INSTALLATION AND OPERATION INSTRUCTIONS

PERLICK ICE CREAM CABINET



MODEL
8000B

5 Year Compressor Warranty

c UL us NSF

eco friendly
R290 Hydrocarbon Refrigerant

The Perlick Corporation verifies this product **does not contain a prohibited refrigerant** as defined by the California Air Resource Board (CARB), the state of New York, and any other state with HFC prohibition laws. This product does not contain HFC's. The following disclosure statement is provided to comply with the CARB regulation:

This equipment is prohibited from use in California with any refrigerants on the "List Of Prohibited Substances" for that specific end use, in accordance with the California Code of Regulations, title 17, section 95374. This disclosure statement has been reviewed and approved by the Perlick Corporation and the Perlick Corporation attests under penalty of perjury, that these statements are true and accurate.

GENERAL INFORMATION

Introduction

Congratulations on your purchase of a Perlick commercial underbar product. This manual has been prepared to assist you in the installation of your cabinet and to acquaint you with its operation and maintenance.

This manual has been prepared to assist you in the installation of your Ice Vault and to acquaint you with its operation and maintenance.

We dedicate considerable time to ensure that our products provide the highest level of customer satisfaction. If service is required, your dealer can provide you with a list of qualified service agents. For your own protection, never return merchandise for credit without our approval.

We thank you for selecting a Perlick product and assure you of our continuing interest in your satisfaction.

Warranty

To register your product, visit our web site at www.perlick.com. Click on "Commercial", then "Service". Click on the link "Warranty Registration Form". You must complete and submit this form or the installation date will revert back to the ship date.

Please record the purchase date and the dealer's name, address and telephone number below.

Model Number:_____
Serial Number: _____
Purchase Date:_____
Dealer Name & Address
_____
_____
_____
Phone Number_____

Form No. Z2643
Rev. 04.20.23

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SAFETY

PLEASE READ all instructions completely before attempting to install or operate the unit. Take particular note of the DANGER, WARNING and CAUTION information in the manual. The information is important for the safe and efficient installation, operation and care of your Perlick unit.

⚠ DANGER **Indicates a hazard that WILL result in serious injury or death if precautions are not followed.**

⚠ WARNING **Indicates a hazard MAY cause serious injury or death if precautions are not followed.**

⚠ CAUTION **Indicates a hazard where minor or moderate injury may occur if precautions are not followed.**

NOTICE **Indicates that property damage may occur if warnings or instructions are not followed.**

IMPORTANT!
Read and understand all information in this manual before attempting the installation.
All plumbing and electrical work must be performed by a qualified technician and conform to all applicable state and local codes.

WARNING: California Prop 65 Notice
These products may expose you to chemicals including Chromium, which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information on whether a product in this list contains these chemicals, please refer to the specific product page at **perlick.com**. Or to find out more about Prop 65, go to **P65Warnings.ca.gov**.

SPECIFICATIONS

eco friendly
R290 Hydrocarbon Refrigerant

JOB	
AREA	
ITEM NO.	
MODEL NO.	

