

REFRIGERATION SPECIFICATIONS

- 1. SCOPE
1.1 HEREAFTER IN THIS SPECIFICATION, THE WORD "MECHANICAL CONTRACTOR" SHALL REFER TO THE INSTALLING MECHANICAL OR REFRIGERATION CONTRACTOR AND "OWNER" SHALL REFER TO 7-ELEVEN...
2. CODE REQUIREMENTS
2.1 ALL PROPOSALS SHALL INCLUDE, AND WORK PERFORMED SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES...
3. GUARANTEE
3.1 MECHANICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND THE COMPLETE SYSTEM OPERATION WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL...

WALK-IN COOLER REFRIGERATION SYSTEM INSTALLATION

SPECIFICATION INTRODUCTION:
THE CONTRACTING FOR INSTALLATIONS OF WALK-IN REFRIGERATION EQUIPMENT WILL BE ACCOMPLISHED THE FIELD AT THE ZONE LEVEL. THESE SPECIFICATIONS ARE TO AID IN PREPARATION OF NATIONAL STANDARD CONTRACT DOCUMENTS.

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2. CODE REQUIREMENTS AND PERMITS
2.1 ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES...
2.2 OBTAIN, PAY FOR AND FURNISH ALL REFRIGERATION PERMITS REQUIRED BY LOCAL OR STATE ORDINANCES OR CODES...
2.3 NO EXTRAS SHALL BE ALLOWED DUE TO CONDITIONS WITH WHICH THE MECHANICAL CONTRACTOR SHOULD HAVE BEEN FAMILIAR...
3. GUARANTEE
3.1 MECHANICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND THE COMPLETE SYSTEM OPERATION WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL...
3.2 MECHANICAL CONTRACTOR SHALL FURNISH TO THE OWNER'S REPRESENTATIVE ALL CERTIFICATES OF FINAL INSPECTION AND APPROVAL FROM INSPECTION AUTHORITIES HAVING JURISDICTION...
4. MECHANICAL CONTRACTOR'S PROTECTION RESPONSIBILITIES
4.1 CHECK EACH PIECE OF REFRIGERATION EQUIPMENT FOR DAMAGES AND SHORTAGES...
4.1.1 OBTAIN INSPECTION REPORT AND DISPATCH FROM THE COMMON CARRIER AND NOTIFY OWNER OFFICE AND REFRIGERATION EQUIPMENT SUPPLIER IMMEDIATELY...
4.1.2 MAKE REPAIRS WHEN AUTHORIZED TO DO SO BY MANUFACTURER'S REPRESENTATIVE, REPLACING ANY MALFUNCTIONING PART(S) ON THE EQUIPMENT WITHOUT CHARGE TO THE OWNER...
5. EQUIPMENT
5.1 EVAPORATOR FAN COILS
THE MECHANICAL CONTRACTOR SHALL HANG THE EVAPORATOR COILS IN ACCORDANCE WITH THE PLAN. ALL MOUNTING HARDWARE, TO INCLUDE A BEARING SURFACE FOR THE HANGER RODS, SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. THE EVAPORATOR FAN COILS ARE IN NO CIRCUMSTANCE TO BE SUPPORTED BY THE WALK-IN COOLER PANELS ALONE...
5.2 APPROVED COOLER (VAULT) REFRIGERATION EQUIPMENT MANUFACTURERS AND MODEL NUMBERS (R448A)
5.2.1 HEATCRAFT/BOHN REMOTE CONDENSING UNITS INCLUDING (1) MEDIUM TEMP COMPRESSOR FOR VAULT COOLER, (1) LOW TEMP COMPRESSOR FOR VAULT ICE STORAGE, AND (1) LOW TEMP VAULT FREEZER STORAGE.

