

OPERATOR MANUAL

IMPORTANT INFORMATION, KEEP FOR OPERATOR

888-994-7636, fax 888-864-7636 unifiedbrands.net

THIS MANUAL MUST BE RETAINED FOR FUTURE REFERENCE. UNDERSTAND AND FOLLOW THE INSTRUCTIONS AND WARNINGS CONTAINED IN THIS MANUAL.

FOR YOUR SAFETY Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WARNING R290 flammable refrigerant in use. Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

NOTIFY CARRIER OF DAMAGE AT ONCE It is the responsibility of the consignee to inspect the container upon receipt of same and to determine the possibility of any damage, including concealed damage. Randell suggests that if you are suspicious of damage to make a notation on the delivery receipt. It will be the responsibility of the consignee to file a claim with the carrier. We recommend that you do so at once.

Manufacture Service/Questions 888-994-7636.

This manual provides information for:

DIPPING CABINET SERIES



RETAIN THIS MANUAL FOR FUTURE REFERENCE

under the drawer track. An example is shown here.

NOTICE: Due to a continuous program of product improvement, Randell reserves the right to make changes in design and specifications without prior notice.

NOTICE: Please read the entire manual carefully before installation. If certain recommended procedures are not followed, warranty claims will be denied.

MODEL NUMBER	randell.
SERIAL NUMBER	
INSTALLATION DATE	SERIAL NUMBER XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
The serial number is located in the cabinet left side	DESCRIPTION

EQUIPMENT DESCRIPTION

MODEL	LENGTH	DEPTH	HEIGHT	STORAGE (GALLONS)	LID TYPE	COMPRESSOR	VOLT	AMPS	NEMA	SHIP WT (LBS)
DCHFT-45-SR6	45"	33"	36"	24	FLIP	1/3	115	3.2	5-15P	418
DCHFT-57-SR8	57"	33"	36"	36	FLIP	1/3	115	3.2	5-15P	458
DCST-36-SR7	36"	30"	36"	12	SLIDE	1/3	115	3.2	5-15P	259
DCST-44-SR9	44"	30"	36"	18	SLIDE	1/3	115	3.2	5-15P	390
DCST-54-SR11	54"	30"	36"	24	SLIDE	1/3	115	3.2	5-15P	490
DCFT-36-SR7	36"	30"	36"	12 gal	FLIP	1/3	115	3.2	5-15P	259
DCFT-44-SR9	44"	30"	36"	18 gal	FLIP	1/3	115	3.2	5-15P	390
DCFT-54-SR11	54"	30"	36"	24 gal	FLIP	1/3	115	3.2	5-15P	490

INSTALLATION

CAUTION: THIS UNIT CONTAINS R290 FLAMMABLE REFRIGERANT. USE CAUTION WHEN HANDLING MOVING AND USE OF THE REFRIGERATOR OR FREEZER. AVOID DAMAGING THE REFRIGERANT TUBING OR INCREASE THE RISK OF A LEAK.

WARNING: IT IS IMPORTANT THAT YOUR UNIT HAS ITS OWN DEDICATED LINE. CONDENSING UNITS ARE DESIGNED TO OPERATE WITH A VOLTAGE FLUCTUATION OF PLUS OR MINUS 10% OF THE VOLTAGE INDICATED ON THE UNIT DATA TAG. BURN OUT OF A CONDENSING UNIT DUE TO EXCEEDING

VOLTAGE LIMITS WILL VOID THE WARRANTY.

THE DANFOSS CONTROLLER HAS LOW VOLTAGE PROTECTION AND WILL NOT OUTPUT VOLTAGE TO THE COMPRESSOR IF VOLTAGE IS LESS THAN 104V.

GUIDELINES FOLLOW INSTALLATION RECOMMENDATIONS MAY VOID THE WARRANTY ON YOUR UNIT.

WARNING: THIS UNIT IS INTENDED FOR USE IN LABORATORIES IN COMMERCIAL INDUSTRIAL, OR INSTITUTIONAL OCCUPANCIES AS DEFINED IN THE SAFETY STANDARD FOR REFRIGERATION SYSTEMS, ASHRAE 15.





