OPTION KITS	PART NO.		
CENTER WALL DIVIDE BULKHEAD	76-00527-00		
DOOR SWITCH SHUTDOWN	76-00703-01		
REMOTE CONTROL/INDICATOR PANEL	SURFACE	2 COMP.	76-60796-01
REMOTE CONTROL/INDICATOR PANEL	FLUSH	2 COMP.	76-60796-02

	SHEET				
GENERAL INFORMATION	1,2				
TRAILER PREPARATION	TRAILER PREPARATION/REFRIGERANT LINE ROUTING				
ELECTRICAL DIAGRAM	5				
	6				
EVAPORATOR INFORMAT	7,8				
SYSTEM'S A & B CONF	IGURATION & PIPING SCHEMATIC	9			

28 AUG 18

8 SEPT 09

MGC

ENGR.

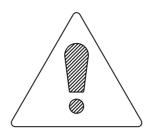
SHEET	REV	В	А	В	В	В	В	А	А	Α
INDEX	SHEET	1	2	3	4	5	6)	7	8	9

B ADDED SAFETY NOTES A & B; UPDATED SHT's 3, 4, 5 & 6

REVISION RECORD

A | INITIAL RELEASE PER PCA71N232GP09

CTD PART NO.	U.S. ECCN	SYSTEM	MODEL DESCRIPTION
98-03300-01		А	2 COMPARTMENT W/ 2 MTS 1100 EVAPORATORS
30-03300-01	EAR99	В	2 COMPARTMENT W/ 1 MTS 1100 & 1 MTD 1100 EVAP'S.



WARNING

READ ALL INSTRUCTIONS PRIOR TO INSTALLATION

IMPORTANT: INSTALLATION OF THIS REFRIGERATION SYSTEM MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.

SAFETY:

A) PERSONAL PROTECTIVE EQUIPMENT (PPE):

DURING THE INSTALLATION OF THIS PRODUCT, ALWAYS WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AND USE CORRECT TOOLS THAT ARE IN GOOD WORKING CONDITION.

B) RISKS:

BE AWARE OF YOUR ENVIRONMENT AND SURROUNDINGS. FOLLOW ALL LOCK OUT / TAG OUT PROCEDURES ON ALL EQUIPMENT INVOLVED IN THE INSTALLATION INCLUDING THE UNIT ITSELF. MAKE CERTAIN ALL TOOLS AND EQUIPMENT ARE APPROPRIATE FOR THE JOB BEING COMPLETED, AND ARE IN GOOD WORKING CONDITION.

MULTI-TEMP REMOTE EVAP. INSTALLATION PROCEDURE

SELECT LOCATION FOR REMOTE EVAPORATOR WHICH OPTIMIZES AIR CIRCULATION.

CAUTION: TRUCK BODY MFR TO DETERMINE IF ADJUSTMENT IN CORNER MOULDING IS NECESSARY TO AVOID INTERFERENCE WITH EVAPORATOR MOUNTING.

- THE TRUCK BODY MANUFACTURER TO PROVIDE SMOOTH FLAT SURFACE IN SAME PLANE TO ACCEPT MOUNTING OF EVAPORATOR. INSTALL REMOTE EVAPORATOR. SEE BODY PREPARATION, SHEET 2.
- CEILING MOUNTING STUDS SHOULD BE LOCATED BY THE BODY BUILDER PER EVAPORATOR DRAWING LOCATIONS. EVAPORATORS ARE DELIVERED WITH 16mm (5/8 in) CLEARANCE HOLES TO ACCOMODATE MOUNTING STUD SIZE: 1/2-13UNC. ON AN 1100 EVAPORATOR, SHIMS(IT.90) ARE TO BE INSTALLED BETWEEN THE CEILING AND EVAPORATOR TO PRÓVIDE A SUFFICIENT DRAINAGE SLOPE. TWO(2) SHIMS ARE TO BE INSTALLED ON EACH MOUNTING STUD CLOSEST TO THE EVAPORATOR DRAIN AND ONE (1) SHIM INSTALLED ON THE CENTER MOUNTING STUDS. AN ADDITIONAL TWO(2) SHIMS ARE PROVIDED FOR SPECIAL MOUNTING APPLICATIONS (i.e.: MOUNTING AN EVAPORATOR GUARD). NO SHIMS ARE REQUIRED ON THE STUDS LOCATED FARTHEST FROM THE DRAIN SIDE OF THE EVAPORATOR.
- 3.1 FOR 1100 EVAPORATORS ONLY, THE TWO CENTER MOUNTING STUDS ARE NOT REQUIRED WHEN 1/2-13 UNC STUDS ARE USED ON THE FOUR CORNER MOUNTING LOCATIONS.
- AFTER MAIN UNIT IS MOUNTED, ROUTE REFRIGERANT LINES FROM MAIN UNIT TO REMOTE EVAPORATOR. APPLY A LIGHT COAT OF CLEAR REFRIGERANT OIL TO O-RINGS AT MAIN UNIT AND REMOTE EVAPORATOR(S) BEFORE ASSEMBLY.

TROUGH LOCATIONS:

- WHEN USING A WALL TROUGH FOR TUBING AND ELECTRICAL WIRING, THE TROUGH SHOULD BEGIN AT A POINT 1-1/2 INCHES DOWN FROM THE CEILING. THIS WILL ALLOW THE TUBING FROM EVAPORATOR TO DIRECTLY ENTER THE TROUGH BEFORE MAKING THE FIRST BEND TOWARDS THE HOST UNIT.
- IF A WALL TROUGH IS USED, THE TROUGH SHOULD CONTINUE TO A POINT 6 INCHES PAST THE SIDE TUBING CONNECTIONS OF A DUAL DISCHARGE EVAPORATOR.
- IF A CEILING TROUGH IS USED, THE TROUGH SHOULD CONTINUE TO WITHIN 6 INCHES FROM THE REAR OF A SINGLE DISCHARGE EVAPORATOR.

- CONTINUED ON SHEET 2 -

SEE SEPARATE PARTS LIST

THIRD ANGLE - PROJECTION

71N0251P18

71N232GP09

NPCA NO.

TITLE

INSTALLATION INSTRUCTIONS MTD/MTS REMOTE EVAPORATORS

SUPERSEDES _

DRAWING NO. 98-03300

SHT. 1 OF 9

PART CLASSIFICATION US SEE CHART



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INCHES

1.50

5.83

DECIMAL | FRACTIONAL

INCHES

5-27/32

1-1/2

REFRIGERANT LINE SIZES:

- 6.1 THE HOST UNIT HAS A 1-1/8 INCH SUCTION LINE CONNECTION. THE REMOTE EVAPORATORS HAVE A 7/8 INCH SUCTION LINE CONNECTION.
- WHEN CONNECTING THE REMOTE EVAPORATORS, STEP UP THE SUCTION LINE SIZE NEAR THE EVAPORATOR AND RUN THE ENTIRE LENGTH WITH 1-1/8 INCH PIPE.
- 6.4 THE SUCTION & HOT GAS LINES MUST BE INSULATED. IT IS NOT NECESSARY TO INSULATE THE LIQUID LINE.

