

LANCER®

SENSATION LANCER INSTALLATION GUIDE



FOR QUALIFIED INSTALLER ONLY. This basic Installation Sheet is an initial release. If a complete Operations Manual (for the unit being installed) is required or needed, please refer to the Lancer web site (lancercorp.com) for immediate access, or for your convenience, scan this QR code with a mobile device (app required) for immediate access Contact Lancer Customer Service for assistance as required.

ABOUT THIS MANUAL

This booklet is an integral and essential part of the product and should be handed over to the operator after the installation and preserved for any further consultation that may be necessary. Please read carefully the guidelines and warnings contained herein as they are intended to provide the user with essential information for the continued safe use and maintenance of the product. In addition, it provides **GUIDANCE ONLY** to the user on the correct services and site location of the unit.

BEFORE GETTING STARTED

Each unit is tested under operating conditions and is thoroughly inspected before shipment. At the time of shipment, the carrier accepts responsibility for the unit. Upon receiving the unit, carefully inspect the carton for visible damage. If damage exists, have the carrier note the damage on the freight bill and file a claim with carrier. Responsibility for damage to the dispenser lies with the carrier.

The installation and relocation, if necessary, of this product must be carried out by qualified personnel with up-to-date safety and hygiene knowledge and practical experience, in accordance with current regulations.

IMPORTANT SAFETY INSTRUCTIONS

⚠ Intended Use

The dispenser is for indoor use only. This unit is not a toy. Children should not be supervised not to play with appliance. It should not be used by children or infirm persons without supervision. 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. Cleaning and user maintenance shall not be performed by children without supervision. The min/max ambient operating temperature for the dispenser is 40°F to 105°F (4°C to 41°C). Do not operate unit below minimum ambient operation conditions. Should freezing occur, cease operation of the unit and contact authorized service technician. Service, cleaning and sanitizing should be accomplished only by trained personnel. Applicable safety precautions must be observed. Instruction warnings on the product being used must be followed.

⚠ Uso Previsto

El dispensador sólo debe usarse en interiores. Esta unidad no es un juguete. Los niños deben ser supervisados para no jugar con aparato. No la deben usar niños ni personas discapacitadas sin supervisión. Esta unidad no está destinada al uso por parte de personas (incluso niños) con capacidad física, sensorial o mental reducida, o sin experiencia y conocimientos suficientes, a menos que una persona responsable de su seguridad les haya dado supervisión o capacitación en el uso de la unidad. Limpieza y mantenimiento de usuario no deberá ser realizada por los niños sin supervisión. La temperatura ambiente operativa mínima / máxima para el dispensador es de 40°F a 105°F (4°C a 41°C). No opere la unidad debajo de las condiciones de funcionamiento ambientales mínimos. En caso de congelación se produce, cesar la operación de la unidad y el contacto técnico de servicio autorizado. Servicio de limpieza y desinfección deben llevarse a cabo solamente por personal capacitado. Es necesario tomar medidas de seguridad aplicables. Advertencias de las instrucciones sobre el producto utilizado se deben seguir.

⚠ Utilisation Prévue

Le distributeur est destiné à un usage à l'intérieur seulement. Cet appareil n'est pas un jouet. Les enfants doivent être surveillés afin de ne pas jouer avec l'appareil. Il ne devrait pas être utilisé par des enfants ou des personnes infirmes sans surveillance. Cet appareil n'est pas destiné à un usage par des personnes (y compris les enfants) ayant des capacités physiques, sensorielles ou mentales réduites, ou manquant d'expérience et de connaissances, à moins qu'elles obtiennent de la surveillance ou des instructions au sujet de l'utilisation de l'appareil de la part d'une personne chargée de leur sécurité. Nettoyage et entretien de l'utilisateur ne doivent pas être effectués par des enfants sans surveillance. La température de service ambiante minimum / maximum pour le distributeur est de 40°F à 105°F (4°C à 41°C). Ne pas utiliser l'appareil dans des conditions de performance environnementale minimale. En cas de gel, cesser l'exploitation de l'unité et contactez un technicien agréé. Nettoyage et désinfection doivent être effectuées uniquement par du personnel qualifié. Vous devez prendre des mesures de sécurité. Avertissements instructions sur le produit utilisé doivent être respectées.



4800

LANCER PN: 28-0885/03

⚠ Electrical Warning

Check the dispenser name plate label, located behind the splash plate, for the correct electrical requirements of unit. Do not plug into a wall electrical outlet unless the current shown on the serial number plate agrees with local current available. Follow all local electrical codes when making connections. Each dispenser must have a separate electrical circuit. Do not use extension cords with this unit. Do not 'gang' together with other electrical devices on the same outlet. The keyswitch does not disable the line voltage to the transformer primary. Always disconnect electrical power to the unit to prevent personal injury before attempting any internal maintenance. The resettable breaker switch should not be used as a substitute for unplugging the dispenser from the power source to service the unit. Only qualified personnel should service internal components of electrical control housing. Make sure that all water lines are tight and units are dry before making any electrical connections!

⚠ Advertencia Eléctrica

Revise la etiqueta de identificación para el dispensador, ubicado detrás de la placa frontal, para los requisitos eléctricos. No enchufe la unidad en un tomacorriente de pared a menos que la corriente indicada en la placa con el número de serie concuerde con la corriente local disponible. Al hacer las conexiones, respete todos los códigos eléctricos locales. Cada dispensador debe tener un circuito eléctrico independiente. No use extensiones con esta unidad. No la conecte junto con otros dispositivos eléctricos al mismo tomacorriente. El interruptor de llave no corta el voltaje de línea al transformador primario desconecte siempre la alimentación eléctrica a la unidad para evitar lesiones personales antes de tratar de realizar tareas de mantenimiento. El disyuntor de sobrecarga reseteable no se debe usar como sustituto para desenchufar el dispensador de la fuente de alimentación para realizar tareas de servicio de la unidad. El servicio de los componentes internos de la caja de control eléctrico debe confiarse exclusivamente a personal calificado. Asegúrese de que todas las líneas de agua estén ajustadas y las unidades estén secas antes de hacer conexiones eléctricas!

⚠ Avertissement Électrique

Vérifiez l'étiquette de notation derrière la face avant, pour les besoins de puissance correctes pour l'unité. Ne le branchez pas à une prise électrique murale à moins que le courant indiqué sur la plaque de numéro de série corresponde au courant local disponible. Respectez tous les codes électriques locaux lorsque vous faites des connexions. Chaque distributrice doit avoir un circuit électrique séparé. N'utilisez pas de cordons prolongateurs avec cet appareil. Ne pas le brancher avec d'autres appareils électriques sur la même prise. L'interrupteur à clé ne coupe pas la tension secteur au transformateur primaire. Débranchez toujours le courant électrique à l'appareil, afin de prévenir des blessures, avant de faire un entretien interne quelconque. Le disjoncteur réarmable ne devrait pas être utilisé au lieu de débrancher le distributeur de la source d'alimentation en électricité pour faire de l'entretien/une réparation de l'appareil. Seul le personnel qualifié devrait faire l'entretien/la réparation des composants internes dans le logement des commandes électriques. Assurez-vous que toutes les conduites d'eau sont étanches et que les appareils sont secs avant de faire des connexions électriques!

⚠ Carbon Dioxide (CO₂)

- **WARNING:** Carbon Dioxide (CO₂) is a colorless, noncombustible gas with a light pungent odor. High percentages of CO₂ may displace oxygen in the blood.
- **WARNING:** Prolonged exposure to CO₂ can be harmful. Personnel exposed to high concentrations of CO₂ gas will experience tremors which are followed by a loss of consciousness and suffocation.
- **WARNING:** If a CO₂ gas leak is suspected, immediately ventilate the contaminated area before attempting to repair the leak.
- **WARNING:** Strict attention must be observed in the prevention of CO₂ gas leaks in the entire CO₂ and soft drink system.

⚠ El Anhídrido Carbónico (CO₂)

- **ADVERTENCIA:** El anhídrido carbónico (CO₂) es un gas incoloro, no combustible, con un olor pungente ligero. Altos porcentajes de CO₂ en la sangre pueden desplazar el oxígeno en la sangre.
- **ADVERTENCIA:** La exposición prolongada al CO₂ puede ser nociva. El personal expuesto a concentraciones altas de CO₂ sufre temblores seguidos de la pérdida de la consciencia y sofocación.
- **ADVERTENCIA:** Si se sospecha que existe una pérdida de CO₂, ventile el área contaminada antes de tratar de reparar la pérdida.
- **ADVERTENCIA:** Hay que prestar suma atención para evitar pérdidas de CO₂ en todo el sistema de CO₂ y de bebidas gaseosas.

