

POLYCOOL®

ICY-263 Commercial Benchtop Soft Serve Machine



DONPER
EQUIPPED

User Manual

[Revision 2.0]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description, and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You **WILL** be KILLED or SERIOUSLY INJURED if you do not follow instructions.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases, or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well lit.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.



You **CAN** be KILLED or SERIOUSLY INJURED if you do not follow instructions.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol, or medication.
- This equipment is not intended for use by persons with reduced physical, sensory, or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well-ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start, or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors, and vents.



You **CAN** be INJURED if you do not follow instructions or equipment damage may occur.

General Equipment Use and Care

- Keep packaging away from children and pets, potential risk of suffocation or choking.
- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage, or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases, or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids, or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Always use a Residual Current Device (RCD) (GFCI) / Earth Leakage Circuit Breaker / Safety Switch when operating this item (electrical items only).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories, or performing repair or maintenance.
- Do NOT adjust while the equipment is running.
- Perform service-related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

Child Choking Hazard!

• WARNING: CHOKING HAZARD - CHILDREN UNDER 8 YRS. CAN CHOKE OR SUFFOCATE ON SMALL PARTS. ADULT SUPERVISION REQUIRED.

- Carefully inspect anything a baby or child could gain access to, including this product & packaging.
- Dangers include anything of a size that could become stuck or lodged in a baby or child's airway.
- Dangers include things like raw, hard fruit and vegetable pieces, large pieces of meat, bones or sausage skins, popcorn, nuts, hard lollies and corn chips, small magnets and batteries, coins, beads, marbles and small uninflated balloons, broken toys and smaller toys, buttons, keys, and coins. But there are also many more.
- Pay particular attention to accessories, nuts, bolts, screws, washers, caps, covers, loose parts, parts that could be removed or break off, pieces of packaging, staples, tape etc.
- In the case of any doubt, secure the item of concern in an appropriate manner, or completely remove the possibility of access by a baby or child.

Product Safety

- To reduce the risk of injury, the user must read the instruction manual carefully.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - This device may not cause harmful interference, and
 - This device must accept any interference received, including interference that may cause undesired operation.
- This product is subject to the provisions of European Directive 2012/19/EC. The symbol showing a crossed-out wheellie bin indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste but must be taken to a collection point for recycling electrical and electronic devices.
- Before using the appliance, please read this user manual to ensure that you gain the maximum benefit from it.

WARNING!

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- 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 carried out by children without supervision.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- To avoid a hazard due to the instability of the appliance, it must be fixed in accordance with the instructions.
- When positioning the appliance, ensure the supply cord is not trapped or damaged.
- Do not locate multiple portable socket outlets or portable power supplies at the rear of the appliance.
- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not damage the refrigerant circuit.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Children aged from 3 to 8 years are allowed to load and unload refrigerating appliances.
- Note: This appliance contains flammable refrigerant R290 and foaming agent cyclopentane.
- Please avoid contact with fire when you transport and use it.

- Please consult a professional for servicing when the machine breaks down. Please send it to your local appointed disposal station when you discard it.
- During use, service, and disposal of the appliance, please pay attention to the symbol similar to the one on the left side, which is located on the rear of the appliance (rear panel or compressor) and is coloured yellow or orange. It is a risk of fire warning symbol. There are flammable materials in the refrigerant pipes and compressor. Please keep away from fire sources during use, service, and disposal.

FCC Information

- **CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!**
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - This product may cause harmful interference.
 - This product must accept any interference received, including interference that may cause undesired operation.
- **WARNING: Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product.**
- NOTE: This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
- This product generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the distance between the product and the receiver.
 - Connect the product to an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for assistance.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.