IMPORTANT - READ FIRST - IMPORTANT

INTERIOR EVAPORATOR COVER



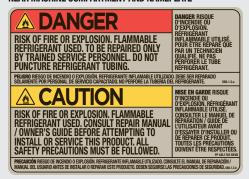
EXTERIOR OF UNIT



NEAR EXPOSED REFRIGERANT TUBING



NEAR MACHINE COMPARTMENT AND NAMEPLATE



SELECTING A LOCATION FOR YOUR NEW UNIT

The following conditions should be considered when selecting a location for your

- Floor & Countertop Load: The area on which the unit will rest must be level, free of vibration, and suitably strong enough to support the combined weights of the unit plus the maximum product load weight. NOTE: If there is a question pertaining to weight load limits, consult the factory at 1-888-994-7636.
- Clearance: Unit requires clearance of 0 inch at the top, 0 inch at the rear and 0 inch. at each side. Do not place any object that can block the ventilation exhaust from the machine compartment register. Area of equipment must be free of all combustible materials.
- Ventilation: The air cooled self contained unit requires a sufficient amount
 of cool clean air. Avoid surrounding your unit around other heat generating
 equipment and out of direct sunlight. Also, avoid locating in an unheated
 room or where the room temperature may drop below 70°F (21°C) or rise
 above 86°F (32°C).

INSTALLATION CHECKLIST

After the final location has been determined, refer to the following checklist prior to start-up:

- Check all exposed refrigeration lines to ensure that they are not kinked, dented, or rubbing together.
- Check that the condenser fans rotate freely without striking any stationary members.
- 3. Unit must be properly leveled; check all legs or casters to ensure they all are in contact with the floor while maintaining a level work surface. Adjusting bullet feet heights or shimming casters may be necessary if the floor is not level. NOTE: Damage to equipment may result if not followed. Randell is not responsible for damage to equipment if improperly installed.
- 4. Allow unit time to cool down to temperature. If temperature adjustments are required, the control is located on the front panel. Confirm that the unit is holding the desired temperature.
- Refer to the front of this manual for serial number location. Please record this information in your manual. It will be necessary when ordering replacement parts or requesting warranty service.
- Before putting in food, allow your unit to operate for approximately two (2) hours so that interior of the unit is cooled down to storage temperature.

ELECTRICAL SUPPLY

Any wiring should be done by a qualified electrician in accordance with all national and local electrical codes. A properly wired and grounded outlet will assure proper operation. Please consult the data tag attached to the compressor to ascertain the correct electrical requirements. Supply voltage and amperage requirements are located on the serial number tag.

OPERATION

Allow unit to operate for approximately two (2) hours before placing in food. Your ice cream dipping cabinet will operate between -10 to 10 F. Expect frost build up on the side walls. Never attempt to chip frost or ice away from the walls of the unit.

AMBIENT CONDITIONS

Unit is designed for normal operating temperatures between 70° F (21° C) - 86° F (32° C). Operating outside of those temperatures may cause premature product wear or failure.

Randell has attempted to preset the temperature control to ensure that your unit runs at an optimum temperature, but due to varying ambient conditions, including elevation, food type and your type of operation, you may need to alter this temperature using control adjustment until desired temperature is reached.

DANFOSS CONTROLLER OPERATION

LED	FUNCTION		
**	Compressor energized & Evaporator fan de-energized		
****	Defrost in progress		
Fans delay after defrost completion			
*	Evaporator fan energize		
\triangle	An alarm is occurring		
°C / °F	Temperature unit		



POWER ON / OFF: Press and hold the power button until LED display turns On / Off

MANUAL DEFROST: Press and hold "Defrost" Button

CHANGE SET POINT: To raise temperature

- 1. Press and hold "A" to access set point.
- 2. When set point start flashing, Press "A" to adjust set point.
- After 30 seconds, the display automatically reverts to showing the current temperature.

CHANGE SET POINT: To lower temperature

- 1. Press and hold "v" to access set point.
- 2. When set point start flashing, Press "v" to adjust set point.
- After 30 seconds, the display automatically reverts to showing the current temperature.