7. REFRIGERANTS:

- 7.1 IF R-404A REFRIGERANT IS TO BE USED, IT IS MANDATORY THAT NITROGEN FLUSHING BRAZE TECHNIQUES ARE USED ON EVERY SOLDER TUBING JOINT. IT IS RECOMMENDED THAT THIS SAME PROCEDURE BE USED ON R-22 REFRIGERANT UNIT BUT IS NOT MANDATORY THIS TECHNIQUE ELIMINATES OXIDATION WHICH WILL REDUCE SYSTEM RELIABILITY.
- LEAK TEST AND THEN EVACUATE THE SYSTEM THROUGH RECEIVER PORT AND SUCTION PORT. SEE SERVICE MANUAL FOR PROPER PROCEDURE.

CAUTION: DISCONNECT ALL BATTERIES BEFORE WORKING ON ELECTRICAL SYSTEM.

ELECTRICAL CONNECTIONS:

- 8.1 THE WIRING HARNESS FOR THE REMOTE EVAPORATOR SHOULD BE RUN ALONG WITH THE SUCTION, HOT GAS AND LIQUID LINE TO THE HOST UNIT.
- AFTER ROUTING THE WIRING HARNESS(S) AND INSTALLING THE REMOTE EVAPORATOR(S), DETERMINE REQUIRED HARNESS LENGTH(S) AND CUT HARNESS AT THE REMOTE EVAPORATOR END.

CAUTION: USE EXTREME CAUTION TO AVOID CUTTING THE INSULATION ON WIRES WHEN CUTTING WIRE HARNESS SLEEVE.

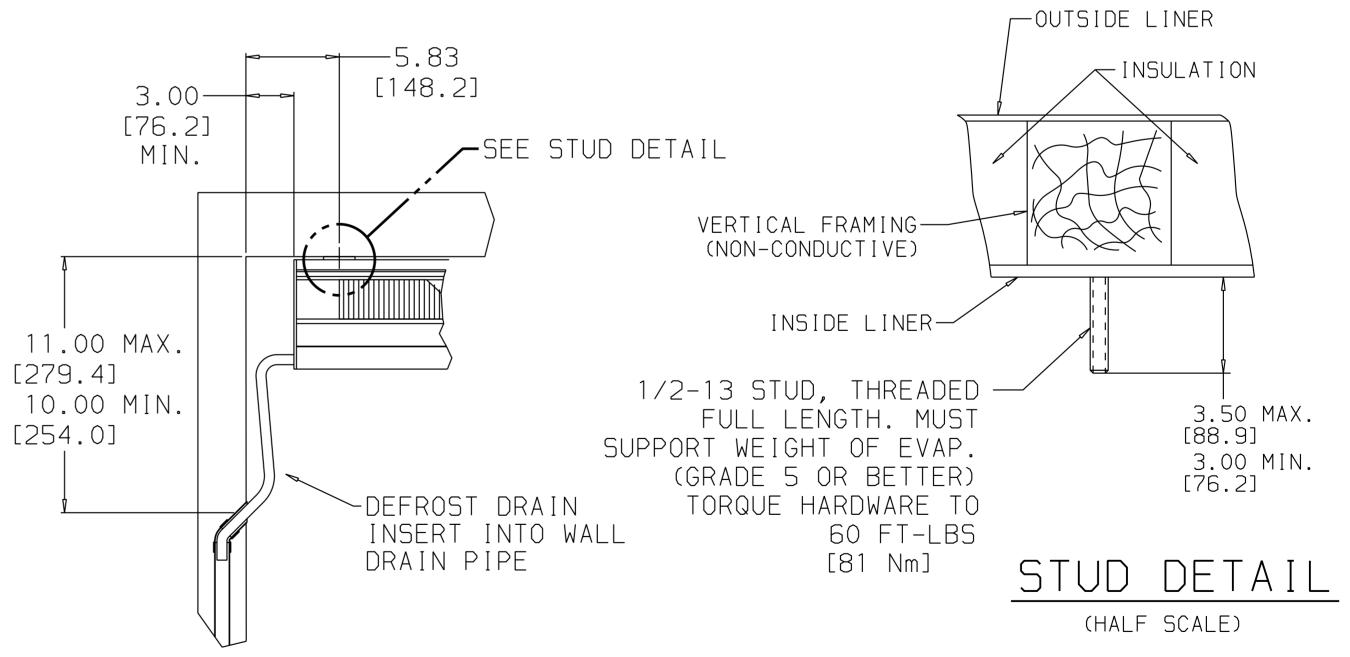
- USE THE PRE-INSULATED TERMINALS SUPPLIED (IT.2) AND PROPER CRIMPING TOOL (AMP #59824-1) TO MAKE ELECTRICAL CONNECTIONS.
- COMPLETE ALL ELECTRICAL CONNECTIONS ON THE MAIN UNIT AND ON THE REMOTE EVAPORATOR PER WIRING INSTRUCTIONS ON SHEET'S 5 & 6.
- IF A REAR MOUNTED REMOTE CONTROL/INDICATOR PANEL IS USED, THE CONTROL CABLE MAY BE RUN WITH THE SUCTION, HOT GAS, LIQUID LINE AND THE EVAPORATOR WIRE HARNESS TO THE HOST UNIT OR UNDERNEATH THE TRUCK BODY TO THE HOST UNIT.

9. DRAIN TUBE CONNECTIONS:

- DEFROST DRAIN TUBES PROVIDED BY THE TRUCK MANUFACTURER SHOULD BE CENTERED ON THE EVAPORATOR AND PLACED 10 TO 11 INCHES FROM THE CEILING. A 7/8 INCH I.D./ 15/16 INCH O.D. DRAIN TUBE IS SUPPLIED FOR CONNECTION OF THE REMOTE EVAPORATOR DRAIN OUTLET WHICH IS TO BE INSTALLED INTO THE TRAILER OEM SUPPLIED WALL DRAIN. THE DRAIN TUBE SUPPLIED BY CARRIER IS DESIGNED TO GO INSIDE THE WALL DRAIN PIPE SUPPLIED BY THE BODYBUILDER OEM. THE WALL DRAIN MUST BE CPVC SCHEDULE 40 RATED AT 200°F[93°C] OR EQUIVALENT.
- THE 1100 EVAPORATOR USES ONLY ONE OF THE TWO DEFROST DRAINS. THE UNUSED DRAIN IS PLUGGED WITH PLUG PROVIDED WITH THE EVAPORATOR.
- THE 2200 WIDTH EVAPORATOR USES BOTH DEFROST DRAINS UNLESS IN 96" WIDE APPLICATIONS.
- 10. CONSULT APPLICATION ENGINEERING FOR PROPER INSTALLATION OF FEATURES NOT SUPPLIED BY CARRIER.

