING PN	QTY	DESCRIPTION
1	3177240	1	TRIM STRIP - LEFT
2	3177250	1	TRIM STRIP – RIGHT
3	3177236	2	TRIM STRIP – REAR
4	4177238	2	BACK PANEL
5	4177239	1	FRONT SHROUD
6	4177242	1	SIDE PANEL - LEFT
7	4177243	1	SIDE PANEL – RIGHT
8	3177244	1	HEADER PANEL
9	4177245	1	TOP PANEL, WATER COOLED
10	3177246	1	DRIP TRAY SUPPORT
11	1154886	1	SIDE PANEL COVER
12	3170804	1	GASKET INSULATION
13	744252	1	DRAIN TRAY 4231
14	4177222	1	TOP PANEL, AIR COOLED
15	538335	2	NUT HEX 1/4-20 X 7/16 STL ZP
16	314290	2	COVER SQUARE 4IN FOR OUTLET BX
17	647653	18	SCREW MACH 10-24 X 3/8 TRS HD
18	M820309	.001	SEALANT DOW CORNING ALUMINUM
19	647899	40	SCREW MACH 1/4-20 X 3/8 TRS HD
20	714003	.001	STRIP 3/8 WIDE CORK/RUBBER
21	538917	6	NUT SPEED 10-24X13/16X3/8



