

**OPERATION AND MAINTENANCE MANUAL
REPLACEMENT PARTS LIST
FOR**

**CFM SERIES
MECHANICALLY COOLED
COLD PAN**

**CFT SERIES
MECHANICALLY COOLED
FROST TOP**

**ST-R SERIES
SOLID TOP WITH
REFRIGERATED BASE**

ATTENTION KITCHEN MANAGER

IMPORTANT TECHNICAL NOTICE REFRIGERATION AIR FILTERS

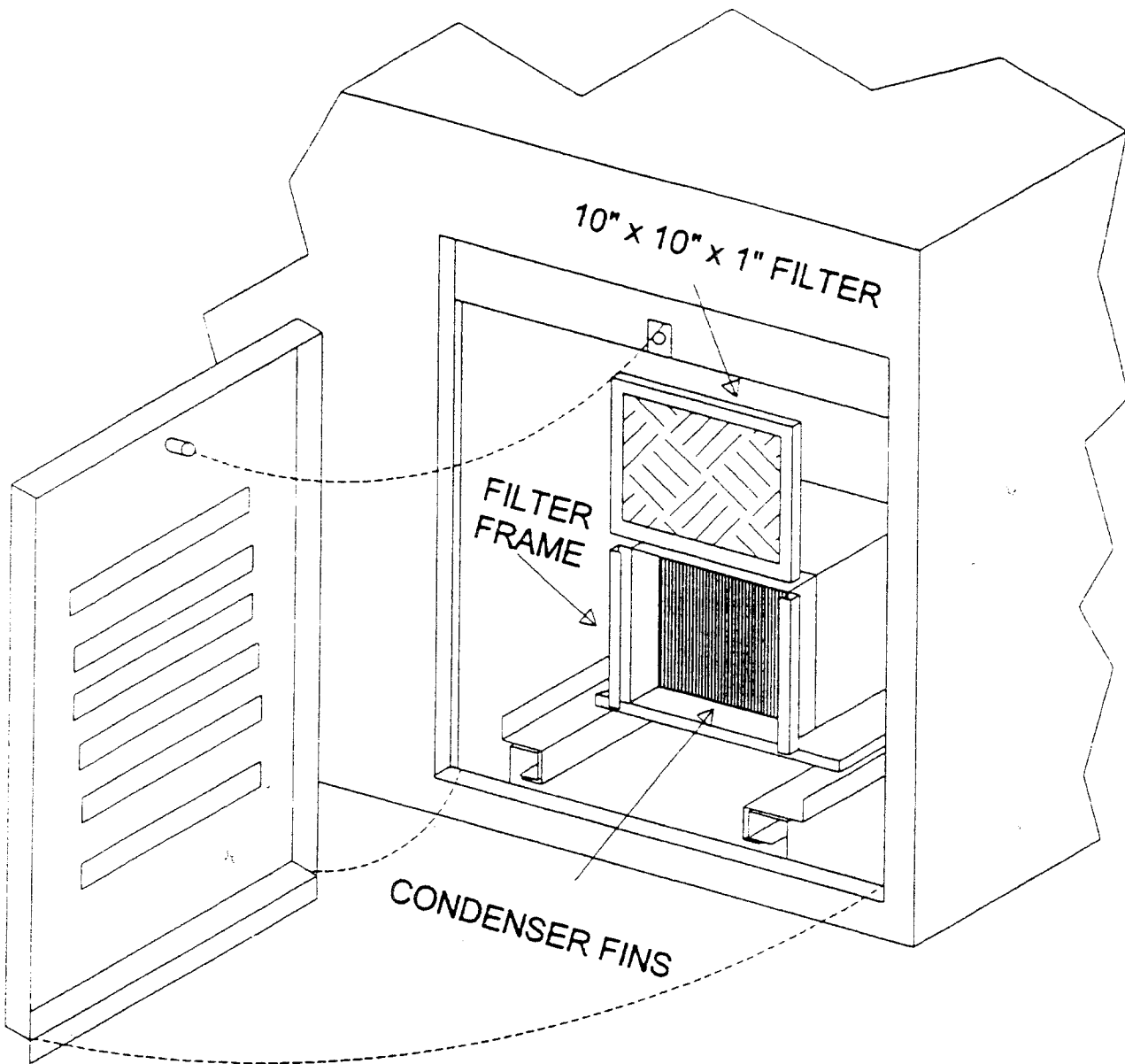
All self contained refrigeration systems provided by Low Temp Industries are provided with a 10" x 10" x 1" air filter located at the face of the condenser directly behind the louver panel. It is important to check this filter every 30 days and replace if necessary to ensure the proper operation of the unit. Failure to check this filter and replace if clogged can and will cause premature compressor failure and will not be covered by factory warranty.

If construction is not complete when the equipment is started be sure that the filters are checked and replaced if necessary once the final clean up is completed.

The purpose for this filter is to keep the condenser fins as clean as possible. If the filter is removed and discarded the fins will become clogged or the filter is not checked and replaced the compressor works harder to maintain temperature and the box interior cabinet temperature will rise.

It is **very important** that the **MAINTENANCE PERSONNEL** be informed of this feature provided on our equipment. Your cooperation in maintaining this feature is greatly appreciated. If you have any questions or problems concerning this matter please contact Ben Shackelford or Terry Taylor in the Low Temp Engineering Department 770-478-8803.

CONDENSER FILTER ACCESS CHANGE EVERY 30 DAYS



1. TO REMOVE THE LOUVERED PANEL LOOSEN THE THUMB SCREW LOCATED AT THE TOP OF THE PANEL.
2. TILT THE TOP OUT AND LIFT THE PANEL STRAIGHT UP.
3. LIFT THE FILTER STRIAIGHT UP OUT OF THE TRACK.
4. WHEN REPLACING THE FILTER NOTE THE AIR FLOW DIRECTION. IT SHOULD BE POINTING TOWARD THE CONDENSER FINS.

CAUTION: THIS FILTER MUST BE CHANGED EVERY 30 DAYS TO ENSURE PROPER OPERATION OF THE UNIT. FAILURE TO CHANGE THE FILTER WILL CAUSE THE COMPRESSOR TO RUN HOT AND CAUSE PREMATURE COMPRESSOR FAILURE. IF THE FILTER IS REMOVED AND NOT REPLACED THE CONDENSER FINS WILL BECOME CLOGGED AND REQUIRE A CHEMICAL RINSE TO CLEAR.

******* INSPECTION *******

UPON RECEIPT, THE CRATE SHOULD BE INSPECTED FOR VISUAL DAMAGE. ANY DAMAGE SHOULD BE REPORTED IMMEDIATELY TO THE CARRIER.

******* INSTALLATION INSTRUCTIONS *******

THE COLORPOINT CFM SERIES AND CFT SERIES ARE SELF CONTAINED UNIT DESIGNED FOR SHORT TERM DISPLAY AND DISPENSING OF FOOD AND DESSERTS. THIS UNIT IS DESIGNED TO HELP MAINTAIN PRODUCT TEMPERATURE FOR SHORT PERIODS OF TIME. THESE UNITS ARE DEPENDENT UPON THE AMBIENT TEMPERATURE IN WHICH THEY ARE INSTALLED AND THE PRODUCT TEMPERATURE WHEN IT IS PLACED IN THE UNITS. THE PRODUCT SHOULD BE CAREFULLY MONITORED AND ROTATED AS NECESSARY TO MEET LOCAL HEALTH REQUIREMENTS. THE ST-R SERIES ARE SELF CONTAINED UNITS DESIGNED FOR ON LINE STORAGE OF PRODUCT. THEY SHOULD NOT BE USED AS LONG TERM STORAGE OF BULK PRODUCT. THE DESIGN OF THIS UNIT ALLOWS FOR A MODULAR OPERATION, WHERE A GROUP OF UNITS CAN BE ARRANGED TO FORM A CAFETERIA SERVING LINE. ROLL THE TABLE INTO A SERVING LINE OR OTHER NEEDED POSITION AND LOCK THE BRAKES ON THE CASTERS.

IF LINE UP LOCKS ARE PROVIDED, SIMPLY ALIGN THE UNITS AND PUSH THE BARREL BOLTS THROUGH THE KEY HOLE SLOTS ON BOTH UNITS THEN TURN THE BOLT DOWN AND PUSH UP THE CAM LOCKING LEVER. TO UNLOCK THE UNITS, REVERSE THIS PROCEDURE.

******* OPERATING INSTRUCTIONS *******

START UP:

THE REFRIGERATION SYSTEM SUPPLIED WITH THESE SYSTEMS ARE OF THE HERMETIC TYPE. REFRIGERANT IS METERED BY EXPANSION VALVES WHICH ARE LOCATED IN THE COMPRESSOR HOUSING OF THE CFM SERIES AND CFT SERIES AND INSIDE THE BLOWER COIL OF THE ST-R SERIES. EACH REFRIGERATION SYSTEM IS SELF CONTAINED AND HAS BEEN LEAK TESTED, CHARGED WITH REFRIGERANT AND OPERATED TO ENSURE THE PROPER OPERATION AND SETTING OF THE CONTROLS.

ENERGIZE THE UNIT BY ATTACHING THE PLUG TO AN APPROPRIATE ELECTRICAL SUPPLY (115 VAC, 60 HZ, SINGLE PHASE, 12 AMP) AND TURNING ON THE SERVICE SWITCH LOCATED IN THE COMPRESSOR COMPARTMENT. AFTER APPROXIMATELY ONE (1) HOURS OF OPERATION THE UNIT WILL BE READY FOR USE.

OPERATION:

IN THE CFM AND CFT SERIES UNITS THE LOW PRESSURE CONTROL (PHYSICALLY LOCATED IN THE FRONT OF THE COMPRESSOR COMPARTMENT) CONTROLS THE TEMPERATURE OF THE REFRIGERATION SYSTEM. THE LOW PRESSURE CONTROL IS ADJUSTED BY TURNING THE KNOBS ON THE TOP OF IT WITH A SCREWDRIVER. THE CUT IN IS SET AT THE FACTORY AT +50 PSI AND THE DIFFERENTIAL IS SET AT 25. RAISING THE CUT IN WILL CAUSE THE DISPENSER TEMPERATURE TO BE LOWER. LOWERING THE CUT IN WILL CAUSE THE DISPENSER TEMPERATURE TO BE LOWER. LOWERING THE CUT IN WILL ALSO CAUSE THE COMPRESSOR TO RUN CONTINUOUSLY, WHICH WILL SHORTEN THE EXPECTED LIFE OF THE COMPRESSOR. THE DIFFERENTIAL SHOULD NOT BE SET LOWER THAN 15, AS THIS WILL CAUSE THE COMPRESSOR TO SHORT CYCLE, WHICH CAN LEAD TO PREMATURE COMPRESSOR FAILURE.