8000B

MODEL NUMBERS		8000B
EXTERIOR CABINET DIMENSIONS	Height - in. (mm)	26-3/8 (670)
	Width - in. (mm)	16-7/8 (429)
	Depth - in. (mm)	16-7/8 (429)
INTERNAL NET VOLUME - cubic ft. (liters)		Well Dimensions: 13" [330] H x 10-1/4" [260] W x 10-1/4" [260] D
SHIPPING WEIGHT LBS. (KG.)		90 (41)
CABINET CONSTRUCTION (INTERIOR)		All models have stainless steel walls and base.
CABINET CONSTRUCTION (EXTERIOR)		20 gauge stainless steel top and removable hinged door lid
DOORS LID AND HARDWARE		Removable hinged door lid
PLUMBING		No drain required.
INSULATION		2 inch foamed-in-place, environmentally friendly Ecomate® polyurethane insulation. Methyl Formate C2H402 Blowing Agent
VENTILATION		For proper air flow allow a minimum of at least 2.5" on the left side, 2.5" on the right side, 4.5" on the rear side, and 6" between bottom of freezer and the floor. In addition to those clearances above, a minimum 15" X 15" opening to fresh air source is require to allow for proper air circulation around the unit.
TEMPERATURE SPECIFICATIONS	Factory Setpoint - °F [°C]	0 [-17.7]
	Adjustable Setpoint Range - °F [°C]	-15 to 10 [-26.1 to -12.2]
ELECTRICAL SPECIFICATIONS	Supply	115 VAC/60 Hz/1 Ph
	Running Load Amps	1.0 Amps
	Power Cord	8-foot length with NEMA 5-15 plug.
	Thermostat	NSF Listed electronic control.
REFRIGERATION SPECIFICATIONS	Expansion Device	Capillary Tube
	Refrigerant	R290
	Refrigerant Charge (g)	55g
	Compressor H.P.	1/6 H.P.
	Total Heat of Rejection At 75°F ambient (BTU/h)	205 BTU/hr

Perlick is committed to continuous improvement. Therefore, we reserve the right to change specifications without prior notice

Preparing the Cabinet for Use

UNCRATING AND INSPECTION

Remove all crating material before operating this cabinet. Carefully inspect cabinet for potential hidden damage. If damage is discovered, file your claim immediately with the transportation company. Perlick is not responsible for damage in transit. Do not discard cabinet legs.

⚠ DANGER Do not use or store flammable liquids (ie; gasoline) or vapors near the appliance to avoid fire.

CAUTION - RISK OF FIRE OR EXPLOSION.
DISPOSE OF PROPERLY IN ACCORDANCE WITH FEDERAL OR LOCAL REGULATIONS. FLAMMABLE REFRIGERANT USED.

ATTENTION - RISQUE DE FEU OU D'EXPLOSION.
ÉLIMINER CONFORMÉMENT AUX RÈGLEMENTS FÉDÉRAUX OU LOCAUX. LE FRIGORIGÈNE EST INFLAMMABLE.

P/N: 1019364

DANGER - RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. DO NOT USE MECHANICAL DEVICES TO DEFROST REFRIGERATOR. DO NOT PUNCTURE REFRIGERANT TUBING.

DANGER - RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. NE PAS UTILISER D'APPAREILS MÉCANIQUES POUR DÉGIVRER LE RÉFRIGÉRATEUR. NE PAS PERFORER LA TUBULURE CONTENANT LE FRIGORIGÈNE

P/N: 1019365

REFRIGERANT

All models covered in this user manual are manufactured using refrigerant R290 (Propane). R290 is a hydrocarbon. This refrigerant is flammable and is only allowed for use in appliances which fulfill the requirements of UL 471 (To cover potential risk originated from the use of flammable refrigerants). Consequently, R290 is only allowed to be used in refrigerating appliances which are designed for this refrigerant and fulfill the above-mentioned standard.

- R290 is heavier than air. The concentration will always be highest at floor level.
- The explosion limits are as follows:
  - Lower Limit: 1.7% by vol. (37 g/m3)
  - Upper Limit: 9.5% by vol. (177 g/m3)
  - Ignition Temperature: 470 °C

⚠ DANGER Take caution when handling, moving and using the product to avoid damaging the refrigerant tubing or increasing the risk of a leak.

⚠ WARNING All service work shall be performed by factory authorized service personnel and all component parts shall be replaced with like components to minimize the risk of possible ignition due to incorrect parts or improper service.

⚠ CAUTION If service is necessary, repair work must be performed by a Perlick authorized servicer. Work done by unqualified individuals could potentially be dangerous and will void the warranty.

Uncrating and Inspection

Remove all crating material before operating this cabinet. Carefully inspect cabinet for hidden damage. If damage is discovered, file your claim immediately with the transportation company. Perlick is not responsible for damage in transit.

