

Built to Perform. Crafted to Last.®

SAFETY, INSTALLATION AND INSTRUCTION MANUAL

Commercial Froze Space Merchandiser™ & Holding Freezer



FROZE SPACE MERCHANDISERS™ SHOWN ARE SHIPPED STANDARD
WITH WHITE, SCREEN-READY, TRANSLUCENT SIGN PANEL

Made In Canada

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HABCO® COMMERCIAL HOLDING FREEZERS SAFETY, INSTALLATION AND INSTRUCTION MANUAL

MODELS: SF28HC

"HL" Suffix indicates models with Health Lock.



A WARNING

IMPROPER OR UNSAFE use of this appliance other than intended by the manufacturer, can result in death, serious bodily injury, property damage and/or appliance damage!

This manual contains important information about product safety. Read and understand this manual BEFORE operating the appliance. Please keep this manual available for other users and owners before they use the appliance. Store this manual in a secure location.



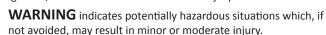
DANGER: RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGER-ANT USED. TO BE REPAIRED ONLY BY TRAINED SERVICE PERSON-NEL. DO NOT USE MECHANICAL DEVICES TO DEFROST FREEZER. DO NOT PUNCTURE REFRIGERANT TUBING. HABCO® APPROVED COM-PONENTS FOR R290 SHOULD ONLY BE USED WITH THE FREEZER.

INTENDED USE

HABCO® Commercial Freezers are designed for the commercial frozen holding storage, merchandising and display. Not intended for flash freezing of non-frozen products. Not intended for use in outdoor, direct sun, damp, extreme heat and/or cold conditions.

MEANINGS OF SIGNAL WORDS AND SYMBOLS

WARNING indicates potentially hazardous situations which, if ignored, could result in death or serious injury.



! **NOTICE** emphasizes essential information or that which may cause appliance damage or environmental harm.

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ENERGY EFFICIENCY TIPS

HABCO® Commercial Freezers are manufactured and designed to perform within the most stringent energy efficiency guidelines. The following energy efficiency tips, however, pertain to all commercial refrigerators and should be followed for best energy efficiency results.

- 1 Maintain a clean condenser coil.
- Turn off lighting when not in use.
- 3. Maintain clean door seals and ensure bottom door guide is clear of debris at all times.
- Do not install in direct vicinity of high heat sources such as 4. heating vents, baseboard heaters, ranges, and ovens.
- Do not install directly beneath undiffused air conditioning 5. vents.
- 6. Read, understand and observe Safety Warnings and Notices in this manual as many of these points will also contribute to energy savings and appliance efficiency.
- 7. Lowest set point to product temperature requirements.

Glossary

Explanation/Alternate Term Term Compressor-------Refrigerant Compressing Motor Mounted in Base of Holding Freezer Condensing Chamber Compressor and Condenser Coil Enclosure at Base of Cabinet Thermostat which controls refrigeration on/off cycle and defrost cycle while monitoring diagnostics and trouble alarms Evaporator Housing Evaporator Coil, Mounted to Ceiling of Cabinet Interior Free&Clear™ Condenser (Coil)-------Circular Formed Heat Exchange Coil Mounted in Base of Cabinet HC-------Equipped with Hydro-Carbon Refrigerant HL------Equipped with an electronic Health Lock R290-------Propane, A Flammable Refrigerant LED Lighting------Light Emitting Diode Lighting system is long-lasting and energy efficient Product Temperature of product within the appliance is average of high and low temperatures displayed on digital readout Return Air Temperature------ton graph of the major product temperature used by refrigeration system to maintain an average product temperature ------Lowest temperature setting at which the refrigeration system shuts-off is displayed by pressing the SET button on Digital Controller Stabilized Temperatures air after appliance has either stabilized product to desired temperature Trained Professional-------Trained Refrigeration and/or Electrical Contractor



<u>SAFETY - IMPORTANT! READ AND UNDERSTAND THIS INFORMATION FIRST</u> SERVICE AND MAINTENANCE MUST BE PERFORMED BY TRAINED PROFESSIONAL



WARNING

RISK OF DEATH, FIRE, EXPLOSION, ELECTRICAL SHOCK AND/OR OTHER PERSONAL INJURY!

- PLUG INTO A DEDICATED THREE-PRONG GROUNDED WALL RECEPTACLE. FREEZERS REQUIRE DEDICATED 15AMP POWER SUPPLY. IF IN DOUBT, EMPLOY A CERTIFIED ELECTRICIAN TO CONFIRM YOUR POWER SUPPLY MEETS CRITERIA
- INSPECT POWER CORD FOR ANY DAMAGE PRIOR TO POWERING. DO NOT PLUG THIS APPLIANCE INTO WALL RECEPTACLE IF POWER CORD IS DAMAGED.
- DO NOT ALTER, IMPACT OR PLACE PRESSURE ON POWER CORD. ALLOW ADEQUATE SPACE FOR POWER CORD TO FLOAT FREELY BETWEEN CABINET AND WALL AND DO NOT STRAIN AND/OR STRETCH POWER CORD TO REACH ELECTRICAL RECEPTACLE.
- DO NOT USE EXTENSION CORDS, POWER BARS, AND/OR ADAPTERS TO POWER THIS APPLIANCE.
- DO NOT ACCESS MECHANICALLY FASTENED AREAS WITHOUT PERMISSION OF OWNER AND READING AND UNDERSTANDING PRODUCT MANUAL.
- DISCONNECT POWER BEFORE ACCESSING MECHANICALLY FASTENED AREAS.
- MAINTENANCE AND REPLACEMENT OF LED LIGHT STRIPS AND RELATED DRIVER COMPONENTS TO BE PERFORMED BY A QUALIFIED TECHNICIAN.
- DO NOT INSTALL OUTDOORS, IN DIRECT SUN, DAMP, EXTREME HEAT AND/OR COLD CONDITIONS.
- DO NOT INSTALL APPLIANCE WHERE STORAGE, HANDLING AND/OR DISPENSING FLAMMABLE AND/OR EXPLOSIVE MATERIALS OCCUR.
- WHEN STORING APPLIANCE, BLOCK DOOR SLIGHTLY AJAR, BUT SECURE TO AVOID ACCIDENTAL ENTRAPMENT.
- WHEN DISPOSING OF APPLIANCE, REMOVE DOORS TO AVOID ACCIDENTAL ENTRAPMENT AND POTENTIAL OF SUFFOCATION.
- KEEP PLASTIC PACKAGING MATERIAL AWAY FROM CHILDREN AND ANIMALS, AND DISPOSE SAFE AND SECURE.
- TO MINIMIZE THE RISK OF POSSIBLE IGNITION OR RISK OF LEAKS HABCO® APPROVED COMPONENTS MUST BE USED TO MINIMIZE IMPROPER SERVICE.
- HABCO® UNITS MUST BE REPAIRED ONLY BY HABCO® AUTHORIZED SERVICE PERSONNEL.