- 6. INSTALLATION REQUIREMENTS
6.1 REFRIGERANT PIPING
6.1.1 ALL SUCTION LINE PIPING SHALL BE SEALED REFRIGERANT GRADE, TYPE C, HARD DRAWN, THE LIQUID LINE PIPING SHALL BE SEALED REFRIGERANT GRADE, TYPE C, HARD DRAWN ON ALL MAIN RUNS...
6.1.2 ALL HORIZONTAL TUBING RUNS SHALL BE SLOPED TOWARD THE COMPRESSOR, AND/OR "P" TRAP 1 INCH PER 20 FEET...
6.1.3 ONLY SILVER BASE SOLDER (15% SILVER) SHALL BE USED FOR THIS INSTALLATION...
6.1.4 REFRIGERANT PIPING IN THE WALK-IN SHALL BE STRAPPED TO ASSURE PIPING SUPPORT...
6.2 REFRIGERANT LEAK TESTING
6.2.1 AFTER ALL REFRIGERANT TUBING IS CONNECTED, THE ENTIRE SYSTEM, INCLUDING THE CONDENSING UNIT, SHALL BE PRESSURIZED TO 150 PSIG WITH A MIXTURE OF APPROPRIATE AND DRY NITROGEN...
6.3 EVACUATION
6.3.1 THE COMPLETE SYSTEM SHALL BE EVACUATED WITH A VACUUM PUMP...
6.3.2 THE COMPLETE SYSTEM, TO INCLUDE THE CONDENSING UNIT, SHALL BE EVACUATED A MINIMUM OF THREE TIMES...
6.4 SUCTION LINE INSULATION
6.4.1 THE MAIN SUCTION LINE INSIDE THE COOLER (VAULT) TO INCLUDE THE "P" TRAP, THE VERTICAL SUCTION RISER, ALL ABOVE ROOF SUCTION PIPING SHALL BE INSULATED WITH 1/2" WALL ARMAFLEX OR EQUIVALENT...
6.5 CONDENSATE DRAIN LINES
6.5.1 CONDENSATE DRAIN LINE MATERIAL SHALL BE 1" O.D. HARD DRAWN COPPER TUBING...
6.5.2 THE LINES SHALL BE CAPABLE OF BEING OPENED AS CLOSE TO THE EVAPORATOR AS POSSIBLE TO ALLOW EFFECTIVE CLEANING...
6.5.3 THE DRAIN LINE SHALL BE TRAPPED ON A VERTICAL SLOPE PRIOR TO REACHING THE RECEIVING FLOOR DRAIN OR PIT...
6.5.4 THE DRAIN LINE SHALL HAVE A DEFINITE SLOPE AWAY FROM THE EVAPORATOR OR DRAIN PIT...
6.6 SYSTEM SET-UP
6.6.1 THE OIL LEVEL IN THE COMPRESSOR SIGHT GLASS SHALL BE BETWEEN 1/3 AND 1/2 FULL AT ALL TIMES...
6.6.2 THE PROPER AMOUNT OF REFRIGERANT SHALL BE CHARGED INTO THE SYSTEM WITH THE COMPRESSOR OPERATING AT NORMAL HEAD PRESSURE...
6.6.3 SUNGLASS-JOLTS SHALL BE USED IN THE MEDIUM TEMP SYSTEMS AND MOBIL EAL ARCTIC 2 CC OIL SHALL BE USED IN LOW TEMP SYSTEMS...
6.6.4 THE THERMOSTATIC EXPANSION VALVE SUPERHEAT IS CONTROLLED BY THE BEACON MICRO-PROCESSOR BOARD AND IS FACTORY SET AT 8 DEG...
6.6.5 THE WALK-IN COOLER AND FREEZER THERMOSTATS ARE A PART OF THE BEACON MICRO-PROCESSOR SYSTEM AND ARE FACTORY MOUNTED...
6.7 PENETRATIONS
6.7.1 ALL OPENINGS THROUGH THE WALK-IN PANELS REQUIRED FOR HANGERS, CONDENSATE DRAIN LINES, STRAPPING AND REFRIGERANT PIPING SHALL BE SEALED EXTERIOR AND INTERIOR BY THE MECHANICAL CONTRACTOR...
6.7.2 THE MECHANICAL CONTRACTOR SHALL SEAL OFF ALL PASS-THROUGH OPENINGS REQUIRED FOR REFRIGERANT TUBING IN ACCORDANCE WITH REQUIREMENTS STATED ON MECHANICAL PLAN...
7. ELECTRICAL
7.1 ALL PROVISIONS FOR WIRING (LINE VOLTAGE AND BEACON LOW VOLTAGE) SHALL BE BY THE ELECTRICAL CONTRACTOR...
8. MECHANICAL CONTRACTOR CLEAN-UP RESPONSIBILITIES
8.1 REMOVE ALL CRATING FROM PREMISES...
8.2 REMOVE ALL LABELS AND CLEAN CONDENSING SURFACES IF REQUIRED...
8.3 TOUCH-UP AND REPAIR PAINT AS REQUIRED.