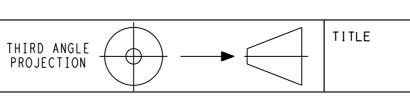
INSTALLATION TIPS

- (A) USE FLAT FLOORING IN THE FLOOR SECTION UNDER THE BULKHEAD.
- PROVIDE A THERMAL BREAK IN THE FLOOR UNDER THE BULKHEAD. FOR MOVABLE LOCATION BULKHEADS, USE RUBBERIZED HARDWOOD FLOORS.
- (C) COVER REFRIGERANT LINES TO AVOID IMPACT DAMAGE.
- INSTALL A GUARD AROUND THE EVAP. TO PREVENT IMPACT DAMAGE.



TRUCK BODY PREPERATION FOR EVAPORATOR

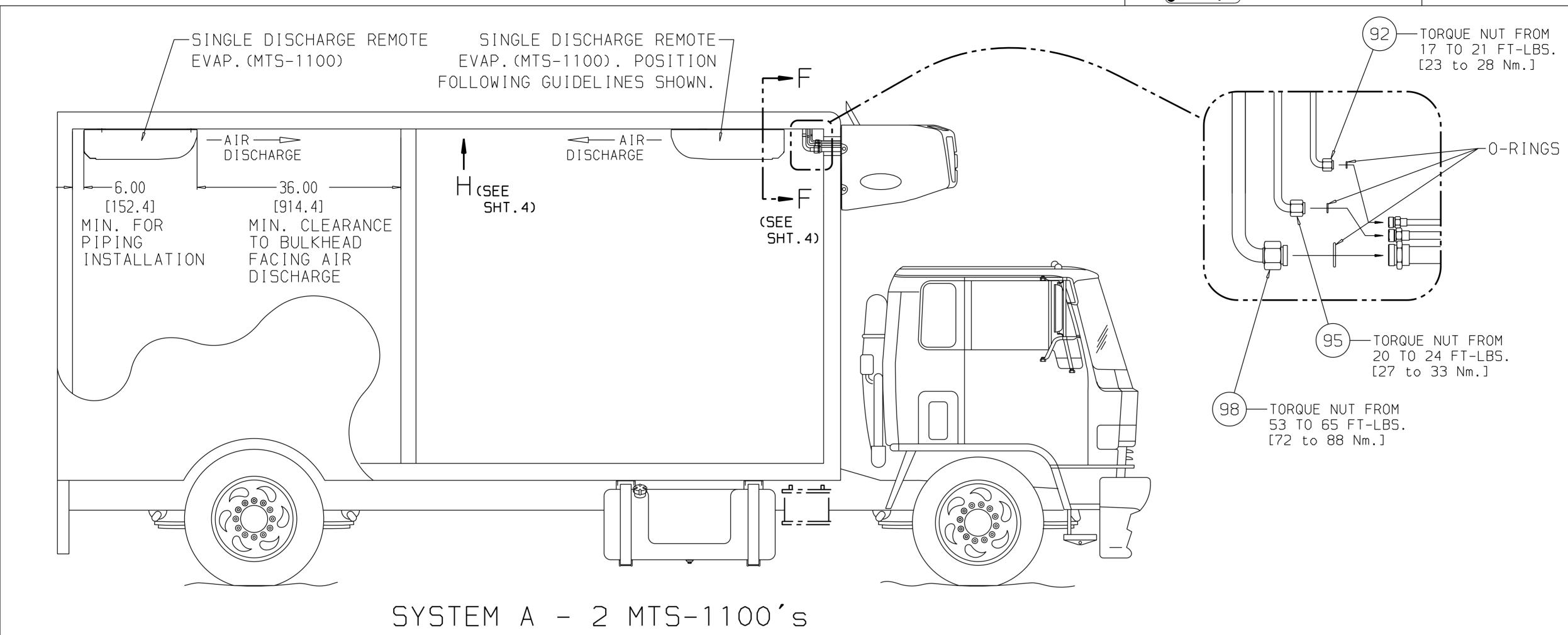
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SYM	REVISION RECORD	DATE	ВҮ	ENGR.	M.E.	NPCA NO.

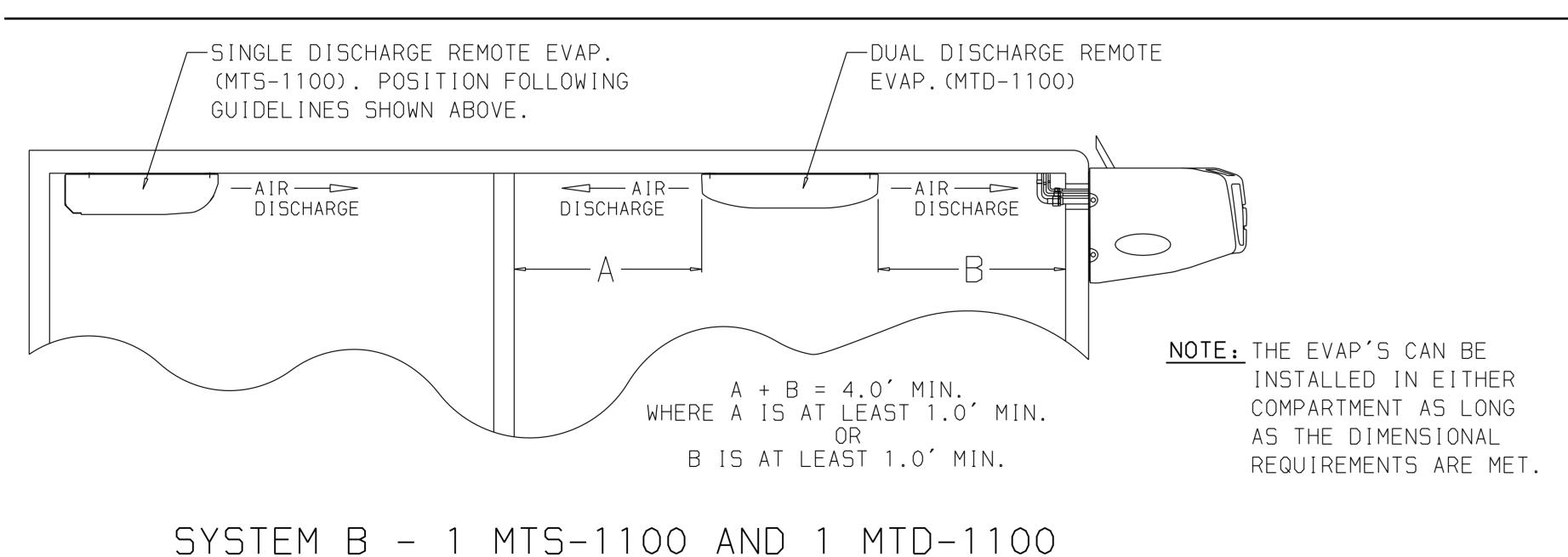


INSTALLATION INSTRUCTIONS MTD/MTS REMOTE EVAPORATORS

SUPERSEDES _

DRAWING NO. 98-03300 SHT. 2 OF





TUBING INSTRUCTIONS

CAUTION: HOST UNIT IS SHIPPED FULLY CHARGED FROM FACTORY.

