NOTES:

1.0 COMPLETE INSTALLATION INCLUDES AND IS NOT LIMITED TO:
   1.1 UNIT INSTALLATION
   1.2 BATTERY INSTALLATION, INCLUDING DRAIN HOSE
   1.3 COMPLETION OF PRE-DELIVERY INSPECTION (PDI) PER MODEL
   1.3.1 UNIT PREP AND INITIAL ADJUSTMENTS
   1.3.2 CHECKLIST
   1.3.3 UNIT RUN IN PER PDI CHECKLIST
   1.3.4 WARRANTY REGISTRATION CARD SUBMITTAL
   1.3.5 PERFORM MICRO DATA DOWNLOAD
   1.4 DEFROST LINE ROUTING AND CLAMPING
   1.5 FUEL LINE CONNECTIONS TO UNIT

2.0 THE TRAILER OR BOXCAR STRUCTURE MUST BE EVALUATED BY THE TRAILER OR BOXCAR MANUFACTURER TO DETERMINE ITS ABILITY TO WITHSTAND THE LOADS IMPOSED BY THE UNIT OVER ITS SERVICE LIFE. CARRIER TRANSICOLD DOES NOT CONVEY ANY ENDORSEMENT OR WARRANTY FOR THE TRAILER'S OR BOXCAR'S STRUCTURAL INTEGRITY.

WEIGHTS:

X4 7300 REEFER UNIT (W/FLUIDS, LESS BATTERY): 1610 LBS
X4 7500 REEFER UNIT (W/FLUIDS, LESS BATTERY): 1620 LBS
X4 7300 REEFER UNIT W/EES (W/FLUIDS, LESS BATTERY): 1655 LBS
X4 7500 REEFER UNIT W/EES (W/FLUIDS, LESS BATTERY): 1665 LBS
BATTERY (TYPICAL): 80 LBS (MAX)

3.0 UNIT MOUNTING SURFACES OF THE TRAILER OR BOXCAR THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNI-PLANAR TO WITHIN 0.13 [3] TO PREVENT DISTORTION OF THE UNIT AND/OR TRAILER.

4.0 TRAILER OR BOXCAR SURFACES THAT CONTACT THE UNIT MOUNTING GASKET SHOULD NOT PROTRUDE MORE THAN 0.19 [5] ABOVE THE PLANE DEFINED BY THE MOUNTING PAD SURFACES TO ENSURE PROPER AIR SEAL.

5.0 ALL DIMENSIONS SHOWN ARE IN INCHES, WITH THE METRIC CONVERSIONS IN [MILLIMETERS].

6.0 PRE-DELIVERY INSPECTION AND WARRANTY REGISTRATION DOCUMENTS ARE SHIPPED WITH UNIT AND ARE LOCATED IN THE SIDE DOOR POCKET WITH UNIT MANUAL AND SCHEMATIC.

SEE SEPARATE PARTS LIST

CROSS REFERENCE INDEX

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UNIT INSTALLATION

PREPARE UNIT FOR INSTALLATION:

1.0 Prepare the body to receive the unit. Dimensions for evaporator opening and mounting stud locations can be found on Sheet 4 of this drawing.

2.0 Remove wire ties holding defrost drain hoses, coolant overflow tube, and air lines. Place lines where they will not be caught between the unit frame and the mounting surface.

3.0 Open side doors to allow access to mounting stud locations on unit.

4.0 Install battery according to instructions on Sheet 6. If unit has been supplied with battery, connect battery cables according to the instructions on Sheet 6.

5.0 Prepare the unit for lifting. Standing on a ladder or work stand, move lifting apparatus (lifting spreader bar) with sufficient capacity to support unit and battery. Through the lifting eyes, lift point should be centered over the unit.

UNIT INSTALLATION:

6.0 Raise the unit and install in the body opening. Ensure that all C-cut studs (where the mounting studs are located) and mounting studs are fully engaged in the unit frame. The lower center stud must be accessible for the proper location (serial number plate location) to activate warranty.

7.0 Install button plugs (Item 92) in unit frame where mounting studs are located and additional unused holes (see Note 9.0).

8.0 Route defrost drain hoses down the front of the trailer or boxcar and clamp to front wall using 2 clamps (Item 10) and thread forming screws (Item 20) for each drain hose. Cut hose to proper length (approximately 45 ft [13.7 m]). Above fifth-wheel plate on trailer, install the hose (Item 90) on the hoses.

9.0 Instructions for fuel line connection are supplied with the fuel tank kit. Instructions for light bar installation are included with the light bar kit.

AFTER INSTALLATION:

10.0 Perform pre-delivery inspection. Copies of completed checklist should be supplied to selling dealer and customer.

11.0 Operate unit in continuous run with rear doors open (manual mode). Refer to the pre-delivery inspection form supplied with unit for the recommended test run length of the unit. Final inspection on unit run-set of should be 180° and 20°.

12.0 Important: Prior to final delivery to customer, warranty registration must be completed. One copy should be provided to the customer. One copy of the dealer and the final copy must be in the carrier's file. In-service date must be stamped on the unit in the proper location (serial number plate to activate warranty coverage).