WARNING

POTENTIAL RISK OF PERSONAL INJURY!

- EMPLOY BEST HEALTH AND SAFETY LIFTING PRACTICES WHEN REMOVING SHIPPING PLATFORM(S); LEVELING CABINET; REVERSING DOORS; AND MOVING APPLI-ANCE. IF IN DOUBT, ASK FOR HELP.
- EMPLOY BEST HEALTH AND SAFETY PERSONAL PROTECTION PRACTICES AND ADHERE TO MANUFACTURER'S WARNINGS WHEN USING TOOLS AND CLEANING **AGENTS**
- DO NOT CLIMB AND/OR HANG ON CABINET, SHELVING AND/OR DOORS.
- USE CARE WHEN HANDLING OR CLEANING METAL PARTS.
- PERSONAL PROTECTIVE EQUIPMENT (PPE) ARE REQUIRED WHEN SERVICING ANY PART OF THE APPLIANCE:





NOTICE

ESSENTIAL INFORMATION, OR THAT WHICH MAY CAUSE APPLIANCE DAMAGE OR ENVIRONMENTAL HARM!

- HABCO® FREEZERS ARE DESIGNED AND MANUFACTURED AS HOLDING FREEZERS. USE OF THIS FREEZER FOR PURPOSES OTHER THAN MAINTAINING PRE-FROZEN PRODUCT WILL VOID WARRANTY.
- DO NOT BLOCK EXTERIOR, LOWER FRONT GRILL. FAILURE TO COMPLY MAY RESULT IN RESTRICTED AIR CIRCULATION, SUBSTANTIALLY REDUCED COOLING PERFOR-MANCE, DAMAGE TO REFRIGERATION COMPONENTS, AND/OR SPOILED PRODUCT.
- DO NOT LOCATE APPLIANCE IN DIRECT SUNLIGHT OR IN CLOSE PROXIMITY TO HIGH HEAT SUCH AS FRYERS, RANGES, AND/OR HEATING DUCTS.
- USE ONLY MILD ANTI-BACTERIAL, NON-ABRASIVE 'DISH SOAP' DETERGENT, AND SOFT CLOTH (OR BRISTLE BRUSHES WHERE SPECIFIED) FOR CLEANING YOUR AP-PLIANCE. FOR STUBBORN RESIDUE, SUCH AS GREASE BUILD-UP ON CONDENSER (HEAT-EXCHANGE) COIL, EMPLOY THE SERVICES OF A QUALIFIED PROFESSIONAL.
- CABINET MUST BE LEVELED FRONT TO BACK AND SIDE TO SIDE TO ENSURE OPTIMUM PERFORMANCE AND UTILITY.
- MAINTAIN A CLEAN CONDENSER COIL (BOX-SHAPED COMPONENT LOCATED BEHIND THE LOWER GRILL) TO PREVENT DAMAGE TO REFRIGERATION PARTS AND POOR PERFORMANCE NOT COVERED UNDER WARRANTY, QUALIFIED PROFESSIONAL TO DISCONNECT POWER BEFORE ACCESSING MECHANICALLY FASTENED. ARFAS
- DO NOT LOAD APPLIANCE ABOVE LOAD LEVEL LINE INDICATOR LOCATED ON LEFT INTERIOR WALL. DO NOT LOAD PRODUCT OUTSIDE PERIMETER OF SHELVES.
- DO NOT TIGHTLY PACK TO THE UNIT, ENSURE THERE IS ADEQUATE SPACE BETWEEN PRODUCTS AND THE WALLS OF THE UNIT TO ALLOW FOR PROPER AIR FLOW CIRCUI ATION THROUGHOUT THE UNIT.
- ADJUSTMENTS MADE TO THE DIGITAL CONTROLLER, NOT OUTLINED WITHIN THIS MANUAL, WILL VOID HABCO® LIMITED WARRANTY AND MAY CAUSE PROD-UCT LOSS. ALTERATIONS OF FACTORY PRESET POSITION ARE NOT COVERED UNDER WARRANTY.
 ENSURE THAT APPLIANCE, REFRIGERANT AND/OR COMPONENTS ARE DISPOSED OF IN A MANNER IN KEEPING WITH LOCAL AND FEDERAL REGULATIONS.
- APPLIANCE MUST BE RUN FOR A PERIOD OF 24 HOURS PRIOR TO USE.
- AFTER ACCESSING REFRIGERATION OR ANY OTHER MECHANICALLY FASTENED AREAS OF THE APPLIANCE, REFASTEN SECURELY.
- DO NOT STORE OUTDOORS, IN DIRECT SUN, DAMP, EXTREME HEAT AND/OR COLD CONDITIONS.
- DOOR REVERSALS COMPLETED AT FACTORY OR BY HABCO® ARE WARRANTED. ANY ISSUES AND SUBSEQUENT SOLUTIONS ARISING FROM CUSTOMER REVERSED DOORS ARE THE RESPONSIBILITY OF THE END-USER. DOOR ADJUSTMENTS ARE NOT COVERED UNDER WARRANTY. INSPECT DOOR HARDWARE FOR WEAR WHEN REVERSING OR SERVICING.