CHANGE FROM °F /°C:

- 1. Press the up/down buttons simultaneously for 5 seconds to access the menu.
- 2. Password is requested. Password is 000.
- 3. Press the bottom left button to OK the password.
- Using the up/down buttons, navigate to the "diS" level. Press the bottom left button to OK the selection.
- Using the up/down buttons, navigate to the "CFu" level. Press the bottom left button to OK the selection.
 - a. "-F" designates Fahrenheit.
 - b. "-C" designates Celsius.
- Press the top left button repeatedly to return to exit and return to the home screen.

MAINTENANCE

WARNING: DO NOT USE SHARP UTENSILS AND/OR OBJECTS.

WARNING: DO NOT USE STEEL PADS, WIRE BRUSHES, SCRAPERS, OR CHLORIDE CLEANERS TO CLEAN YOUR STAINLESS STEEL.

CAUTION: DO NOT USE ABRASIVE CLEANING SOLVENTS, AND NEVER USE HYDROCHLORIC ACID (MURIATIC ACID) ON STAINLESS STEEL.

WARNING: DO NOT PRESSURE WASH EQUIPMENT AS DAMAGE TO ELECTRICAL

RNING: DO NOT PRESSURE WASH EQUIPMENT AS DAMAGE TO ELECTRICA COMPONENTS MAY RESULT.

Randell strongly suggests a preventive maintenance program which would include the following monthly, weekly, and daily procedures:

If a failure of the equipment is a direct result of any of the Preventative Maintenance guidelines being neglected, the repairs and parts replacements will not be covered under warranty.

It is recommended that the customer contact the local Authorized Service Agent to provide a quote to perform periodic Preventative Maintenance.

MONTHLY PROCEDURES

Clean fan blades on the condensing unit and evaporator assembly.

RECOMMENDED CLEANERS FOR YOUR STAINLESS STEEL INCLUDE THE FOLLOWING:

JOB	CLEANING AGENT	COMMENTS
Routine cleaning	Soap, ammonia, detergent Medallion	Apply with a sponge or cloth
Fingerprints and smears	Arcal 20, Lac-0-Nu, Ecoshine	Provides a barrier film
Stubborn stains and discoloration	Cameo, Talc, Zud, First Impression	Rub in the direction of the polish lines
Greasy and fatty acids, blood, burnt-on foods	Easy-Off, Degrease It, Oven Aid	Excellent removal on all finishes
Grease and Oil	Any good commercial detergent	Apply with a sponge or cloth
Restoration/Preservation	Benefit, Super Sheen	Good idea monthly

Reference: Nickel Development Institute, Diversey Lever, Savin, Ecolab, NAFEM

Proper maintenance of equipment is the ultimate necessity in preventing costly repairs. By evaluating each unit on a regular schedule, you can often catch and repair minor problems before they completely disable the unit and become burdensome on your entire operation.

For more information on preventive maintenance, consult your local service company or CFESA member. Most repair companies offer this service at very reasonable rates to allow you the time you need to run your business along with the peace of mind that all your equipment will last throughout its expected life. These services often offer guarantees as well as the flexibility in scheduling or maintenance for your convenience. For a complete listing of current Randell ASA please visit www.unifiedbrands.net.

Randell believes strongly in the products it manufactures and backs those products with one of the best warranties in the industry. We believe with the proper maintenance and use, you will realize a profitable return on your investment and years of satisfied service.

REPLACEMENT PARTS

To order parts, contact your Authorized Service Agent. Supply the model designation, serial number, part description, part number, quantity, and when applicable, voltage and phase.

CONTACT US

If you have questions pertaining to the content in this manual, contact Randell at 888-994-7636.

TROUBLESHOOTING

This unit is designed to operate smoothly and efficiently if properly maintained. However, the following is a list of checks to make in the event of a problem. Wiring diagrams are found at the end of this manual. When in doubt, turn unit off and contact service at 888-994-7636.