THE ST-R SERIES UNIT IS CONTROLLED BY A THERMOSTAT LOCATED INSIDE THE UNIT COOLER. THE THERMOSTAT CONTROLS A LIQUID LINE SOLENOID WHICH WHEN CLOSED STOPS THE FLOW OF REFRIGERANT IN THE SYSTEM. THIS CAUSES THE COMPRESSOR TO PUMPDOWN AND CYCLE OFF ON THE LOW PRESSURE CONTROL. THE LOW PRESSURE CONTROL FOR THIS SYSTEM SHOULD BE SET AT A CUT-IN OF +65 PSI AND A DIFFERENTIAL OF 40. PLEASE NOTED THE PREVIOUS INFORMATION CONCERNING ADJUSTING THE PRESSURE CONTROL AND ITS EFFECT ON THE SYSTEM.

CLEANING:

THE OUTSIDE OF THIS UNIT IS FABRICATED FROM FIBERGLASS AND SHOULD BE CLEANED WITH A MILD NON-ABRASIVE CLEANER. NORMAL LOTION SOAP THAT IS USED IN SINKS IS SATISFACTORY.

THE INNER LINER OF THIS UNIT IS FABRICATED OF 304 STAINLESS STEEL. PLEASE SEE "HOW TO CLEAN STAINLESS STEEL" IN THIS MANUAL. NOTE THAT THIS IS A VERY BROAD SECTION ON CLEANING AND THE TYPE OF EQUIPMENT AND END USE SHOULD BE KEPT IN CONSIDERATION BEFORE SELECTING ANY SPECIAL CLEANERS.

ELECTRICAL SYSTEM:

***** WARNING *****

IN ORDER TO PREVENT ANY ELECTRICAL ACCIDENTS, THIS REFRIGERATION SYSTEM SHOULD BE INSTALLED AND SERVICED BY QUALIFIED MAINTENANCE PERSONNEL ONLY PER NATIONAL ELECTRICAL CODE STANDARDS.

***** WARNING *****

INDIVIDUAL BREAKERS OR FUSES SHOULD BE PROVIDED FOR EACH COMPRESSOR MOTOR. GROUP FUSING, WHERE TWO OR MORE COMPRESSORS ARE INSTALLED ON ONE FUSE OR BREAKER IS ****NOT RECOMMENDED****. REFER TO THE NATIONAL ELECTRICAL CODE FOR APPROPRIATE LINE FUSE OR BREAKER SIZE.

OPTIONAL ITEMS:

THE CFM SERIES AND CFT SERIES UNITS MAY BE PURCHASED WITH AN OPTIONAL REFRIGERATED BASE. THIS BASE IS DESIGNED FOR ON LINE STORAGE OF PRODUCT AND SHOULD NOT BE USED FOR LONG TERM STORAGE OF BULK PRODUCT. THE REFRIGERATED BASE WORKS IN CONJUNCTION WITH THE COLD PAN OR FROST TOP SYSTEM AND CAN ONLY BE OPERATED WHEN THESE SYSTEMS ARE FUNCTIONING.

LIGHTS AND ELECTRICAL RECEPTACLES MAY ALSO BE PURCHASED AS PART OF THIS EQUIPMENT. WHEN THESE OPTIONS ARE PROVIDED THE ELECTRICAL CIRCUITS WILL BE SEPARATELY FUSED WITH **CLASS "G" FUSES**. IF FUSES MUST BE REPLACED **REPLACE WITH THE SAME TYPE AND AMPERAGE FUSE**.

HOW TO CLEAN STAINLESS STEEL

THE FOLLOWING INFORMATION WAS TAKEN FROM A PAMPHLET BY MR. RICHARD E. PARET, STAINLESS STEEL SPECIALIST. AMERICAN IRON AND STEEL INSTITUTE.

STAINLESS STEEL IS ONE OF THE EASIEST MATERIALS TO CLEAN AND KEEP CLEAN.

THE REASONS FOR STAINLESS STEEL'S EASE OF CLEANING ARE EASY TO SEE; THEY LIE IN THE NATURE OF THE METAL ITSELF.

1. IT'S HARD, TOUGH SURFACE. STAINLESS STEEL WILL WORK HARDER, THAT IS, THE MORE IT IS USED, THE MORE RESISTANT TO WEAR IT BECOMES. STAINLESS STEEL WILL NOT DEVELOP ROUGH SPOTS THAT HARBOR BACTERIA AND SOIL.
2. HIGH CORROSIVE RESISTANCE. STAINLESS STEEL IS PRACTICALLY UNTOUCHED BY THE CORROSIVE ATTACKS OF MOISTURE, DETERGENTS, FOOD ACIDS, BLOOD, SALTS AND OTHER CORRODENTS CONNECTED WITH FOOD. THIS MEANS THAT STAINLESS STEEL ALWAYS HAS A BRIGHT SURFACE FREE FROM OXIDES THAT CAN AFFECT THE FLAVOR OF FOODS.

THE SECRET OF MAINTAINING STAINLESS STEEL IS FREQUENT, SCHEDULED CLEANING THAT WILL PREVENT BUILD UP OF SURFACE DEPOSITS. SURFACE DEPOSITS, IF ALLOWED TO REMAIN FOR LONG PERIODS OF TIME CAN HARM STAINLESS STEEL. STAINLESS STEEL THRIVES ON EXPOSURE TO AIR; UNDER CERTAIN CONDITIONS, THE LENGTHY DEPRIVATION OF OXYGEN BY HEAVY SOIL DEPOSITS CAN CAUSE LOCALIZED PITTING OR STAINING.

NEGLECTING THE MATERIAL IN THIS MANNER IS **DEFINITE ABUSE** WHICH EVEN STAINLESS STEEL IS NOT IMMUNE.

TWO BASIC RULES:

1. CLEAN FREQUENTLY, AND ON A FIXED SCHEDULE.
2. SELECT THE SIMPLEST METHOD.

TO REMOVE ORDINARY DIRT AND FOOD RESIDUE FROM STAINLESS STEEL EQUIPMENT THAT OPERATES AT LOW TEMPERATURES, USE ORDINARY SOAP AND WATER AND APPLY WITH A SPONGE, FIBER BRUSH OR CLOTH. TO HASTEN ACTION, ADD EITHER SODA ASH, BAKING SODA, BORAX OR ANY OF SEVERAL NON-ABRASIVE COMMERCIAL CLEANSING AGENTS.

TO REMOVE SPLATTER OR CONDENSED VAPOR WHICH HAVE "BAKED" ONTO THE EQUIPMENT, THE TREATMENT OUTLINED ABOVE IS OFTEN SUFFICIENT. IN OTHER CASES A GENTLE TO VIGOROUS POLISHING ACTION MAY BE NECESSARY.

FIRST TRY A PASTE MADE WITH WATER AND AMMONIA AS THE LIQUID AND EITHER MAGNESIUM OXIDE, FINELY POWDER PUMICE OR FRENCH CHALK AS THE SOLID. YOU CAN ALSO USE ONE OF SEVERAL COMMERCIAL CLEANERS LISTED IN THE FOLLOWING TABLE.

RUB AS GENTLY AS POSSIBLE IN THE DIRECTION OF THE POLISHING MARKS ON THE STEEL, USING A SOFT CLOTH. FOR MORE RESISTANT DEPOSITS, USE A STAINLESS STEEL SCOURING SPONGE OR STAINLESS STEEL WOOL OF THE FINEST POSSIBLE TEXTURE.

WHAT NOT TO DO:

DO NOT USE COMMON STEEL WOOL, SCOURING PADS, SCRAPERS, WIRE BRUSHES, FILES OR OTHER STEEL TOOLS, SINCE THESE CAN MAR THE STAINLESS STEEL. THESE PARTICLES WILL EVENTUALLY RUST AND STAIN THE SURFACE, AND YOU MAY HAVE TO REFINISH IT.

HOW TO CLEAN STAINLESS STEEL (CONT.)

SLIGHTLY DARKENED AREAS SOMETIMES APPEAR ON STAINLESS STEEL SURFACES WHERE HEAT HAS BEEN APPLIED DURING FABRICATION OR IN SERVICE.

THESE ARE CAUSED BY THICKENING OF THE PROTECTIVE SURFACE OF STAINLESS STEEL, AND ARE NOT HARMFUL. REMOVAL CALLS FOR ENERGETIC SCOURING, AGAIN USING A STAINLESS STEEL WOOL OR SCOURING PAD, COMBINED WITH A SCOURING POWDER OR ONE OF THE HEAT-TINT REMOVERS LISTED IN THE TABLE.

THREE RULES WILL PREVENT HEAT TINTING:

- 1) USE ONLY ENOUGH HEAT TO DO THE JOB EFFICIENTLY.
- 2) DO NOT APPLY HEAT TO EMPTY EQUIPMENT.
- 3) AVOID CONCENTRATING HEAT ON A SMALL AREA.

CAUTION IS ADVISED

IN STERILIZING STAINLESS STEEL EQUIPMENT, PAY PARTICULAR ATTENTION TO AGENTS CONTAINING CHLORINE COMPOUNDS SUCH AS POTASSIUM HYPOCHLORITE. THESE COMPOUNDS MAY BREAK DOWN AND RELEASE FREE CHLORINE, OR HYDROLYZE TO FORM HYDROCHLORIC ACID.

STAINLESS STEEL RESISTS ATTACK BY SUCH COMPOUNDS FOR UP TO TWO HOURS. SEVERE LOCALIZED PITTING MAY OCCUR FROM LONGER EXPOSURE. FOR SAFE USE OF THESE AGENTS, KEEP CONTACT TIME SHORT, FLUSH THOROUGHLY WITH WATER, AND OPERATE EQUIPMENT NORMALLY BETWEEN APPLICATIONS. USING THESE PRECAUTIONS, THE STERILIZATION PROCESS CAN BE REPEATED ANY NUMBER OF TIMES.