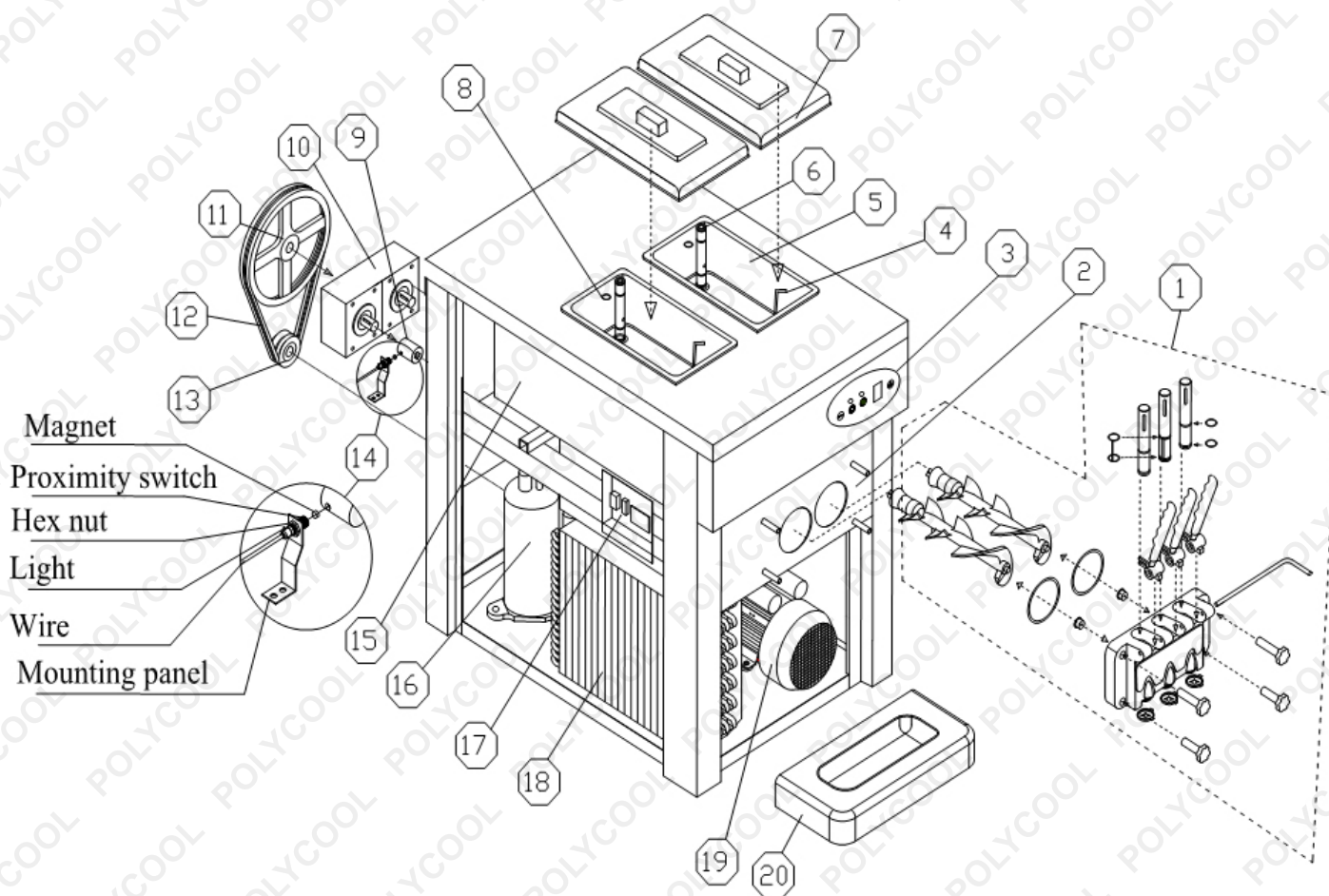
 Flammable Material Hazard Flammable liquids, gases, or substances etc may present. Avoid ignition sources and open flames. Danger of fire.	 Read User Manual Read and fully understand product safety warnings, operation, procedures etc before using the product.	 Use Hand Protection Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.	 Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.
 Electrocution / Electrical Shock Hazard High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.	 Toxic Fumes / Dust Hazard Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.	 Explosive Material Hazard Combustible liquids, gases, or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.	 Cutting / Amputation Hazard The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.
 Crush Hazard The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.	 Single Operator Only The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.	 Use Face Protection Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.	 Use Foot Protection Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.
 Use Eye / Ear / Head Protection Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing, and head hazards.	 Running Hazard Do not run on or near the product as doing so may present a fall hazard.	 Diving Hazard Do not dive into the product as doing so may present a neck / head injury hazard.	 Adult Supervision Required Always supervise children and other users of a product to prevent drowning or injury.
 Skin Penetration / Puncture Hazard The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.	 Hot Surface Hazard Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.	 Flying Debris Hazard Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.	 Moving Parts Hazard Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.

 Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.	 Pull Hazard Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.	 Slope / Fall Injury Hazard Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.	 "Slam Dunk" Warning Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.
 Electrocution / Electrical Shock Hazard - Outdoor High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp, or wet conditions. Electrical shock can be fatal.	 Electrocution / Electrical Shock Hazard - Disconnect High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.	 Power Line Electrocution Hazard High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.	 "Kick-Back" Hazard High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.
 Winch Operator Position Hazard Do NOT stand between winch and load. Do NOT use winch to move people.	 Winch Lift Hazard Do NOT LIFT load vertically. Use machine to PULL only.	 Cable Hazard Ensure that load bearing cable is not kinked or knotted.	 Winch Cable Hazard Ensure that there is a minimum number of cable coils on winching mechanism.
 Winch Hook Hazard Carry hook to load – do NOT throw or run.	 Flash / Blinding Hazard Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.	 Laser Hazard Laser may be in use – do NOT look directly at laser or allow others to.	 Choking Hazard Children under 8 yrs. Can choke or suffocate on small parts. Adult supervision required.

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Parts Identification



No.	Name	No.	Name
1	Dispensing Door Assembly	11	Driven Pulley
2	Dispenser Door Base	12	Belt
3	Operation Panel	13	Drive Pulley
4	Mix Level Probe	14	Proximity Switch
5	Hopper	15	Evaporator
6	Feed Tube	16	Compressor
7	Hopper Cover	17	Electrical Box
8	Plug of Feed Tube	18	Condenser
9	Coupling	19	Beater Motor
10	Gear Box	20	Drip Tray

Installation & Adjusting

Unpack & Inspect

1. Cut off the wrapping tape.
2. Open the wooden case using a screwdriver.
3. Remove the foam.
4. Carefully inspect the machine for any defects in appearance.
5. Check the accessories against the packing list.
6. Remove the fixing bolt and fixing feet at the bottom of the machine. Push the machine, allowing the front wheels to fall to the ground, then remove the wooden base, ensuring all four wheels are grounded. (For table-type machines, directly lift the machine to the ground or onto the table).

TIPS: When using the machine for the first time, there may be liquid residue in the cylinder. This is normal, caused by ex-factory cleaning, and will not affect the machine's performance or service life. We apologise for any inconvenience and thank you for your understanding.

7. The surface is protected by a plastic film that should be removed before use.

Installation

Selecting Location

1. Place the machine on a level counter that is stable and strong enough to safely support its weight.
2. Position the machine in a location that allows adequate space at the back and each side for proper ventilation. Maintain a 50 cm space from all sides for ventilation. The machine should be shaded from the sun and should not be located too close to units that radiate excessive heat.
3. Install the handle and drip tray according to the sticker and exploded diagram.

Power Supply

1. Select the proper power supply according to the voltage and power specified on the nameplate.
2. Connect the power wire to the power supply, ensuring that the yellow and green wire is firmly connected to the ground wire.

CAUTION: For safety, ensure the ground connection is in good condition. All exterior wires and other appliances must conform to national standards.

Testing Running

1. Connect the machine to the power supply. You will hear a "Beep", all the graphic patterns on the screen will light up, and then the graphic patterns will extinguish. The machine enters "Standby" mode.
2. Press "Clean". The corresponding indicator will light up, and you will hear the sound of the beater system working. Press the "Clean" button again to stop the beater system.
3. Press "Auto". The corresponding indicator will light up, and the beater system will start working. After 3 seconds, the cooling system will also start working.