SYMPTOM	POSSIBLE CAUSE	PROCEDURE
	No power to unit	Plug in unit
Unit does not run	Control in OFF position	Turn controller on
	Faulty control	Call for service at 888-994- 7636
Unit too cold	Incorrect set point	Adjust control set point
	Door / drawer ajar	Ensure door / drawer is fully closed
	Gasket torn or out of place	Inspect the gasket for wear and position
Unit too warm	Incorrect set point	Adjust control set point
	Warm product introduced to cabinet	Pre-chill product 37°F
	Ice on the coil	Initiate manual defrost
Unit noisy	Ice on the coil	Initiate manual defrost
Unit does not defrost	Excessive ice on the coil	Initiate manual defrost

DANFOSS CONTROLLER CODES

DISPLAYED ALARM CODE	ALARM	ACTION			
Hi	High Temperature Alarm	Inspect door/drawer sealing			
111	Tilgii Temperature Alaim	Inspect door/drawer sealing Contact service Contact service Clean condenser coil Inspect coil for any objects obstruction hindering airflow Contact service Verify voltage of power source, to be performed by qualified technician Contact service Verify voltage of power source, to be performed by qualified			
Lo	Low Temperature Alarm	Contact service			
		Clean condenser coil			
CON	Condenser Temperature High Limit	Inspect coil for any objects obstruction hindering airflow			
		Inspect door/drawer sealing Contact service Contact service Clean condenser coil Inspect coil for any objects			
иНі	Line Voltage Too High	to be performed by qualified			
		Contact service			
uLi	Line Voltage Too Low	Verify voltage of power source, to be performed by qualified			
		Inspect door/drawer sealing			
LEA	Continuous Compressor Runtime	' '			
		Contact service			
E01	S1 Sensor Failure	Contact service			
E02	S2 Sensor Failure	Contact service			
E03	S3 Sensor Failure	Contact service			
E04	S4 Sensor Failure	Contact service			

SERVICE

CAUTION: COMPONENT PARTS SHALL BE REPLACED WITH FACTORY OEM PARTS. SERVICE WORK SHALL BE DONE BY FACTORY AUTHORIZED SERVICE PERSONNEL, SO AS TO MINIMIZE THE RISK OF POSSIBLE IGNITION DUE TO INCORRECT PARTS OR IMPROPER SERVICE.

CAUTION: BEFORE MAKING ANY REPAIRS, ENSURE THE UNIT IS DISCONNECTED FROM ITS POWER SOURCE.

This piece of equipment uses a R290 Refrigeration system. This equipment has been clearly marked on the serial tag the type of refrigerant that is being used. There is also a warning labels stating that the unit contains R290 refrigerant. R290 is safe to use as long as you follow these warning labels.

No smoking or open flames when servicing this equipment. If needed, use a CO2 or powder type fire extinguisher.

Replacement parts used on any R290 Refrigeration system cabinet must have specific UL certification for non-sparking components.

Only authorized service technician, certified in R290 system should service this equipment.

MANIFOLD SET

A R134A manifold set can be used for servicing this equipment.

REFRIGERANT RECOVERY

Follow all national and local regulations for R-290 refrigerant recovery.

LEAKING CHECKING AND REPAIR

Leak check an R-290 system the same way you would an R-134a or R-404A system with the following exceptions.

- 1. Do not use a Halid leak detector on a R290 system.
- 2. Electronic leak detector must be designated specifically for combustible gas.

Use of a bubble solution or an ultrasonic leak detector are acceptable.

When repairing a leak, it is recommended using oxygen free dry nitrogen with a trace gas not exceeding 200PSI.

When accessing an R290 system, piercing valves are not to remain on the equipment in a permanent manner. After charge is recovered, Schrader valves are to be installed on the process stubs. Proper charge is to be weighed into the system and the system is to be leak checked afterwards.

The R290 equipment must have red process tubes and other devices through which the refrigerant is serviced, such as any service port. This color marking must remain on the equipment. If marking is removed, it must be replace and extend at least 2.5 centimeters (1") from the compressor.