- 1.0 PUMP DOWN REFRIGERATION SYSTEM AND REMOVE CAPS FROM EVAPORATOR CONNECTIONS.
- 2.0 ROUTE TUBING TO REAR EVAPORATORS TO MINIMIZE EXPOSURE TO DAMAGE.
- 3.0 FOR COPPER TO COPPER BRAZING IT IS RECOMMENDED THAT A BRAZING MATERIAL OF 15% SILVER, 5% PHOSPHOROUS BE USED (FLUX IS NOT REQUIRED FOR COPPER TO COPPER JOINTS). "SOFT SOLDER" BRAZING MATERIAL IS NOT RECOMMENDED.
- 4.0 CLOSED CELL FOAM INSULATION IS RECOMMENDED TO COVER THE ENTIRE SUCTION & HOT GAS LINE LENGTH.

IMPORTANT: USE ONLY NEW O-RINGS SUPPLIED IN KIT WHEN
INSTALLING UNIT. DISCARD FACTORY INSTALLED O-RINGS TO INSURE PROPERLY SEALED CONNECTIONS.

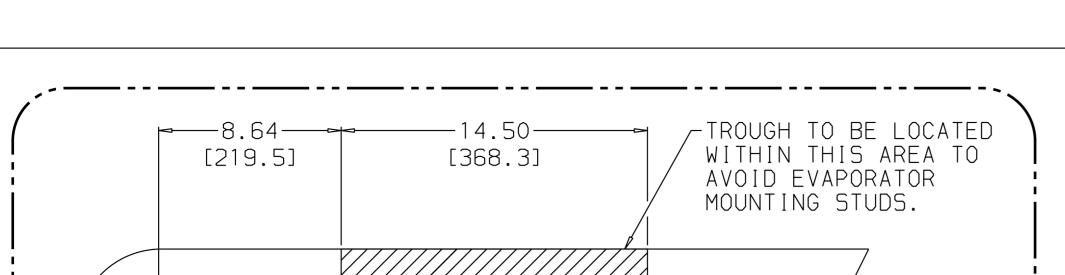
<u>CAUTION:</u> MAKE SURE ALL BRAZING IS COMPLETE AND HAS COOLED COMPLETELY BEFORE INSTALLING O-RINGS; OTHERWISE O-RING DAMAGE WILL OCCUR.

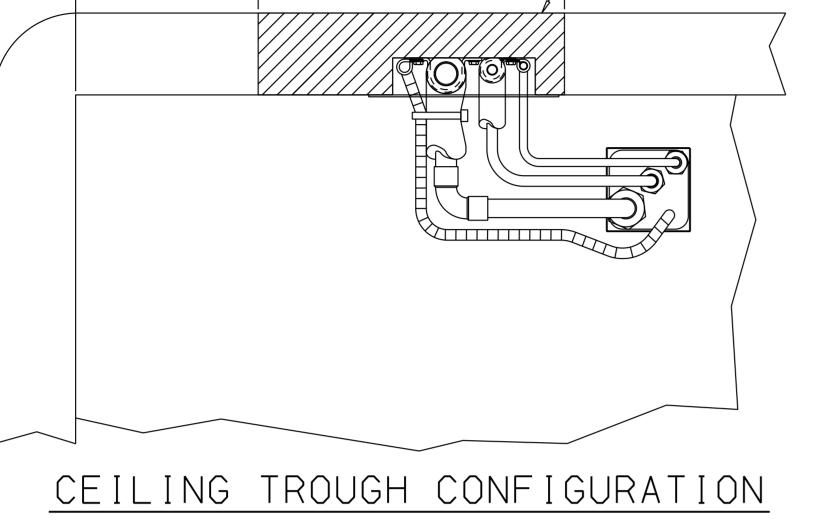
	ı		I	I	I	I	I
	В	MOVED VIEW F-F TO SHT.4; ADDED SYSTEM B VIEW & DIM'S.	5 SEPT 18	MGC			71N0251P
,	A	INITIAL RELEASE PER PCA71N232GP09	8 SEPT 09	MGC			71N232GP
S	ΥM	REVISION RECORD	DATE	ВҮ	ENGR.	M.E.	NPCA NO