Cleaners and their effect on
stainless steel

<u>Cleaning agent</u>	<u>Method of Application</u>	<u>Effect on finish</u>
1. Tightly adhering deposits of "baked on" spatter, oil, grease, weather stain, dyes or other light discoloration may be removed with any of the following cleaners.		
Grade FFF Italian pumice whiting or bon ami	scour or rub with damp cloth	satisfactory for all finishes use light pressure on no.7
Liquid NuSteel	scour with small amount on dry cloth	satisfactory for all finishes if rubbing pressure is light
Paste NuSteel or Temp	scour with small amount on dry cloth	satisfactory for no. 4 finish. Will scratch no.7
House hold cleaners such as Old Dutch, Sunbrite, Wyandotte, Bob-O, Gold Dust and Sapolio	Rub with damp cloth	Will scratch no. 4 finish slightly
Grade F Italian Pumice	Rub with damp cloth	Will scratch no.4 finish slightly
Cooper's stainless steel polish	Rub with damp cloth	Satisfactory for no.4 finish
Allen stainless steel polish	Rub with damp cloth	Scratches considerably but leaves mirror reflection
Best Effect Chemical Co. cleaner & Passivator	Rub with damp cloth	May scratch no.4 finish slightly
2. Heat tint or heavy discoloration with the following (see notes below)		
Allen stainless polish Birdsall's "Staybright"	Small amount on damp cloth Rub with damp cloth	Excellent heat tint remover Very good for heat tint removal. Does not scratch no.4 finish but does scratch no.7 finish
Wyandotte or Bob-O	Rub with damp cloth	Good for heat tint removal
Oxalic acid or 5-15% nitric acid	Swab or immerse Always follow with a 5% sodium carbonate or neutralizer rinse	Good discoloration remover
Best Effect Chemical Co. Cleaner & Passivator	Rub with damp cloth	May scratch no 4 finish but leaves clean surface

CLEANERS AND THEIR EFFECT ON
STAINLESS STEEL
(Cont.)

<u>Cleaning agent</u>	<u>Method of Application</u>	<u>Effect on Finish</u>
3. The following detergents and solvents are excellent removers of grease, oil and fatty acids, where swabbing or rubbing is not practical.		
4 to 6% solution of (sodium Metasilicate) (Trisodium Phosphate) (Sodium Metaphosphate) (Sodium Pyrophosphate)		All excellent removers of grease, oil, and milkstone
5-15% caustic soda (hot or cold)		Will remove grease and milkstone
4. The following organic solvents may be used for removing oils and grease deposits:		
Carbon-tetrachloride, Naphtha, Trichlorethylene Acetone, Kerosene, Gasoline, Ether, Alcohol, Benzene		No affect on finish However, take all precautions against fire.

Notes: ordinary wool or steel brushes should never be used on stainless steel surfaces. Particles of steel may become imbedded in the stainless steel surface, and rusting of these particles will eventually appear as stains. Use stainless steel wool or sponge on stainless steel equipment. Heat tint removers will usually scratch stainless steel surfaces. This, however, is necessary in removing heat tint by hand. Oakite, a fibrous material, may be used in place of metal sponges or cloth pads for applying cleaners and polishes. This material is effective in aiding in removal of milkstone.

For heavy hard water deposits, 15-20% (by volume) nitric acid is very effective. Acid treatment should be followed by a thorough water rinse.

The action of soldering fluxes should be neutralized immediately with a 5% sodium carbonate solution.

Soap and water followed by a water rinse will not harm stainless steel.

Preventative Maintenance of COLORPOINT
Equipment

To insure that your equipment will continue to operate properly, please follow these simple steps:

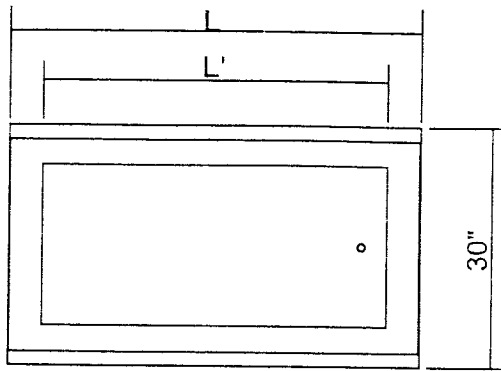
- #1 Make sure that the FILTER in the louvered panel is always kept clean of dust and dirt. Failure to do this will cause compressor to overheat and may cause compressor failure, and will also VOID ANY FACTORY WARRANTY on compressor.
- #2 MODELS CTAM, CTAL, CTAD AND CPM-FD. To insure proper operation of these units, periodically check the evaporator unit coolers to ensure that the air intakes and the discharge areas are kept clean and clear. If the air fan intakes or discharge become blocked with wrappings or debris this will cause the coils located inside the unit coolers to freeze and the temperature in the unit will rise.
- #3 MODELS CTAL AND CTAD. To insure proper operation the defrost timers must be set properly. The factory recommends three (3) twenty (20) minute defrost cycles. These should be set for low peak periods. During defrost cycle the temperature indicating device will rise above the freezing point. This is normal for this system. The product temperature will not be adversely affected because this system will recover to the proper operational temperature within 15 to 30 minutes. Note: the system is provided with a two indicator lights. The Green indicator shows that power switch to the system is on. The Red indicator shows that the system is in defrost. Make sure that the system has If these defrost cycles are not set properly this unit will not perform properly. An additional defrost cycle may be required if you are in a HIGH humidity environment.
- #4 MODELS CFM, CFT ,CFMA and CFMX. Factory recommends that these units be defrosted at least once a day. Also, refer to step #1.
- #5 MODEL CPT-R. Refer to steps #1, and step #4
- #6 MODELS CFMA. When cleaning these units is important to remove the power to the circulation fan and remove it from the unit. If the fan unit becomes wet, dry the fan assembly before applying power.

For more cleaning information on these models, see the section on "CLEANING" in this manual.

COLORPOINT

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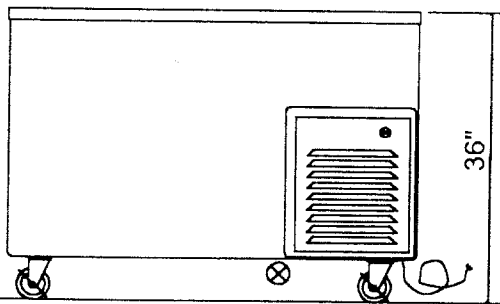
BY LOW TEMP INDUSTRIES
JONESBORO, GEORGIA



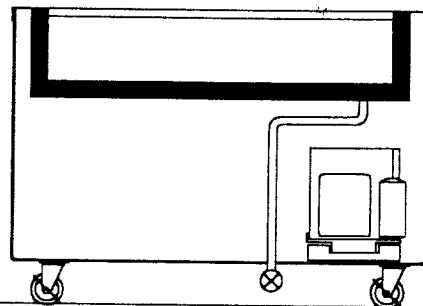
TOP VIEW

BY LOW TEMP INDUSTRIES
CFM SERIES COLD FOOD TABLE

THIS DESIGN MAINTAINS ITS COMPARTMENT TEMPERATURE BY THE USE OF A STATIC COLD WALL REFRIGERATION SYSTEM. REFRIGERATION TUBING IS ATTACHED TO THE OUTSIDE OF THE COLD PAN. THE REFRIGERATION EFFECT IS TRANSFERRED THROUGH THE PAN INTO THE PRODUCT AREA.



SIDE VIEW



SECTIONAL VIEW

MODEL	L	L'	H.P.	VOLTS	AMPS	NEMA PLUG TYPE	SHIPPING WT
36-CFM-EB	36"	25-7/8"	1/4	120	6.7	5-15P	355
50-CFM-EB	50"	39-3/4"	1/4	120	6.7	5-15P	430
60-CFM-EB	60"	53-5/8"	1/4	120	6.7	5-15P	505
66-CFM-EB	66"	53-5/8"	1/4	120	6.7	5-15P	535
74-CFM-EB	74"	67-5/8"	1/4	120	6.7	5-15P	580
96-CFM-EB	96"	81-1/8"	1/3	120	7.1	5-15P	655

TOP: 14 GAUGE STAINLESS STEEL WITH SQUARE TURN DOWNS ON ALL SIDES AND CORNERS FULLY WELDED AND GROUND AND POLISHED TO A #4 SATIN FINISH WITH ALL EDGES HAVING A #7 HI-LITE FINISH.

BODY: SEAMLESS MOLDED FIBERGLASS (F.R.P.) WITH SMOOTH EXTERIOR SURFACE AND ROUNDED CORNERS. ALL FIBERGLASS TO BE FLAME RETARDANT PER SPECIFICATIONS ASTM-E-162 HAVING A FLAME SPREAD OF 25 OR LESS.

MECHANICALLY COOLED COLD PAN: TO BE A WATERTIGHT INTERIOR LINER OF STAINLESS STEEL 6" DEEP. TO BE REFRIGERATED BY 1/2" COPPER COILS ATTACHED TO THE BOTTOM SIDE OF THE INTERIOR PAN. THE PAN IS FULLY INSULATED WITH URETHANE INSULATION AND THE TOP SHALL BE SEPARATED FROM THE PAN BY A FULL PERIMETER BREAKER STRIP. THE COLD PAN SHALL HAVE A 1" OPEN BRASS DRAIN WITH EXTENSION TO SHUT OFF VALVE BELOW BODY.

COMPRESSOR COMPARTMENT: SHALL HAVE TWO (2) STAINLESS STEEL EXTERIOR FRAMES COMPLETE WITH REMOVABLE LOUVERS TO PROVIDE A POSITIVE CROSS VENTILATION IN THE COMPARTMENT.

CONDENSING UNIT: FULLY HERMETIC TYPE R-22 SYSTEM. COMPLETELY PRE PIPED WITH ALL NECESSARY CONTROLS FOR PROPER OPERATION. FACTORY TESTED AND MADE READY TO PLUG IN ON JOB SITE. THE CONDENSER (INTAKE SIDE) OF THE CONDENSING UNIT IS PROVIDED WITH A FILTER MEDIA TO HELP PROTECT THE CONDENSER FINS FROM BECOMING CLOGGED.