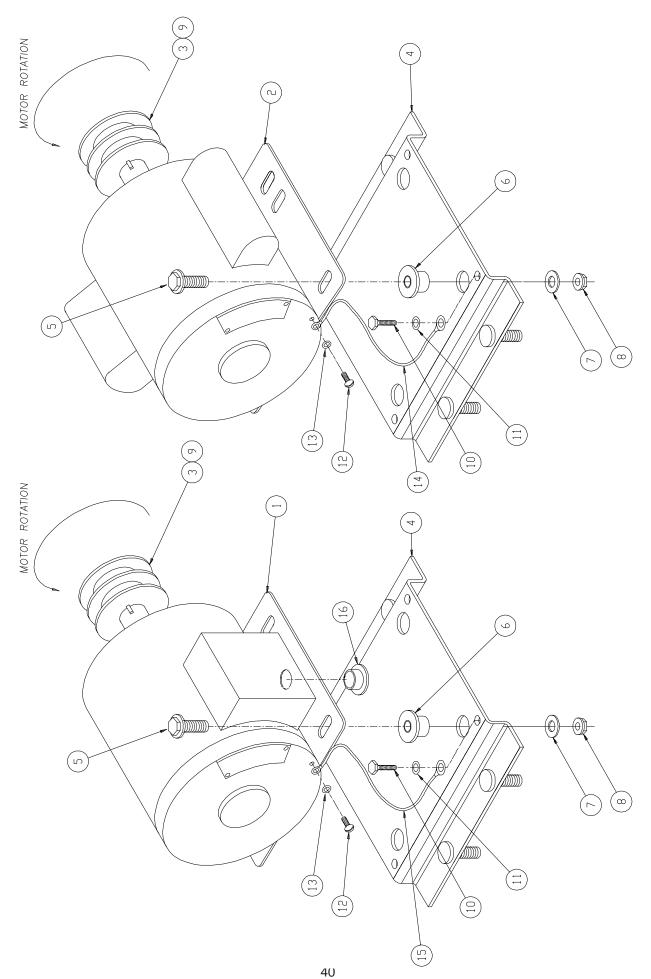
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ITEM	STDELTING PN	QTY1	QTY2	DESCRIPTION
		-01	-02	
1	614231	2	2	SPEED REDUCER 5.2:1 REDUCTION
2	3177251	1	1	DRAIN TRAY SUPPORT BRACKET
3	644542	8	8	SCREW CAP 3/8-24 X 1 HX HD
4	644985	12	12	SCREW CAP 1/2-13UNC X 7/8 HX
5	766997	12	12	WASHER SHAKEPROOF 1/2X7/8
6	767226	4	4	WASHER FLT 1/2X1-3/8X9/16HV ZP
7	3177219	1	1	REDUCER SUPPORT BRACKET
8	2147034	2	2	PULLEY, 7.00 PD MACHINED
9	4177217	1	1	EVAP WELDMENT & FOAMED
10	4177208	1	1	FRAME WELDMENT
11	2177225	1	1	WATER VALVE BRACKET
12	763181	2	2	VALVE WATER 3/8NPT
13	369833	6	6	FITTING,BARBED 1/2X3/8 BRASS
14	538351	16	16	NUT HEX 5/16-18 LOCKING FLANGE
15	422156	2	2	GROMMET KIT WITH SLEEVES
16	728190	.001	.001	TEFLON THRD SEAL TAPE 520"/ROL
17	644371	8	8	SCREW CAP 5/16-18 X 1-3/4 HX
18	767211	8	8	WASHER FLAT 5/16,7/8X3/8X14GA
19	282025	2		COMPRESSOR, 208-230/60/1PH
20	282026	,	2	COMPRESSOR, 208-230/60/3PH
21	649081	5	5	SCREW DRILL & TAP 8-18 X 1/2
55	522869		2	DRIVE MOTOR 3PH
23	522844	2		DRIVE MOTOR 1PH (SER #0-16058)
23	522856	2		DRIVE MOTOR 1PH (SER #16059 PLUS)
24	152294	4	4	BELT V 39.2 D.L. X 38.3 P.L.
25	284104	2	2	WATER COOLED CONDENSER
26	538356	2	2	3/8-16 NUT HEX LOCKING FLANGE ZP
27	644522	2	2	SCREW CAP 3/8-16 X 3/4 HX HD
28	2177226	2	2	WATER CONDENSER BRACKET
29	644091	2	2	SCREW CAP 1/4-20 X 1/2 HX HD
30	644024	4	4	SCREW MACH 8-32 X 1/4 HX HD ZP
31	M820172	.001	.001	LOCTITE ADHESIVE #242 BLUE
32	538395	4	4	NUT HEX 1/2-13X3/4X5/16 ZP
33	538335	2	2	1/4-20 SPIN L/N ZC
34	714003	.001	.001	3/8″ X 100′ ROLL/RUBBER
35	628007	5	5	RIVET 1/8"
36	524091	5	5	MOUNT TIE
37	647653	6	6	SCREW MACH 10-24 X 3/8 TRS HD
38	3177257	1	1	CAB EVAPORATOR ASSY
39	2177235	1	1	BRACKET, DRIP TRAY, CAB
40	M850004	ASREQ		RTV DOW CORNING 734
41	M980178	ASREQ		PERMAGUM
42	324724	2	2	DECAL, TUBE FEED
43	538296	4	4	NUT HEX #10-24 X 3/8 SS
44	422057	2	2	GROMMET RBR 3/8X5/8X1/4X1/16
45	717917-SV	2	2	SWITCH, AIR PRESSURE
46	538335	10	10	NUT HEX 1/4-20 X 7/16 STL ZP
47	3177221	2	2	PLATE, PUMP MOUNTING
48	522229	2	2	PUMP MOTOR, ONLY
49	266018	2	2	CLIP ADHESIVE BACKED "J"
50	778027	2	2	WRENCH, ALLEN 5/32 X 3.0 LG.
51	647915	10	10	SCREW MACH 1/4-20 X 7/8 TRS HD SSTL
52	422074	1	1	GROMMET RUBBER BLACK
53	558113	2	2	PAN, MIX CONTAINER
54	3177262	2	2	COVER, FRONT
55	3177229	2	2	COVER, REAR
56	744272	1	1	DRIP TRAY, CAB