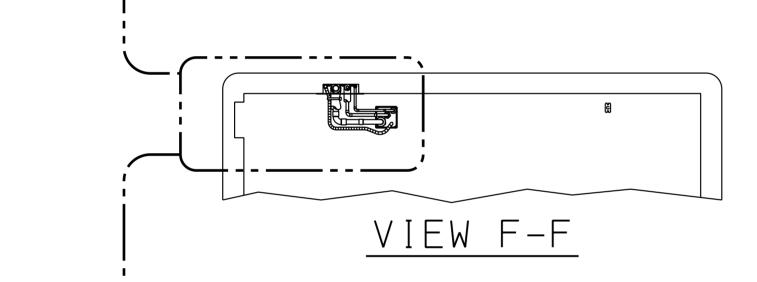
TITLE THIRD ANGLE PROJECTION

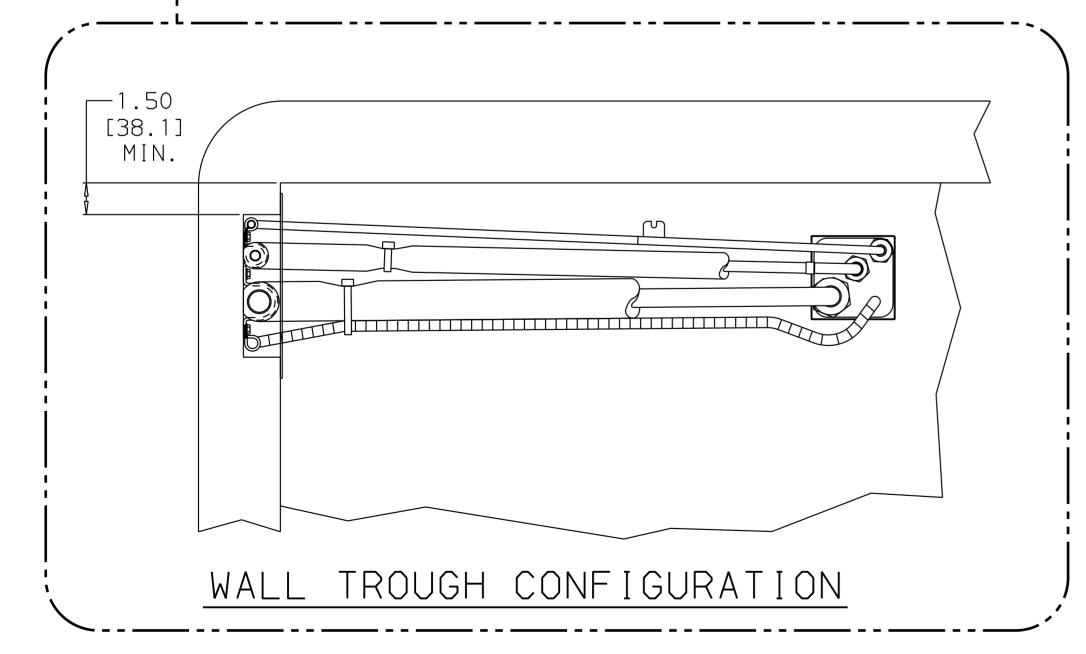
INSTALLATION INSTRUCTIONS MTD/MTS REMOTE EVAPORATORS

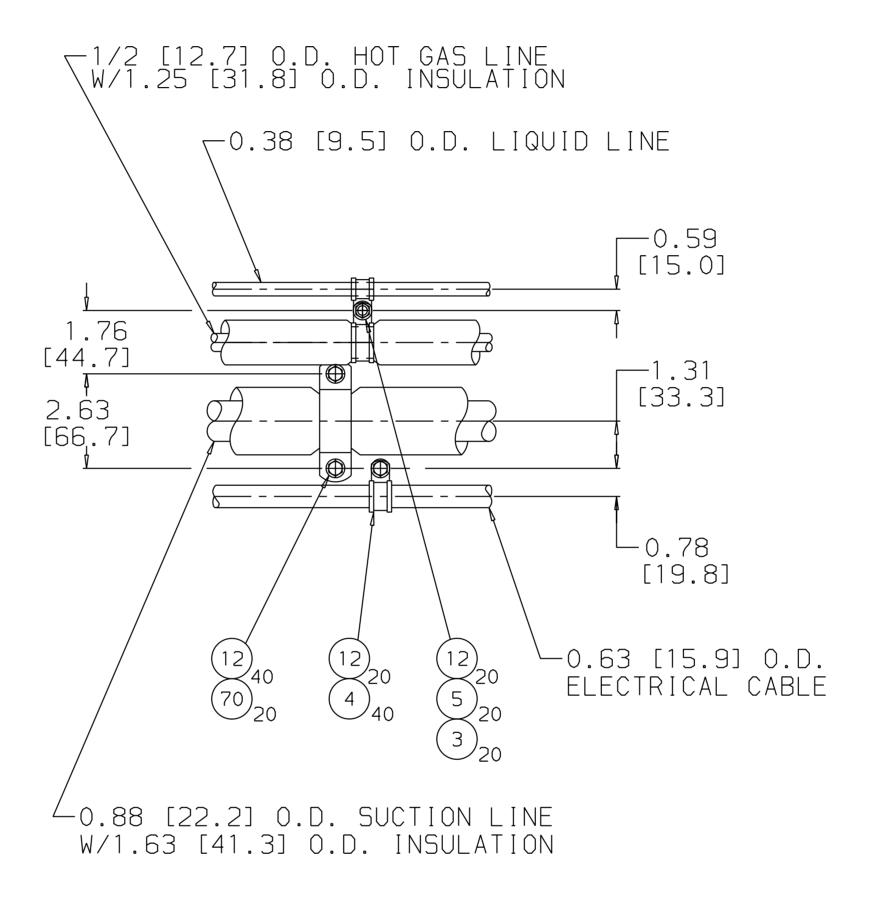
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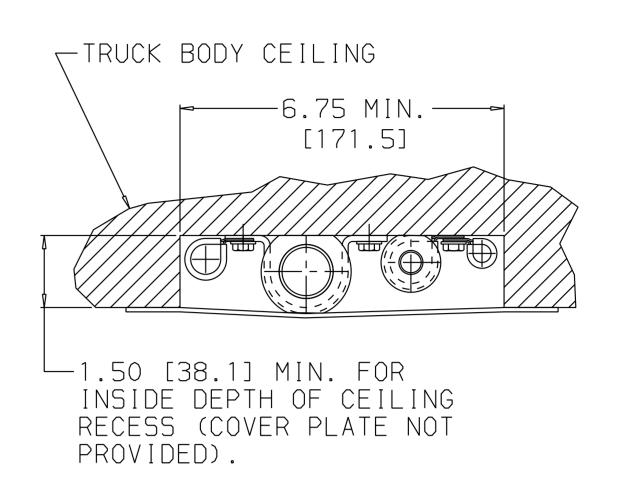




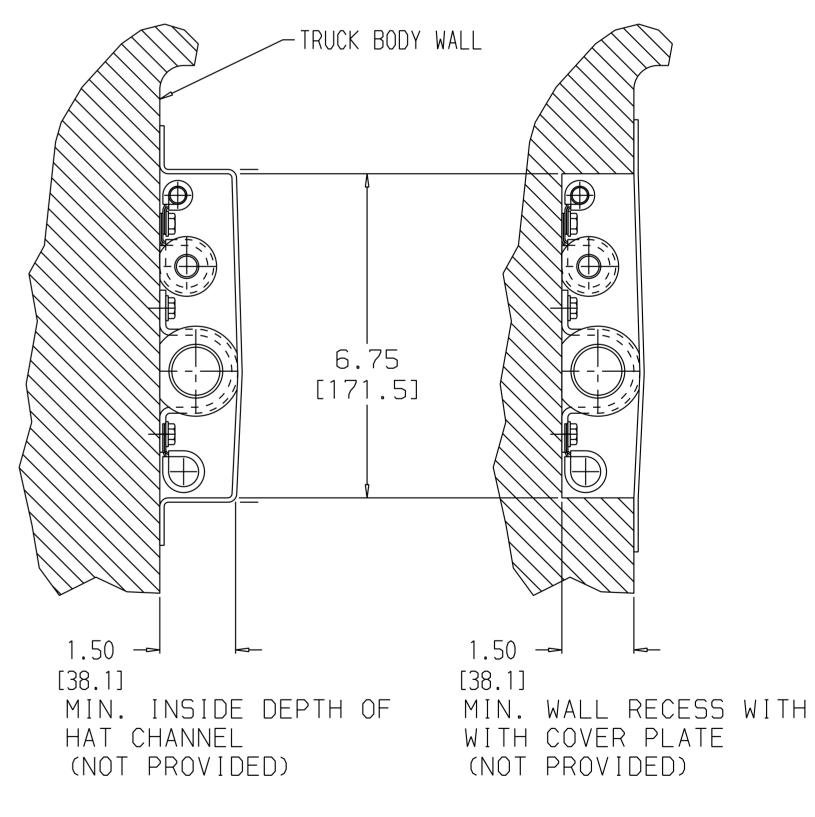


DETAIL "H"

CLAMP TUBES & CABLE SECURELY TO CEILING OR WALL AS REQUIRED TO PREVENT DAMAGE FROM VIBRATION SCALE: 0.38



CEILING ROUTING



OPTION A

OPTION B

WALL ROUTING

В	ADDED VIEW F-F; WAS SHOWN ON SHT.3	5 SEPT 18	MGC			71N0251P18
Α	INITIAL RELEASE PER PCA71N232GP09	8 SEPT 09	MGC			71N232GP09
SYM	REVISION RECORD	DATE	ВҮ	ENGR.	M.E.	NPCA NO.