ECONOMIC AND/OR PRODUCT LOSS OR SPOILAGE IS NOT COVERED BY HABCO® COMMERCIAL LIMITED WARRANTY. FAILURE TO COMPLY WITH THE INFORMATION OUTLINED ON THIS AND THE FOLLOWING SHEETS WILL VOID

HABCO® COMMERCIAL LIMITED WARRANTY.

HABCO® Commercial Freezers are designed and engineered to the highest standards using only quality components for years of reliable service. Any use of the product for purposes other than which it was designed, will void any and all manufacturer's warranty, stated or implied.

INSPECTION & UNPACKING

- A thorough inspection of the appliance should be made prior to formally receiving the goods from the carrier. If there are any markings (ie. scuffs, dents, scratches) of the packaging, please note this on the carrier's delivery slip. Common practice will have the carrier report your concerns before leaving the premises.
- Once the appliance has been received, remove stretch-wrap, corners protectors and bag.



WARNING: RISK OF SUFFOCATION! KEEP PLASTIC PACKAGING MATERIAL AWAY FROM CHILDREN AND ANIMALS, AND DISPOSE SAFE AND SECURE.

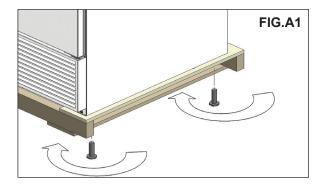
Shipping Platform Removal:



WARNING: RISK OF PERSONAL INJURY! EMPLOY BEST HEALTH AND SAFETY LIFTING PRACTICES WHEN REMOVING SHIPPING PLATFORM(S); LEVELING CABINET; REVERSING DOORS; AND MOVING APPLIANCE. IF IN DOUBT, ASK FOR HELP.

Shipping Pallet - Commercial Refrigeration

HABCO® Commercial Freezers are shipped on pallets. Pallets are fastened with the freezers leg levelers. Insets on each side of skid are provided to allow easy access for 1-3/8" wrench or socket to remove the levelers and skid respectively (FIG.A1). Once pallet is removed, do not reinstall leveller legs and follow caster kit installation below.



B. PLACEMENT AND MOUNTING OPTIONS



WARNING: RISK OF FIRE, AND ELECTROCUTION!

DO NOT ALTER, IMPACT OR PLACE PRESSURE ON POWER CORD. AL-LOW ADEQUATE SPACE FOR POWER CORD TO FLOAT FREELY BETWEEN CABINET AND WALL AND DO NOT STRAIN AND/OR STRETCH POWER CORD TO REACH ELECTRICAL RECEPTACLE.

DO NOT INSTALL OUTDOORS AND/OR IN DAMP CONDITIONS.

DO NOT INSTALL APPLIANCE WHERE STORAGE, HANDLING AND/OR DIS-PENSING FLAMMABLE AND/OR EXPLOSIVE MATERIALS OCCUR.



WARNING: RISK OF PERSONAL INJURY!

EMPLOY BEST HEALTH AND SAFETY LIFTING PRACTICES WHEN INSTALLING CASTERS OR LEGS, REMOVING SHIPPING PLATFORM(S); LEVELING CABI-NET; REVERSING DOORS; AND MOVING APPLIANCE. IF IN DOUBT, ASK FOR DO NOT TILT OR PIVOT APPLIANCE WITH LEGS OR CASTERS INSTALLED. CABINET IS NOT STABLE WHEN BALANCED ON ONE OR TWO LEGS/CAST-ERS WHICH MAY LEAD TO PERSONAL INJURY, AS WELL AS CABINET DAM-

NOTICE: RISK OF APPLIANCE DAMAGE!

DO NOT TIGHTLY PACK TO THE UNIT, ENSURE THERE IS ADEQUATE SPACE BETWEEN PRODUCTS AND THE WALLS OF THE UNIT TO ALLOW FOR PROP-ER AIR FLOW CIRCULATION THROUGHOUT THE UNIT.

DO NOT LOCATE APPLIANCE IN CLOSE PROXIMITY TO HIGH HEAT SUCH AS FRYERS, RANGES, AND/OR HEATING DUCTS.

DO NOT INSTALL DIRECTLY BENEATH UNDIFFUSED AIR CONDITION-ING VENTS.

DO NOT INSTALL OUTDOORS, IN DIRECT SUN, DAMP, EXTREME HEAT AND/OR COLD CONDITIONS.

- The appliance MUST be level, otherwise door(s) may not close and condensate may not drain property.
 - Position appliance on a relatively level floor.
 - Level appliance front to back and side-to-side, rotating leveler legs provided.
- Allow 6" (15 cm) clearance at rear of appliance for adequate air circulation.
- Appliance must be positioned with front grill unobstructed.

IN ORDER TO BE IN COMPLIANCE WITH NSF STANDARD 7, PLEASE **EMPLOY ONE OF THE FOLLOWING MOUNTING OPTIONS**

CABINET SEALED TO THE FLOOR - OPTIONAL

HABCO® Commercial Refrigerators are designed with flush bases to allow sealing to the floor where required. To seal the cabinet to the floor follow these procedures:

- Allow 6" (15 cm) clearance at rear of appliance for power cord. Disconnect power to cooler.
- Level the cooler front to back and side to side.
- iii. Draw an outline of the base of the cabinet on the floor.
- iv. Lift cooler up.
- Apply an adequate amount of "NSF Approved Sealant" (Refer to http://www.nsf.org/) at about 0.5" (1.27 cm) inside the drawn outline.
- vi. Lower the cooler back down
- vii. Ensure that all gaps and openings between the bottom perimeter of the refrigerator and floor are sealed without gaps.
- viii. Connect the appliance to power.

CASTER KIT INSTALLATION - OPTIONAL

HABCO® Commercial Refrigerators may be equipped with an optional caster kit. To install caster kit, follow these procedures:

- ix. Disconnect power and lift the cooler up.
- Twist levelers counter-clockwise to loosen and remove.
- i. Install non-braking casters at rear of the refrigerator by threading into existing leveler leg hole.
- Install braking casters at front of the refrigerator by threading into existing leg leveler hole. WHEN ROLLING REFRIGERATOR INTO POSITION, ENSURE THE FRONT CASTERS EXTEND OUT-WARD FROM THE CABINET FACE.