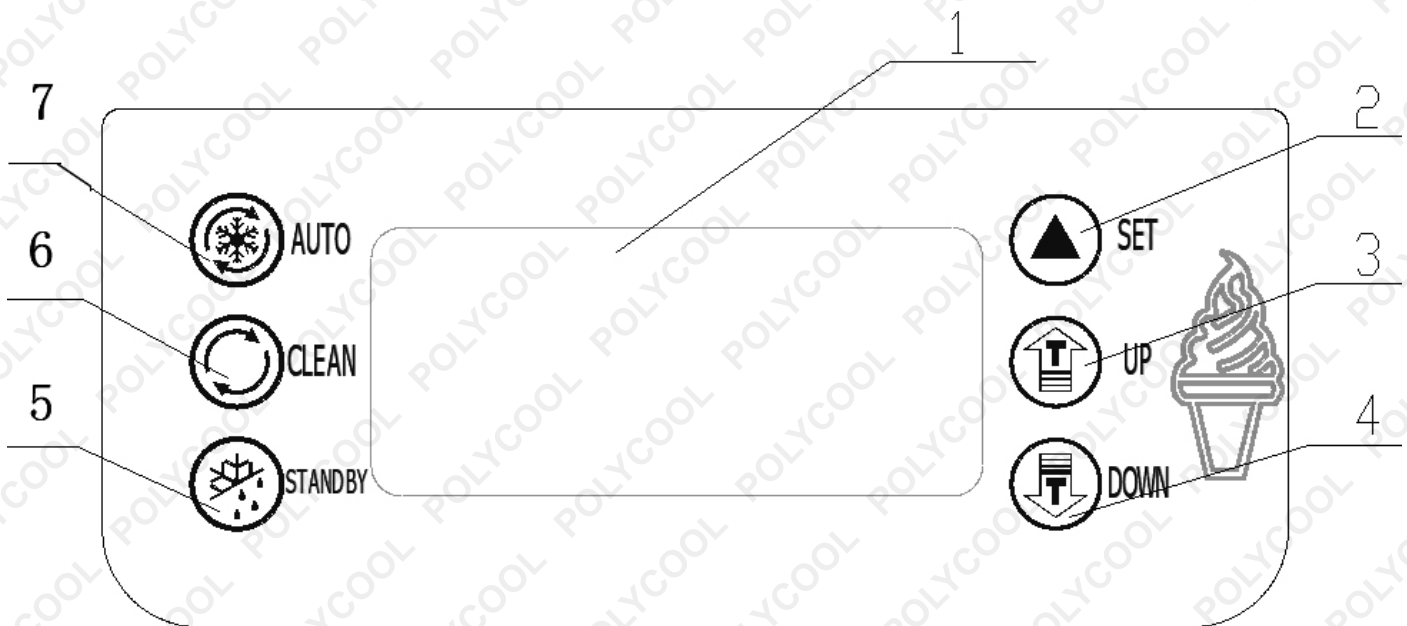
Cleaning & Sterilising

1. Prepare 5-6 litres of warm water and mix it with food detergent according to the manufacturer's specifications to create the sterilising solution.
2. Pour the solution into the hopper. While the solution flows into the freezing cylinder, brush and clean the mix hopper.
3. Press the "Clean" key and let the machine run for about 5 minutes.
4. Place an empty pail beneath the draw spout and push down the draw handle. Draw off all the solution.
5. Repeat this operation 2-3 times with water only.

NOTICE: The temperature of the sterilising solution should not exceed 60°C, as it will damage the spare parts. Draw off all the water in the hopper after cleaning, or it will damage the beater while the compressor is running. While pressing the "Clean" key, pay attention to the indicator light to avoid pressing the wrong key.

Operation

Control Panel Features



- | | |
|----------------------|----------------|
| 1. Display Screen | 5. Standby Key |
| 2. Set Key | 6. Clean Key |
| 3. Adjust Key (Up) | 7. Auto Key |
| 4. Adjust Key (Down) | |

SET Key (Up / Down)

Set Hardness Level:

1. When the machine is in ready mode, press and hold the UP or DOWN key for 2 seconds. The word "SET" on the display will flash, and the number shown will indicate the current hardness level.
2. For example, if the display shows "02", it means the current setting level is 2. The stiffness will increase or decrease by one level each time the "UP" or "DOWN" key is pressed.
3. The hardness level ranges from 1-10 (01 being the softest and 10 being the hardest).
4. It is suggested to keep the default number for the first use.

CLEAN Key

1. Press the "CLEAN" key, the "CLEAN" icon will light up, and the beater will start to work.
2. Press the "CLEAN" key again to stop the beater.