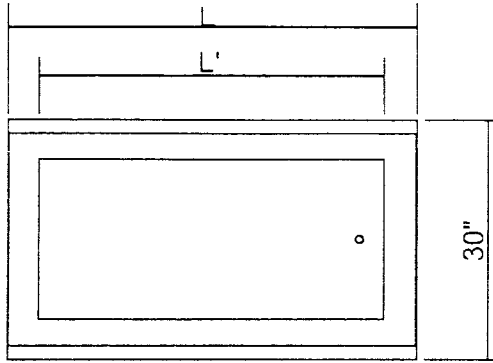
CASTERS: 4" DIAMETER BALL BEARING, SWIVEL TYPE. NON MARKING WITH BRAKES ON ALL WHEELS. CASTERS TO BE MOUNTED WITH INTERNAL AND EXTERNAL BRACING FOR MAXIMUM STRESS RELIEF

APPROVALS: THIS UNIT IS LISTED BY UNDERWRITERS LABORATORIES FOR SAFETY AND CLASSIFIED BY UNDERWRITERS LABORATORIES BY SANITATION UNDER NSF STD.2 AND SHALL BEAR BOTH SEALS.

COLORPOINT

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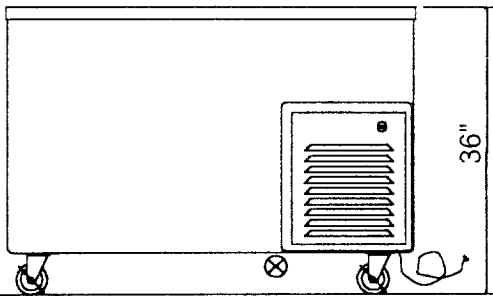
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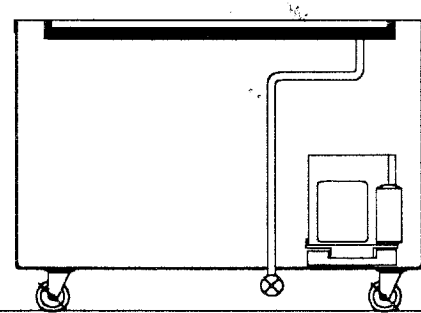
TOP VIEW

BY LOW TEMP INDUSTRIES
CFTSERIES FROST TOP TABLE

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SIDE VIEW



SECTIONAL VIEW

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66-CFT-EB	66"	53-5/8"	1/4	120	6.7	5-15P	535
74-CFT-EB	74"	67-5/8"	1/4	120	6.7	5-15P	580
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TOP: 14 GAUGE STAINLESS STEEL WITH SQUARE TURN DOWNS ON ALL SIDES AND CORNERS FULLY WELDED AND GROUND AND POLISHED TO A #4 SATIN FINISH WITH ALL EDGES HAVING A #7 HI-LITE FINISH.

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MECHANICALLY COOLED FROST TOP: TO BE A WATERTIGHT INTERIOR LINER OF STAINLESS STEEL 5/8" DEEP. TO BE REFRIGERATED BY 1/2" COPPER COILS ATTACHED TO THE BOTTOM SIDE OF THE INTERIOR PAN. THE PAN IS FULLY INSULATED WITH URETHANE INSULATION AND THE TOP SHALL BE SEPARATED FROM THE PAN BY A FULL PERIMETER BREAKER STRIP. THE COLD PAN SHALL HAVE A 1" OPEN BRASS DRAIN WITH EXTENSION TO SHUT OFF VALVE BELOW BODY.

COMPRESSOR COMPARTMENT: SHALL HAVE TWO (2) STAINLESS STEEL EXTERIOR FRAMES COMPLETE WITH REMOVABLE LOUVERS TO PROVIDE A POSITIVE CROSS VENTILATION IN THE COMPARTMENT.

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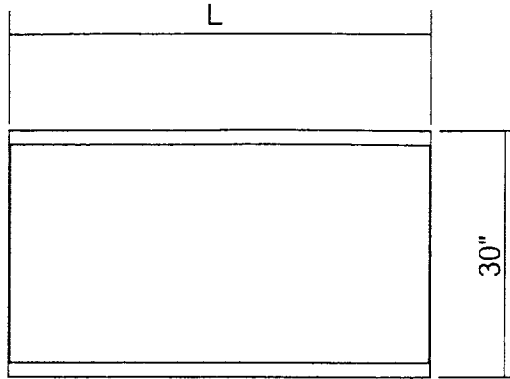
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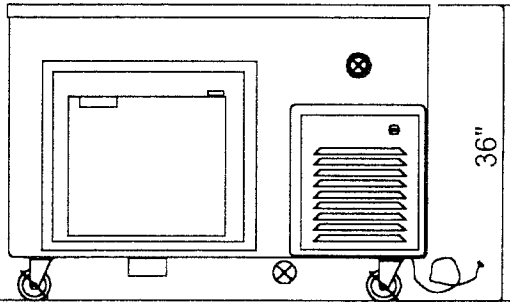
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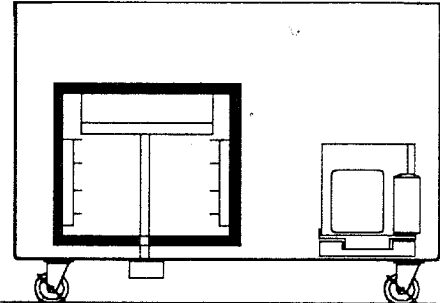
BY LOW TEMP INDUSTRIES
JONESBORO, GEORGIA



TOP VIEW



SIDE VIEW



SECTIONAL VIEW

MODEL	L	H.P.	VOLTS	AMPS	NEMA PLUG TYPE	NO. OF DOORS	STORAGE CAP. 12x20x2 1/2" DEEP FOOD PANS	SHIPPING WT
36-ST-R	36"	1/4	120	10.5	5-15P	1	5	355
50-ST-R	50"	1/4	120	10.5	5-15P	2	10	430
60-ST-R	60"	1/4	120	10.5	5-15P	2	10	505
66-ST-R	66"	1/4	120	10.5	5-15P	2	10	535
74-ST-R	74"	1/4	120	10.5	5-15P	2	10	580
96-ST-R	96"	1/4	120	10.5	5-15P	2	10	655

TOP: 14 GAUGE STAINLESS STEEL WITH SQUARE TURN DOWNS ON ALL SIDES AND CORNERS FULLY WELDED AND GROUND AND POLISHED TO A #4 SATIN FINISH WITH ALL EDGES HAVING A #7 HI-LITE FINISH.

BODY: SEAMLESS MOLDED FIBERGLASS (F.R.P.) WITH SMOOTH EXTERIOR SURFACE AND ROUNDED CORNERS. ALL FIBERGLASS TO BE FLAME RETARDANT PER SPECIFICATIONS ASTM-E-162 HAVING A FLAME SPREAD OF 25 OR LESS.

PRODUCT COMPARTMENT: TO BE A WATER TIGHT INTERIOR LINER OF STAINLESS STEEL WITH FULL PERIMETER BREAKER STRIP AT THE TOP. AN INTERIOR BOX TEMPERATURE SHALL BE MAINTAINED BY A FORCED AIR, FIN AND TUBE EVAPORATOR SYSTEM WITH AN ACCESSIBLE EXPANSION VALVE AND CAPABLE OF HOLDING A PRODUCT TEMPERATURE OF 36 DEGREES F. DEFOST MELT WATER SHALL BE PLUMBED TO A CONDENSATE EVAPORATOR ATTACHED TO THE UNDERSIDE OF THE COUNTER

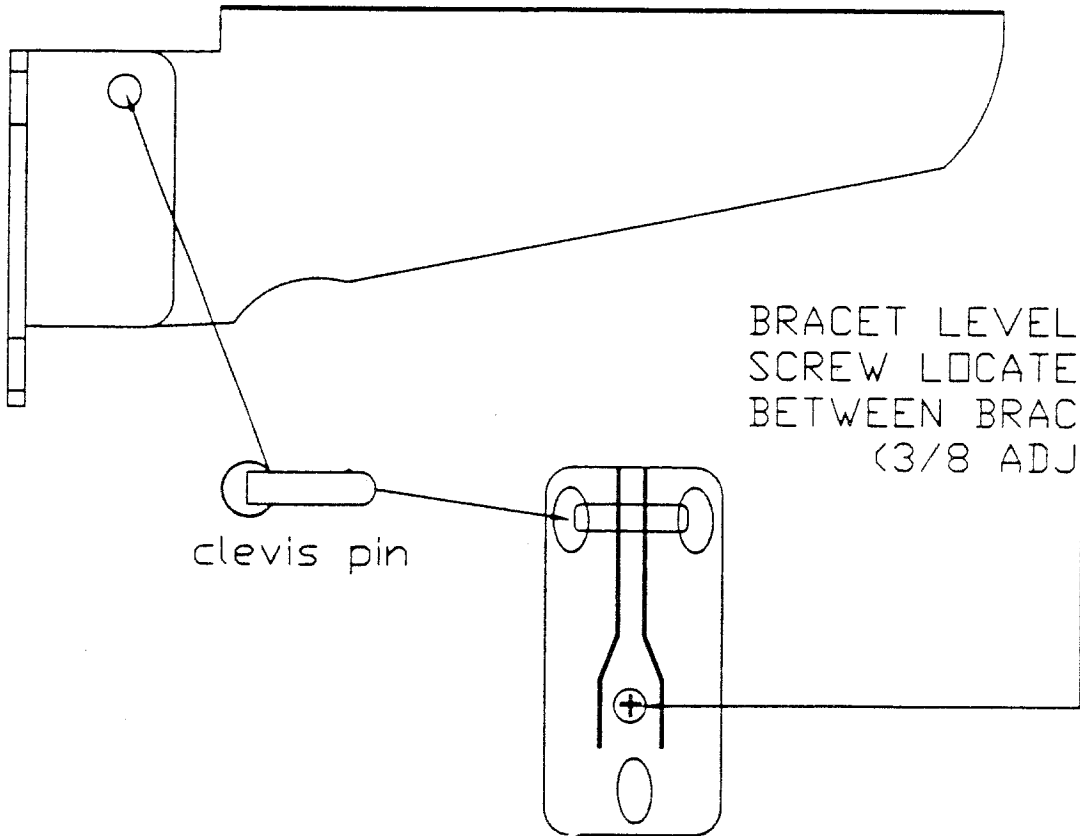
COMPRESSOR COMPARTMENT: SHALL HAVE TWO (2) STAINLESS STEEL EXTERIOR FRAMES COMPLETE WITH REMOVABLE LOUVERS TO PROVIDE A POSITIVE CROSS VENTILATION IN THE COMPARTMENT. AN ADDITIONAL AXIAL EXHAUST FAN SHALL BE PROVIDED ON THE DISCHARGE SIDE OF THE COMPARTMENT TO PROVIDE ADDITIONAL VENTILATION.