- iii. Position the cooler according to HABCO Install Guide and connect power.
- iv. When in place, engage brakes on front casters.

LEG KIT INSTALLATION - OPTIONAL

HABCO® Commercial Refrigerators may be equipped with an optional leg kit to provide a minimum unobstructed clearance of 6.0 inches (150 mm) beneath the unit. To install leg kit, follow these procedures:

- Disconnect power and lift the cooler up.
- vi. Twist levelers counter-clockwise to loosen and remove.
- vii. Thread legs from kit into existing leveler holes.
- viii. Level the cooler front to back and side to side using the end of the leg to adjust.
- ix. Position the cooler according to HABCO Install Guide and connect power.

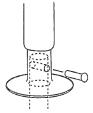
SECURITY/SEISMIC LEG KIT INSTALLATION - OPTIONAL

HABCO® Commercial Refrigerators and Freezers may be equipped with an optional security/seismic leg kit to provide a minimum unobstructed clearance of 6.0 inches (150 mm) beneath the unit and secure to the floor. To install leg kit, follow these procedures:

- If new appliance, remove leveler legs that fasten shipping pallet. Do not plug-in.
- ii. If existing appliance, disconnect power.
- iii. Lift appliance and securely block on all four sides at a height of 10".
- iv. If existing appliance, twist levelers counter-clockwise to loosen and remove.
- * Optional Seismic Restraint Option see below.
- vi. Thread legs, with flanged toe threaded into leg, into existing leveler holes.
- vii. Lower appliance to rest on flanged toe.
- viii. Gently position the cooler according to HABCO Install Guide.
- ix. Level the cooler front to back and side to side using the flanged toe end to adjust.
- Once leveled and positioned, fasten flanged toe end to floor through holes provided (floor mounting fasteners and anchors not supplied) according to local codes.
- xi. Connect power.

* Optional Seismic Restraint Requirement:

Easily modified to meet SMACNA seismic restraint requirement. First, drill a 16mm (5/8") hole in flanged toe to accomodate anchored rod (not provided). Then drill a 6mm (1/4") hole through the toe portion which allows the leg to be pinned (Pin not provided).



The information above is intended for reference purposes only. This install requires technical expertise beyond the scope of these instructions.

C. LOCATION

- Position Freezer on level floor. Freezer MUST be level, otherwise door(s) may not close and condensate may not drain property.
- 2. Allow 6" (15 cm) clearance at rear of Freezer for adequate air circula-



WARNING: RISK OF FIRE, AND ELECTROCUTION!

DO NOT ALTER, IMPACT OR PLACE PRESSURE ON POWER CORD. AL-LOW ADEQUATE SPACE FOR POWER CORD TO FLOAT FREELY BETWEEN CABINET AND WALL AND DO NOT STRAIN AND/OR STRETCH POWER CORD TO REACH ELECTRICAL RECEPTACLE.

DO NOT INSTALL OUTDOORS AND/OR IN DAMP CONDITIONS.

DO NOT INSTALL APPLIANCE WHERE STORAGE, HANDLING AND/OR DIS-PENSING FLAMMABLE AND/OR EXPLOSIVE MATERIALS OCCUR.

- Freezer must be positioned with front grill unobstructed. Failure to provide adequate air circulation to the grill will harm the refrigeration system and potentially void warranty.
- Ensure that heating ducts, radiators, electrical elements and the like are not positioned near the refrigeration located in the bottom of cabinet. Position away from high heat areas (such as fryers, ranges). Do not locate in direct sun.
- Do not install the unit next to steam applianes (ie. dishwashers).
- Freezer must be placed in a ventilated room not exceeding 30°C (86°F) and 55%RH.

NOTICE: RISK OF APPLIANCE DAMAGE!

DO NOT TIGHTLY PACK TO THE UNIT, ENSURE THERE IS ADEQUATE SPACE BETWEEN PRODUCTS AND THE WALLS OF THE UNIT TO ALLOW FOR PROP-ER AIR FLOW CIRCULATION THROUGHOUT THE UNIT.

DO NOT LOCATE APPLIANCE IN CLOSE PROXIMITY TO HIGH HEAT SUCH AS FRYERS, RANGES, AND/OR HEATING DUCTS.

DO NOT INSTALL OUTDOORS, IN DIRECT SUN, DAMP, EXTREME HEAT AND/OR COLD CONDITIONS.

D. **ELECTRICAL**



WARNING: RISK OF DEATH, FIRE, EXPLOSION, ELECTRICAL SHOCK AND/OR OTHER PERSONAL INJURY!

PLUG INTO A DEDICATED THREE-PRONG GROUNDED WALL RECEPTACLE. SINGLE DOOR FREEZERS REQUIRE DEDICATED 15AMP POWER SUPPLY, AND DOUBLE DOOR FREEZERS REQUIRE DEDICATED 20AMP DEDICATED POWER SUPPLY. IF IN DOUBT, EMPLOY A CERTIFIED ELECTRICIAN TO CONFIRM YOUR POWER SUPPLY MEETS CRITERIA.

DO NOT USE EXTENSION CORDS, POWER BARS, AND/OR ADAPTERS TO POWER THIS APPLIANCE.

DO NOT ALTER, IMPACT OR PLACE PRESSURE ON POWER CORD. AL-LOW ADEQUATE SPACE FOR POWER CORD TO FLOAT FREELY BETWEEN CABINET AND WALL AND DO NOT STRAIN AND/OR STRETCH POWER CORD TO REACH ELECTRICAL RECEPTACLE.

INSPECT POWER CORD FOR ANY DAMAGE PRIOR TO POWERING. DO NOT PLUG THIS APPLIANCE INTO WALL RECEPTACLE IF POWER CORD IS DAMAGED.

DO NOT ACCESS MECHANICALLY FASTENED AREAS WITHOUT PERMIS-SION OF OWNER AND READING AND UNDERSTANDING PRODUCT MANUAL.

DISCONNECT POWER BEFORE ACCESSING MECHANICALLY FASTENED AREAS.