TITLE THIRD ANGLE - PROJECTION

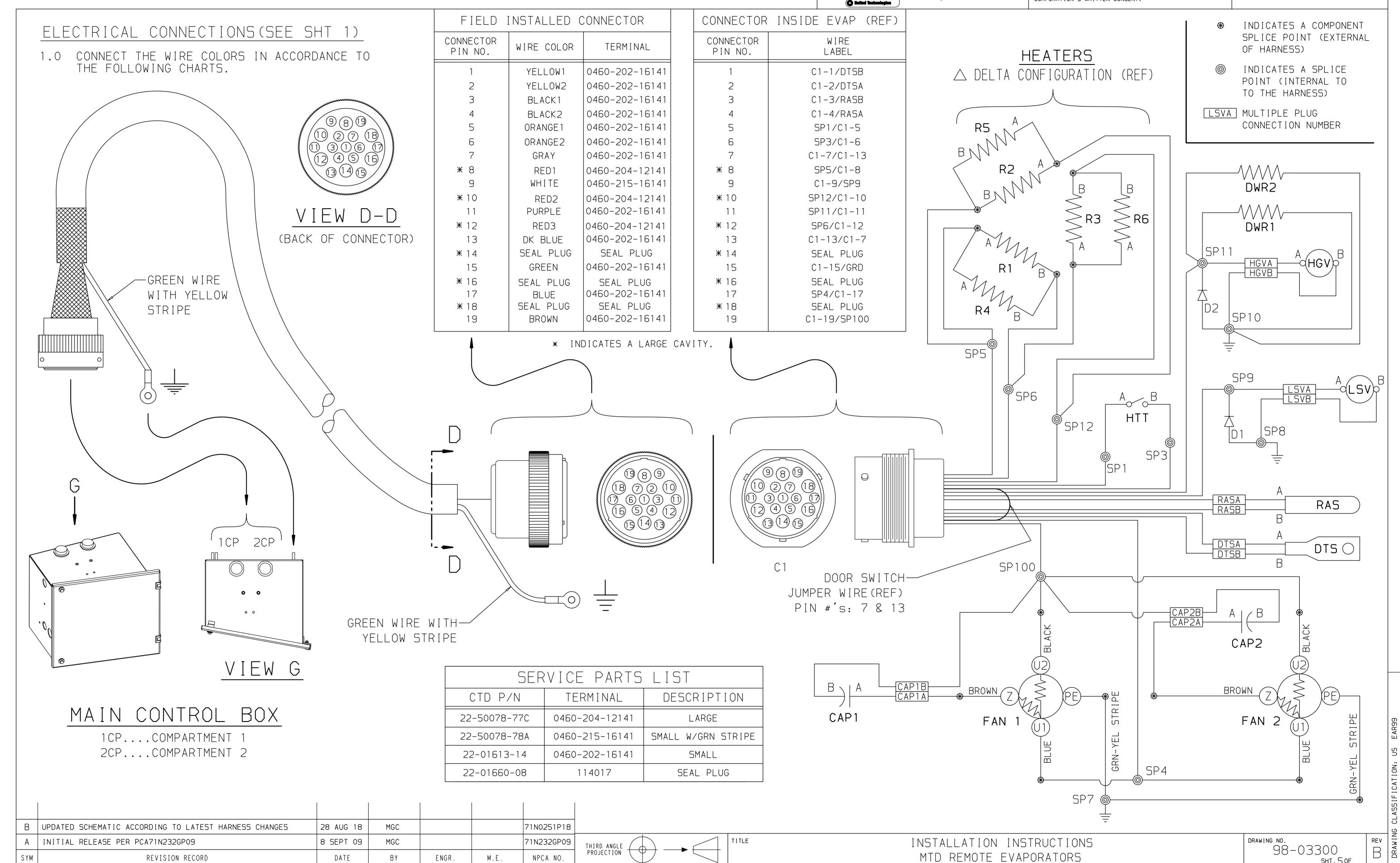
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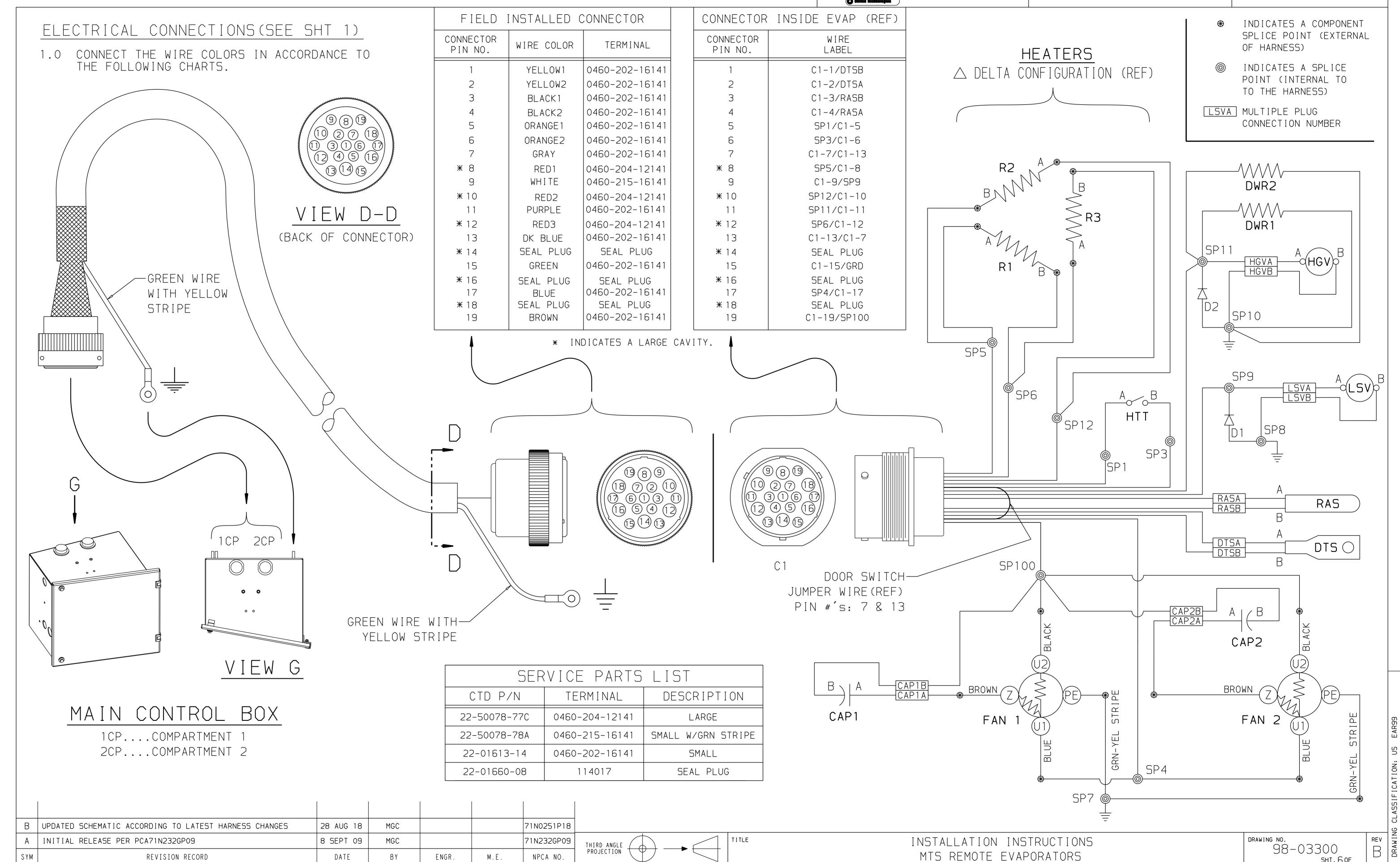