CONDENSING UNIT: FULLY HERMETIC TYPE R-22 SYSTEM. COMPLETELY PRE PIPED WITH ALL NECESSARY CONTROLS FOR PROPER OPERATION. FACTORY TESTED AND MADE READY TO PLUG IN ON JOB SITE. THE CONDENSER (INTAKE SIDE) OF THE CONDENSING UNIT IS PROVIDED WITH A FILTER MEDIA TO HELP PROTECT THE CONDENSER FINS FROM BECOMING CLOGGED.

CASTERS: 4" DIAMETER BALL BEARING, SWIVEL TYPE, NON MARKING WITH BRAKES ON ALL WHEELS. CASTERS TO BE MOUNTED WITH INTERNAL AND EXTERNAL BRACING FOR MAXIMUM STRESS RELIEF.

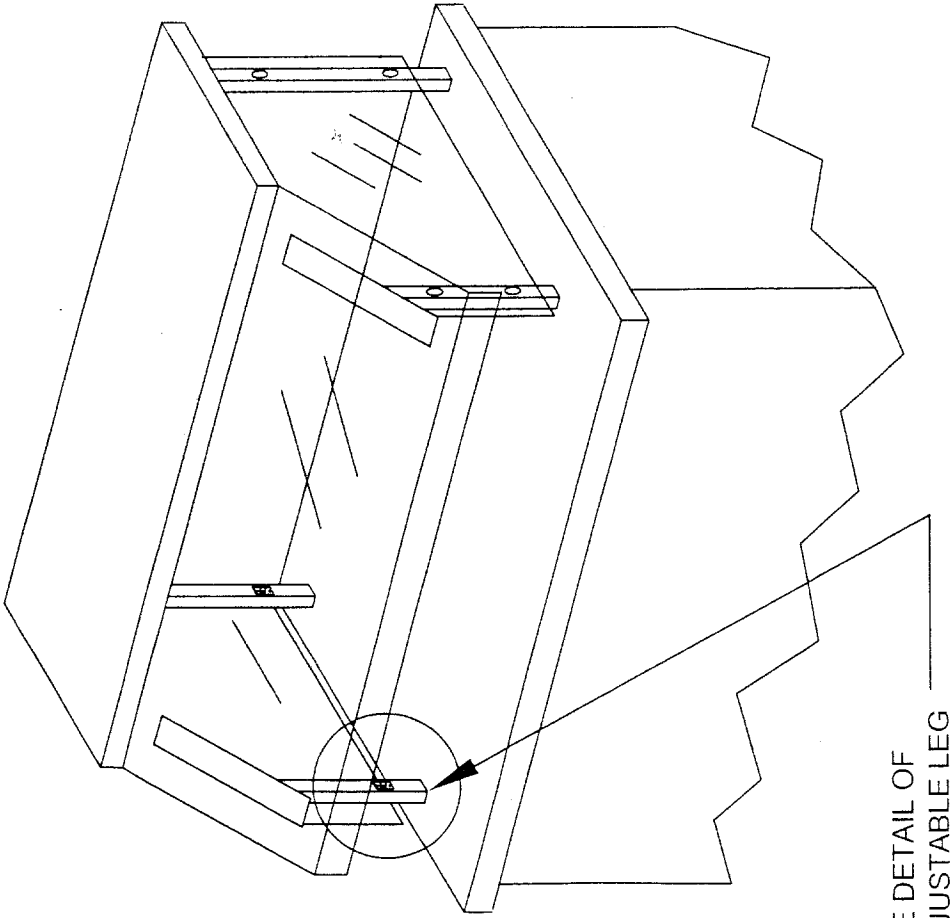
APPROVALS: THIS UNIT IS LISTED BY UNDERWRITERS LABORATORIES FOR SAFETY AND CLASSIFIED BY UNDERWRITERS LABORATORIES BY SANITATION UNDER NSF STD.7 AND SHALL BEAR BOTH SEALS.

LOW TEMP INDUSTRIES
TYPICAL FOLD DOWN BRACKET
USED FOR BOTH TRAY SLIDES
AND CUTTING BOARDS

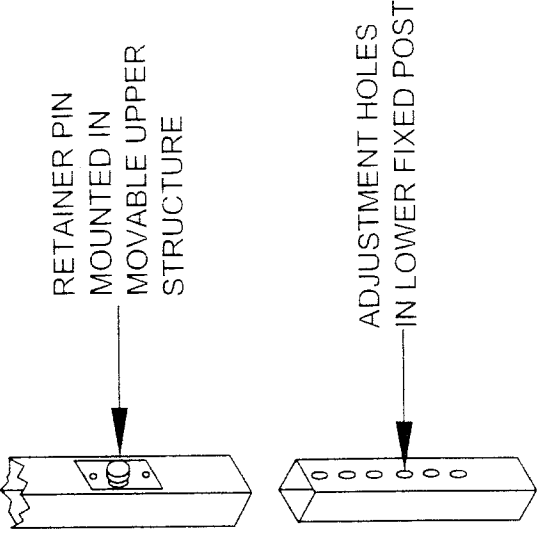


BRACET LEVEL ADJUSTMENT
SCREW LOCATED ON HEAL PLATE
BETWEEN BRACKET SUPPORTS.
(3/8 ADJUSTMENT)

clevis pin



SEE DETAIL OF
ADJUSTABLE LEG



ADJUSTABLE LEG DETAIL

ADJUSTABLE BUFFET SHIELD INSTRUCTIONS

THIS UNIT IS PROVIDED WITH AN ADJUSTABLE BUFFET SHIELD. THE TOTAL ADJUSTMENT IS SIX (6) INCHES FROM ITS LOWEST POSITION IN ONE (1) INCH INCREMENTS.

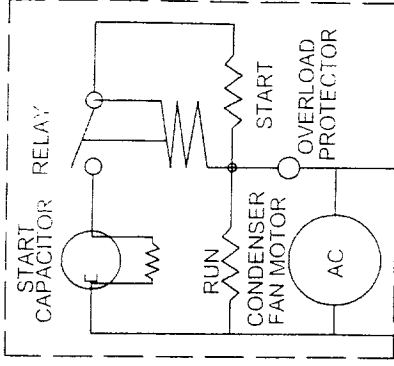
TO ADJUST THE SHIELD PULL THE RETAINER PIN LOCATED ON EACH POST OUT. THE PIN WILL REMAIN IN THE OUT POSITION BY ROTATING IT ONE QUARTER (1/4) TURN. RAISE THE SHIELD TO THE DESIRED HEIGHT AND TURN RETAINER BACK TO ITS ORIGINAL POSITION.

NOTE! WHEN RAISING THE SHIELD BOTH ENDS MUST BE LIFTED AT THE SAME TIME. DO NOT FORCE THE POST OR PUT THE SYSTEM IN A BIND.

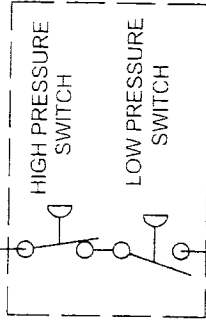
IF ELECTRICAL DEVICES ARE PROVIDED ON THE SHIELD, LOOSEN THE LOCKING COLLAR ON THE WIRE CHASE POST WHICH IS LOCATED BETWEEN THE MAIN SUPPORT POST AND SET IT FLUSH WITH THE COUNTER TOP.