1. Check that the power supply conforms to the data plate located on the upper left interior wall of the cabinet.

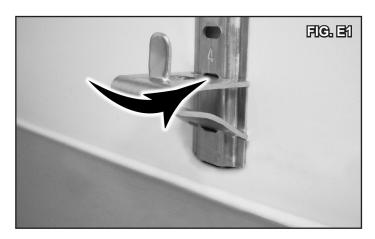
E. START-UP

! NOTICE: NO PACKAGING MATERIAL IS LOCATED IN CONDENSING CHAMBER! DO NOT REMOVE LOWER AIR FLOW GRILL WITHOUT READING AND UNDERSTANDING THIS MANUAL.

DO NOT LOAD APPLIANCE ABOVE LOAD LEVEL LINE INDICATOR LOCATED ON LEFT INTERIOR WALL. DO NOT LOAD PRODUCT OUTSIDE PERIMETER OF SHELVES.

DO NOT BLOCK EXTERIOR, LOWER FRONT GRILL. FAILURE TO COMPLY MAY RESULT IN RESTRICTED AIR CIRCULATION, SUBSTANTIALLY REDUCED COOLING PERFORMANCE, DAMAGE TO REFRIGERATION COMPONENTS, AND/OR SPOILED PRODUCT.

- 1. Ensure that you have received pieces supplied within freezer.
 - Corresponding number of shelves standard with your freezer
 - Corresponding number of shelf clips (four per shelf)
 - Safety, Installation and Instruction Manual
 - Door Handle with mounting screws (where applicable)
- Install Door Handle (where applicable). Remove screws from handle supplied. Locate interior door frame mounting holes beneath the rubber gasket flap, and insert the screws outward so that the screw-ends protrude on the outside of the door frame. Insert handle positioning pins in upper and lower holes, and fasten screws to handle.
- Install shelving in the desired location (Fig E1), top tab first, then snapping bottom tab securely into shelf pilaster. Shelf clips adjustable in 1/2" increments.



- 5. POWER UP FREEZER by plugging into wall receptacle.
- Allow Freezer to run empty for a 24 hour period to ensure proper operation.

NOTE: OBSERVE LOAD LIMIT NOTED ON LEFT HAND INTERIOR WALL FOR OPTIMUM EFFICIENCY. LOADING ABOVE THE LOAD LEVEL LINE IS NOT RECOMMENDED. A BACK-STOP IS INSTALLED ON INTERIOR REAR WALL OF FREEZER TO ENSURE ADEQUATE AIR CIRCULATION. DO NOT BLOCK AIR FLOW BEHIND BACK-STOP. FAILURE TO COMPLY WILL RESULT IN RESTRICTED AIR CIRCULATION, SUBSTANTIALLY REDUCED COOLING PERFORMANCE AND VOID WARRANTY.

F. DIGITAL CONTROLLER ADJUSTMENT

NOTICE: RISK OF APPLIANCE DAMAGE AND SPOILAGE! ADJUSTMENTS MADE TO THE DIGITAL CONTROLLER, NOT OUTLINED WITHIN THIS USER GUIDE. WILL VOID HABCO® LIMITED WARRANTY.

All HABCO® Commercial Freezers are preset at the factory to maintain -23°C (-10°F) to -17.5°C (0°F). HABCO® Commercial Freezers are equipped with an advanced digital controller allowing precision cooling and outstanding energy efficiency.

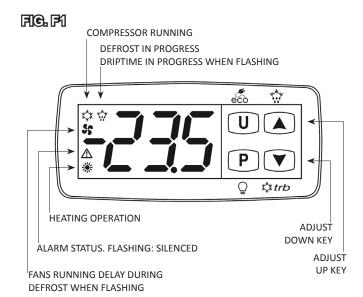


FIG.F2 - CHART - DETAIL DIGITAL CONTROLLER				
READING THE CONTROL- LER TEMPERATURE	The average temperature is displayed on the controller in degrees Fahrenheit. Product temperature will be average between the lowest and highest temperature displayed when unit is stabilized.			
2. HOW TO CHANGE HOLD- ING TEMPERATURE OF YOUR CABINET	a. Press and release the "UP" key (*For HL units Press and release the "P" key) CURRENT TEMPERATURE SETTING WILL APPEAR b. Press the UP or DOWN arrow keys to change the temperature setting within 10 seconds; c. Wait 10 seconds.			
3. WHAT TO DO IF THE ALARM SOUNDS	a. Leave Door(s) Closed; b. Press any key on controller face to disable the alarm; c. Check temperature to prevent spoilage; d. Contact HABCO® and advise Serial Number (located on upper left interior wall); Alarm Code displayed on Controller face (FIG.F3); and, full contact information with phone number.			
4, HOW TOSTART MANUAL DEFROST	Press and hold "UP" key for minimum 5 seconds.			

FIG. F3		Back-up Operation During Alarm Condition	
Message	Cause	/ What to Do?	
E1	Cabinet Probe Failure	Compressor Operates on Timer Instead of Using Cabinet Temperature Reading / See Chart "FIG.F2.3"	
E2	Evaporator Probe Failure	Defrost Period is Timed Instead of Using Evaporator Temperature / See Chart "FIG. F2.3"	
E3	Air Probe Failure	Supplementary air probe, back-up operation not applicable.	
Hi	Maximum Tem- perature Alarm	Controller Operates as Normal Until Alarm Condition is Resolved / See Chart "FIG. E2.3" Pressing any button will silence the alarm.	
H1, H2	Maximum Tem- perature Alarm-1 (Cabinet bottle Probe) or Alarm-2 (Air Probe)	Controller Operates as Normal Until Alarm Condition is Resolved / See Chart "FIG. F5.3" Pressing any button will silence the alarm.	
Lo	Minimum Tem- perature Alarm	Controller Operates as Normal Until Alarm Condition is Resolved / See Chart "FIG. E2.3" Pressing any button will silence the alarm.	
L1, L2	Minimum Tem- perature Alarm-1 (Cabinet bottle Probe) or Alarm-2 (Air Probe)	Controller Operates as Normal Until Alarm Condition is Resolved / See Chart "FIG. F5.3" Pressing any button will silence the alarm.	
loc	Locked	"loc" – Locked – Displayed following Operating Delay on initial start up or following a high temperature event (unit reached 32°F or higher for 30 minutes or longer). To unlock, press the "Up" and "Down" buttons on control simultaneously for 5 seconds or follow the Emergency Unlock procedure as below.	
od	Operating Delay	"od" – Operating Delay – Displayed for 4 minutes upon initial power up of unit	
оР	Door Open	"oP" – Door Open – Displayed while door is open (or when door did not fully close after access to refrigerator)	
ser	Service Mode	"ser" – Service Mode – Displayed after pressing the "Up" and "Down" buttons on control simultaneously for 5 seconds. Service mode allows the loading/unloading of products without triggering the high temperature alarm and health lock by delaying the health lock timer by an extra 60 minutes.	