⚠ Dioxyde De Carbone (CO₂)

- **AVERTISSEMENT:** Le dioxyde de carbone (CO₂) est plus lourd que l'air et déplace l'oxygène. Le CO₂ est un gaz incolore et incombustible, ayant une odeur un peu âcre.
- **AVERTISSEMENT:** Des concentrations fortes de CO₂ peuvent déplacer l'oxygène dans le sang. Une exposition prolongée au CO₂ peut être nocive. Le personnel exposé à de fortes concentrations de CO₂ gazeux éprouvera des tremblements, suivis rapidement d'une perte de conscience et de suffocation.
- **AVERTISSEMENT:** On doit faire très attention de prévenir les fuites de CO₂ gazeux dans le système entier de CO₂ et de boisson gazeuse.
- **AVERTISSEMENT:** Si on suspecte qu'il y a une fuite de CO₂ gazeux, aérez le secteur contaminé immédiatement avant d'essayer de réparer la fuite.

⚠ Water Notice

Provide an adequate potable water supply. Water pipe connections and fixtures directly connected to a potable water supply must be sized, installed, and maintained according to federal, state, and local laws. The water supply line must be at least a 3/8 inches (9.525 mm) pipe with a minimum of 25 PSI (0.172 MPA) line pressure, but not exceeding a maximum of 50 PSI (0.345 MPA). Water pressure exceeding 50 PSI (0.345 MPA) must be reduced to 50 PSI (0.345 MPA) with the provided pressure regulator. Use a filter in the water line to avoid equipment damage and beverage off-taste. Check the water filter periodically, as required by local conditions. The water supply must be protected by means of an air gap, a backflow prevention device or another approved method to comply with NSF standards. A leaking inlet water check valve will allow carbonated water to flow back through the pump when it is shut off and contaminate the water supply. Ensure the backflow prevention device complies with ASSE and local standards. It is the responsibility of the installer to ensure compliance.

⚠ Agua Aviso

Proporcione un suministro adecuado de agua potable. La línea de suministro de agua debe ser de una tubería de por lo menos 3/8 pulgadas (9.525 mm) con una presión de línea mínima de 25 PSI (0.172 MPA) , pero sin superar el máximo de 50 PSI (0.345 MPA). La presión de agua que supere los 50 PSI (0.345 MPA) se debe reducir a 50 PSI (0.345 MPA) con un regulador de presión. Use un filtro en la línea de agua para evitar daños al equipo y cierto sabor raro en las bebidas. Verifique periódicamente el filtro de agua de acuerdo con las condiciones imperantes. El suministro de agua debe estar protegido por una separación de aire, un dispositivo de prevención del contraflujo u otro método aprobado para cumplir las normas NSF. Si la válvula de retención de entrada de agua tuviera pérdidas, permitiría el contraflujo del agua carbonatada a través de la bomba cuando se la detiene y contaminaría el suministro de agua. Asegúrese de que el dispositivo de prevención del contraflujo cumpla con las normas locales y de ASSE. Es responsabilidad del instalador cumplir con estos requisitos.

⚠ Préavis De L'eau

Fournissez une alimentation en eau potable adéquate. Les connexions et les dispositifs de conduite d'eau connectés directement à une alimentation en eau potable doivent être calibrés, installés et maintenus selon les lois fédérales, provinciales et locales. La conduite d'alimentation en eau doit être un tuyau d'au moins 3/8 pouces (9.525 millimètres) avec une pression de ligne minimum de 25 LPC (0.172 MPA) , mais ne doit pas dépasser un maximum de 50 LPC (0.345 MPA). Une pression d'eau de plus de 50 LPC (0.345 MPA) doit être réduite à 50 LPC (0.345 MPA) avec le régu- lateur de pression fourni. Utilisez un filtre dans la conduite d'eau pour éviter des dommages à l'équipement et un goût des boissons qui n'est pas juste. Vérifiez le filtre à eau périodiquement, selon les exigences des conditions locales. L'alimentation en eau doit être protégée au moyen d'un intervalle d'air, un disconnecteur hydraulique ou une autre méthode approuvée pour se conformer aux normes de la NSF. Un clapet antiretour pour l'eau entrante qui fuie permettra à l'eau gazeuse de repasser par la pompe quand elle est fermée et de contaminer l'alimentation en eau. Assurez-vous que le disjoncteur hydraulique soit conforme aux normes de l'ASSE et locales. L'installateur est responsable d'assurer la conformité.

⚠ Automatic Agitation

Units are equipped with an automatic agitation system and will activate unexpectedly. Do not place hands or foreign objects in the ice bin. Unplug the dispenser during servicing, cleaning, and sanitizing. To avoid personal injury, do not attempt to lift the dispenser without assistance. For heavier dispensers, use a mechanical lift.

⚠ Agitación Automática

Las unidades están equipadas con un sistema automático de agitación, por lo que se pueden activar repentinamente. No ponga las manos ni objetos extraños en el compartimiento donde se guarda el hielo. Durante el servicio, la limpieza y la esterilización, desenchufe el dispensador. Para evitar lesiones personales, no trate de levantar el dispensador sin ayuda. Para los dispensadores más pesados, use un elevador mecánico.

⚠ Agitation Automatique

Les appareils sont équipés d'un système d'agitation automatique qui s'activera de manière inattendue. Ne mettez pas les mains ou des corps étrangers dans le compartiment d'entreposage de glace. Débranchez le distributeur pendant l'entretien/la réparation, le nettoyage et l'aseptisation. Pour éviter des blessures, n'essayez pas de soulever le distributeur sans aide. Pour les distributeurs plus lourds, utilisez un chariot élévateur.

SPECIFICATIONS

Sensation - 4800

DIMENSIONS

Width: 30.0 inches (762 mm)
Depth: 31.0 inches (787 mm)
Height: 37.25 inches (946 mm)

WEIGHT

Shipping: 335 lbs (152 kg)
Empty: 275 lbs (125 kg)
Ice Capacity: 250 lbs (113.6 kg)
Ice Dispensable: 185 lbs (84 kg)

ELECTRICAL

115 VAC / 60 Hz / 3.0 Amps

PLAIN WATER SUPPLY

Min Flowing Pressure: 75 PSIG (0.517 MPA)

CARBONATED WATER SUPPLY

Min Flowing Pressure: 25 PSI (0.172 MPA)
Max Static Pressure: 50 PSI (0.345 MPA)

CARBON DIOXIDE (CO₂) SUPPLY

Min Pressure: 70 PSIG (0.483 MPA)
Max Pressure: 80 PSIG (0.552 MPA)

FITTINGS

Carbonated Water Inlet: 3/8 inch barb
Plain Water Inlet: 3/8 inch barb
Brand Syrup Inlets: 3/8 inch barb

This unit emits a sound pressure level below 70 dB

READ THIS MANUAL

This manual was developed by the Lancer Corporation as a reference for the owner/operator and installer of this dispenser. Please read this guide before installation and operation of this dispenser. If service is required please call your Lancer Service Agent or Lancer Customer Service. Always have your model and serial number available when you call.

Your Service Agent: _____

Service Agent Telephone Number: _____

Serial Number: _____

Model Number: _____

Installation Date: _____

INSTALLATION

Unpack the Dispenser

1. Set shipping carton upright on the floor then cut package banding straps and remove.
2. Open top of carton and remove interior packaging.
3. Lift carton up and off of the unit.
4. Remove plywood shipping base from unit by moving unit so that one side is off the counter top or table allowing access to screws on the bottom of the plywood shipping base.

NOTE

If unit is to be transported, it is advisable to leave the unit secured to the plywood shipping base.

5. Remove accessory kit and loose parts from ice compartment.

NOTE

Inspect unit for concealed damage. If evident, notify delivering carrier and file a claim against the same.