CHARGING

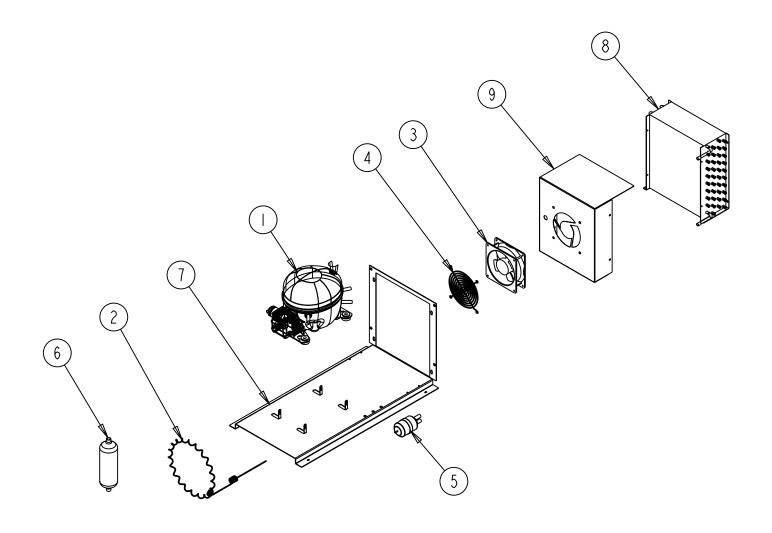
Follow the charge amount specified on the data tag. It is recommended to use the shortest hoses possible to prevent undercharging.

- · Ensure the system is sealed and leak checked
- Evacuate system to a minimum 500 micron
- Weigh in correct charge
- · Leak check the system again
- Bleed the refrigerant from the high side hose to the low side hose
- Disconnect the hoses
- · Remove line taps

REFRIGERATION PACKAGE

CALL FACTORY FOR REPLACEMENT PARTS: 888-994-7636

Parts List

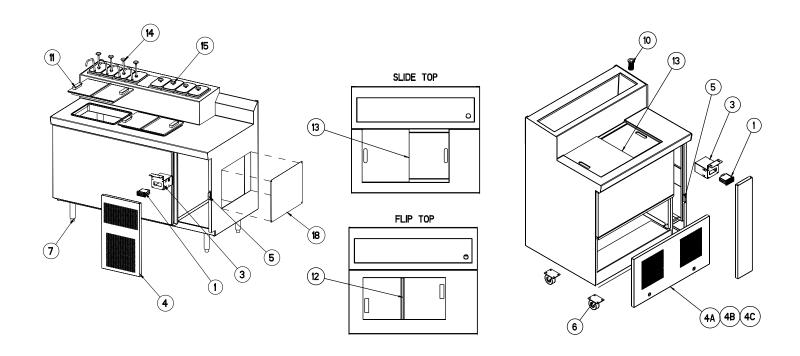


ITEM	SERVICE PART	DESCRIPTION	DCHFT-45	DCHFT-57	DCST-36 / DCFT-36	DCST-44 / DCFT-44	DCST-54 / DCFT-54
1	RF CMP1701	COMPRESSOR, 1/3HP, R290, EMBRACO 115V-60HZ	Х	Х	Х	Х	Χ
1A	RF CMP1701SC	COMPRESSOR, START COMPONENTS	Х	Х	Х	Х	Х
2	RP CAP1902	CAP, TUBE	Х	Х	Х	Χ	Χ
3	RF FAN1401	CONDENSER FAN	Х	Х	Х	Х	Х
4	RF FAN0703	FAN GUARD	Х	Х	Х	Х	Х
5	RF FLT251	FILTER DRIER, 1/4" DBL INLET	Х	Х	Х	Х	Х
6	RF ACM1802	ACCUMULATOR	Х	Х	Х	Х	Х
7	RP MNT2001	COMPRESSOR ASM STAND (T07-1905)	Х	Х	Х	Х	Х
8	RF C0I1603	CONDENSER COIL	Х	Х	Х	Х	Х
9	RP SHD2001	CONDENSER FAN SHROUD (T07-1906)	Х	Х	Х	Х	Х
NS	RP CAP1902	CAP TUBE044 X 132"	Х	Х	Х	Х	Χ