ELECTRICAL

The cabinet must be connected to a separately fused power source (see Electrical Specification Plate affixed to unit) in accordance with National and Local electrical codes.

⚠ CAUTION Do not attempt to operate the equipment on any other power source than that listed on the Electrical Specification Plate.

NOTICE **This product contains blown foam insulation using blowing agent R-611 (Methyl Formate). The foam in this product <u>does not</u> contain HFC's, CFC's, or HCFC's.**

Preparing the Cabinet for Use

PLACING THE CABINET

IMPORTANT: The unit must NOT be totally enclosed. In addition to the clearances required around the condensing unit below, there must be at least one opening (minimum size 15”X15”) to allow for air circulation . This is important to ensure that the hot air that is being exhausted from the unit has a place to escape and allow fresh air in. The condenser and cabinet front must be provided with a minimum of two inches air space. Be sure to provide access so front cover of drop-in ice cream cabinet can be removed to clean the condenser. Other required minimum installation clearances are: 2.5” on left side, 2.5” on right side, 4.5” on rear side, and 6” between bottom of freezer and floor.

After placing the cabinet into its initial operation, allow about 24 hours for the cabinet to reach and maintain proper temperature.

How To Operate

COOLING SYSTEM

This cabinet maintains temperatures from the cold walls of the storage compartment. If excessive frost accumulates on the walls, remove the plug from the electrical outlet. Never use a sharp instrument to break ice from the cabinet walls.

Digital Temperature Control

To display the Set point values press the set key when the **‘SET’** label is displayed. The Set point value appears on the display. To change the Set point value, press the ⌃ and ⌄ keys within 15 seconds. Press set to confirm the modification.

The condenser fan motor turns off and on with compressor. The evaporator fan motor runs continuously.



Figure 2: Digital Temperature Controller

OILING

The system is sealed and the compressor requires no oiling.

Cleaning

Condenser

⚠ DANGER Flammable Refrigerant. Risk of fire or explosion. Do not damage refrigeration tubes.

- The condenser (located behind the front grille) should be inspected every 30 days, and cleaned, if necessary. Condenser should be cleaned using a soft bristled brush and vacuum. Failure to keep the condenser clean will cause a loss in condensing unit efficiency, or compressor failure.

Cabinet

Use a damp cloth with mild detergent and water to clean the inside and outside of the cabinet. Dry thoroughly.