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-01 -02 1 614231 2 2 3 72317251 1 1 DRNN TRAY SUPPORT BRACKET 3 6444942 8 SCREW CAP 3/8-24 X 1 H H D 4 644985 8 8 SCREW CAP 3/8-24 X 1 H H D 5 765997 8 WASHER SHACKPOOF 1/22-X7/8 6 767226 4 4 WASHER SHACKPOOF 1/22-X7/8 6 767226 4 4 WASHER SHACKPOOF 1/22-X7/8 8 2147034 2 2 PULLEY, 7.00 P MACHRED 9 4177217 1 1 EVAP WELDMENT & FOAMED 10 10 77208 1 FRAME WELDMENT & FOAMED 11 522830 16 16 WASHER HID SHACKIT 12 548280 16 16 WASHER HID SHACKIT 13 766048 16 16 WASHER HID SHACKIT 14 538351 16 16 WASHER HID SHOUT HID SHACKEPOOF 14 5383	ITEM	STOELTING PN	QTY1	QTY2	DESCRIPTION
2 3177251 1 1 DRAIN TRAY SUPPORT BRACKET 3 644542 8 8 SCREW CAP 1/2-13JMC X 7/8 HX 4 644985 8 8 SCREW CAP 1/2-13JMC X 7/8 HX 5 765997 8 8 WASHEE SHAKE FRD 1/2/13JMC X 7/8 HX 6 767226 4 4 WASHEE SHAKE FRD 1/2/13JMC X 7/8 HX 7 3177219 1 1 FEDUCER SUPPORT ERACKET 7 3177209 1 1 FRAME WELDMEN 10 4177217 1 1 EVAP WELDMENT & COMPCT 11 522830 16 16 NUT #KX 5/16-18 LOCKNET 12 538280 16 16 NUT #KX 5/16-18 LOCKNET 13 766948 16 16 NUT #KX 5/16-7843/5K146A 14 522814 2 COMPERSSOR 208-230/60/1PH 26 262025 2 COMPRESSOR 208-230/60/3PH 27 522844 2 DRVE MOTOR 1PH (SER #10-16058) 28 2716205 2			-01	-02	
3 644542 8 8 SCREW CAP 3/B-24 x 1 Hx HD 4 644895 8 8 SCREW CAP 1/2-13UNC X 7/B Hx 5 766997 8 8 WASHER SHAKEPRODE 1/2x1/3 6 767226 4 4 WASHER FLIT 1/2X1-3/849/16HV ZP 7 3177219 1 1 REAU PULLEY, 7:00 FPU AGAMED 9 41772717 1 1 EVAP WELDMENT & FOAMED 10 4177208 1 1 FRAME WELDMENT & FOAMED 11 5238280 16 16 NUT,HB-32 12 538280 16 16 NUT,HB-32 13 766948 16 NUSHER FLIT WITS SLEEVES 14 538351 16 16 NUT,HC STIS 14 528264 1 1 COMPRESSOR, 208-230/60/14H 12 282026 2 COMPRESSOR, 208-230/60/14H 2 12 542044 2 COMPRESSOR, 208-230/60/14H 2 12 522866	1	614231	2	2	SPEED REDUCER 5.2:1 REDUCTION
4 644985 8 8 SCREW CAP 1/2-13UNC X 7/8 HX 5 766997 8 8 WASHEE SHAKEPROF 1/2X7/8 6 767226 4 4 WASHEE SHAKEPROF 1/2X7/8 6 767226 4 4 WASHEE SHAKEPROF 1/2X7/8 7 3177219 1 1 REDUCER SUPPORT BACKET 9 4177217 1 1 REDUCER SUPPORT BACKET 10 4177208 1 1 REAL MOTOR 11 5228351 16 16 NUT HX S/16-18 LOCKING FLANCE 12 5335280 16 16 NUT HX S/16-18 LOCKING FLANCE 13 766948 16 16 WASHER FLANCE SHROUD 14 53351 16 16 NUT HX S/16/174/3K14GA 15 422156 2 COMPRESSOR, 208-230/60/1PH 20 282026 - COMPRESSOR, 208-230/60/1PH 21 622826 - COMPRESSOR, 208-230/60/3PH 22 522856 2 -					