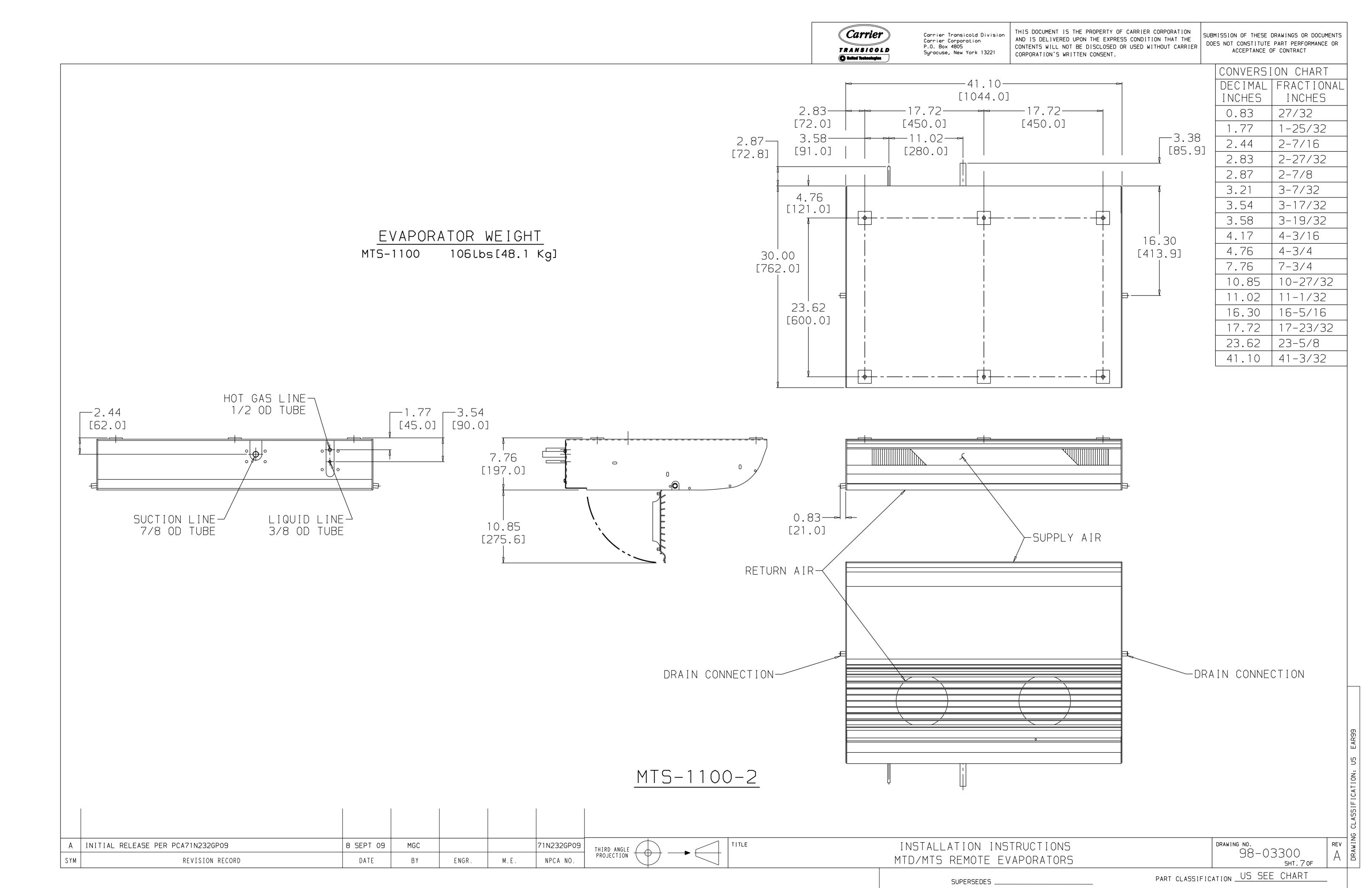
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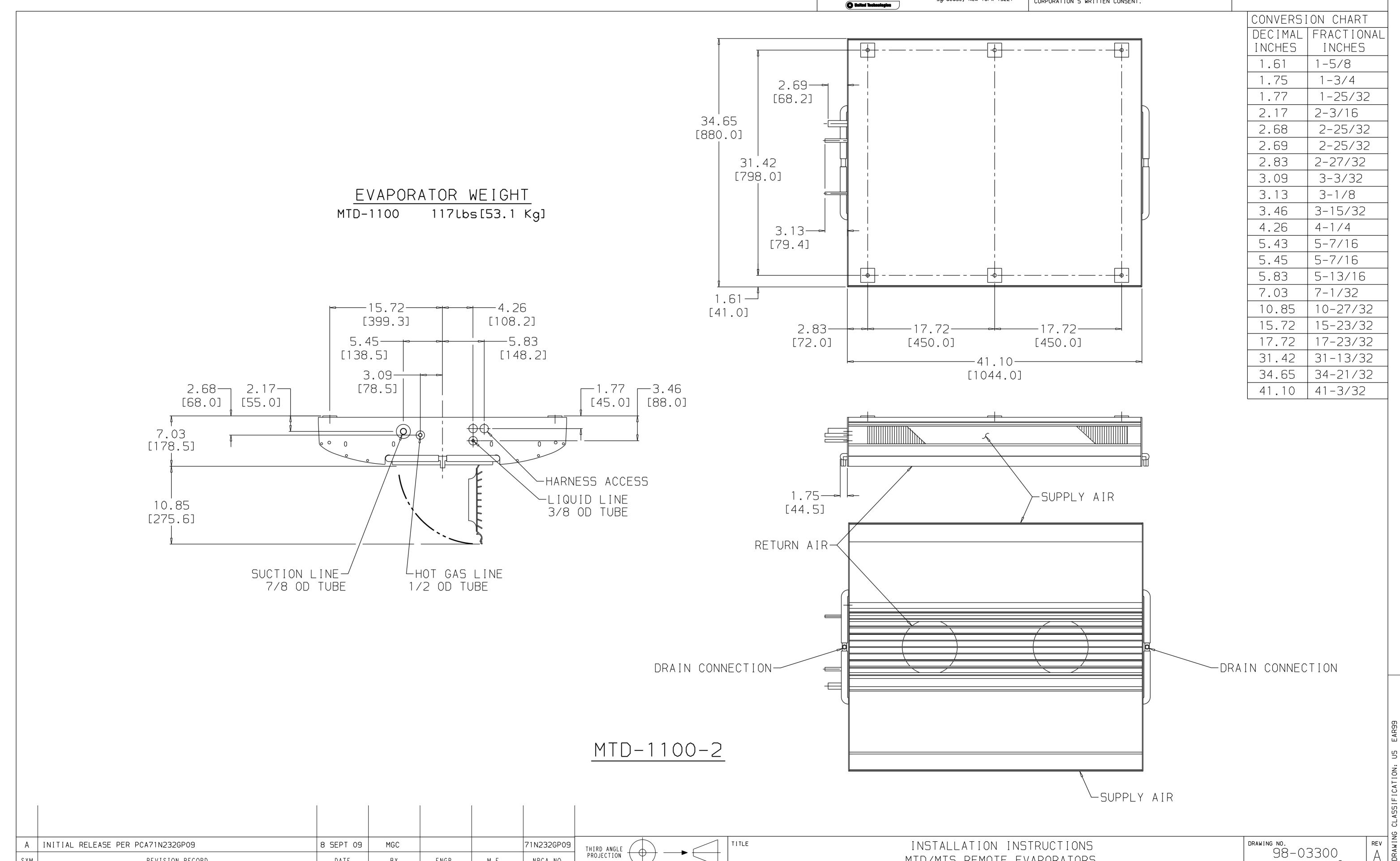
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THIRD ANGLE PROJECTION