STANDBY Key

1. Press the "STANDBY" key, and the "STANDBY" icon will light up.
2. The hopper is controlled by the set temperature. It will stop when the temperature is less than the set value and will start again if the temperature in the hopper rises by 2°C.
3. When the temperature in the cylinder is less than the set value, the compressor stops. After 15 seconds, the beater motor stops.

4. When the temperature in the cylinder rises by 2°C, the beater motor starts, and after 3 seconds, the compressor starts.
5. The temperatures of the hopper and freezing cylinder can be directly displayed on the screen.

AUTO Key

1. Press the "AUTO" key, and the "Cool" icon will light up.
2. The hopper is controlled by the set temperature. It will stop when the temperature is less than the set value and will start again if the temperature in the hopper rises by 2°C.
3. The compressor for the cylinder will stop when the hardness value reaches 99. After 15 seconds, the beater motor stops.
4. The beater motor will start again when the set cycle time to restart the machine is reached. After 20 seconds, the compressor starts.

Making Ice Cream

Make Sure the Machine Is Clean and Sanitised Before Making Ice Cream

1. Prepare a sanitising solution with warm water (temperature between 50°C and 60°C), pour it into the hopper, and clean the wall of the hopper.
2. Turn on the power switch, then press the "CLEAN" key and operate for 5 minutes.
3. Place an empty pail under the dispensing door. Pull down the handle for 3 seconds, then return it by hand. Repeat this 6 times to clean the mix pump assembly thoroughly.
4. Draw out all the sanitising solution from the machine and turn off the "CLEAN" key.
5. Remove the 4 screws from the dispensing door, then remove the dispensing door assembly. Disassemble it and clean thoroughly in the sanitising solution. Reassemble it and put it back on the machine.
6. Pour clean water into the hopper and rinse it several times.
7. Use a clean towel to wipe water off the dispenser door.

Prepare the Mixer

Prepare the ice cream mix according to the instructions on your purchased ice cream powder or liquid mix. Ensure the liquid mix is free of impurities or particulates. Let it stand for 15 minutes or place it in the freezer.

Make Ice Cream

NOTICE: When using a new ice cream mix to make ice cream, set the hardness level to "02". Adjust the hardness level properly as the ice cream is dispensed.

1. Pour half of the fresh mix into the hopper.
2. Press the "CLEAN" key until the inlet hole of the pump cylinder is bubble-free. This is important for the shape of the ice cream.
3. Add more ice cream mix into the hopper and put the hopper cover on. Press the "AUTO" key to start operation. The number on the digital display will rise during operation. When the number reaches "99", the ice cream in the freezing cylinder is ready to serve.
4. Dispense ice cream by placing a cone or other container under the dispenser door, pulling down the handle to get the ice cream, and then pushing the handle back after dispensing.
5. Clean the machine after daily use. Dispense all the ice cream from the freezing cylinder and mix from the hopper. Clean and sanitise the machine as per the instructions above.