5 766997 8 8 WASHER SHAKE SHAKEPROF 1/2X1-3/89/16HV ZP 7 3177219 1 1 REDUCER SUPPORT BRACKET 8 2147034 2 2 PULLEY, 7.00 PD MACHINED 9 4177217 1 1 EVAP WELDMENT 10 4177208 1 1 FRAME WELDMENT 11 52823.0 4 4 FAN MOTOR 12 538280 16 16 NUT,#8-32 13 766998 16 16 NUT,#8-32 14 538351 16 16 NUT,HEX 5/16-18 X 1-3/4 14 538351 16 16 NUT,HEX 5/16-18 X 1-3/4 15 422156 2 COMPRESSOR, 208-23/66/3PH 16 A177262 1 1 COMPRESSOR, 208-23/66/3PH 17 644371 8 8 WASHER FLAWENT WIT SLEVES 12 642026 - COMPRESSOR, 208-23/66/3PH 13 767211 8 8 SLEVEN PAL	-				
6 767226 4 4 WASHER FLT 1/2X1-3/8X9/16HV 2P 7 3177219 1 1 REDUCER SUPPORT BRACKET 8 2147034 2 2 PULLTY, 7:00 PD MACHINED 9 4177217 1 1 EVAP WELDMENT & FOAMED 10 4177209 1 1 FRAME WELDMENT 11 522833 4 4 FAME WELDMENT 12 538280 16 16 NUT HEX 5/16-18 LOCKING FLANGE 14 538351 16 16 NUT HEX 5/16-7/824 AND 15 422156 2 2 GROMET KIT WITH SLEEVES 16 4177262 1 CONDENSER SHROUD AND 18 767211 8 8 WASHER FLIC 5/16,7/28/24/14CA 19 282026 - 2 COMPRESSOR, 208-230/60/3PH 21 649081 3 3 SCREW DRILL & TAP 8-18 X 1/2 22 522864 2 - DRIVE MOTOR TEPH (SER #0659 PUUS)) <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
7 3177219 1 REDUCER SUPPORT BRACKET 8 2147203 2 2 PULLEY, 700 PD MACHNED 9 4177208 1 1 EVAP WELDMENT & FOMED 10 4177208 1 1 FRAME WELDMENT 11 522833 4 4 FAM WELDMENT 12 538280 16 16 NUT, #3-32 13 766948 16 16 NUT HX 5/16-18 LOCKING FLANCE 14 538351 16 16 NUT HX 5/16-18 X 1-3/4 X 15 422156 2 COMOMESSOR, 208-230/60/JPH 2 COMPRESSOR, 208-230/60/JPH 19 282026 2 COMPRESSOR, 208-230/60/JPH 2 502864 21 649081 3 SCREW DRIL & TAP 8-18 X 1-2/2 502969 - 2 DRVE MOTOR IPH (SER #1059 PUS)) 23 522844 2 - DRVE MOTOR IPH (SER #10-1608) 2 25 538297 16 16 NUT, 10-24 ZO <					
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69 3177262 2 2 COVER, FRONT 70 3177229 2 2 COVER, REAR					
70 3177229 2 2 COVER, REAR					
71 744272 1 1 DRIP TRAY, CAB					