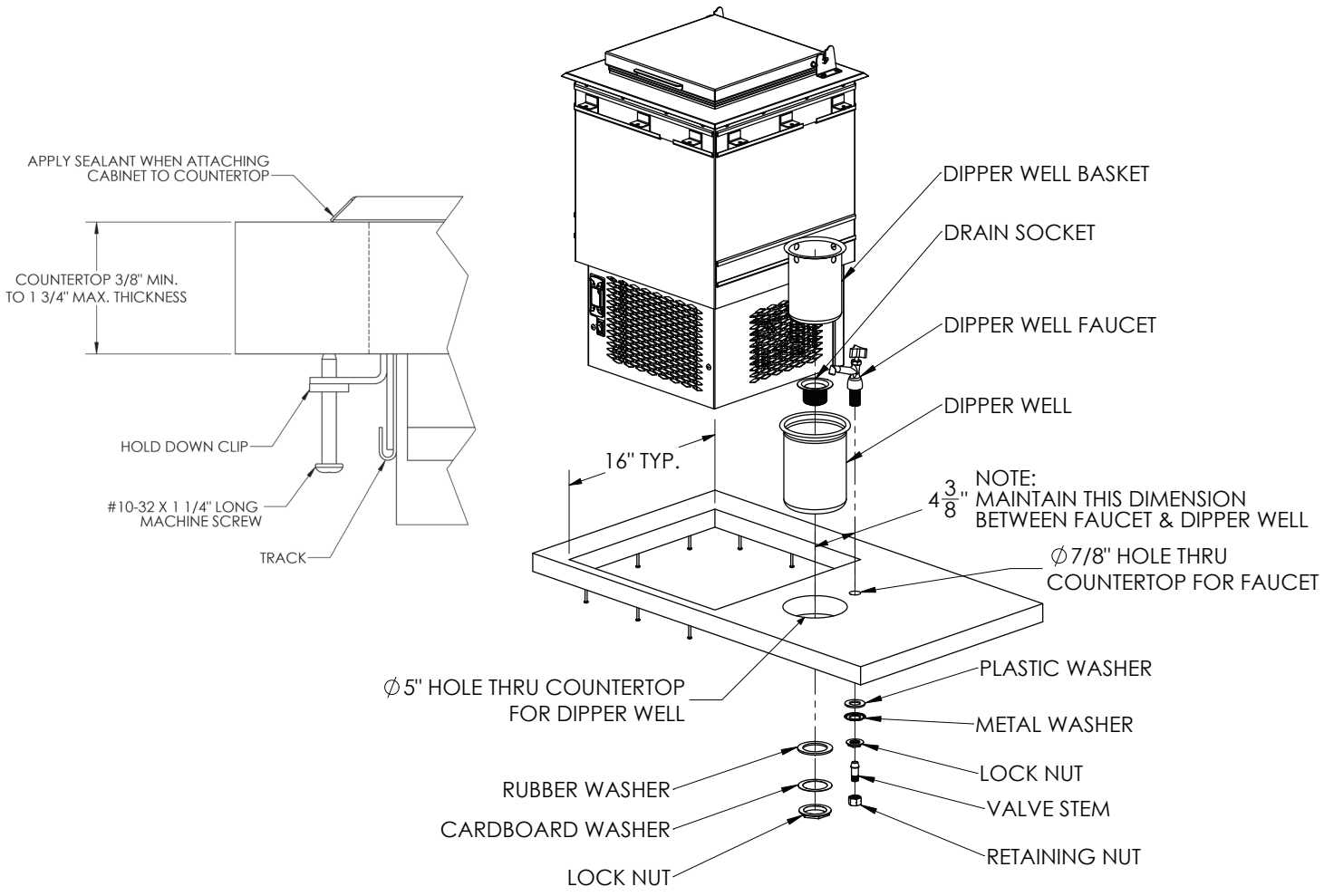
Installation of 8000B

Installing Into A Countertop

- Cut a 16” (407mm) x 16 (407mm) square hole in the countertop for the drop-in ice cream cabinet.
  NOTE: If 8000B Dipper Well and Faucet Kit are also being installed, cut the two (2) round holes required. (Access from bottom and sides is needed to secure unit to countertop).
- Apply 1/4” (6mm) diameter bead of sealant (supplied) to bottom outer edge of top flange as shown in cross sections.
- Insert ice cream cabinet into opening as shown, making sure there are no voids in sealant where top flange meets the countertop.
- After ice cream cabinet is in position, from underneath, install the (3) hold down clips in each upper track through slots as shown in cross sections in approximate positions shown below.
- With uniform pressure, tighten screws in hold down clips evenly to ensure a positive seal to the countertop.
- Remove exposed excess sealant from top flange and countertop.
- The faucet and drain area are to be connected to comply with local codes.