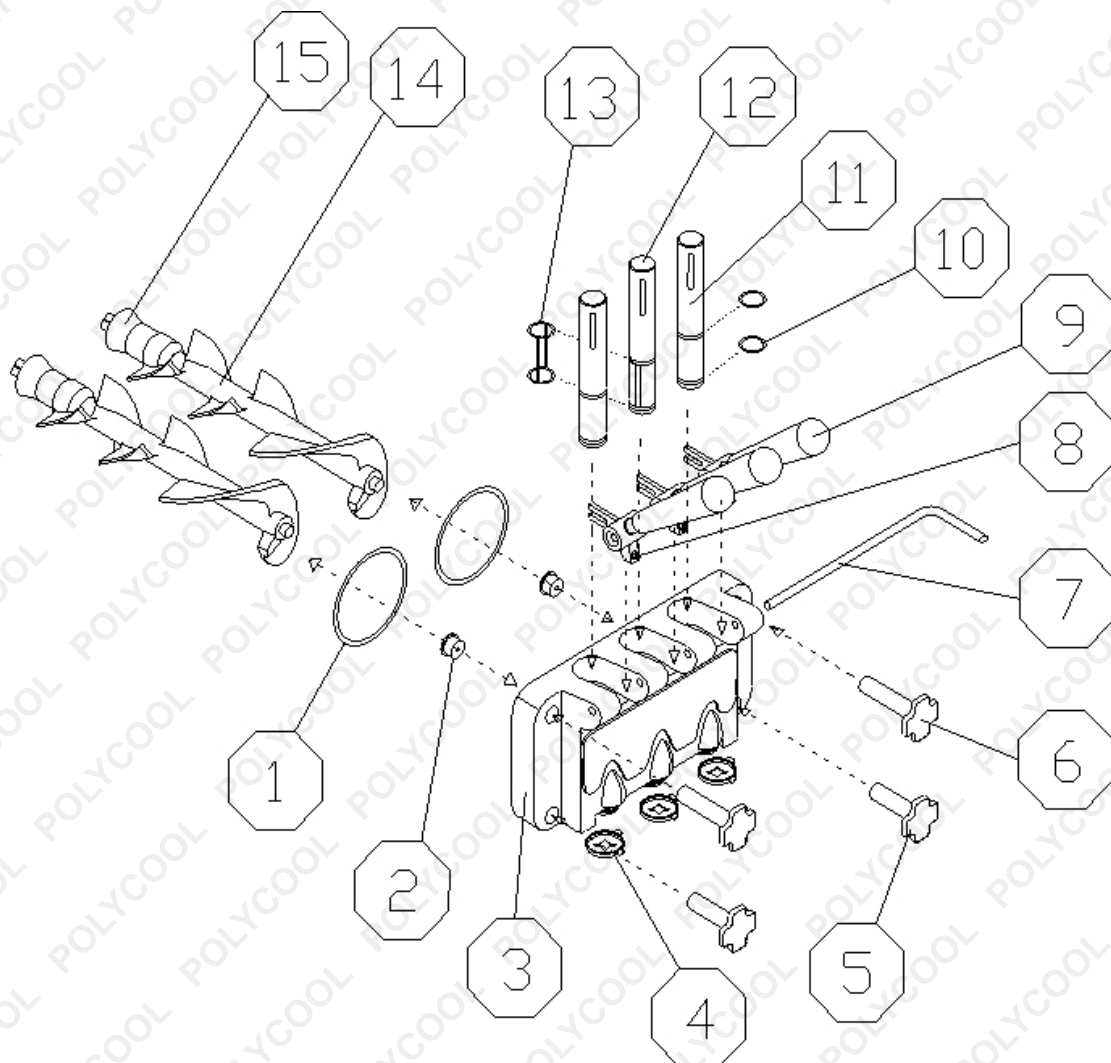
Maintenance

Different machines must be used and maintained according to their specific conditions and environment.

Washing Refrigeration Cylinders

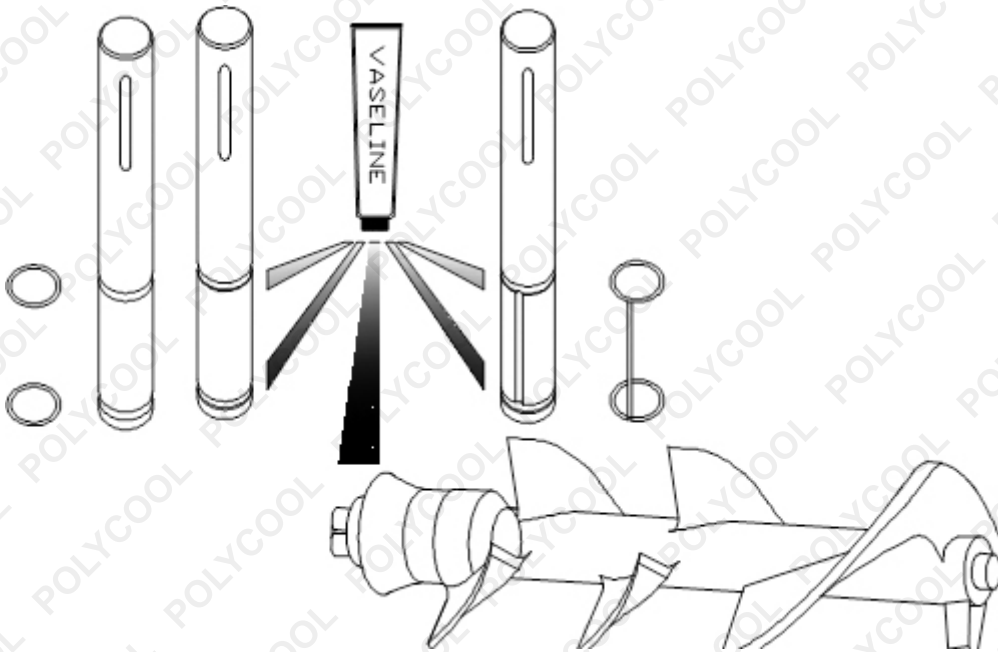
Clean the refrigeration cylinders daily to ensure a longer useful life and maintain customer health.