LIGHTING



MARNING: RISK OF DEATH, FIRE, EXPLOSION, ELECTRICAL SHOCK AND/OR OTHER PERSONAL INJURY!

DO NOT ACCESS MECHANICALLY FASTENED AREAS WITHOUT PERMIS-SION OF OWNER AND READING AND UNDERSTANDING PRODUCT MANUAL.

DISCONNECT POWER BEFORE ACCESSING MECHANICALLY FASTENED ARFAS.

MAINTENANCE AND REPLACEMENT OF LED LIGHT STRIPS AND RELAT-**ED DRIVER COMPONENTS TO BE PERFORMED BY A QUALIFIED TECHNICIAN ONLY.**

Light switch position is described, "as you face the appliance". SF28 models' Light Switch is located betweeen the bottom of the door and on the top face of front grill. There is a light switch symbol beside the switch.

H. **DOORS**



WARNING: RISK OF DEATH, FIRE, EXPLOSION, ELECTRICAL SHOCK AND/OR OTHER PERSONAL INJURY!

DO NOT ACCESS MECHANICALLY FASTENED AREAS WITHOUT PERMIS-SION OF OWNER AND READING AND UNDERSTANDING PRODUCT MANUAL.

DISCONNECT POWER BEFORE ACCESSING MECHANICALLY FASTENED AREAS.



WARNING: RISK OF PERSONAL INJURY! EMPLOY BEST HEALTH AND SAFE-TY LIFTING PRACTICES WHEN REMOVING SHIPPING PLATFORM(S); LEVEL-ING CABINET; REVERSING DOORS; AND MOVING APPLIANCE. IF IN DOUBT, ASK FOR HELP.

ANTI-FOG GLASS DOOR

- The Anti-Fog film installed on the glass door is a scratch resistant coating to prevent condensation and frost to form on the cold glass surface after opening and closing of the door.
- Do not use abrasive cleaners and materials like Baking Soda, Melamine Foam, Steel Wool, razor blades or any other mechanical devices on the coating to remove foreign residues or objects.
- Do not use sealants, cleaners, or other materials containing bleach, ammonia, silicone or wax that can contaminate, damage, and leave residues on the coating. Doing so will impede the function of the antifog film.
- Do not apply any sort of tape, glue, stickers, attachments, magic markers or similar products on the coating.

NOTICE: HABCO® WARRANTS FACTORY DOOR REVERSAL ONLY. ANY IS-SUES AND SUBSEQUENT SOLUTIONS ARISING FROM FIELD REVERSED DOORS ARE THE RESPONSIBILITY OF THE CUSTOMER. DOOR ADJUST-MENTS ARE NOT COVERED UNDER WARRANTY. INSPECT DOOR HARD-WARE FOR WEAR WHEN REVERSING OR SERVICING.

Battery:

Back-up battery pack (mounted on inside of grill) allows control to monitor products and engage health lock if products spoils during a power failure. Steps below must be followed to preserve life expectancy of batteries.

- Turn on the battery pack when the unit is turned on
- Turn off the battery pack when the unit is turned off (except during power failure)

To ensure uninterrupted battery back-up, manufacturer recommends replacement of batteries once a year.

Emergency Door Unlock:

An alternative method of manually opening the door lock is to insert any key into the slot on side of freezer by the door lock. Insert straight in, hold firmly and push downwards as shown in Figure H7.



Note:

"loc" and "H1/H2" will still be displayed if above alternative method is applied.

Lock Function Field Evaluation:

- Make sure the door is unlocked, and if not, press and hold the up & down arrow buttons together for 4 seconds to unlock it. Note: if the unit displays 'od', wait until 'od' is no longer displayed (should be 4 minutes or less)
- Make sure the battery switch is off (O position)
- Unplug the unit, wait 1 minute, and turn the unit back on by plugging it back in. The door should lock right away

Easy Mount Swing Door Reversal - Single Solid Door Models

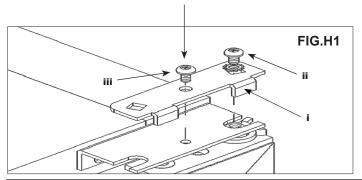
! NOT APPLICABLE TO MODEL: units with HL suffix

Single Door models can be reversed on location. All single doors are installed at factory with handle on left hand side and hinge on right side.

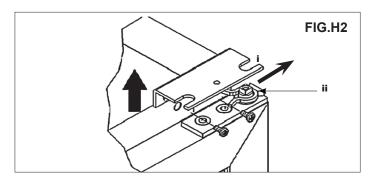
- Unplug the freezer. Remove lower grill and sign/header assemblies.
- Door closed, remove hinge tensioning bracket (FIG.H1i) first by unfastening (centre) set-screw (FIG.H1iii). Note: bracket is under tension - hold securely in place until set-screw is removed then gently release bracket tension. Save set-screw.

MARNING!

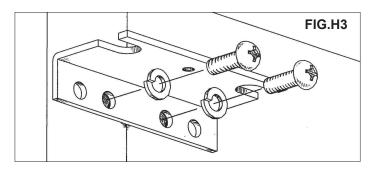
HOLD DOOR AGAINST CABINET WHILE REMOVING BRACKET AND FASTENERS. MAGNETIC DOOR GASKET WILL ASSIST.
REMOVAL OF THE SET-SCREW (FIGHiii)WILL LEAVE DOOR UNSECURED.