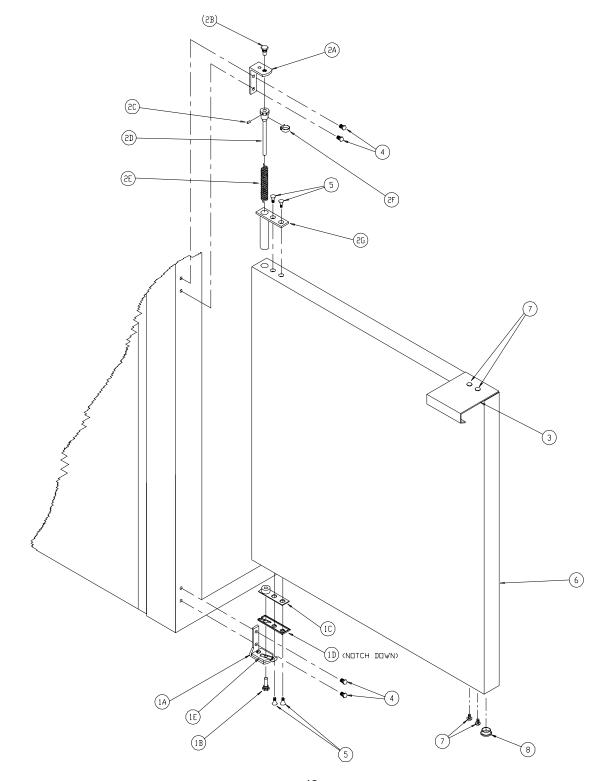


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ITEM	STDELTING PN	QTY	DESCRIPTION
	522869	1	MUTUR 2HP 208-230/60/3 1740RPM
N	522844	Ţ	MDTDR 2HP 208-230/60/1 1740RPM
			SERIAL #0-16058
N	522856	1	MDTDR 2HP 208-230/60/1 1740RPM
			SERIAL #16059 PLUS
m	2117987	Ţ	PULLEY 2 GROOVE 2.10 A.P.D.
4	2177223	Ţ	MOTOR MOUNTING PLATE WELD'T
IJ	644328	7	SCREW CAP 5/16-18 X 1 HX HD ZP
9	524035	4	MOUNT MOTOR RUBBER 1.0 X .75
~	766496	4	WASHER, FENDER 5/16 X 1-1/4 DD
ω	538351	7	NUT HEX 5/16-18 LOCKING FLANGE
6	650333	Ţ	SCREW SSS 5/16-18NC X 3/8 DV
10	649107		SCREW TAP 10-16 X 1/2 HX HD ZP
11	766940	Ţ	WASHER SHAKEPROOF 8 ZINC PLATE
1 U	649104	Ţ	SCREW TAP 10-24 X 3/8 RD HD PH
1	766948		WASHER SHAKEPROOF 10 ZINC
14	430028	Ţ	WNP04D2T HARNESS
10	430255	Ţ	WPP08E2T HARNESS
16	223058		BUSHING SNAP 11/16 ID HOLE 7/8

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ITEM	STDELTING PN	QTY	DESCRIPTION
1	442191-L	1	HINGE, LOWER LEFT
2	442192-L	1	HINGE, UPPER LEFT
3	3177231	1	HANDLE, CAB DOOR
4	644093	4	SCREW CAP 1/4-20 X 1/2 HX HD
5	647671	4	SCREW MACH 10-24 X 1/2 FL HD
6	4177232	1	DOOR, CAB
7	647653	4	SCREW MACH 10-24 X 3/8 TRS HD
8	584200-10	1	PLUG HOLE .750 DIA MTG HOLE



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WARRANTY SOFT SERVE / SHAKE FREEZERS

1. <u>Scope</u>:

Stoelting, LLC warrants to the first user (the "Buyer") that the freezer cylinders, hoppers, compressors, drive motors, speed reducers, auger and auger flights of Stoelting soft serve / shake freezers will be free from defects in materials and workmanship under normal use and proper maintenance appearing within five (5) years, and that all other components of such equipment manufactured by Stoelting will be free from defects in material and workmanship under normal use and proper maintenance appearing within twelve (12) months after the date that such equipment is originally installed.

2. Disclaimer of Other Warranties:

THIS WARRANTY IS EXCLUSIVE; AND STOELTING HEREBY DISCLAIMSANY IMPLIED WAR-RANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

3. <u>Remedies</u>:

Stoelting's sole obligations, and Buyer's sole remedies, for any breach of this warranty shall be the repair or (at Stoelting's option) replacement of the affected component at Stoelting's plant in Kiel, Wisconsin, or (again, at Stoelting's option) refund of the purchase price of the affected equipment, and, during the first twelve (12) months of the warranty period, deinstallation/reinstallation of the affected component from/into the equipment. Those obligations/remedies are subject to the conditions that Buyer (a) signs and returns to Stoelting, upon installation, the Checklist/Warranty Registration Card for the affected equipment, (b) gives Stoelting prompt written notice of any claimed breach of warranty within the applicable warranty period, and (c) delivers the affected equipment to Stoelting or its designated service location, in its original packaging/crating, also within that period. Buyer shall bear the cost and risk of shipping to and from Stoelting's plant or designated service location.

4. Exclusions and Limitations:

This warranty does not extend to parts, sometimes called "wear parts", which are generally expected to deteriorate and to require replacement as equipment is used, including as examples but not intended to be limited to o-rings, auger seals, auger support bushings and drive belts. All such parts are sold

AS IS.

Further, Stoelting shall not be responsible to provide any remedy under this warranty with respect to any component that fails by reason of negligence, abnormal use, misuse or abuse, use with parts or equipment not manufactured or supplied by Stoelting, or damage in transit.

THE REMEDIES SETFORTH IN THIS WARRANTY SHALL BE THE SOLE LIABILITY STOELTING AND THE EXCLUSIVE REMEDY OF BUYER WITH RESPECT TO EQUIPMENT SUPPLIED BY STOELTING; AND IN NO EVENT SHALL STOELTING BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY OR OTHER CON-TRACT BREACH, NEGLIGENCE OR OTHER TORT, OR ON ANY STRICT LIABILITY THEORY. Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

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