SPECIFICATIONS-MISCELLANEOUS REFRIGERATED EQUIPMENT

- 1. SCOPE
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2. CODE REQUIREMENTS
2.1 ALL PROPOSALS SHALL INCLUDE, AND WORK PERFORMED SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES...
3. GUARANTEE
3.1 MECHANICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND THE COMPLETE SYSTEM OPERATION WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL...
3.2 MECHANICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE EQUIPMENT
3.2.1 MODEL NUMBER OF THE UNIT...
3.2.2 SERIAL NUMBER OF THE UNIT...
3.2.3 DATE OF INSTALLATION...
3.2.4 DETAILED ACCOUNT OF THE PROBLEM, DIAGNOSIS, AND REPAIR WORK REQUIRED...
3.2.5 PARTS REQUIRING REPLACEMENT...
3.2.6 STORE NUMBER AND ADDRESS...
4. INSTALLATION REQUIREMENTS
4.1 GENERAL
4.1.1 THE EQUIPMENT FROM VARIOUS MANUFACTURERS IS CONFIGURED SIMILARLY WITH MINOR DIFFERENCES DUE TO INDIVIDUAL MANUFACTURER'S DESIGN...
4.2 RETAIL REFRIGERATION EQUIPMENT
4.2.1 INSTALLATION INSTRUCTIONS
PARTS REQUIRED:
1. R448A REFRIGERANT FOR ALL REMOTE CONDENSING UNITS EXCEPT ICE MAKER AND SLURPEES (R404A): UP TO 15LBS 4 OZ PER CONDENSER...
2. WALL MOUNTED ELECTRICAL JUNCTION BOX WITH STRAIN RELIEF...
3. 50 FEET (MAX) OF ELECTRICAL CONDUIT WITH MINIMUM AWG 22 STRAND 7X30 WIRE...
4. MOUNTING HARDWARE FOR JUNCTION BOX BRACKETS, CLAMPS AND REMOTE CONDENSER...
CONTENTS OF KIT:
1. REMOTE CONDENSER
2. FLEXIBLE LINE SET
3. QUICK DISCONNECT FITTINGS
4. 50 FEET OF 3/8" INSULATED LINE SET
5. 50 FEET OF 1/2" INSULATED LINE SET
6. COPPER ELBOW FITTINGS
7. MOUNTING STRUT AND CLAMPS
8. JUMPER FOR ELECTRICAL CONNECTION...
INSTALLATION INSTRUCTIONS:
1. UNPACK CONDENSER
2. CONDENSER INSTALLATION
3. REFRIGERATION LINE INSTALLATION
4. ELECTRICAL CONNECTIONS
5. FBD UNIT INSTALLATION
6. REFRIGERANT CHARGING
7. UNIT START UP...
INSTALLATION:
1. CAREFULLY UNPACK THE CONDENSING UNIT...
2. CONDENSER INSTALLATION: INSTALL THE REMOTE CONDENSER ACCORDING TO THE DOCUMENT "INSTALL AND MAINTENANCE DATA" PROVIDED WITH THE CONDENSER...
4.2.2 ICE MAKER (PIPED TO THE HOSHIZAKI REMOTE CONDENSING UNIT, PRECHARGED REFRIGERANT LINE SET FURNISHED BY THE ICE MAKER MANUFACTURER.)
4.2.3 SANDWICH CASE (PIPED TO THE HEATCRAFT REMOTE CONDENSING UNIT, PRECHARGED REFRIGERANT LINE SET FURNISHED BY THE SANDWICH CASE MANUFACTURER.)
4.2.4 SLURPEE (PIPED TO THE FBD DUAL REMOTE CONDENSING UNIT, PRECHARGED REFRIGERANT LINE SET FURNISHED BY THE SLURPEE MANUFACTURER.)
4.2.5 FROZEN LEMONADE (PIPED TO FBD SINGLE REMOTE CONDENSING UNIT, PRECHARGED REFRIGERANT LINE SET FURNISHED BY THE FROZEN LEMONADE MANUFACTURER.)
4.3 CONDENSATE DRAIN
4.3.1 NORMALLY, THE CONDENSATE DRAIN CONNECTION INCLUDED WITH THE UNIT, WILL BE STUBBED OUT AT THE BOTTOM OF THE CABINET...
4.4 UNIT SHAKI UP AND CHECKOUT
4.4.1 MECHANICAL CONTRACTOR SHALL FOLLOW THE SPECIFIC UNIT INSTALLATION PROCEDURES WHICH ARE PACKAGED WITH EACH PIECE OF EQUIPMENT WHEN DELIVERED TO THE STORE...
5. MECHANICAL CONTRACTOR RESPONSIBILITIES
5.1 REMOVE ALL CRATING FROM PREMISES...
5.2 CHECK EACH PIECE OF REFRIGERATION EQUIPMENT FOR DAMAGES...
5.3 OBTAIN, PAY FOR AND FURNISH ALL REFRIGERATION PERMITS...
5.4 COMPLY WITH ALL LOCAL AND STATE CODES...
5.5 NO EXTRAS SHALL BE ALLOWED DUE TO CONDITIONS WITH WHICH THE MECHANICAL CONTRACTOR SHOULD HAVE BEEN FAMILIAR...
6. ELECTRICAL
6.1 ALL PROVISIONS FOR WIRING, EXCEPT LOW VOLTAGE CONNECTIONS, SHALL BE BY THE ELECTRICAL CONTRACTOR...
6.2 ALL ELECTRICAL POWER SUPPLY WIRING SHALL BE BY ELECTRICAL CONTRACTOR...
6.3 ALL LINE VOLTAGE CONTROL WIRING FROM THE RETAIL REFRIGERATION EQUIPMENT TO THE CONDENSER UNIT(S) SHALL BE BY THE ELECTRICAL CONTRACTOR.

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REVISIONS



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REFRIGERATION
SPECIFICATIONS

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