ADJUSTABLE BUFFET FOOD PROTECTOR

CONDENSING UNIT



PRESSURE CONTROL



MASTER SWITCH

N L1

120V/1PH SERVICE REQUIRED

LOW TEMP INDUSTRIES INC.
JONESBORO, GA

WIRING DIAGRAM FOR
SINGLE COLD WALL

DATE: 2-28-95

DRAWING NO.
LT-ENG-WD-001

EVAPORATOR

EXP VALVE

FILTER SIGHT GLASS

PRESSURE CONTROL

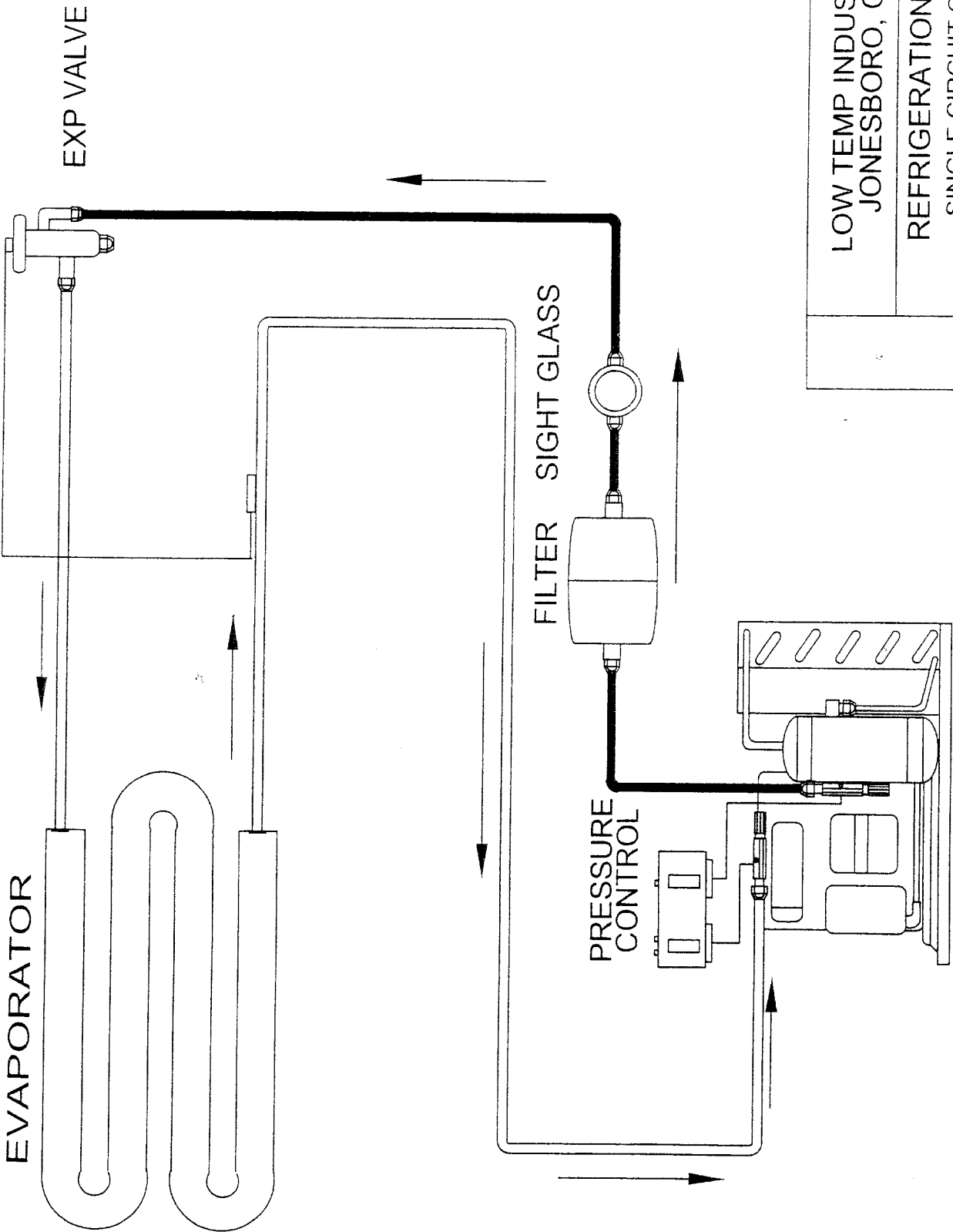
CONDENSING UNIT

LOW TEMP INDUSTRIES INC.
JONESBORO, GEORGIA

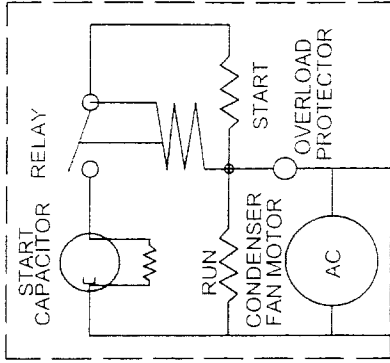
REFRIGERATION DIAGRAM
SINGLE CIRCUIT COLD WALL

DATE: 4-26-95

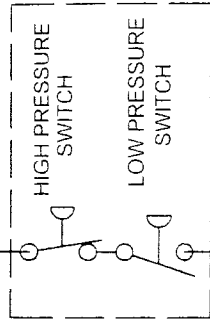
DRAWING NO.
LT-ENG-PD-001



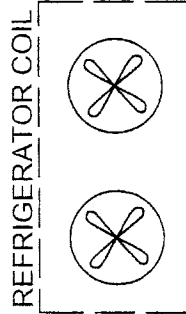
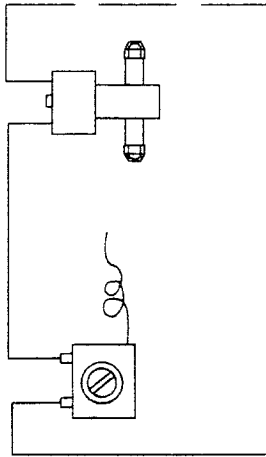
CONDENSING UNIT



PRESSURE CONTROL



THERMOSTAT LIQUID LINE SOLENOID



MASTER SWITCH

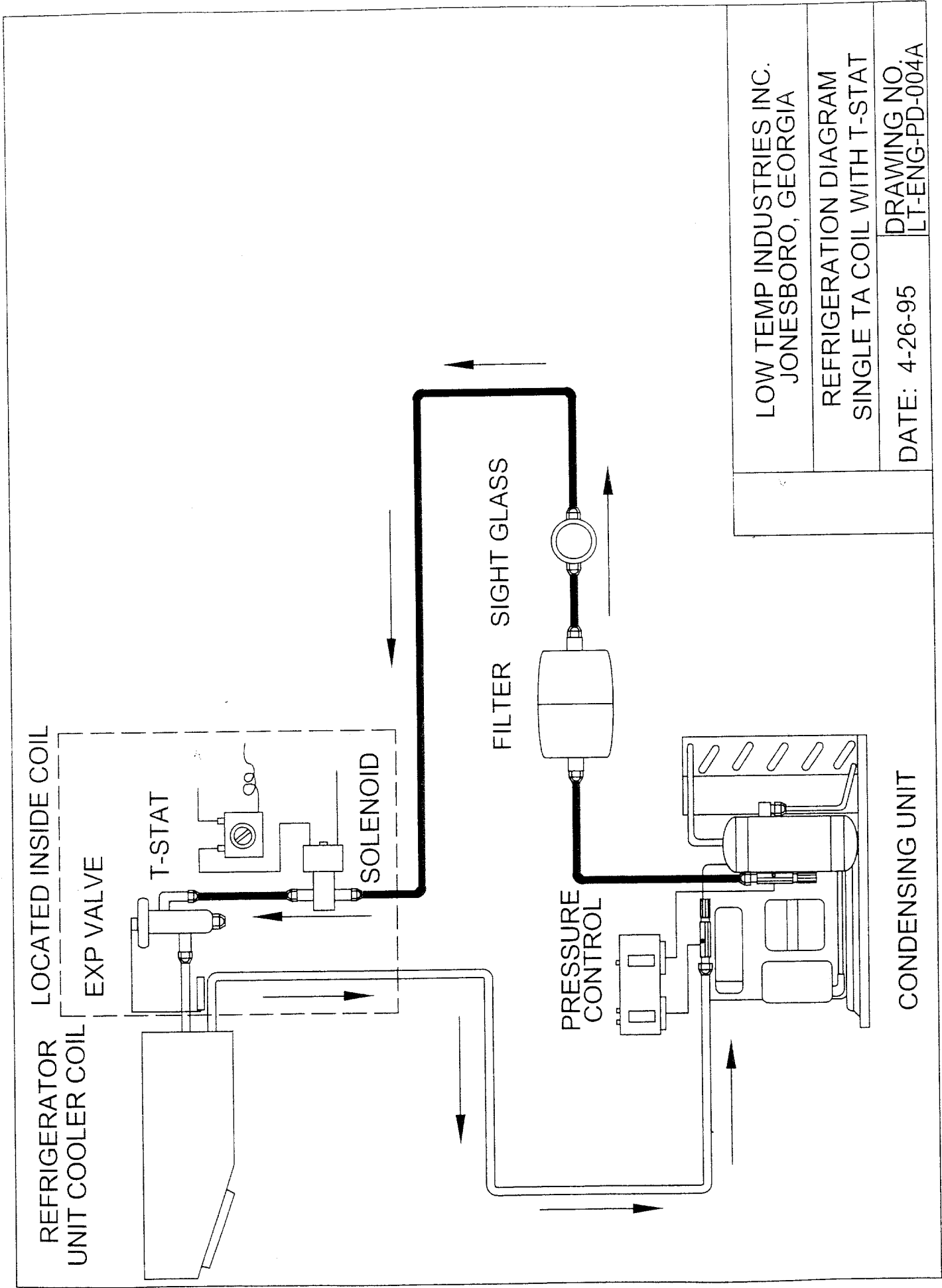
N L1
 120V/1PH SERVICE REQUIRED

LOW TEMP INDUSTRIES INC.
 JONESBORO, GA

WIRING DIAGRAM FOR SELF CONTAINED
 CONDENSING UNIT
 SINGLE MEDIUM TEMP EVAPORATOR W/ T-STAT

DATE: 4-25-95

DRAWING NO.
 LT-ENG-WD-005A



LOW TEMP INDUSTRIES INC.
 JONESBORO, GEORGIA

REFRIGERATION DIAGRAM
 SINGLE TA COIL WITH T-STAT

DATE: 4-26-95

DRAWING NO.
 LT-ENG-PD-004A

**REPLACEMENT PARTS LIST
MODEL CFM, CFT AND ST-R
(THIS SYSTEM USES R-22 REFRIGERANT)**

ITEM NO.	DESCRIPTION	STOCK NO.	MFG. NO.	MANUFACTURER
1	CONDENSING UNIT	311931	MCFH-0027-IAA	COPELAND
1A	CONDENSING UNIT	311932	MCFH-0036-IAA	COPELAND
2	PRESSURE CONTROL	280610	012-4834-000	RANCO
3	FILTER / DRIER	282300	C-052-T-HHS	SPORLAN
4	SIGHT GLASS	282400	SA-12S	SPORLAN
5	EXPANSION VALVE	282570	SQ-0(1/3T)VC-5'	SPORLAN
6	TOGGLE SWITCH	335900	90-0001	McGILL
7	CASTERS	130810	2-4056-43	JARVIS AND JARVIS
8	AXIAL FAN	312400	028021	COMAIR- ROTRON

COMPONENTS WITH REFRIGERATED BASE

9	UNIT COOLER	312220	TA-0100C	BOHN
10	THERMOMETER	500031	65356X	CLIFTON
11	THERMOSTAT	280820	K12L-1548	RANCO
12	EXPANSION VALVE	282570	SQ-O(1/3T)VC-5'	SPORLAN
13	ANTI-CONDENSATE	237900	T12-5000	COMPONENT HARDWARE
14	SOLENOID	281610	E35120 W/ MKC-1-120	SPORLAN
15	DOOR GASKET	493440	16" X 16"	JEANS
16	DOOR HINGE TOP L.H.	158110	1522 L00004	KASON
16A	DOOR HINGE BTM. L.H.	158120	1521 L00004	KASON
17	DOOR HINGE TOP R.H.	158130	1522 R00008	KASON
17A	DOOR HINGE BTM. R.H.	158140	1521 R00008	KASON

**REPLACEMENT PARTS LIST
MODEL CFM, CFT AND ST-R
(THIS SYSTEM USES R-22 REFRIGERANT)
(CONT)**

ADDITIONAL OPTIONS AVAILABLE

18	LIGHT SWITCH	335900	900-0001	McGILL
19	FLUORESCENT FIXTURE	360700	M15L	NULITE
20	FLUORESCENT BULB	358100	F15T8/CW	SYLVANIA
21	BULB SLEEVE & CAP	493500	18T12	TRU-TEST
22	FUSE HOLDER	358210	571027	LITTLE FUSE
23	STOCK 2A	513810	SLC-2 CLASS G	LITTLE FUSE
	FUSES 4A	513820	SLC-4 CLASS G	LITTLE FUSE
	5A	513830	SLC-5 CLASS G	LITTLE FUSE
	6A	513840	SLC-6 CLASS G	LITTLE FUSE
	8A	513850	SLC-8 CLASS G	LITTLE FUSE
	10A	513860	SLC-10 CLASS G	LITTLE FUSE
	15A	513870	SLC-15 CLASS G	LITTLE FUSE

NOTE! REPLACE WITH SAME TYPE AND AMPERAGE FUSE. CHECK YOUR UNIT FOR THE SPECIFIC FUSE USED.