6. If leg kit has been provided, assemble legs by tilting unit.

Inspection of Drain Spider

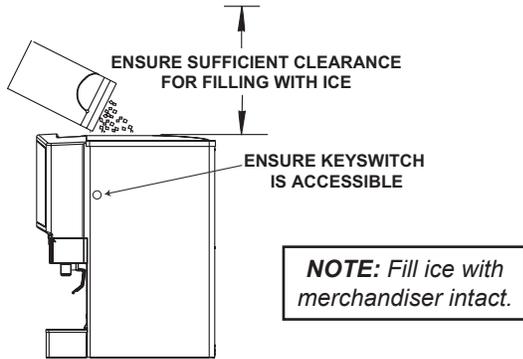
NOTE

The drain spider is located to the right side near the front of the bin under the ice shroud. The coldplate has a cavity designed to hold the drain spider. During shipment, the drain spider may become dislodged from its original position. Prior to installing the unit, ensure the drain spider is in the correct position. This will prevent drain clog issues. Inspect the lower bin area and reach under the shroud to ensure the drain spider is secure in the coldplate cutout. If the spider is not in place, proceed with the following steps.

1. Remove agitator clip and pin from agitator bar.
2. Remove agitator bar from paddle wheel.
3. Remove paddle wheel.
4. Remove ice shroud by lifting back then out of bin.
5. Locate drain spider and reinstall in the coldplate cavity where drain line exits.
6. Reinstall all components. Ensure agitator clip is locked.

Selecting/Preparing Counter Location

1. Select a level, well ventilated location that is in close proximity to a properly grounded electrical outlet, within five (5) feet (1.5 m) of a drain, a water supply that meets the requirements shown in the Specifications section found on page 4, away from direct sunlight or overhead lighting, and has sufficient clearance for air circulation.
2. Sufficient clearance must be provided (if an ice maker is not installed) to allow filling ice compartment from a five (5) gallon bucket (a minimum of 16 inches is recommended).



3. Inspect the counter location where the unit is to be installed. Verify the selected counter is strong enough to safely support the weight of the dispenser, the ice, and the icemaker (if necessary) after counter cut out is made. The total weight (with icemaker) for this unit could exceed 800 pounds (383.6 kg).

NOTE

Lancer does **NOT** recommend the use of shaved or flake ice in the dispenser. The ice level should not exceed the height of the metal bin wall when filled manually.

4. Unit may be installed directly on countertop or on legs. If installed directly on the counter, unit must be sealed to the countertop with an FDA approved sealant. If an icemaker is to be mounted on top of dispenser, do not install dispenser on legs.

NOTE

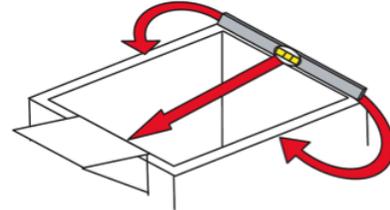
NSF listed units must be sealed to the counter or have four (4) inch legs installed.

5. Select a location for the remote carbonator, syrup pumps, CO₂ tank, syrup containers, and water filter (recommended).

NOTE

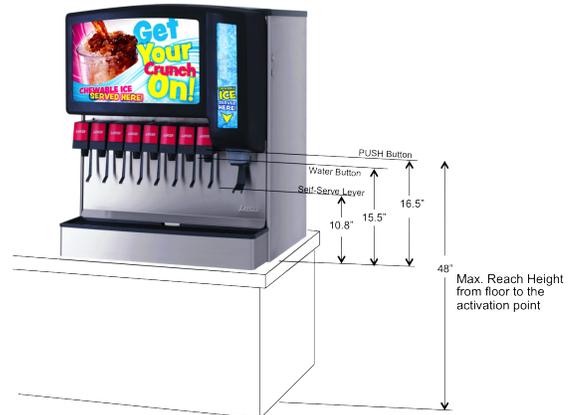
Connecting lines can be run through the back of the dispenser or extend down through a counter cutout.

6. In order to facilitate proper dispenser drainage, ensure that the dispenser is level, front to back and side to side. Place a level on the top of the rear edge of the dispenser. The bubble must settle between the level lines. Repeat this procedure for the remaining three sides. Level unit if necessary. For optimum performance place the unit at a 0° tilt. The maximum tilt is 5°.



NOTE

To assure that beverage service is accessible to all customers, Lancer recommends that counter height and equipment selection be planned carefully. The 2010 ADA Standards for Accessible Design states that the maximum reach height from the floor should be no more than 48" if touch point is less than 10" from the front of the counter, or a maximum of 46" if the touch point is more than 10" and less than 27" from the front of the counter. For more information about the customer's legal requirements for the accessibility of installed equipment, refer to 2010 ADA Standards for Accessible Design - <http://www.ada.gov>.



Installing an Icemaker (if necessary)

⚠ ATTENTION

When installing an icemaker on the dispenser, use a bin thermostat to control the ice level (see below). This will prevent damage to the dispensing mechanism. The bracket for mounting a thermostat is located in the ice bin. During the automatic agitation cycle and while dispensing ice, ensure there is adequate space between the top of the ice level and the bottom of the icemaker so the ice can move without obstruction. Contact your icemaker manufacturer for information on a suitable bin thermostat.

⚠ ATENCIÓN

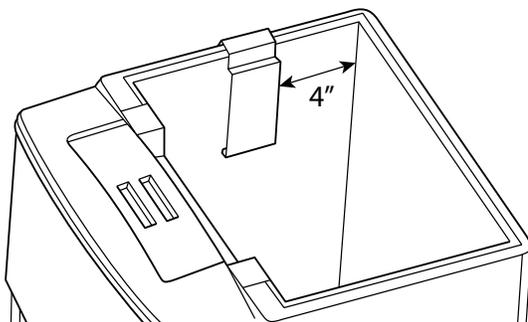
Al instalar una máquina de hielo en una unidad de IBD, a bin termostato u otros medios de controlar el nivel de hielo debe estar instalado. No hacerlo puede causar daños al mecanismo dispensing y anular la garantía. Durante el ciclo automático agitación y / o hielo, mientras que la dispensación, debe haber espacio suficiente entre el top del nivel de hielo y el fondo de la máquina de hielo para que el ice puede moverse sin obstrucción. Contacto con su proveedor de fabricación de hielo para información sobre adecuado bin termostato.

⚠ ATTENTION

Lorsque vous installez une machine à glaçons sur une unité eia, un thermostat du bac ou autres moyens de contrôler le niveau de la cie doit être installé. Panne de le faire pourrait provoquer des dommages au mécanisme de distribution et annule la garantie. Pendant le cycle automatique agitation et / ou tout distribution de glace, doivent trouver place suffisante entre le sommet de l'échelle de l'ice et le bas de la machine à glaçons pour que la glace peut se déplacer sans entrave. Contactez votre fournisseur de icemaker informations sur une bonne thermostat du bac.

1. Install the icemaker per manufacturer specifications. Points of consideration include drainage, ventilation, and drop zones.

Attach Bin Stat Bracket As Shown



2. An adapter plate is required when installing an icemaker. Contact your Sales Representative or Lancer Customer Service for more information.
3. A bin thermostat is required in order to control the level of ice in the dispenser (Refer to ATTENTION to the left). Contact your icemaker manufacturer to obtain the correct bin thermostat.
4. Bin thermostat should be a minimum of 2" below the top edge of the dispenser. The preferred location of the bin thermostat is on the left side wall.

⚠ ATTENTION

Failure to use an ice bin thermostat will not only void your IBD's warranty but will result in the inability to control the level of ice in the ice bin which can cause damage to your dispenser.

⚠ ATENCIÓN

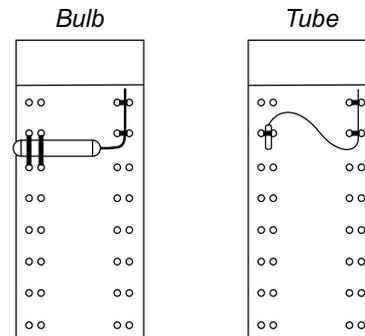
Falta de uso un bin termostato no sólo anular la garantía del IBD pero dará lugar a la incapacidad de controlar el nivel de hielo en el depósito de hielo lo que puede causar daños a su dispensador.

⚠ ATTENTION

Ne pas utiliser un thermostat de bac à glaçons ne sera pas seulement annuler la garantie de votre MII, mais se traduira par l'incapacité de contrôler le niveau de la glace dans le bac à glaçons qui peut causer des dommages à votre distributeur.