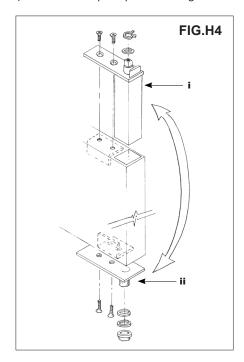
- Remove and save hinge pin fastener and one star washer (See Fig H1ii).
- 4. <u>To Remove Door:</u> Tilt sideways out of the upper mounting bracket notch (FIG.H2i) and lift to remove bottom pivot pin from lower mounting bracket. Save nylon washers, upper bushing and stop spring from hinge shaft as shown in (FIG.H2ii) and any nylon washers from bottom door pivot pin.



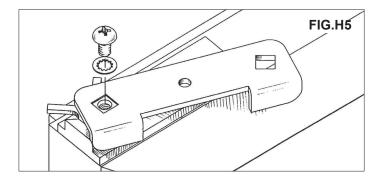
5. Remove upper cabinet mounting bracket and refasten screws to the opposing side of the freezer (FIG.H3). Remove lower cabinet mounting bracket & fasten to opposing side of the cabinet. Ensure nylon bushing remains in place in lower mounting bracket hole.



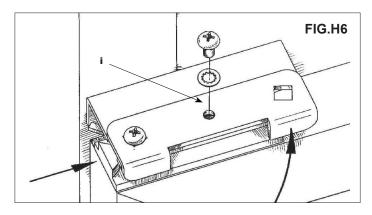
On the door, reverse door hinge (FIG.H4i) and bottom pivot plate (FIG.H4ii). Refasten both pivot plate and hinge.



- Rotate door 180º to opposing hinge position. Door hinge will now be at top left with handle on right side.
- Place nylon washer on lower door pivot pin. Position the lower door pivot pin with washer into the lower mounting bracket bush-
- Place nylon washer and stop spring onto hinge post. Position door hinge post in the upper cabinet mounting bracket, sliding the hinge post into outer notch located on the cabinet mounted bracket.
- 10. Door in position, reinstall hinge tensioning bracket onto the square portion of the hinge post at 45° angle from face of cabinet (FIG. H5).



11. Push hinge tensioning bracket into tensioned position (flush to face of cabinet mounting bracket - FIG.H6) and fasten securely with set-screw (centre hole of the hinge tensioning bracket (FIG.H6i).



- To ensure door is installed correctly, open door 10° and it should close by itself.
- Reinstall lower grill and sign/header assemblies. b.
- Restore power.

PREVENTATIVE MAINTENANCE

HABCO® Commercial Freezers require very little maintenance. The freezer, installed according this User Guide, will only require regular cleaning.



WARNING: RISK OF DEATH, FIRE, EXPLOSION, ELECTRICAL SHOCK AND/OR OTHER PERSONAL INJURY!

DO NOT ACCESS MECHANICALLY FASTENED AREAS WITHOUT PERMIS-SION OF OWNER AND READING AND UNDERSTANDING PRODUCT MANUAL.

DISCONNECT POWER BEFORE ACCESSING MECHANICALLY FASTENED AREAS.



DANGER: RISK OF FIRE OR EXPLOSION. FLAMMABLE RE-FRIGERANT USED. TO BE REPAIRED ONLY BY TRAINED SER-VICE PERSONNEL. DO NOT USE MECHANICAL DEVICES TO DE-FROST REFRIGERATOR. DO NOT PUNCTURE REFRIGERANT TUBING. R290 REFRIGERATION SYSTEM SHOULD ONLY BE USED IN A HABCO UNIT THAT IS DESIGNED AND APPROVED FOR R290.

R290 Service Manual, available from HABCO Manufacturing Inc.



WARNING: RISK OF PERSONAL INJURY!

EMPLOY BEST HEALTH AND SAFETY LIFTING PRACTICES WHEN REMOV-ING SHIPPING PLATFORM(S); LEVELING CABINET; REVERSING DOORS; AND MOVING APPLIANCE. IF IN DOUBT, ASK FOR HELP.

EMPLOY BEST HEALTH AND SAFETY PERSONAL PROTECTION PRACTICES AND ADHERE TO MANUFACTURER'S WARNINGS WHEN USING TOOLS AND **CLEANING AGENTS.**

USE CARE WHEN HANDLING OR CLEANING METAL PARTS.

NOTICE: RISK OF APPLIANCE DAMAGE!

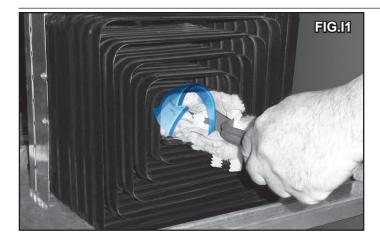
MAINTAIN A CLEAN CONDENSER COIL (BOX-SHAPED COMPONENT LO-CATED BEHIND THE LOWER GRILL) TO PREVENT DAMAGE TO REFRIGERA-TION PARTS AND POOR PERFORMANCE NOT COVERED UNDER WARRANTY. QUALIFIED PROFESSIONAL TO DISCONNECT APPLIANCE FROM ELECTRI-CAL RECEPTACLE PRIOR TO REMOVING AIR FLOW GRILL FOR MAINTE-NANCE OR SERVICE.

USE ONLY MILD ANTI-BACTERIAL, NON-ABRASIVE 'DISH SOAP' DETERGENT AND SOFT CLOTH OR BRISTLE BRUSHES FOR CLEANING YOUR APPLIANCE. FOR STUBBORN RESIDUE, SUCH AS GREASE BUILD-UP ON CONDENSER (HEAT-EXCHANGE) COIL, EMPLOY THE SERVICES OF A QUALIFIED PROFES-SIONAL.

All refrigeration devices require thorough cleaning of the condenser coil (Heat-Exchange Coil located at front base of cabinet behind the grill on HABCO® Commercial Freezers). Visually inspect the condenser coil for build-up of grease, floor wax, dust and lint regularly. At minimum, cleaning should be completed on a monthly basis. Use either a dusting wand for models equipped with Free&Clear™ condendser coil (FIG.I1) to remove dust from between condenser fins-or condenser comb to remove heavier build-up.