**BASIC SYSTEM OPERATION
(REFRIGERATION SYSTEM)**

FOLLOWING SECTION IS DESIGNED TO GIVE A BASIC WORKING KNOWLEDGE OF OUR SYSTEM. IT SHOULD NOT BE USED AS A TRAINING MANUAL FOR NON QUALIFIED REFRIGERATION TECHNICIANS.

ALL COLORPOINT REFRIGERATED EQUIPMENT EMPLOY A COMPRESSION CYCLE SYSTEM. THERE ARE TWO PRESSURES WHICH EXIST IN A COMPRESSION SYSTEM; THE EVAPORATING OR LOW PRESSURE, AND THE CONDENSING OR HIGH PRESSURE.

THE REFRIGERANT WORKS AS A TRANSPORTATION MEDIUM TO MOVE HEAT FROM THE EVAPORATOR TO THE CONDENSER WHERE IT IS GIVEN OFF TO THE AMBIENT AIR. THE CHANGE OF STATE FROM LIQUID TO VAPOR AND BACK ALLOWS THE REFRIGERANT TO ABSORB AND DISCHARGE LARGE QUANTITIES OF HEAT EFFICIENTLY.

THE BASIC SYSTEM OPERATES AS FOLLOWS:

HIGH PRESSURE LIQUID REFRIGERANT IS FED FROM THE RECEIVER THROUGH THE LIQUID LINE AND THROUGH THE FILTER DRIER AND SIGHT GLASS TO THE EXPANSION VALVE WHICH WORKS AS A METERING DEVICE SEPARATING THE HIGH PRESSURE SIDE OF THE SYSTEM FROM THE LOW PRESSURE EVAPORATOR.

THE THERMOSTATIC EXPANSION VALVE CONTROLS THE FEED OF LIQUID REFRIGERANT TO THE EVAPORATOR, AND BY MEANS OF AN ORIFICE REDUCES THE PRESSURE OF THE REFRIGERANT TO THE EVAPORATING OR LOW PRESSURE SIDE.

THE REDUCTION OF PRESSURE ON THE LIQUID REFRIGERANT CAUSES IT TO BOIL OR VAPORIZE UNTIL THE REFRIGERANT IS AT THE SATURATED TEMPERATURE CORRESPONDING TO ITS PRESSURE. AS THE LOW TEMPERATURE REFRIGERANT PASSES THROUGH THE EVAPORATOR COIL, HEAT FLOWS THROUGH THE WALLS OF THE EVAPORATOR TUBING TO THE REFRIGERANT, CAUSING THE BOILING ACTION TO CONTINUE UNTIL THE REFRIGERANT IS COMPLETELY VAPORIZED.

**BASIC SYSTEM OPERATION
(REFRIGERATION SYSTEM)
(CONT)**

THE EXPANSION VALVE REGULATES THE FLOW THROUGH THE EVAPORATOR AS NECESSARY TO MAINTAIN A PRESET TEMPERATURE DIFFERENCE OR SUPER HEAT BETWEEN THE EVAPORATING REFRIGERANT AND VAPOR LEAVING THE EVAPORATOR. AS THE TEMPERATURE OF THE GAS LEAVING THE EVAPORATOR VARIES THE EXPANSION VALVE POWER ELEMENT BULB SENSES ITS TEMPERATURE, AND ACTS TO MODULATE THE FEED THROUGH THE EXPANSION VALVE AS REQUIRED.

THE REFRIGERANT VAPOR LEAVING THE EVAPORATOR TRAVELS THROUGH THE SUCTION LINE TO THE COMPRESSOR INLET. THE COMPRESSOR TAKES THE LOW PRESSURE VAPOR AND COMPRESSES IT, INCREASING BOTH THE PRESSURE AND THE TEMPERATURE. THE HOT, HIGH PRESSURE GAS IS FORCED OUT THE COMPRESSOR DISCHARGE VALVE AND INTO THE CONDENSER.

AS THE HIGH PRESSURE GAS PASSES THROUGH THE CONDENSER, IT IS COOLED BY A FAN BLOWING OVER A FIN-TYPE CONDENSER SURFACE. AS THE TEMPERATURE OF THE REFRIGERANT VAPOR REACHES THE SATURATION TEMPERATURE CORRESPONDING TO THE HIGH PRESSURE IN THE CONDENSER, THE VAPOR CONDENSES INTO A LIQUID AND FLOWS BACK INTO THE RECEIVER TO REPEAT THE CYCLE.

THE REFRIGERATION PROCESS IS CONTINUED AS LONG AS THE COMPRESSOR OPERATES. THE COMPRESSOR OPERATION IS CONTROLLED BY A LOW PRESSURE CONTROL. WHEN THE REFRIGERANT VAPOR ENTERING THE SUCTION SIDE OF THE COMPRESSOR REACHES A PRESET VALUE ON THE CONTROL, IT WILL OPEN A SET OF CONTACTS AND SHUT THE COMPRESSOR OFF. THE LOW PRESSURE IS SET BY A "CUT-IN" AND A "DIFFERENTIAL" SETTING. THE "CUT-IN" IS THE PRESSURE AT WHICH YOU WANT THE COMPRESSOR TO START. THIS PRESSURE CORRESPONDS TO THE TEMPERATURE OF THE EVAPORATOR SURFACE WHICH MUST BE MAINTAINED. NOTE THAT AS A RULE OF THUMB ALL COLORPOINT UNITS HAVE APPROXIMATELY A 10 DEGREE FAHRENHEIT TEMPERATURE DIFFERENCE. BETWEEN THE EVAPORATOR COILS AND THE WORKING SURFACE. SO THE PRESSURE CORRESPONDING TO THE "CUT-IN" SHOULD BE 10 DEGREES LESS THAN THE OPERATING TEMPERATURE OF THE REFRIGERATED SURFACE. TO CUT THE UNIT OFF THE "DIFFERENTIAL" SETTING IS USED. FIRST CHOOSE THE TEMPERATURE SETTING AT WHICH YOU WANT THE UNIT TO CUT OFF. THEN SUBTRACT FROM THE "CUT-IN" SETTING. THAT IS THE VALUE OF THE DIFFERENTIAL.

REFRIGERATION SERVICE CHART

<u>COMPLAINT</u>	<u>PROBLEM</u>	<u>SOLUTION</u>
A. COMPRESSOR WILL NOT START	<ol style="list-style-type: none"> 1. LINE DISCONNECT SWITCH OPEN 2. FUSE REMOVED OR BLOWN 3. CONTROL STUCK IN OPEN POSITION 4. CONTROL OFF DUE TO COLD LOCATION 	<ol style="list-style-type: none"> 1. CLOSE START OR DISCONNECT SWITCH 2. REPLACE FUSE 3. REPAIR OR REPLACE CONTROL 4. RELOCATE CONTROL
B. COMPRESSOR WILL NOT START, HUMS BUT TRIPS OVERLOAD PROTECTOR	<ol style="list-style-type: none"> 1. LOW VOLTAGE TO UNIT 2. STARTING CAPACITOR DEFECTIVE 3. RELAY FAILING TO CLOSE 4. COMPRESSOR MOTOR HAS A WINDING OPEN OR SHORTED 5. INTERNAL MECHANICAL TROUBLE IN COMPRESSOR 	<ol style="list-style-type: none"> 1. CALL POWER SUPPLIER 2. REPLACE CAPACITOR 3. REPLACE RELAY 4. REPLACE COMPRESSOR 5. REPLACE COMPRESSOR
C. COMPRESSOR STARTS BUT DOES NOT SWITCH OFF OF START WINDING	<ol style="list-style-type: none"> 1. LOW VOLTAGE TO UNIT 2. RELAY FAILING TO OPEN 3. RUN CAPACITOR DEFECTIVE 4. EXCESSIVELY HIGH DISCHARGE OVERCHARGE OR INSUFFICIENT 5. COMPRESSOR MOTOR HAS A WINDING OPEN OR SHORTED 6. INTERNAL MECHANICAL TROUBLE IN COMPRESSOR (TIGHT) 	<ol style="list-style-type: none"> 1. CALL POWER SUPPLIER 2. REPLACE RELAY 3. REPLACE CAPACITOR 4. CHECK DISCHARGE SHUT COOLING CONDENSER. 5. REPLACE COMPRESSOR 6. REPLACE COMPRESSOR
D. COMPRESSOR STARTS AND RUNS, BUT SHORT CYCLES ON OVERLOAD PROTECTOR	<ol style="list-style-type: none"> 1. LOW VOLTAGE TO UNIT 2. OVERLOAD PROTECTOR DEFECTIVE 3. RUN CAPACITOR DEFECTIVE 4. EXCESSIVE DISCHARGE PRESSURE 5. COMPRESSOR TOO HOT, RETURN GAS HOT 6. COMPRESSOR MOTOR HAS A WINDING SHORTED 	<ol style="list-style-type: none"> 1. CALL POWER SUPPLIER 2. CHECK CURRENT, REPLACE PROTECTOR 3. REPLACE CAPACITOR 4. CHECK VENTILATION, RESTRICTIONS IN COOLING MEDIUM, RESTRICTIONS IN REFRIGERANT SYSTEM 5. CHECK REFRIGERANT CHARGE (FIX LEAK IF NECESSARY) 6. REPLACE COMPRESSOR
E. UNITS RUNS OK, BUT SHORT CYCLES ON:	<ol style="list-style-type: none"> 1. OVERLOAD PROTECTOR 2. THERMOSTAT 3. HIGH PRESSURE CUT OUT DUE TO: <ol style="list-style-type: none"> A. INSUFFICIENT AIR B. OVERCHARGE C. AIR IN SYSTEM 4. LOW PRESSURE CUT-OUT DUE TO: 	<ol style="list-style-type: none"> 1. SEE D-2 ABOVE 2. DIFFERENTIAL SET TOO CLOSE. WIDEN <ol style="list-style-type: none"> 3A. CHECK AIR SUPPLY TO CONDENSER 3B. REDUCE REFRIGERANT CHARGE 3C. PURGE