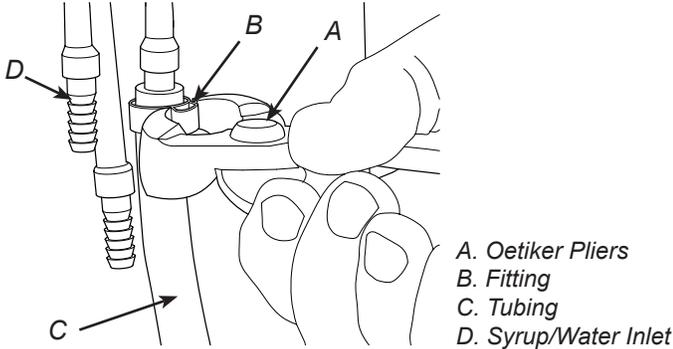
5. Ensure the icemaker is installed properly to allow for removal of the Merchandiser.
6. Ensure manual fill is accessible.
7. Clean and maintain icemaker per manufacturer's instructions.

Recommended Bin Stat Attachment



Dispenser Installation

1. Install unit to counter.
2. Remove the splash plate and top cover.
3. Remove the merchandiser by removing the two (2) screws located on the faucet plate (from left to right) above the third (3rd) and sixth (6th) valve.
4. Remove the drip tray and cup rest.
5. Route appropriate tubing from the water source to the plain water inlet at the front of the unit and connect tubing to inlet using the oetiker pliers and fittings, (see Plumbing Diagram on the front of the unit or on page 25 for reference).



6. Route appropriate tubing from the remote carbonator to the carbonated water inlet and connect tubing to inlet.
7. If no remote carbonator is installed, install the carbonator per manufacturer's instructions.
8. Connect tubing to water source then flush water lines to check for leaks
9. Route appropriate tubing from the syrup pump location to the syrup inlets in front of the unit and connect tubing to all inlets.
10. Route appropriate tubing from the CO₂ source location to the CO₂ inlet at the remote carbonator location.
11. Route the power supply cord to a grounded electrical outlet of the proper voltage and amperage rating.

⚠ WARNING

DO NOT PLUG UNIT INTO GROUNDED ELECTRICAL OUTLET AT THIS TIME. Make sure that all water lines are tight and unit is dry before making any electrical connections

⚠ ADVERTENCIA

NO ENCHUFE TODAVÍA LA UNIDAD A UN TOMACORRIENTE CON PUESTA A TIERRA. Antes de efectuar las conexiones eléctricas, asegúrese de que todas las tuberías de agua estén ajustadas y que la unidad esté seca.

⚠ AVERTISSEMENT

À CE STADE, NE BRANCHEZ PAS L'APPAREIL À UNE PRISE ÉLECTRIQUE MISE À LA TERRE. Veillez à ce que les conduites d'eau soient étanches et que l'appareil soit sec avant de procéder à des raccordements électriques

12. Route drain hose from designated open type drain to fitting on Drip Tray and connect hose to fitting.

⚠ CAUTION

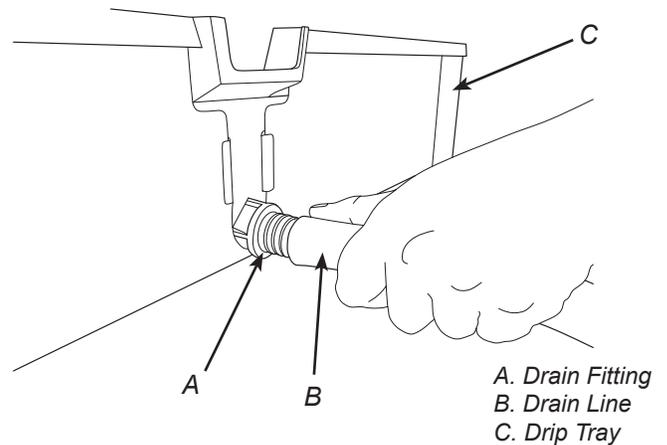
Drain line must be insulated with a closed cell insulation. Insulation must cover the entire length of the drain hose, including fittings. The drain should be installed in such a manner that water does not collect in sags or other low points, as condensation will form.

⚠ PRECAUCIÓN

Línea de drenaje debe estar aislado con un aislamiento de células cerradas. Aislamiento debe cubrir toda la longitud de la manguera de drenaje, incluyendo conexiones. El drenaje debe instalarse de modo que el agua no se acumula en caídas u otros puntos bajos, como se formará condensación.

⚠ PRUDENCE

La ligne de vidange doit être isolé avec un isolant à cellules fermées. L'isolation doit couvrir toute la longueur du tuyau de vidange, y compris les connexions. Le drain doit être installé de telle sorte que l'eau ne s'y accumule pas dans les chutes ou les autres points faibles, parce que la condensation se forme.



⚠ ATTENTION

Pouring hot water down the drain may cause the Drain Tube to collapse. Allow only luke warm or cold water to enter the Drain Tube. Pouring coffee, tea, or other similar substances down the drain may cause the Drain Tube to become clogged.

⚠ ATENCIÓN

Echar agua caliente por el drenaje puede provocar que el tubo de drenaje se colapse. Permitir que sólo agua tibia o fría para entre en el tubo de drenaje. Echando café, té u otras sustancias similares en el drenaje puede causar que el tubo de drenaje se obstruya.

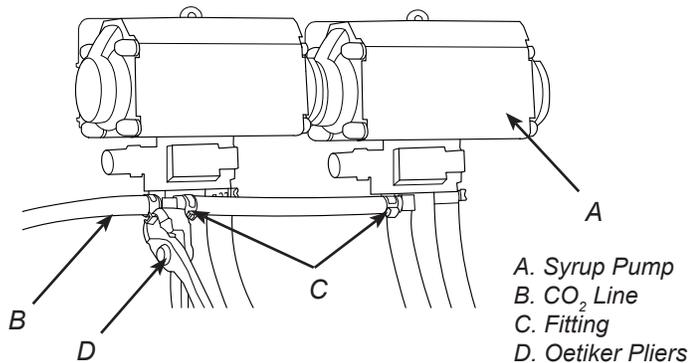
⚠ ATTENTION

Verser l'eau chaude dans le drain Peut provoquer le tube de drainage de l'effondrement. Seulement permettre à l'eau chaude ou froide luke pour entrer dans le tuyau de vidange. Verser le café, le thé, ou autre comme substances dans le drain Peut provoquer le tuyau de vidange à se boucher.

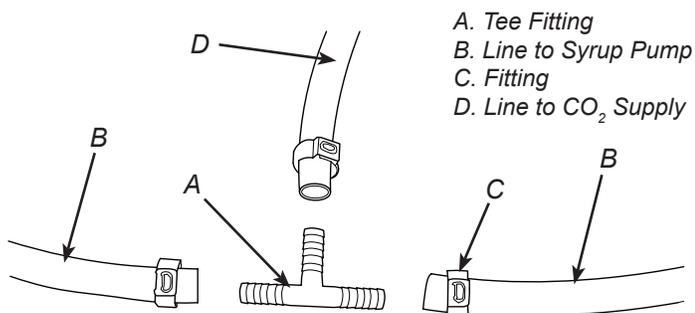
13. Reattach Drip Tray/Cup Rest to unit.

Installing Remote Syrup Pumps - Bag in Box

1. Install BIB rack and remote pumps according to manufacturers' instructions.
2. Once pumps and BIB rack are installed, measure and cut tubing to length between the pump CO₂ inlets, then connect tubing to all pumps.



3. Using tubing cutters, cut any pump CO₂ supply line and install tee fitting, then route appropriate tubing from the CO₂ supply to the tee fitting at syrup pumps.



4. Connect tubing from dispenser syrup inlet to the syrup pump outlet fitting. Repeat for each syrup line/pump.

Connecting to Syrup Supply - Bag in Box

1. Install BIB (bag in box) connectors onto the syrup pump inlet tubing.

⚠ ATTENTION

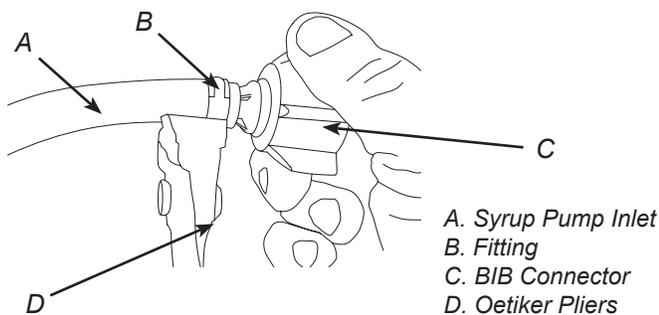
Use proper connector for syrup manufacturer

⚠ ATENCIÓN

Utilice el conector adecuado para el fabricante de jarabe

⚠ ATTENTION

Utilisez connecteur approprié pour fabricant de sirop



2. Connect syrup BIBs to connectors. Repeat for each syrup line/pump.

Installing CO₂ Supply

1. Connect high pressure CO₂ regulator assembly to CO₂ cylinder or bulk system.

⚠ ATTENTION

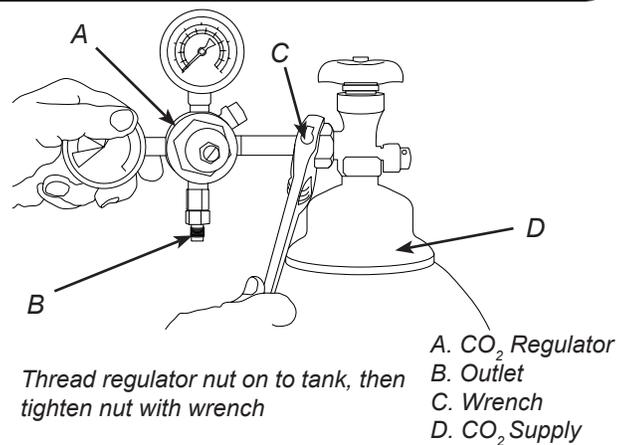
Before installing regulator, assure that a seal (washer or o-ring) is present in regulator attachment nut.