8000B DROP-IN ICE CREAM FREEZER COUNTERTOP INSTALLATION

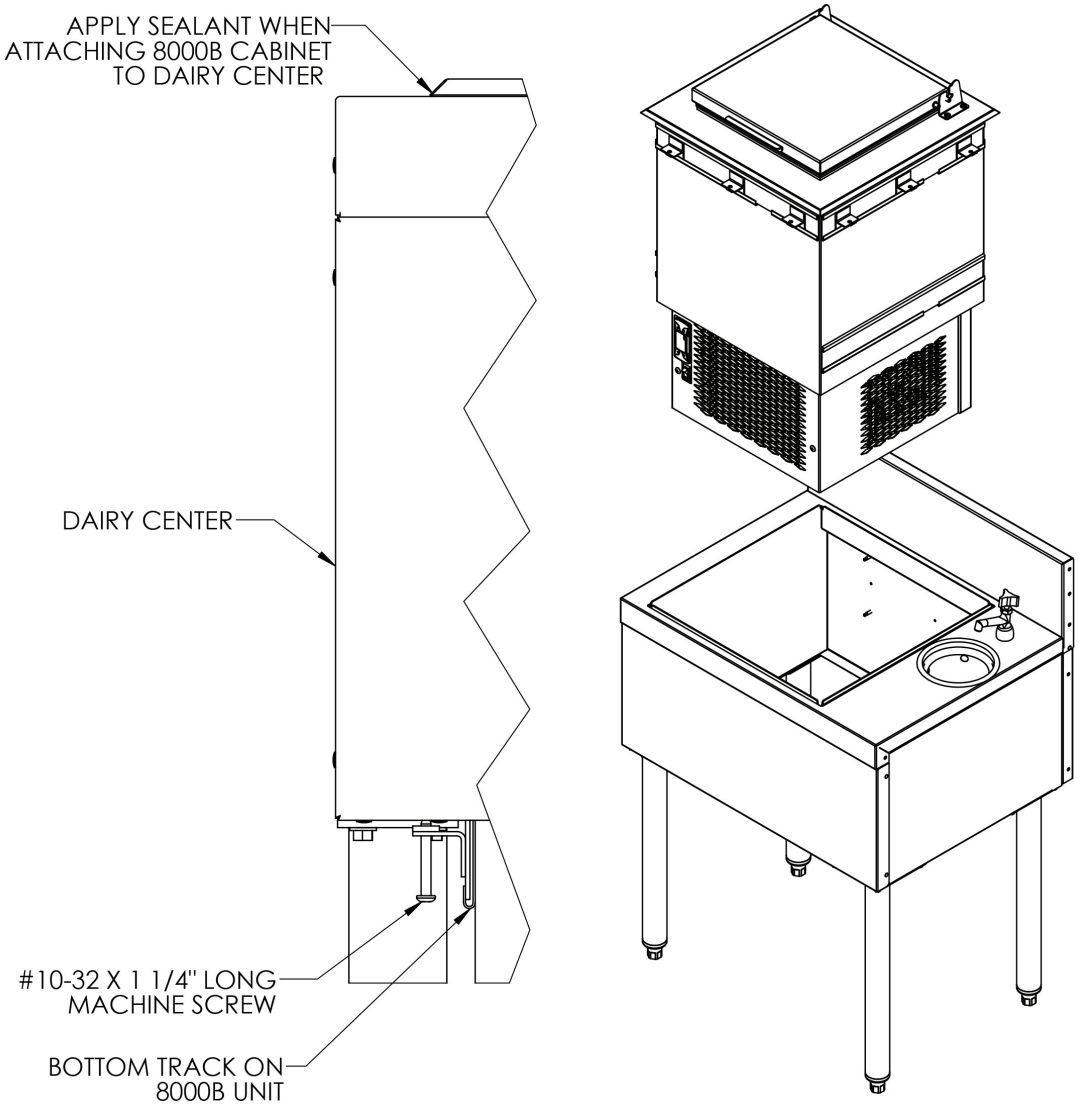
NOTE: AFTER LOWERING ICE CREAM UNIT INTO POSITION, POSITION 3 HOLD DOWN CLIPS INTO EACH TRACK.