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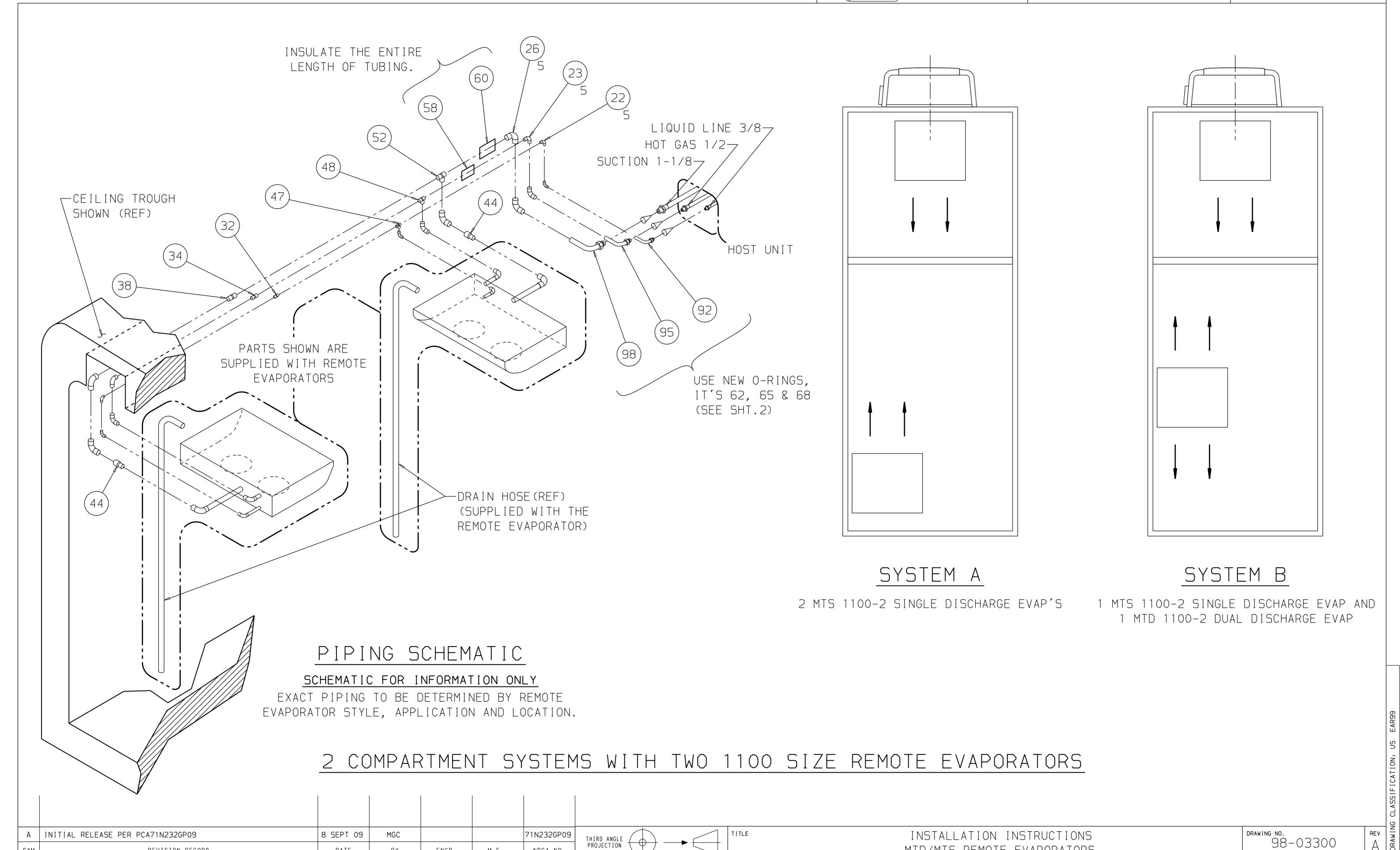
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MTD/MTS REMOTE EVAPORATORS

MTD/MTS REMOTE EVAPORATORS

SUPERSEDES ____

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THIRD ANGLE PROJECTION

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