⚠ ATENCIÓN

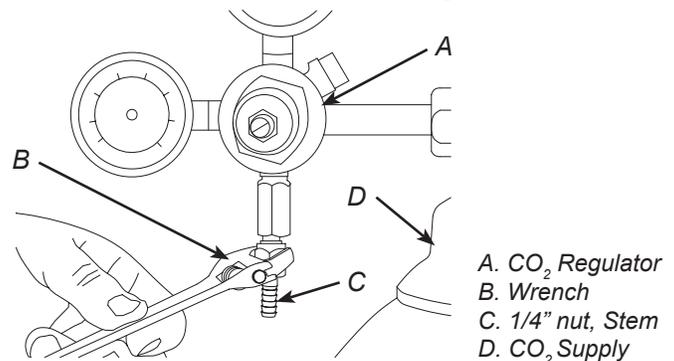
Antes de instalar el regulador, asegúrese de que un sello (lavadora o la junta tórica) está presente en la tuerca de regulación.

⚠ ATTENTION

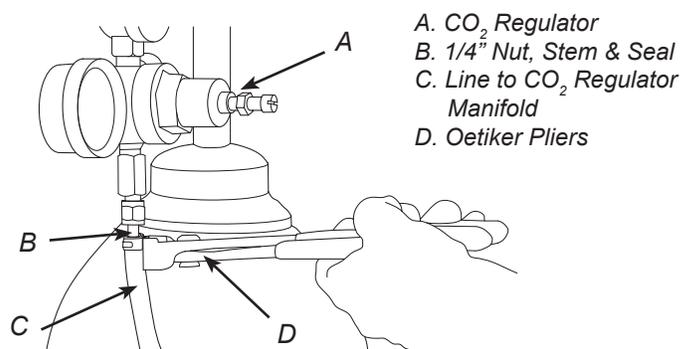
Avant d'installer le régulateur, se assurer que l'étanchéité (laveuse ou o-ring) est présent dans l'écrou du régulateur.



2. Connect a 1/4" nut, stem and seal to CO₂ regulator outlet.



3. Connect tubing routed from the tee at syrup pumps to the 1/4" nut, stem on the high pressure CO₂ regulator attached to source and connect tubing.



- Using a wrench, loosen lock nut on the regulator adjustment screw of the high pressure CO₂ regulator connected to the source, then using a screwdriver back out lock nut screw all the way.

⚠ WARNING

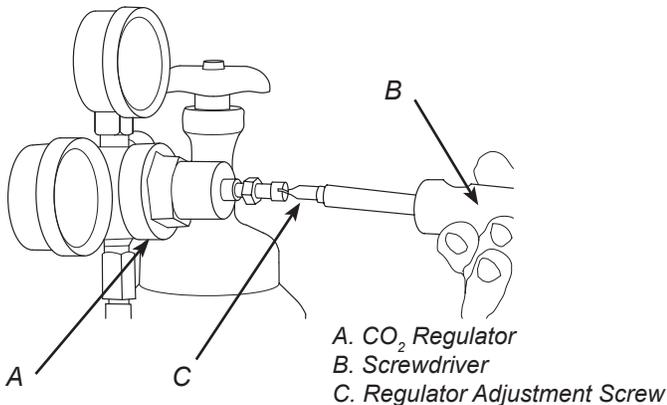
DO NOT TURN ON CO₂ SUPPLY AT THIS TIME

⚠ ADVERTENCIA

NO CONECTE TODAVÍA LA ALIMENTACIÓN DE CO₂.

⚠ AVERTISSEMENT

N'OUVREZ PAS L'ALIMENTATION EN CO₂ À CE MOMENT.



Dispenser Setup

- Turn on water source.
- Open the pressure relief valve located on the remote carbonator, by flipping up on the valve cap lever. Hold open until water flows from the relief valve then close (flip down) the relief valve.
- Verify all Bag-In-Box contains syrup and check all connections for leaks.
- Place enough ice in the ice bin to fill approximately 1/2 of the bin before plugging in the unit.
- Connect unit power cord to grounded electrical outlet.

⚠ WARNING

The dispenser must be properly electrically grounded to avoid serious injury or fatal electrical shock. The power cord has a three-prong grounded plug. If a three-hole grounded electrical outlet is not available, use an approved method to ground the unit. Follow all local electrical codes when making connections. Each dispenser must have a separate electrical circuit. Do not use extension cords. Do not connect multiple electrical devices on the same outlet.

⚠ ADVERTENCIA

Es necesario poner a tierra eléctricamente el dispensador para evitar lesiones graves e incluso electrochoques fatales. El cable de alimentación tiene un enchufe puesto a tierra de 3 clavijas. Si no se dispone de un toma eléctrico conectado a tierra de tres agujeros, use un método aprobado para poner a tierra la unidad. Al hacer las conexiones, respete todos los códigos eléctricos locales. Cada dispensador debe tener un circuito eléctrico independiente. No use cables de extensión. No conecte varios dispositivos eléctricos al mismo tomacorriente.

⚠ AVERTISSEMENT

La distributrice doit être mise à la terre électriquement correctement pour éviter des blessures graves ou une décharge électrique mortelle. Le cordon d'alimentation a une fiche à trois branches mise à la terre. Si aucune prise de Courant électrique à trois trous n'est disponible, utilisez une méthode approuvée pour mettre l'unité à la terre. Respectez tous les codes électriques locaux lorsque vous faites des connexions. Chaque distributrice doit avoir un circuit électrique séparé. N'utilisez pas de cordons prolongateurs. Ne branchez pas plusieurs appareils électriques à la même prise de courant.

- Test the motor operation by pushing the ice chute lever until agitator motor begins to turn.
- Activate each valve to ensure a good flow of water is achieved.
- Ensure pump deck is turned OFF before turning on CO₂.

⚠ ATTENTION

Failure to disconnect the motor power supply will damage the carbonator motor, the pump and void the warranty.

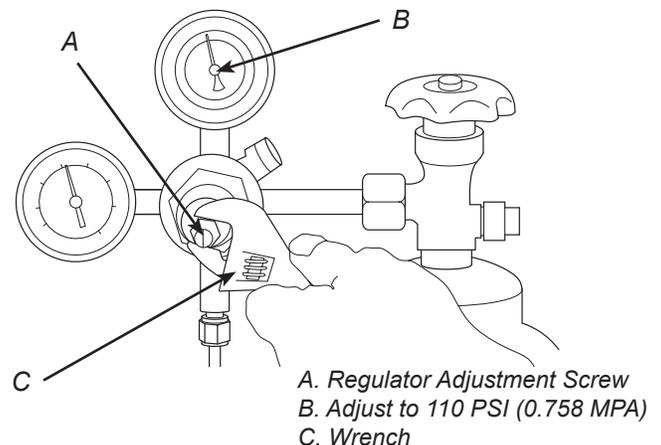
⚠ ATENCIÓN

Si no desconecta la alimentación eléctrica del motor podrían dañarse la bomba y el motor del carbonatado y anular la garantía.

⚠ ATTENTION

Le fait de ne pas maintenir le dégagement spécifié fera surchauffer le compresseur et aura comme conséquence une défaillance du compresseur.

- Turn on CO₂ at the source then, using a screwdriver, adjust the high pressure regulator at the source to 75 PSI (0.517 MPA) then tighten locknut with wrench.