BASE

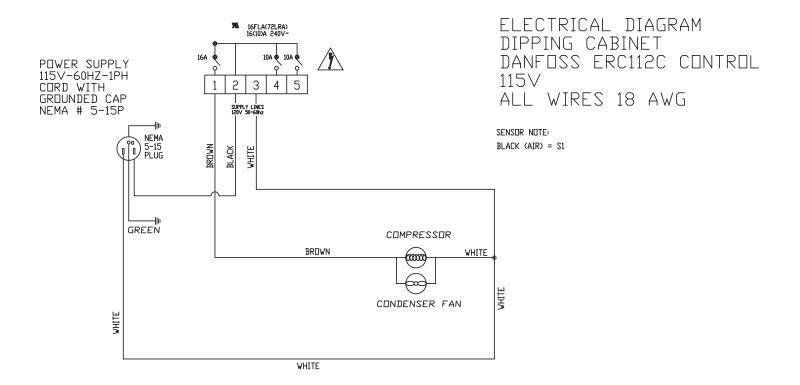
CALL FACTORY FOR REPLACEMENT PARTS: 888-994-7636

Parts List



ITEM	SERVICE PART	DESCRIPTION	DCHFT-45	DCHFT-57	DCST-36 / DCFT-36	DCST-44 / DCFT-44	DCST-54 / DCFT-54
1	RP CNT1925C	CONTROLLER, DANFOSS PREPROGRAMMED	Х	Х	Х	Х	Х
2	RF CNT1603	THERMISTOR, QTI, AIR SENSOR, BLACK, 10'	Х	Х	Х	Х	Х
3	RP CVR2001	CONTROL BOX COVER	Х	Х	Х	Х	Х
4	CONSULT FACTORY	LOUVER, HIGH CAPACITY	Х	Х	-	-	-
4A	CONSULT FACTORY	LOUVER, 36"	-	-	Х	-	-
4B	CONSULT FACTORY	LOUVER, 44"	-	-	-	Х	-
4C	CONSULT FACTORY	LOUVER, 54"	-	-	-	-	Х
5	HD CTH9901	CATCH, MAGNETIC SOUTHCO	Х	Х	Х	Х	Х
6	HD CST041HD	CASTER, 3.75" O/A HEIGHT W/O BRAKE	-	-	Х	Х	Х
7	HD LEG9902	LEGS	Х	Х	-	-	-
8	EL WIR470	POWER CORD, 16GA 2' MALE	Х	Х	Х	Х	Х
9	EL WIR1703	POWER CORD, 9' 16/3 W/90*-45* ANGLE PLUG (SJTO WIRE)	Х	Х	Х	Х	Х
10	HD DRN1702	DRAIN, ABS, GRAY, 1.375", 1.00" NPS X 2.875" LG W/NUT & WASHER	-	-	Х	Х	Х
11	HD LID110	LID 110 11.5"x16.5" SLRS110	Х	Х	-	-	Х
12	HD LID111	LID 111 10.25"x20.2" SLRS111	-	-	Х	Х	-
13	PL BRD075	CUTTING BOARD	-	-	Х	Х	Χ
14	HD PMP83330	PUMP, SYRUP/CONDIMENT 83330	Х	Х	Х	Х	Х
15	HD LDL204	LADLE&LID ASSY 82595 (CECILWARE# 204-7L)	Х	Х	Х	Х	Х
16	PL JAR001	JAR, PLASTIC LARGE 82557 82557	Х	Х	Х	Х	Х
17	PL JAR002	JAR, PLASTIC SMALL 82558 82558	Х	Х	Х	Х	Х
18	CONSULT FACTORY	DOOR, DRAIN ACCESS	-	-	Х	Х	Х
19	CONSULT FACTORY	ACCESS PANEL	Х	Х	-	-	-

Electrical Schematic



Service Log

Model No:		Purchased From:				
Serial No:		Location:				
Date Purchased:		Date Installed:				
Purchase Order N	lo:	For Service Call:				
Date	Maintenance Perform	and	Performed By			
Date	Waintenance i crioini	- Cu	T GHOITHGU BY			