1. Press the "CLEAN" key to exhaust all the remaining slurry in the beverage containers and refrigeration cylinder, then click the " CLEAN " key. The machine will stop.
2. Prepare a disinfecting solution with warm water according to the instructions of the food detergent, then put the solution into each bucket.
3. Press the "CLEAN" key. After the machine stirs for about 5 minutes, discharge the disinfecting solution. Wash with water 2-3 times, then stop the machine.
4. Turn off the power and take apart the parts for washing.
 - a. Unscrew the four fastening screws in front of the dispenser door and remove the dispenser door.
 - b. Remove the following components from the dispenser door: pin of the handle, handle, piston, O-ring for the piston, and O-ring for the dispenser door.
 - c. Draw the beater from the refrigeration tank and remove the gasket for the beater.



- | | |
|------------------------------|-----------------------|
| 1. O-ring for dispenser door | 9. Handle |
| 2. Bearing sleeve for beater | 10. O-ring 20x2.65 |
| 3. Dispensing door | 11. Piston |
| 4. Modelling cap | 12. Middle piston |
| 5. Down bolt | 13. O-ring for piston |
| 6. Upper bolt | 14. Beater |
| 7. Pin for handle | 15. O-ring for beater |
| 8. Screw for handle | |

- d. Put the components into the disinfecting solution to clean them. Check the beater, bearing sleeve for beater, O-ring for dispenser door, O-ring for beater, and O-ring for piston. If any of these parts are worn or damaged, they should be replaced.
- e. After cleaning, lubricate the parts with Vaseline, then install the parts in reverse order of disassembly.



NOTICE: Before installing the piston, O-ring for piston, beater, and bearing sleeve for beater, you should lubricate them with Vaseline. Lubricate the O-ring for beater, but do not apply Vaseline to the beater's end. Frequent use of Vaseline can extend the service life of components.

Cleaning the Machine Cabinet

Keep the machine cabinet clean by using a wet towel to clean it. Do not flush the machine with water directly.

Cleaning the Condenser

After being used for a period of time, the condenser may accumulate dust, affecting its ability to radiate heat and causing refrigeration issues. Therefore, it needs periodic cleaning (every six months).

Cleaning Methods:

1. Disconnect the main power switch.
2. Remove the back panel and side panels.
3. Clean the dust using tools such as a vacuum cleaner, high-pressure air, and a hairbrush. Be careful while cleaning to avoid damaging the fins of the condenser.

Belt Adjustment

After being used for a period of time, the belt of the machine may elongate and need adjustment.

Adjustment Methods:

1. Disconnect the main power of the machine.
2. Remove the back panel and side panels.
3. Adjust the tension bolt to ensure the belt is appropriately tensioned.

Setting Parameters

The default parameters are set at the factory and do not require any adjustment from the default values. Only adjust these if absolutely necessary.

When the machine is in "standby" mode:

1. Press and hold the SET key for 5 seconds. The "SET" window will display the "P1" icon (Periodic Restarting Time Setting).
2. Press the "SET" key again, and the window will display "05" (The variable range is from 5 to 15 minutes). Press the "UP" and "DOWN" keys to change the setting value.
3. Continue pressing the "SET" key twice. Each time you press the "SET" key, the icon display on the window will change. When each icon appears, press the "SET" key once to change the setting you want. The value can be adjusted by pressing the "UP" and "DOWN" keys.