Lint-Tolerant Condenser Coil (SF28/SF46 Series'):

- Disconnect power to appliance.
- 2. Remove lower front airflow grill.
- 3. Cleaning:
 - Free&Clear™ Finless Condenser Coil (SF24 Series) use a combination of dusting wand and vacuum for thorough cleaning (FIG.I1)
- Reinstall lower front airflow grill. 4.
- Reconnect power to appliance.



If the build-up proves to be too difficult to manage, please contact a qualified service technician.

Combatting Odors:

- An open box of baking soda placed on a shelf at the rear of the cabinet will help prevent odours. The box should be replaced every three months.
- Maintain clean freezer, inside and out, at all times.

CLEANING PROCEDURES



WARNING: RISK OF DEATH, FIRE, EXPLOSION, ELECTRICAL SHOCK AND/OR OTHER PERSONAL INJURY!

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DISCONNECT POWER BEFORE ACCESSING MECHANICALLY FASTENED AREAS.



WARNING: RISK OF PERSONAL INJURY!

USE ONLY MILD ANTI-BACTERIAL, NON-ABRASIVE 'DISH SOAP' DETERGENT, AND SOFT CLOTH (OR BRISTLE BRUSHES WHERE SPECIFIED) FOR CLEANING YOUR APPLIANCE. FOR STUBBORN RESIDUE, SUCH AS GREASE BUILD-UP ON CONDENSER (HEAT-EXCHANGE) COIL, EMPLOY THE SERVICES OF A QUALIFIED PROFESSIONAL.

USE CARE WHEN HANDLING OR CLEANING METAL PARTS.

- NOTICE: RISK OF APPLIANCE DAMAGE! AFTER ACCESSING REFRIGERATION OR ANY OTHER MECHANICALLY FASTENED AREAS OF THE APPLIANCE, RE-**FASTEN SECURELY.**
- Interior Cabinet Cleaning: A solution of one (1) tablespoon baking soda to one (1) litre (one quart) warm water, or a mild mixture of anti-bacterial dish soap and warm water with a soft cloth may be used. Rinse and dry thoroughly.
- Interior Stainless Steel Cleaning: For general cleaning of the stainless steel floor please follow Notices in section (I) noted previous. A wide variety of oil based stainless steel cleaning agents are available from the hardware store.
- Shelf Cleaning: Remove shelf from cabinet. Using soft cloth with mild solution of antibacterial detergent and warm water, wash shelf by hand.

NOTICE: RISK OF APPLIANCE DAMAGE! DO NOT SOAK SHELF IN ANY LIQ-UIDS OTHER THAN WATER AND DETERGENT.

For areas of shelf where cloth cannot fully reach, use brush (HABCO® P/N C097589) with soap solution to remove any remaining contaminants (see FIG.J1 and J2). Once all contaminants are removed, rinse and dry thoroughly with soft cloth. Allow shelf to air dry completely before returning it to cabinet.



ANTI-FOG GLASS DOOR

- The Anti-Fog film installed on the glass door is a scratch resistant coating to prevent condensation and frost to form on the cold glass surface after opening and closing of the door.
- Do not use abrasive cleaners and materials like Baking Soda, Melamine Foam, Steel Wool, razor blades or any other mechanical devices on the coating to remove foreign residues or objects.
- Do not use sealants, cleaners, or other materials containing bleach, ammonia, silicone or wax that can contaminate, damage, and leave residues on the coating. Doing so will impede the function of the anti-fog film.
- The glass door may be cleaned using a soft dry or slightly damp towel with common household ammonia free glass cleaners, or a mixture of water and vinegar, alcohol, or a mild detergent. On very cold surfaces, use a mixture of water and isopropyl alcohol.
- Cleaning the Magnetic Positive-Seal Gasket: A mild solution of antibacterial dish soap and warm water with a damp cloth or sponge should be used to clean all HABCO® Commercial Freezer door gaskets. Do Not Pull, Remove, Place Undo Stress on, or Submerge Any Door Gaskets While Cleaning.
- vi. Pilaster Removal for Cleaning: Remove product and shelving. Loosen pilaster fasteners located at the top of each pilaster strip. Lift up and off the wall and clean beneath. Replace pilasters and ensure the fasteners are secured.
- Preparing the Appliance for Extended Shutdown & Storage:



WARNING: RISK OF ENTRAPMENT! WHEN STORING, ENSURE THAT DOOR IS BLOCKED SLIGHTLY AJAR. BUT SECURED NOT TO OPEN.

NOTICE: RISK OF APPLIANCE DAMAGE! DO NOT STORE OUTDOORS, IN DI-RECT SUN, DAMP, EXTREME HEAT AND/OR COLD CONDITIONS.

Disconnect power to appliance. Clean thoroughly following section J instructions. Remove shelving and clean according to instructions. Leave an open box of baking soda inside with door blocked slightly ajar, but secured not to open. Cover entire appliance with appropriate, breathable cover.

TROUBLE-SHOOTING

Prior to calling for service, check the following:

- Is the appliance plugged-into dedicated 15 Amp serviced, grounded 3 prong wall receptacle?
- Is the circuit breaker thrown or fuse blown?
- Is there adequate power?
- Is the circuit prone to power fluctuations?
- Are there other appliances on the same circuit drawing power?
- Has an extension cord, power bar or adapter, been improperly used to connect power?
- Is the appliance overloaded with product?
- Is there adequate ventilation?
- Is the condenser plugged with grease and/or dirt?
- Are the doors closing properly?
- Do the gaskets seal snugly?
- Is the lower guide track free from debris and spillage?
- Is the shipping pallet removed and is the appliance level?

<u>Information to Provide to Qualified Service Professional:</u>

- Serial Number of appliance (upper left interior wall);
- Appliance Installation Address and Contact Information;
- Installation Location Hours of Operation;
- Nature of Problem;
- Any reports of power interruptions;
- Recent service or maintenance completed on appliance;
- Has the appliance been relocated from original installation;
- Clear access to the appliance;
- Safety, Installation and Instruction Manual.