



OVERALL SLURPEE MACHINE (EACH) LIQUID AND DISCHARGE REFRIGERANT LINE LENGTHS

DISCHARGE LINE DESIGN NOTES:

- AT SLURPEE MACHINE THERE IS ONE (1) ELBOW
- THE P-TRAP IS EQUIVALENT TO THREE (3) ELBOWS
- THE REMAINDER OF THE LINE RUN SHOWS EIGHT (8) ELBOWS
- (12) 5/8" ELBOWS EQUIVALENT LINE LENGTH = 24'-0"
- 5/8" LINE LENGTH = 38'-0"
- TOTAL LINEAL LINE LENGTH = 62'-0"
- DISCHARGE LINE SIZE = 5/8"
- LIQUID LINE SIZE = 3/8"
- COMPRESSOR LOCATED IN FBD MACHINE

6 SLURPEE MACHINE (EACH)
M1.3 N.T.S.

OVERALL SANDWICH CASE LIQUID AND SUCTION REFRIGERANT LINE LENGTHS

SUCTION LINE DESIGN NOTES:

- AT SANDWICH CASE EVAP THERE IS ONE (1) ELBOW
- THE P-TRAP IS EQUIVALENT TO THREE (3) ELBOWS
- THE REMAINDER OF THE LINE RUN SHOWS FIVE (5) ELBOWS
- LINE SIZING TABLE 9 FROM THE MANUAL SHOWS 13,900 BTUH REQUIRES A 7/8" SUCTION FOR UP TO 50'-0" OF EQUIVALENT LINE LENGTH
- CERTAIN STORES MAY HAVE TWO SANDEN SANDWICH CASES. SANDEN MODEL RSC8 AND RSC3 HAVE IDENTICAL REFRIGERATION LINE SETS AND REFRIGERANT LINE SIZES.

5 SANDWICH CASE
M1.3 N.T.S.

OVERALL 1006 HR ICE MAKER LIQUID AND DISCHARGE REFRIGERANT LINE LENGTHS

DISCHARGE LINE DESIGN NOTES:

- AT 1006 HR ICE MAKER, THERE IS ONE (1) ELBOW
- THE P-TRAP IS EQUIVALENT TO THREE (3) ELBOWS
- THE REMAINDER OF THE LINE RUN SHOWS SIX (6) ELBOWS
- (10) 1/2" ELBOWS EQUIVALENT LINE LENGTH = 20'-0"
- 1/2" LINE LENGTH = 36'-0"
- TOTAL LINEAL LINE LENGTH = 56'-0"
- DISCHARGE LINE SIZE = 1/2"
- LIQUID LINE SIZE = 3/8"
- COMPRESSOR LOCATED IN ICE MAKER

1006 HR ICE MAKER
N.T.S.

OVERALL VAULT ICE MERCHANDISER LIQUID AND SUCTION REFRIGERANT LINE LENGTHS

SUCTION LINE DESIGN NOTES:

- AT EVAP #1 THERE IS ONE (1) ELBOW
- THE P-TRAP IS EQUIVALENT TO THREE (3) ELBOWS
- THE REMAINDER OF THE LINE RUN SHOWS FIVE (5) ELBOWS
- LINE SIZING TABLE 9 FROM THE MANUAL SHOWS 7,070 BTUH REQUIRES A 1/2" SUCTION FOR UP TO 50'-0" OF EQUIVALENT LINE LENGTH
- HORIZONTAL SUCTION LINES SHOULD SLOPE DOWNWARD FROM THE EVAPORATOR TOWARD THE COMPRESSOR AT THE RATE OF 1/4 INCH PER 10 FEET FOR GOOD OIL RETURN TO THE COMPRESSOR.
- PIPING DIAGRAM FOR THE R448A LOW TEMPERATURE (-10°F SST) ICE MERCHANDISER REFRIGERATION SYSTEM

3 VAULT ICE MERCHANDISER
M1.3 N.T.S.

ENLARGED INTERIOR VAULT ICE MERCHANDISER LIQUID AND SUCTION REFRIGERANT LINE SIZES AND CONNECTIONS

SUCTION LINE SIZING - 7,070 BTUH @ +10°F

- (9) 1/2" ELBOWS EQUIVALENT LINE LENGTH = 9'-0"
- 1/2" LINE LENGTH = 34'-0"
- TOTAL LINEAL LINE LENGTH = 43'-0"
- SUCTION LINE SIZE = 1/2"
- LIQUID LINE SIZE = 3/8"

OVERALL VAULT FREEZER LIQUID AND SUCTION REFRIGERANT LINE LENGTHS

SUCTION LINE DESIGN NOTES:

- AT EVAP #1 THERE IS ONE (1) ELBOW
- THE P-TRAP IS EQUIVALENT TO THREE (3) ELBOWS
- THE REMAINDER OF THE LINE RUN SHOWS FIVE (5) ELBOWS
- LINE SIZING TABLE 9 FROM THE MANUAL SHOWS 5,000 BTUH REQUIRES A 5/8" SUCTION FOR UP TO 50'-0" OF EQUIVALENT LINE LENGTH
- HORIZONTAL SUCTION LINES SHOULD SLOPE DOWNWARD FROM THE EVAPORATOR TOWARD THE COMPRESSOR AT THE RATE OF 1/4 INCH PER 10 FEET FOR GOOD OIL RETURN TO THE COMPRESSOR.
- PIPING DIAGRAM FOR THE R448A LOW TEMPERATURE (-20°F SST) FREEZER REFRIGERATION SYSTEM

2 VAULT STORAGE FREEZER
M1.3 N.T.S.

ENLARGED INTERIOR VAULT FREEZER LIQUID AND SUCTION REFRIGERANT LINE SIZES AND CONNECTIONS

SUCTION LINE SIZING - 5,000 BTUH @ -20°F

- (9) 5/8" ELBOWS EQUIVALENT LINE LENGTH = 18'-0"
- 5/8" LINE LENGTH = 28'-0"
- TOTAL LINEAL LINE LENGTH = 46'-0"
- SUCTION LINE SIZE = 5/8"
- LIQUID LINE SIZE = 3/8"

1 VAULT COOLER
M1.3 N.T.S.

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REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 17111
RELEASE DATE: 12/19/2017

FLEXPACK RISER DETAILS

M1.3