- Activate each valve until gas-out.
- Plug in the remote carbonator pump deck, if not already done so, and turn the switch to the ON position.
- Activate each valve until the carbonator pump comes on. Release the button, allow carbonator to fill and stop. Repeat this process until a steady flow of carbonated water is achieved.

NOTE

The pump deck has a 3 minute timeout feature. If the timeout occurs, turn the deck OFF then ON by flipping the switch on the control box.

NOTE

To check for CO₂ leaks, close the valve on the CO₂ cylinder and observe if the pressure to the system drops with the cylinder valve closed for five minutes. Open the cylinder valve after check.

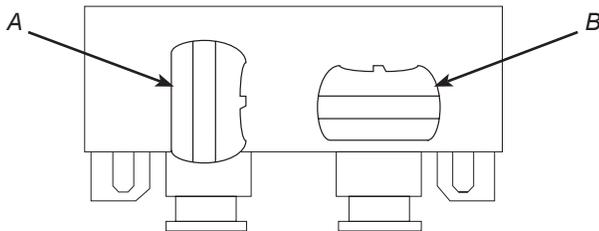
- 13. Activate each valve to purge air from the syrup lines.

Adjust Water Flow Rate & Syrup/Water Ratio

NOTE

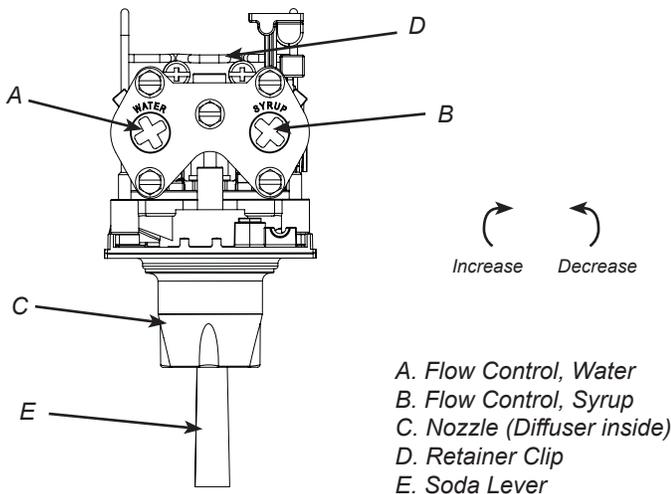
Ensure there is ice on the cold plate and the lines are cold before attempting to set the flow rates on the valves. The drink temperature should be no higher than 40°F (4.4°C) when flow rates are set.

- 1. Remove valve cover from first valve.
- 2. Close syrup shut-off at mounting block for first valve.



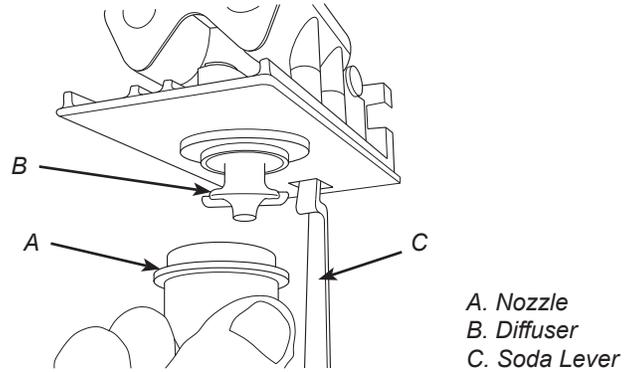
A. Water ON
B. Syrup Closed

- 3. Using a Lancer ratio cup verify water flow rate (5 oz. in 4 sec.). Use a screwdriver to adjust if needed.



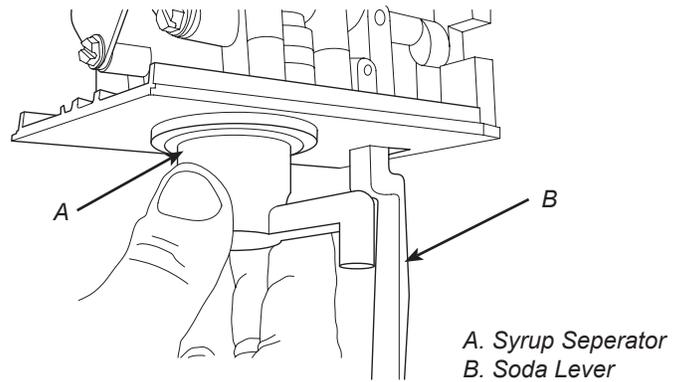
A. Flow Control, Water
B. Flow Control, Syrup
C. Nozzle (Diffuser inside)
D. Retainer Clip
E. Soda Lever

- 4. Remove nozzle by twisting counter clockwise and pulling down, then remove diffuser by pulling down.



A. Nozzle
B. Diffuser
C. Soda Lever

- 5. Install Lancer (yellow) syrup separator (PN 54-0031) in place of nozzle.



A. Syrup Separator
B. Soda Lever

- 6. Re-open syrup shut-off at mounting block.
- 7. Activate valve to purge syrup until steady flow is achieved.
- 8. Using a Lancer brix cup, activate the valve and capture a sample. Verify that the syrup level is even with the water level. Use a screwdriver to adjust if needed.
- 9. Remove syrup separator and reinstall nozzle. Replace valve cover.
- 10. Repeat steps 1-8 for each valve.
- 11. Re-install merchandiser, splash plate, and top cover.

CLEANING AND SANITIZING

General Information

- Lancer equipment (new or reconditioned) is shipped from the factory cleaned and sanitized in accordance with NSF guidelines. The operator of the equipment must provide continuous maintenance as required by this manual and/or state and local health department guidelines to ensure proper operation and sanitation requirements are maintained.

NOTE

The cleaning procedures provided herein pertain to the Lancer equipment identified by this manual. If other equipment is being cleaned, follow the guidelines established by the manufacturer for that equipment.

- Cleaning should be accomplished only by trained personnel. Sanitary gloves are to be used during cleaning operations. Applicable safety precautions must be observed. Instruction warnings on the product being used must be followed.

⚠ ATTENTION

- Use sanitary gloves when cleaning the unit and observe all applicable safety precautions.
- DO NOT** use a water jet to clean or sanitize the unit.
- DO NOT** disconnect water lines when cleaning and sanitizing syrup lines, to avoid contamination.
- DO NOT** use strong bleaches or detergents; These can discolor and corrode various materials.
- DO NOT** use metal scrapers, sharp objects, steel wool, scouring pads, abrasives, or solvents on the dispenser.
- DO NOT** use hot water above 140° F (60° C). This can damage the dispenser.
- DO NOT** spill sanitizing solution on any circuit boards. Insure all sanitizing solution is removed from the system.

⚠ ATENCIÓN

- Use guantes sanitarios al limpiar la unidad y respete todas las precauciones de seguridad correspondientes.
- NO** use un chorro de agua a propulsión para limpiar o higienizar la unidad.
- NO** desconecte los caños de agua al limpiar e higienizar los caños de jarabe para evitar la contaminación.
- NO** use lavandinas fuertes o detergentes; los mismos pueden decolorar y corroer diferentes materiales.
- NO** use espátulas de metal, objetos afilados, virulana, estropajo, abrasivos o solventes en la máquina expendedora.
- NO** use agua caliente por encima de 140° F (60° C). Puede dañar la máquina expendedora.
- NO** vierta solución desinfectante en ningún tablero de circuitos. Asegúrese de que toda la solución desinfectante sea removida del sistema.

⚠ ATTENTION

- Utilisez des gants sanitaires lors du nettoyage de l'appareil et respectez toutes les précautions de sécurité applicables.
- NE PAS** utilisez un jet d'eau pour nettoyer ou désinfecter l'appareil.
- NE PAS** débrancher les conduites d'eau lors du nettoyage et de la désinfection des conduites de sirop, pour éviter la contamination.
- NE PAS** utilisez des agents de blanchiment ou de détergents forts; ceux-ci peuvent se décolorer et corroder les différent matériaux.
- NE PAS** utilisez des grattoirs métalliques, des objets tranchants, une laine d'acier, des tampons à récurer, des produits abrasifs ou des solvants sur le distributeur.
- NE PAS** utilisez de l'eau chaude au-dessus de 140 °F (60 °C). Cela peut endommager le distributeur.
- NE PAS** renversez de solution désinfectante sur les cartes de circuits imprimés. Assurez-vous que toute la solution désinfectante est retirée du système.