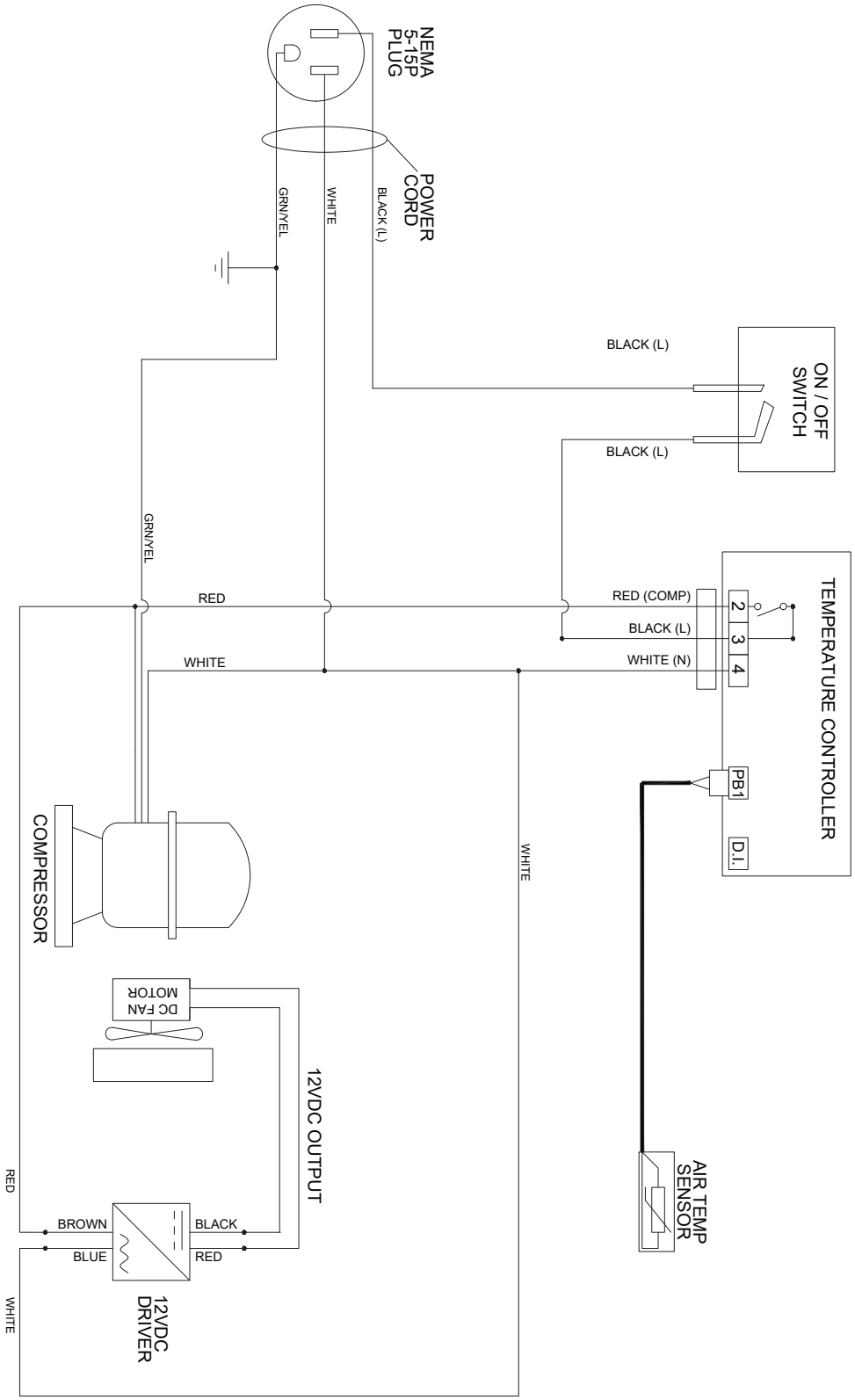
Installation of 8000B

Installing Into A Top Shelf Underbar Stainless Steel Module

- A 16” (407mm) x 16 (407mm) square hole has been provided in the top of the TS24DC-A cabinet for the drop-in ice cream cabinet.
- Apply 1/4” (6mm) diameter bead of sealant (supplied) to bottom outer edge of top flange as shown in cross sections.
- Insert ice cream cabinet into opening as shown, making sure there are no voids in sealant where top flange meets the countertop.
- After ice cream cabinet is in position, from underneath, install (3) hold down clips in tracks in approximate positions shown below.
- With uniform pressure, tighten screws in hold down clips evenly to ensure a positive seal.
- Remove exposed excess sealant from top flange and workboard.
- The faucet and drain area are to be connected to comply with local codes.



