



REV.	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED	ENG. APPROV.
3	10/06/15	AS INSTALLED	MRH	MH	TEP

NOTES

- PIPED EQUALLY.
- DISCHARGE TO ATMOSPHERE, SEE BLOW OFF LINE PID.
- AMMONIA FILTER BANK, REFER TO O&M MANUAL FOR INSTRUCTION OF USE.
- VENT TAKE OFF BOTTOM OF PIPE.
- ALL WET RETURNS FALL BACK TO SURGE DRUM.

Stainless steel drops to freezer = ASTM A312/TP304L SCH10S (SMLS)

AMMONIA

PEID ASSESSMENT
 FLUID GROUP 1 (RTT)
 PS HIGH SIDE = 23BARG
 PS LOW SIDE = 16BARG
 CATEGORY ASSEMBLY - IV

PRESSURE TESTING
 (STRENGTH)
 HIGH SIDE 25.3BARG
 LOW SIDE 17.6BARG

TIGHTNESS
 HIGH SIDE 23BARG
 LOW SIDE 16BARG

REFRIGERANT CHARGE (RTT) - 425kg
 OIL TYPE:

WELD PROCEDURE - ISO15614-1
 WELD QUALIFICATION - EN287
 NDT - BUTT WELDS 10% U.T OR R.T

LEGEND INSTRUMENTATION CODES

LOCAL CONTROL	REMOTE CONTROL
F FLOW	X UNCLASSIFIED VARIABLES
G GAUGING POS. / LENGTH	D DIFFERENCE
L LEVEL	I INDICATING
M MOISTURE / HUMIDITY	C CONTROLLING
P PRESSURE	T TRANSMITTING
Q QUALITY / DETECTION	S SWITCHING
S SPEED / FREQUENCY	Z EMERGENCY / SAFETY ACTING
T TEMPERATURE	A ALARM

LINE CODE: 100-RC11

100 DIAMETER RC11 LINE TYPE

RC REFRIGERANT CO ₂	11 CARBON STEEL ST35.8
RN REFRIGERANT NH ₃	12 CARBON STEEL A516
RM REFRIGERANT MISC.	13 CARBON STEEL
CA COOLANT A	14 C/STEEL A106 GRB SCH40
CB COOLANT B	15 C/STEEL A333 GR6 SCH40
CC COOLANT C	16 C/STEEL A333 GR6 SCH40
CD COOLANT D	17 ASTM A333 TP304L SCH10S (SMLS)
CE COOLANT E	18 2 STAINLESS STEEL THIN WALL
CF COOLANT F	19 COPPER
CG COOLANT G	20 PLASTIC PVC

	GLOBE VALVE - ANGLED
	GLOBE VALVE - STRAIGHT
	GLOBE VALVE - CLOSED
	STOP / CHECK VALVE VALVE
	REGULATING VALVE - ANGLED
	REGULATING VALVE - STRAIGHT
	3 WAY VALVE
	SAFETY RELIEF VALVE - ANGLED
	SAFETY RELIEF VALVE - STRAIGHT
	DEADMANS DRAIN VALVE (CLOSED)
	BASKET STRAINER / FILTER
	PILOT OPERATED VALVE
	FLOW CONTROL VALVE
	SOLENOID VALVE
	MOTOR VALVE
	GAS OPERATED (IP32)
	3 WAY ACTUATED
	CHECK VALVE STRAIGHT
	CHECK VALVE ANGLE
	MOTOR BUTTERFLY VALVE
	BUTTERFLY VALVE
	MOTOR BALL VALVE
	REDUCER - ECCENTRIC
	REDUCER - CONCENTRIC
	END CAP
	VALVE BLIND NUT
	ELECTRIC HEATING
	FILTER DRIER
	SIGHT GLASS
	SIGHT GLASS - OIL FILLED

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PROJECT: MELTON FOODS FACTORY EXTENSION
 CLIENT: MELTON FOODS
 TITLE: PIPING & INSTRUMENT DIAGRAM

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