Cleaning Solution

Mix a mild, non-abrasive detergent (e.g. Sodium Laureth Sulfate, dish soap) with clean, potable water at a temperature of 90°F to 110°F (32°C to 43°C). The mixture ratio is one ounce of cleaner to two gallons of water. Prepare a minimum of five gallons of cleaning solution. Do not use abrasive cleaners or solvents because they can cause permanent damage to the unit. Ensure rinsing is thorough, using clean, potable water at a temperature of 90°F to 110°F. Extended lengths of product lines may require additional cleaning solution.

Sanitizing Solution

Prepare sanitizing solutions in accordance with the manufacturer's written recommendations and safety guidelines. The solution must provide 200 parts per million (PPM) chlorine (e.g. Sodium Hypochlorite or bleach). A minimum of five gallons of sanitizing solution should be prepared. Any sanitizing solution may be used as long as it is prepared in accordance with the manufacturer's written recommendations and safety guidelines, and provides 200 parts per million (PPM) chlorine.

Other Supplies Needed

- Clean cloth towels
- Bucket
- Extra nozzle
- Sanitary gloves
- Small brush (PN 22-0017)

Daily Cleaning

1. Using the cleaning solution, clean Top Cover and all exterior stainless steel surfaces.
2. Clean exterior of dispensing valves and ice chute.
3. Remove Cup Rest, clean Drip Tray and Cup Rest, and replace Cup Rest.
4. Wipe clean all splash areas using a damp cloth soaked in cleaning solution.
5. Clean beverage valves as specified by the valve manufacturer.

Ice Bin Cleaning - Start-Up and Monthly

NOTE

Refer to the Automatic Agitation Warning on page 3.

1. Disconnect power to the dispenser
2. Remove Top Cover.
3. Melt out any remaining ice from the bin.
4. Remove Agitator Pin from Agitator Shaft. Slide Agitator Shaft rearward out Hub and pull out of rear Bearing to remove.
5. Remove Ice Shroud by lifting and rotating out from beneath the auger.
6. Use the Cleaning Solution, and a clean cloth or soft brush, to clean all removable parts, sides of the Ice Bin, Auger, and surface of the aluminum casting.
7. Using the Cleaning Solution and the sponge brush provided, clean all interior surfaces of the ice chute and the ice chute feed through.
8. Repeat Step 6 for all exterior surfaces of the dispenser.
9. Using hot water, thoroughly rinse away the cleaning solution.
10. Wearing sanitary gloves, soak and clean cloth towel in Sanitizing Solution and wash all surfaces of removable parts, sides of the Ice Bin, Auger, and surface of the aluminum casting.
11. Using the Sanitizing Solution and the sponge brush provided, clean all interior surfaces of the ice chute and the ice chute feed through.
12. Repeat Step 10 for all exterior surfaces of the dispenser.
13. Wearing sanitary gloves, reassemble all removable parts. Ensure agitator clip is locked.
14. Fill Unit with ice and replace Top Cover.
15. Reconnect Dispenser to power source.

Cleaning and Sanitizing Syrup Lines - Bag in Box

1. Disconnect syrup lines from BIB's
2. Place syrup lines, with BIB connectors, in a bucket of warm water.
3. Activate each valve to fill the lines with warm water and flush out syrup remaining in the lines.
4. Prepare Cleaning Solution described above.
5. Place syrup lines, with BIB connectors, into cleaning solution.
6. Activate each valve until lines are filled with cleaning solution then let stand for ten (10) minutes.
7. Flush out cleaning solution from the syrup lines using clean, warm water.
8. Prepare Sanitizing Solution described on previous page.
9. Place syrup lines into sanitizing solution and activate each valve to fill lines with sanitizer. Let sit for ten (10) minutes.
10. Reconnect syrup lines to BIB's and draw drinks to flush solution from the dispenser.
11. Taste the drink to verify that there is no off-taste. If off-taste is found, flush syrup system again.

⚠ CAUTION

Following sanitization, rinse with end-use product until there is no aftertaste. Do not use a fresh water rinse. This is a NSF requirement. Residual sanitizing solution left in the system creates a health hazard.

⚠ PRECAUCIÓN

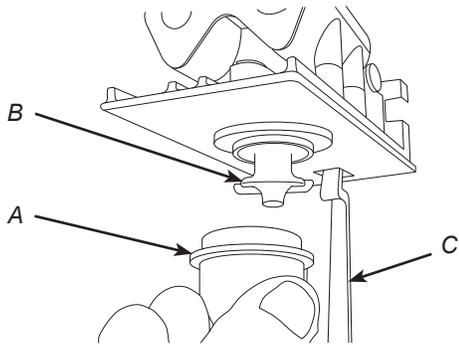
Después de la esterilización, enjuague con el producto final hasta que eliminar el sabor que queda. No enjuague con agua fresca. Ésta es una exigencia de NSF. Si queda solución de esterilización en el sistema, genera un peligro para la salud.

⚠ PRUDENCE

Défense de rincer l'outil à l'eau fraîche immédiatement après un traitement septique. En cas de après-goût, ne purger avec le produit final une exigence NSF.

Cleaning and Sanitizing Nozzles

1. Disconnect power, so as to not activate valve while cleaning.
2. Remove nozzle by twisting counter clockwise and pulling down.



A. Nozzle
B. Diffuser
C. Soda Lever

3. Remove diffuser by pulling down.
4. Rinse nozzle and diffuser with warm water.
5. Wash nozzle and diffuser with cleaning solution then immerse in sanitizing solution and let sit for fifteen (15) minutes.
6. Set nozzle and diffuser aside and let air dry. **DO NOT** rinse with water after sanitizing.
7. Reconnect diffuser and nozzle.
8. Connect power.
9. Taste the drink to verify that there is no off-taste. If off-taste is found, flush syrup system again.

⚠ CAUTION

Following sanitization, rinse with end-use product until there is no aftertaste. Do not use a fresh water rinse. This is a NSF requirement. Residual sanitizing solution left in the system creates a health hazard.

⚠ PRECAUCIÓN

Después de la esterilización, enjuague con el producto final hasta que eliminar el sabor que queda. No enjuague con agua fresca. Ésta es una exigencia de NSF. Si queda solución de esterilización en el sistema, genera un peligro para la salud.

⚠ PRUDENCE

Défense de rincer l'outil à l'eau fraîche immédiatement après un traitement septique. En cas de après-goût, ne purger avec le produit final une exigence NSF.

Ice Chute Cleaning

NOTE

It is recommended to perform this procedure monthly, or more often if desired. Use the cleaning solution described above. An alternate solution of one part water to one part vinegar may be used to remove water spots and calcium deposits.

1. Turn off power to the dispenser.
2. Remove merchandiser.
3. Remove Splash Plate Assembly by lifting it up and out from the dispenser face.
4. Remove clip from auger motor shaft. Remove four (4) screws from brackets.

NOTE

Ensure motor harness is disconnected and retain the auger shaft key.

5. Remove the ice chute shell.
6. Remove the ice chute assembly base by removing the four (4) screws that attach it to the unit.
7. Prepare the Cleaning Solution described on page 13.
8. Soak the ice chute assembly in the cleaning solution.
9. Rinse and dry the ice chute assembly thoroughly.
10. Reinstall the ice chute components.
11. Reinstall merchandiser.
12. Reconnect power to the dispenser.

Removal of Ice Chute for Service

1. Disconnect power to the dispenser.
2. Remove the merchandiser.
3. Disconnect the wire harness for the auger motor.
4. Remove the C-clip from the auger shaft.
5. Support the auger motor. Remove four (4) screws securing the auger motor mounting plate.
6. Slide the motor off the auger shaft.

NOTE

DO NOT discard the shaft key.

7. Remove the two (2) auger motor mounting plate support brackets by removing the four (4) screws securing brackets to the mounting plate.
8. Unhook the ice chute spring from the ice chute.
9. Remove the ice chute assembly from the mounting plate by removing the screws securing it into place. Be sure to retain the o-ring from between the ice chute assembly and the feed-through.
10. Remove the outer ice chute from the base by pushing the hinge tabs inward to release the outer ice chute.

LED Warnings

NOTE

Light Emitting Diodes (LEDs) are provided on the PC Board to aid in troubleshooting electrical difficulties. Referring to the wiring diagram included in this manual (also affixed to the electrical box cover), the following information can be obtained from the LEDs.