13.0 Optional bulkhead configuration: hole pattern or open area for return air flow must total at least 2.75 square feet (0.26 square meters). Hole pattern or open area must be sufficient to return air. Open area must not obstruct air passage openings. Perforated bulkheads that meet these requirements may be installed tight with floor.
ITEMS Supplied in Battery Kit
(Parts in POLY BAG and/or ATTACHED to Battery Tray)

UNITs Supplied with Battery INSTALLED

1.0 Cut Wire TIE(s) that Hold Battery cables to UNIT Frame.

2.0 Connect RED Battery cable to the Positive (+) Battery TERMINAL; Connect BLACK cable to Negative (-) Battery TERMINAL (USE of CorROSION INHIBITOR IS RECOMMENDED).

3.0 Position TERMINAL COVERS SUPPLIED with cables over terminals.

4.0 Install DRAIN HOSE (ITEM 6) to BARB on bottom of Battery TRAY using CLAMP (ITEM 5). Route and Clamp hose to UNIT DRAIN line using WIRE TIES (ITEM 55).

UNITs Supplied without Battery INSTALLED

1.0 Use the following INFORMATION to CORRECTLY Select the Battery performance needed for ReFRIGERATION units.

GROUP SIZE: GROUP 31
VENT LOCATION: SIDE VENT
VOLTS: 12 VOLTS DC
AMPERAGE: MINIMUM 700 COLD CRANKING AMPS @ 0°F
MINIMUM 545 COLD CRANKING AMPS @ -20°F

NOTE: WHEN SELECTING A SPECIFIC BRAND OF BATTERY, ALWAYS ENSURE THAT THE Battery CHOSEN IS RATED AT 0°F (0 DEGREES FAHRENHEIT) AND NOT 0°C (0 DEGREES CELSIUS).

FAILURE TO USE THE PROPER Battery SIZE WILL RESULT IN REDUCED Battery LIFE and a NO-START CONDITION.

2.0 Cut Wire TIE holding these PARTS in the Battery TRAY and remove PARTS. Place Battery in TRAY with NEGATIVE (-) TERMINAL TO the front of the UNIT and install CURBSIDE L-BRACKET and BOLT. Connect Battery cables (the use of a CorROSION INHIBITOR on the TERMINALS IS RECOMMENDED); RED cable to POSITIVE (+) TERMINAL, BLACK cable TO the NEGATIVE (-) TERMINAL. cables SHOULD be RouteD as SHOWN. Verify Battery cables DO NOT CONTACT THE COMPRESSOR, SHARP EDGES, etc. TIGHTEN TERMINAL CONNECTORS SECURELY.

3.0 Lay hold-DOWN BRACKET over the top of Battery. Install J-BOLT hook into slot on L-BRACKETS and through slot on hold-DOWN BRACKET. Secure J-BOLT with WASHERS and NUTS as SHOWN. Securely TIGHTEN the NUTS to PREVENT MOVEMENT of the Battery.

4.0 Position TERMINAL COVERS SUPPLIED with cables over TERMINALS.

5.0 Install DRAIN HOSE (ITEM 6) to BARB on bottom of Battery TRAY using CLAMP (ITEM 5). Route and Clamp hose to UNIT DRAIN line using WIRE TIES (ITEM 55).
TRANSMISSION & CHUTE DETAILS

NOTE: BULKHEAD AND AIR CHUTE SHOWN ARE OPTIONAL FEATURES. FOR BEST AIR CIRCULATION AND PRODUCT PROTECTION, CARRIER TRANSCOLD HIGHLY RECOMMENDS THE USE OF BULKHEADS AND AIR CHUTES. CONTACT YOUR DEALER OR CARRIER TRANSCOLD FOR RECOMMENDATIONS.

SYM
REVISION RECORD
DATE
BY ENGR. M.E.
NPCA NO.
REV
DRAWING NO.
TITLE

HARD RECTANGULAR CHUTE MIN. DIMENSIONS

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SOFT CHUTE MINIMUM DIMENSIONS

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INSTALLATION INSTRUCTIONS

SCALE 0.100
SCALE 0.200

CHUTE REMOVED FOR CLARIFICATION OF TRANSITION

NOTE: BULKHEAD AND AIR CHUTE SHOWN ARE OPTIONAL FEATURES. FOR BEST AIR CIRCULATION AND PRODUCT PROTECTION, CARRIER TRANSCOLD HIGHLY RECOMMENDS THE USE OF BULKHEADS AND AIR CHUTES. CONTACT YOUR DEALER OR CARRIER TRANSCOLD FOR RECOMMENDATIONS.
NOTES:

1. INSTALL (5) MOUNTING ANGLES (ITEM #80), WITH RIVNUTED FLANGE DOWN, TO FRAME USING SUPPLIED SCREWS (ITEM #75).
TORQUE SCREWS TO 96 IN-LBS, KEEPING THE BOTTOM OF THE ANGLES FLUSH AND PARALLEL TO THE BOTTOM OF THE FRAME.

2. SLIDE (5) OPENINGS IN THE BOTTOM PANEL OVER THE (5) REAR MOUNTING ANGLES ON THE FRAME AND SECURE BOTTOM PANEL TO OTHER (5) MOUNTING ANGLES USING SUPPLIED SCREWS (ITEM #175). TORQUE SCREWS SECURELY TO 96 IN-LBS.

BOTTOM PANEL INSTALLATION

- OPENING FOR CONDENSATE DRAIN LINE AND OPTIONAL HARNESS CONNECTORS.
- OPENING FOR FUEL LINE ROUTING.