Icon	Implication	Variable range
P1	Periodic Restarting Time Setting	5~15 minutes
P2	Stop Delay of Compressor	5~30 seconds
C1	Air Pump Working Time Setting	1~30 seconds
C2	Air Pump Off-Working Time Setting	1~30 seconds
P8	Pre-Cooling Temperature of the Hopper	
P9	Pre-Cooling Temperature of the Cylinder	1~15°C

4. Press the "SET" key, and the machine will enter the circulatory volume setting mode. If there is no operation within ten seconds, the settings will be automatically saved, and the machine will return to the standby mode.

Troubleshooting

Problems	Probable Cause	Remedy
Machine does not run	Machine not plugged into the wall receptacle	Plug machine in
	The short-circuiting switch is open	Restart it after it is repositioned
	Protect circuit	Remove the trouble
Machine in clean position does not run	The connecting wire is unfastened	Check and fasten the wire
	The beater motor broke	Repair or change the beater motor
	Mini circuit breaker was broken	Find and solve the problem, then reposition it
Machine in auto position does not run	The wire of function switch is unfastened	Check and fasten the wire
	There is some problem with the control panel	Change the control panel
Compressor does not run	Low voltage	Solve the problem of low voltage
	Contactor broke	Change the contactor
	The relay of the compressor broke	Change the control panel
	There is some problem with the control panel	Change the control panel
	The self-protection of the compressor because of overload	Find and solve the problem
	The compressor broke	Change the compressor
	The capacitor of the compressor broke	Change the capacitor
Machine does not freeze down	Leakage of the refrigerant	Find and repair the leak in the pipe, then vacuum and recharge the refrigerant
	Electrical valve broke	Change the electrical valve
	Fan motor does not run	Repair or change the fan motor
	The capacitor of the fan motor broke	Change the capacitor of the fan motor
Machine non-stop	The set point is too low	Increase the set point
	There is some problem with the control panel	Change the control panel
	Refrigeration difference	Check and repair the refrigerating system
The relay is not stable	Low voltage	Solve the problem of low voltage
	There is some problem with the control panel	Change the control panel
	The touch point of the contact switch broke	Remove the touch point or change the contact switch

Problems	Probable Cause	Remedy
Product does not dispense	The proportion of mix is incorrect, causing refrigeration difference	Make up a proper proportion of mix
	No mix in the hopper	Pour the mix into the hopper
	Limit switch broke or the tie wire is unfastened	Change the switch or fasten the wire
	The belt is unfastened or slipping	Change or adjust the belt
	The bearing sleeve or the beater shaft worn	Change the bearing sleeve or the beater shaft
The product is too soft	The proportion of the formula is wrong	Compound the mix according to the formula given by the supplier
	The set point is too low	Increase the set point
Leakage	Draw piston leaking	Reassemble or change the O-ring
	Dispenser door leaking	Tighten the screws or change the D-ring
	Drip tube leaking	Fix well or change the gasket for the beater
Warm rings	Low voltage protection	Stop the machine, solve the problem, and restart 5 minutes later
	Stop working for protection	Stop the machine, solve the problem, and restart 5 minutes later
	The limit switch cannot return to normal	Push down the handle and let the limit switch return to normal
Nixie tube displays “NL”	The belt is slipping, or the motor has lost speed	Adjust or replace the belt, solve the fault of the motor
Nixie tube displays “—”	The proximity switch is deflected or broken	Adjust or replace the proximity switch

Error Codes

Code	Issue
NL	Belt creep or electric motor has lost speed.
--	Approach switch breakdown or mixing electric motor is not working.
Cb	Ejection of compact switch continues for over 1 minute.
HH	System high voltage protection.
LL	The temperature setting value of the left or right jar is 0, or the sensor is open circuit.
RH	The temperature is over 60°C, or the sensor is open circuit.
RL	The temperature is below -16°C, or the sensor is open circuit.
Bb	Enter into retain freshness state.
CL	Incomplete filling alarm function.

Specifications

Compressor	Donper
Beater Motor	750W
Hopper capacity	2 x 5.5L
Cylinder Capacity	2 x 1.6L
Input Voltage	220V
Refrigerant	R290
Temperature	≤ -3.5 degree
Preparation Time	14 mins
Feed Type	Gravity Fed
Production Capacity	16-22L/H
Control Panel	LED
Body Material	Stainless steel

Note: Requires minor assembly



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging, and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear, or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear, or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business, or employee, or financially affect the user, business, or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement, or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