Wiring Diagram



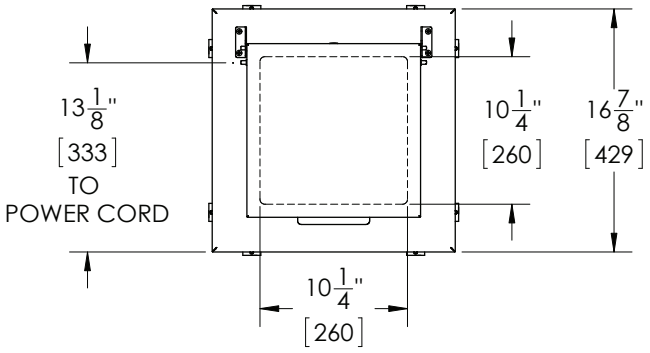
Replacement Parts

MODEL NOS. 8000B	
Description	Part #
Replacement compressor, R290	1019724
DC Fan, Condenser	68872
Power supply DC	68758
Condenser coil	68927
Cover assembly	68881
Left hinge bracket	70060-1
Right hinge bracket	70059-1
Mounting stud	C27073-1
Digital temperature controller	1028315
Breaker strip	C25181-1
Back unit cover	68933-1
Front & side unit cover	68934-1
Hold-down clip	C27476
On/Off switch	1018086
Temperature Probe	1023903
Drier	63718

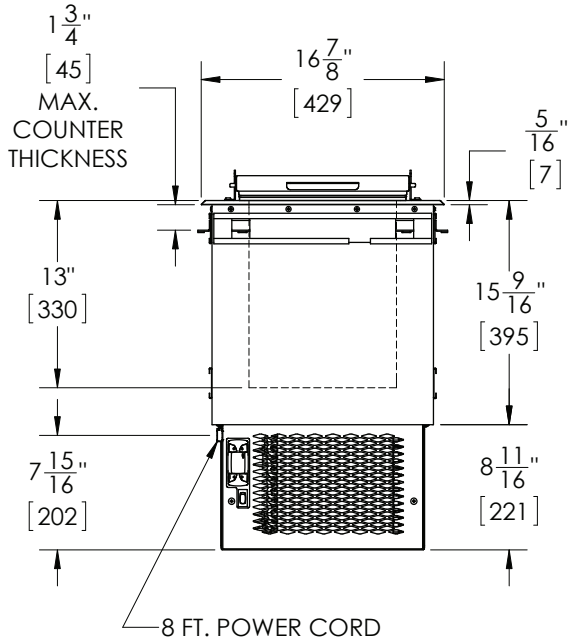
Items Not Shown	
Power cord & Wiring harness	1028207
Suction line and capillary tube assembly	1027764
Refrigerant charge (grams R290)	55g

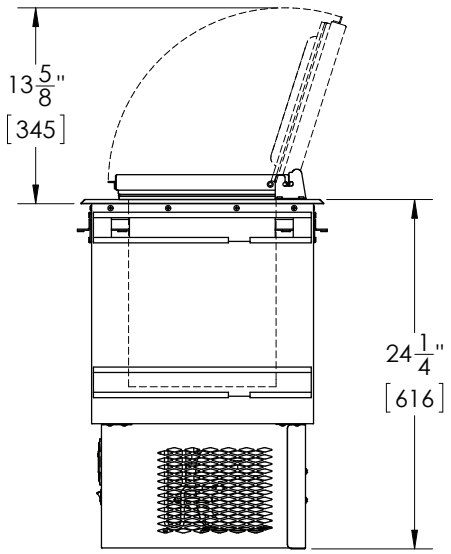
Spec Drawings

NSF eco friendly R290 Hydrocarbon Refrigerant



REQUIRED CUT-OUT SIZE: 16" X 16" [407 X 407]





Notes

Perlick®

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