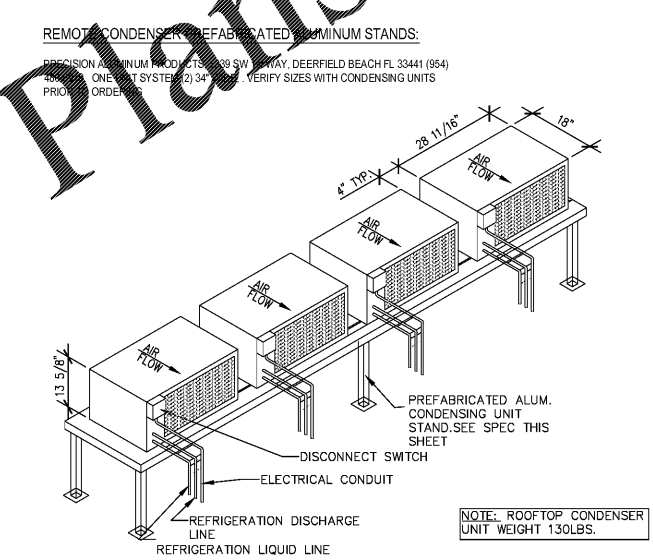
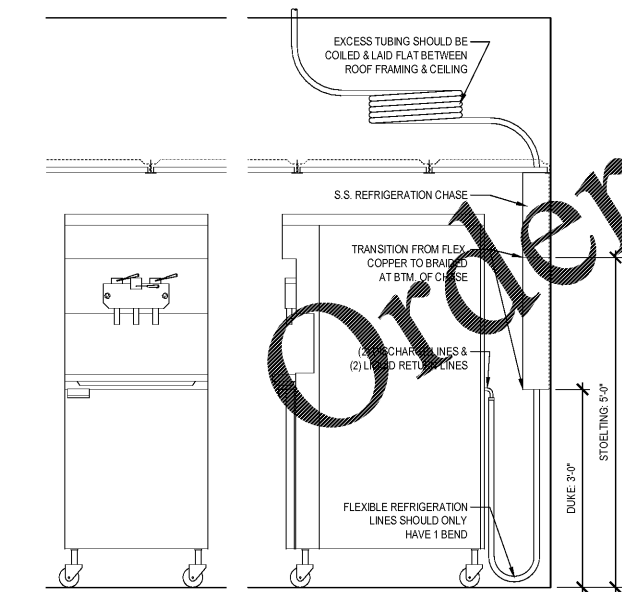


THIS PLAN WAS DEVELOPED USING THE FLORIDA MECHANICAL CODE 2020, ASHRAE 62.1 2016 EDITION

WWW.LDILine.com

1 REFRIGERATION PLAN
SCALE: 1/4" = 1'-0"



GENERAL NOTES

- GENERAL: THESE INSTRUCTIONS ARE FOR INSTALLATION OF ICE CREAM FREEZERS WITH REMOTE AIR COOLED CONDENSERS. FOLLOW THESE INSTRUCTIONS TO INSURE PROPER INSTALLATION, FREEZER PERFORMANCE, AND SAFETY. IT IS ALSO THE RESPONSIBILITY OF THE INSTALLER TO FOLLOW STATE, COUNTY, AND CITY CODES AND REGULATIONS.
- RESTRICTIONS: THE MAXIMUM LENGTH OF CONDENSER LINE IS 50'. DO NOT EXPOSE MORE THAN 30' OF CONDENSER LINE TO THE OUTDOORS. EXCEEDING 30' MAY CAUSE OPERATIONAL PROBLEMS.
- MAIN COMPONENTS: THE AIR COOLED REMOTE FREEZERS CONSIST OF THREE COMPONENTS: FREEZER, REMOTE CONDENSER, & CONDENSER LINE SETS WITH (6" DUKE®) STOELTING) FLEX LINE. EACH OF THESE COMPONENTS IS SEALED AND FACTORY PRE-CHARGED WITH THE REQUIRED AMOUNT OF REFRIGERANT. NO ADDITIONAL REFRIGERANT CHARGE IS REQUIRED.
- FREEZER INSTALLATION: DETERMINE FREEZER LOCATION IN THE STORE FIRST. ESTABLISH ELECTRICAL AND REFRIGERATION LINE LOCATIONS.
- REMOTE CONDENSER INSTALLATION:
 - LOCATE CONDENSERS AS CLOSE AS POSSIBLE TO FREEZER LOCATIONS.
 - POSITION CONDENSERS WHERE THERE IS MINIMAL RESTRICTION TO AIR FLOW. ALLOW FOR AT LEAST 2' CLEARANCE AT INLET AND OUTLET. POSITION UNITS SO THEY WILL NOT DISCHARGE HOT AIR FROM ONE UNIT INTO ANOTHER.
 - BOLT CONDENSER TO ROOF CURB.
- CONDENSER LINE INSTALLATION:
 - TWO FACTORY PRE-CHARGED AND INSULATED CONDENSER LINE SETS ARE REQUIRED FOR EACH CONDENSER: DISCHARGE 1/2" O.D. LINE SET & LIQUID RETURN 3/8" O.D. LINE SET.
 - ROUTE THE CONDENSER LINE SETS BETWEEN THE FREEZER AND THE CONDENSER. POSITION THE LINES IN A SAFE LOCATION SO THEY CAN BE SECURELY CLAMPED TO A WALL OR STRUCTURAL MEMBER.
 - ANY EXCESS TUBING SHOULD BE COILED AND LAID FLAT IN AN INDOOR LOCATION.
 - THE FLEXIBLE LINES CONNECT TO BACK OF THE FREEZER FOR EASY SERVICING. EACH FLEXIBLE LINE MUST HAVE ONLY ONE BEND. E) PROVIDE PROPER PITCH AND OIL TRAP BENDS IN THE DISCHARGE LINE WHERE REQUIRED. AVOID SHARP BENDS WHEREVER POSSIBLE. DO NOT REMOVE THE INSULATION ON THE LINES DUE TO CONDENSATION AND REFRIGERANT HEAT LOSS.
 - KEEP DISCHARGE LINE SEPARATE FROM THE LIQUID LINE BY AT LEAST 6".