**REFRIGERANT SERVICE CHART
(CONT.)**

<u>COMPLAINT</u>	<u>PROBLEM</u>	<u>SOLUTION</u>
	A. UNDERCHARGED	4A. FIX LEAK AND ADD REFRIGERANT
	B. EXPANSION VALVE OUT OF ADJUSTMENT.	4B. RE-ADJUST VALVE
	C. RESTRICTION IN EXPANSION VALVE.	4C. REPLACE VALVE
F. UNIT OPERATES LONG OR CONTINUOUSLY	1. SHORTAGE OF REFRIGERANT	1. FIX LEAK, ADD CHARGE
	2. CONTROL CONTACTS STUCK OR FROZEN CLOSED.	2. CLEAN CONTACTS, OR REPLACE CONTROL.
	3. REFRIGERANT OR AIR CONDITIONED SPACE HAS EXCESSIVE LOAD OR POOR INSULATION	3. DETERMINE FAULT AND CORRECT
	4. EVAPORATOR COIL ICED	4. DEFROST
	5. RESTRICTION IN REFRIGERANT SYSTEM	5. DETERMINE LOCATION AND REMOVE
	6. DIRTY CONDENSER	6. CLEAN CONDENSER
	7. FILTER DIRTY	7. CLEAN OR REPLACE
G. START CAPACITOR OPEN	1. RELAY CONTACTS NOT OPENING PROPERLY	1. CLEAN CONTACTS OR REPLACE IF NECESSARY
	2. PROLONGED OPERATION ON START CYCLE DUE TO: A. LOW VOLTAGE TO UNIT B. IMPROPER RELAY	2A. CALL POWER SUPPLIER 2B. REPLACE
	3. EXCESSIVE SHORT CYCLE	3. DETERMINE REASON FOR SHORT CYCLE (SEE E. AND CORRECT)
H. RUN CAPACITOR OPEN, SHORTED OR BLOWN	1. IMPROPER CAPACITOR	1. DETERMINE CORRECT SIZE AND REPLACE
	2. EXCESSIVELY HIGH LINE VOLTAGE (100% OF RATED-MAX)	2. CALL POWER SUPPLIER
I. SPACE TEMPERATURE TOO HIGH	1. CONTROL SETTING TOO HIGH	1. RESET (CONTROL)
	2. INADEQUATE AIR CIRCULATION	2. IMPROVE AIR MOVEMENT
J. SUCTION LINE FROSTED OR SWEATING	1. EXPANSION VALVE STUCK	1. CLEAN VALVE OF FOREIGN PARTICLES, REPLACE IF NECESSARY.
	2. EVAPORATOR FAN NOT RUNNING	2. DETERMINE REASON AND CORRECT
	3. OVERCHARGE OF REFRIGERANT	3. CORRECT CHARGE

ONE YEAR WARRANTY

ALL COLORPOINT FOOD SERVICE EQUIPMENT IS FULLY WARRANTED BY THE MANUFACTURER AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF PURCHASE BY THE ORIGINAL USER AND ONLY TO THE ORIGINAL PURCHASER PROVIDED IT IS INSTALLED AND OPERATED IN ACCORDANCE WITH THE INSTRUCTIONS SUPPLIED WITH THE UNIT. ALSO, IT MUST NOT BE MISUSED, ALTERED OR NEGLECTED AND USED ONLY ON CIRCUITS AND VOLTAGES REQUIRED FOR THAT UNIT.

OUR OBLIGATION UNDER THIS WARRANTY SHALL BE LIMITED TO ONE OF THE FOLLOWING PROCEDURES. SELECTION OF A PROCEDURE SHALL BE AT THE SOLE DISCRETION OF LOW TEMP INDUSTRIES INC.

LOW TEMP INDUSTRIES, INC. WARRANTY SERVICE DEPARTMENT MUST BE NOTIFIED PRIOR TO ANY SERVICE WORK OR COMPRESSOR REPLACEMENT FOR A WARRANTY AUTHORIZATION NUMBER. ANY REQUESTS FOR WARRANTY CLAIMS WITHOUT A WARRANTY AUTHORIZATION NUMBER, WILL NOT BE HONORED.

- A. REPLACEMENT OF DEFECTIVE PARTS, SHIPPED F.O.B. FACTORY, IN EXCHANGE FOR THE RETURNED DEFECTIVE PART, SHIPPED PREPAID FREIGHT.
- B. FREE REPLACEMENT OF DEFECTIVE PART, SHIPPED F.O.B. FACTORY.
- C. DEFECTIVE PART SHIPPED PREPAID FREIGHT TO FACTORY, REPAIRED AND RETURNED, SHIPPED F.O.B. . FACTORY.
- D. ALL LABOR COSTS SHALL BE COVERED FOR A PERIOD OF 1 YEAR FROM THE DATE OF PURCHASE.

LOW TEMP INDUSTRIES INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY FIRE, FLOOD, WINDSTORM, OR ANY OTHER ACT OF GOD; WAR, WHETHER DECLARED OR UNDECLARED NOR SHALL WE BE RESPONSIBLE FOR THE LOSS OF FOOD OR OTHER PRODUCTS DUE TO POWER OR MECHANICAL FAILURE. THIS WARRANTY SHALL NOT COVER ANY DAMAGE CAUSED DURING SHIPMENT WHICH SHOULD BE REPORTED TO THE DELIVERING CARRIER.

COLORPOINT FIBERGLASS FOOD SERVICE EQUIPMENT

A DIVISION OF LOW TEMP INDUSTRIES INC.
9192 TARA BOULEVARD
JONESBORO, GEORGIA 30236
(770) 478-8803

FIVE YEAR COMPRESSOR WARRANTY

ALL COLORPOINT MECHANICALLY REFRIGERATED EQUIPMENT CARRIES AN EXTENDED COMPRESSOR WARRANTY BY LOW TEMP INDUSTRIES, INC.

THIS EXTENDED WARRANTY BEGINS ON THE EXPIRATION DATE OF THE ONE (1) YEAR WARRANTY BY THE COMPRESSOR MANUFACTURER AND WARRANTS THE COMPRESSOR AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF FOUR (4) YEARS TO THE ORIGINAL USER AND ONLY TO THE ORIGINAL PURCHASER PROVIDED IT IS INSTALLED AND OPERATED IN ACCORDANCE WITH THE INSTRUCTIONS SUPPLIED WITH THE UNIT.

THIS WARRANTY COVERS ONLY THE COMPRESSOR AND DOES NOT INCLUDE ANY RETURN SHIPPING CHARGES, OTHER TRANSPORTATION CHARGES, ANY EXTERNAL PARTS OR ELECTRICAL COMPONENTS, LABOR, REFRIGERANTS OR TAXES.

WARRANTY SHALL BE VOID IF THE UNIT HAS BEEN MISUSED, ALTERED OR NEGLECTED. THE SERIAL NUMBER SHALL NOT BE REMOVED OR DEFACED, AND THE UNIT SHALL BE USED ONLY ON CIRCUITS AND VOLTAGES REQUIRED FOR THAT UNIT.

OUR OBLIGATION UNDER THIS EXTENDED WARRANTY SHALL BE LIMITED TO ONE OF THE FOLLOWING PROCEDURES:

A. REPLACEMENT OF DEFECTIVE COMPRESSOR, SHIPPED FREIGHT PREPAID, IN EXCHANGE FOR THE RETURNED DEFECTIVE COMPRESSOR, SHIPPED PREPAID FREIGHT.

B. REPLACEMENT OF DEFECTIVE COMPRESSOR AT A LOCAL REFRIGERATION SUPPLY HOUSE, IN EXCHANGE FOR THE DEFECTIVE COMPRESSOR.

NO REPLACEMENT OF COMPRESSOR(S) WILL BE AUTHORIZED UNDER EXTENDED WARRANTY WITHOUT ACCURATE VERIFICATION OF SERIAL NUMBER(S) OF DEFECTIVE COMPRESSOR(S).

LOW TEMP INDUSTRIES, INC. MUST BE NOTIFIED PRIOR TO COMPRESSOR REPLACEMENT FOR A WARRANTY AUTHORIZATION NUMBER. ANY REQUESTS FOR WARRANTY CLAIMS WITHOUT A WARRANTY AUTHORIZATION NUMBER, WILL NOT BE HONORED.

THIS EXTENDED WARRANTY DOES NOT COVER ANY DAMAGES CAUSED BY FIRE, FLOOD, WINDSTORM, OR ANY OTHER ACT OF GOD; WAR, WHETHER DECLARED OR UNDECLARED NOR SHALL BE RESPONSIBLE FOR THE LOSS OF FOOD OR OTHER PRODUCTS DUE TO POWER OR MECHANICAL FAILURE.

COLORPOINT FIBERGLASS FOOD SERVICE EQUIPMENT

A DIVISION OF LOW TEMP INDUSTRIES INC.
9192 TARA BOULEVARD
JONESBORO, GEORGIA 30236
(770) 478-8803