LED	DESCRIPTION
D3	This light is on when the ice dispense switch is activated. If the chute is depressed and the light does not turn on, check to see if the wire harness is connected or if the dispense switch is defective.
D4	This light is used on units with lid interlock switches. On the 4500 series ice-beverage dispenser, this light should always be lit. If it is not, check the Lid Interlock Jumper (black wire with 4 pin white connector).
D5	This light is on when +5VDC is present at the circuit board. It should be lit whenever the unit is connected to a power source. If the light is off, check to see if the internal circuit breaker on the transformer has tripped. If it has tripped, it can be reset by depressing the switch on the top of the transformer.
D6	This light is on when +32VDC is present at the circuit board. It should be lit whenever the unit is connected to a power source. If the light is off, check to see if the internal circuit breaker on the transformer has tripped. If it has tripped, it can be reset by depressing the switch on the top of the transformer.
D7	This light flashes when there is no ice between the sensors in the ice bin. If the bin is empty and the light is not flashing, check all wiring harnesses.
D8	This light is on when the solenoid is activated. When the chute is depressed, this light should turn on. If it does not, check to see if the solenoid leads are connected to the PC board or damaged, check continuity of solenoid. Replace if defective.
D9	This light is on when the motor is activated. When the chute is depressed, this light should turn on. If it does not, check to see if the motor harness is connected to the PC board or damaged, check continuity of motor harness and motor. Replace if defective.

AUTOMATIC AGITATION AND LOW ICE ALARM CONTROL

Each Series 4800 ice beverage dispenser is equipped with automatic agitation for the ice bin. Referring to the tables on the wiring diagram included in this manual (also affixed to the electrical box cover), the automatic agitation timing can be changed as follows. A set of DIP switches is provided to control the timing and low ice control. Refer to graph below.

DIP #3 & #4 – AUTOMATIC AGITATION FREQUENCY

The default ON time is preset to 3 seconds. Automatic agitation should not be used with extruded ice types. Only use this feature when dispensing cubed ice.

DIP #5 through #8 – DISPENSE TIME/AGITATION SYNC

Switch	Function	Default Setting	Avail Time Settings
#7 and #8	Set the amount of total dispense time before agitation occurs	12 seconds	6 seconds 9 seconds 12 seconds 15 seconds
#5 and #6	Set the agitation time (should be less than the dispense time). If using an icemaker, the agitation time can be decreased	7 seconds	5 seconds 7 seconds 9 seconds 11 seconds

DIP SWITCH LEGEND

SW1

SWITCH #		AUTO AGITATE OFF TIME
3	4	
OFF	OFF	NO AUTO AGITATION
OFF	ON	20 MINUTES
ON	OFF	40 MINUTES
ON	ON	60 MINUTES

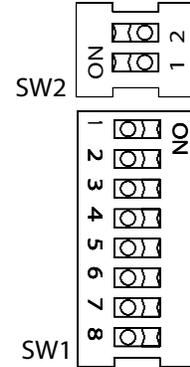
SWITCH #		REFILL START AFTER
7	8	
OFF	OFF	6 SEC DISPENSED
OFF	ON	9 SEC DISPENSED
ON	OFF	12 SEC DISPENSED
ON	ON	15 SEC DISPENSED

SWITCH #		REFILL ON TIME
5	6	
OFF	OFF	11 SECONDS
OFF	ON	9 SECONDS
ON	OFF	7 SECONDS
ON	ON	5 SECONDS

SW2 SWITCH 1: MUST BE ON FOR
CORRECT OPERATION

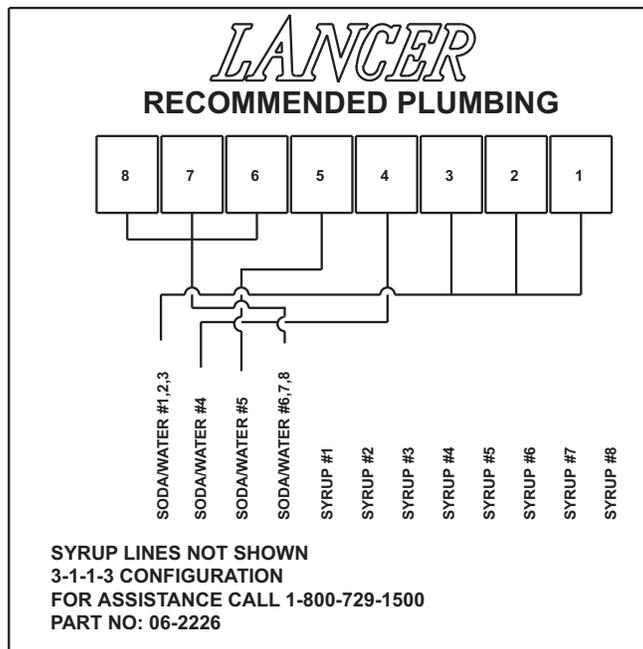
SW1 SWITCH 1: "LOW ICE" LED
INDICATOR ENABLED

SW1 SWITCH 2: "LOW ICE"
ALARM ENABLED

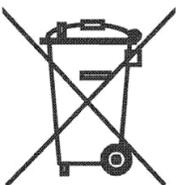


LANCER PN: 06-3289

Plumbing Diagram

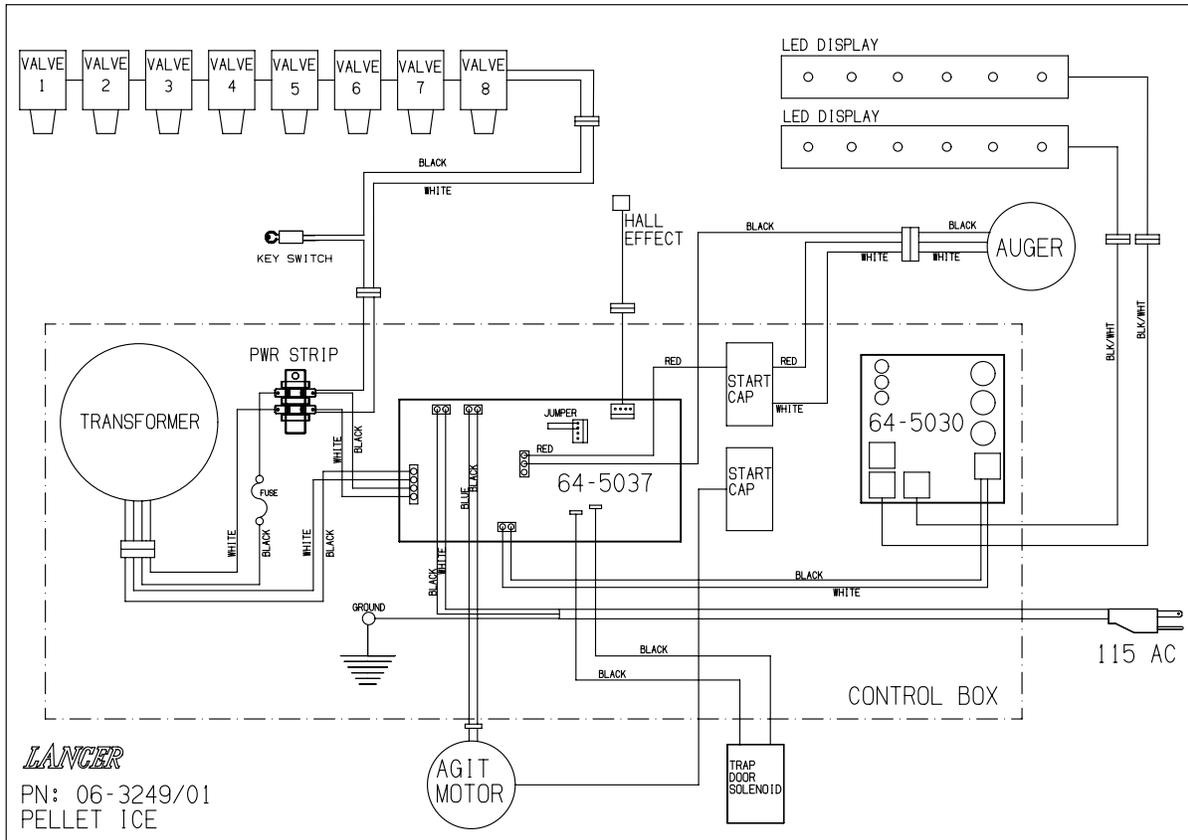


Dispenser Disposal



To prevent possible harm to the environment from improper disposal, recycle the unit by locating an authorized recycler or contact the retailer where the product was purchased. Comply with local regulations regarding disposal of the refrigerant and insulation.

Wiring Diagram - 115 Volt



LANCER®

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