KEY NOTES

- REFRIGERATION SIGHT GLASS IS INCLUDED WITH ALL REFRIGERATION EQUIPMENT PROVIDED BY TENANT/OWNER AND INSTALLED BY THE GENERAL CONTRACTOR.
- HAVE QUALIFIED ROOFER PROPERLY SEAL ANY HOLES MADE FOR REFRIGERATION AND ELECTRICAL LINES.
- EACH PRECHARGED REFRIGERATION LINE SET TO INCLUDE ONE INSULATED SUCTION LINE & ONE SOFT COOL LIQUID LINE, TIE WRAPPED. SEE EQUIPMENT PLAN FOR LINE-SET LENGTH.
- SOFTSERVE FREEZER: INSTALL & MAKE FINAL CONNECTIONS OF PRECHARGED REFRIGERATION LINE (PRECHARGED LINE SETS PART OF EQUIPMENT PACKAGE) FROM ROOF MOUNTED REMOTE CONDENSER TO SOFTSERVE FREEZER.
- PRECHARGED LINE SET: RUN FROM ROOF MOUNTED REMOTE CONDENSER(S) THRU SEALED ROOF OPENING INTO CEILING SPACE, CONTINUE INSIDE WALL CAVITY TO HORIZONTAL AND/OR CEILING/WALL SURFACE MOUNTED LINES.
- VERTICAL WALL SURFACE MOUNTED PRECHARGED LINE SETS.
- DISPLAY FREEZER: INSTALL & MAKE FINAL CONNECTIONS OF PRECHARGED REFRIGERATION LINE (PRECHARGED LINE SETS PART OF OWNERS EQUIPMENT PACKAGE) FROM DISPLAY FREEZER TO ROOF MOUNTED REMOTE COMPRESSOR. NOTE: IF RUN IS LONGER THAN 25', CONTRACTOR TO CONTACT MANUFACTURER FOR RESIZING OF FEED AND RETURN LINES. MECHANICAL CONTRACTOR TO PROVIDE START-UP.
- ICE MAKER: INSTALL & MAKE FINAL CONNECTIONS OF PRECHARGED REFRIGERATION LINE (PRECHARGED LINE SETS PART OF OWNERS EQUIPMENT PACKAGE) FROM EVAPORATOR COIL TO ROOF MOUNTED REMOTE CONDENSER. MECHANICAL CONTRACTOR TO PROVIDE START-UP. NOTE: BRAZING IN THE FIELD MAY BE REQUIRED ON SOME MODELS.
- WALK-IN COOLER/FREEZER: INSTALL & MAKE FINAL CONNECTIONS OF PRECHARGED REFRIGERATION LINE (PRECHARGED LINE SETS PART OF OWNERS EQUIPMENT PACKAGE) FROM EVAPORATOR COIL TO ROOF MOUNTED REMOTE CONDENSER. MECHANICAL CONTRACTOR TO PROVIDE START-UP.

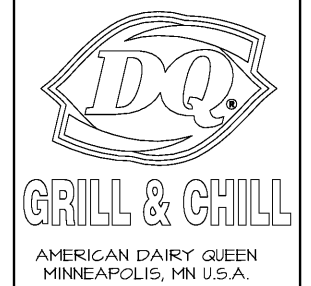
2 SOFTSERVE MACHINE & ROOF MOUNTED AIR COOLED/REMOTE CONDENSERS

JAMES E. WILKERSON
A.I.A.
119 East Tallulah Drive
Greenville, S.C. 29605
864-370-2582
864-240-5375 f

MATTHEW J. WILLIAMS
LICENSE
No. 74427
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FLA REG. FE 74427
JOB NO. 202016

DQ GRILL & CHILL
US HWY 90 (LOT 2)
GLEN ST MARY, FL
32040



*REGISTERED U.S. PATENT OFFICE, AMERICAN DAIRY QUEEN CORPORATION, THIS DRAWING, ITS DESIGN DETAIL AND INVENTION ARE THE PROPERTY OF AMERICAN DAIRY QUEEN INC. (ADQ) AND SHALL NOT BE COPIED IN ANY MANNER NOR DISCLOSED TO ANY OUTSIDE PARTY WITHOUT ADQ CONSENT.

BUILDING TYPE:
DAIRY QUEEN GRILL & CHILL
CORE66
STORE NO. 45961

DRAWN, CHECKED, & APPROVED BY: ADQ DESIGN-ARCHITECTURE-CONSTRUCTION (DAC) DEPARTMENT

THIS IS "PLAN" NORTH FOR ACTUAL BUILDING ORIENTATION REFER TO SITE PLAN (BY OTHERS)

ISSUE DATE: 10/30/2020
REVISION DATE: 10/30/2020
ISSUE FOR CONSTRUCTION

REFRIGERATION PLAN

SHEET NUMBER:
M5