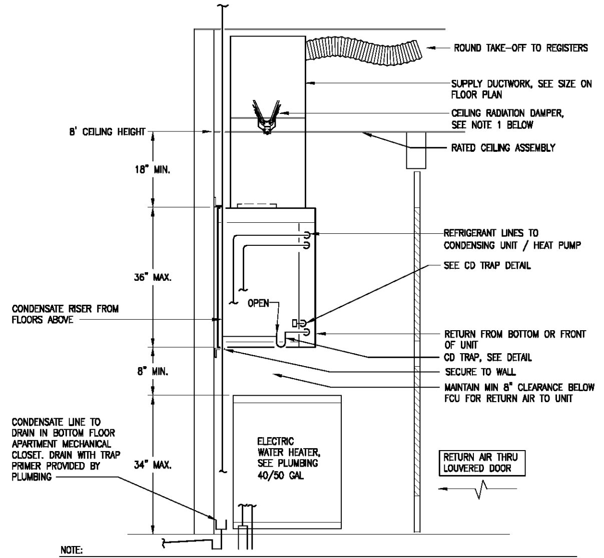
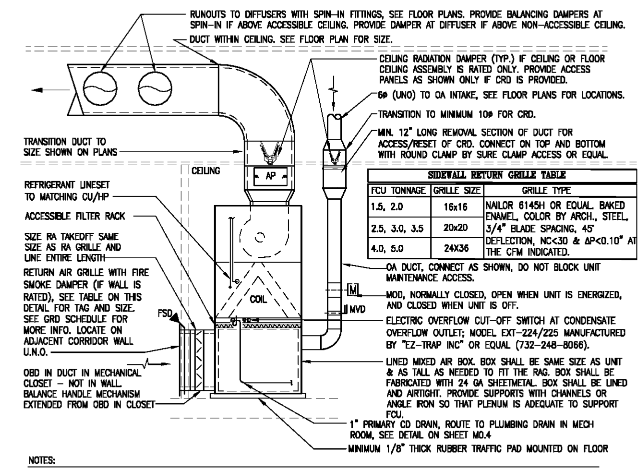


NOTE:
1. CEILING RADIATION DAMPER DAMPER SHALL BE UL 555C LISTED. DAMPER SHALL BE RECTANGULAR TO MATCH DUCT CONFIGURATION/SIZE AND SHALL OPERATE WITH A UL LISTED FUSIBLE LINK. PROVIDE DAMPER WITH INSULATION (UL LISTED) ON BACKSIDE OF DAMPER BLADE WHERE REQUIRED PER MANUFACTURER. DAMPER INSTALLATION AND APPLICATION SHALL BE PER MANUFACTURER'S INSTRUCTIONS AND APPROVAL. SEE INFORMATION AND REQUIREMENTS FOR CRD AT CRD DETAIL.
2. ALL COMPONENTS/MATERIALS (INCLUDING CONTROL WIRING) IN CLOSET SHALL BE PLENUM RATED (MEET ASTM E84 CRITERIA 25/50 FLAME/SMOKE DEVELOPED RATING OR LESS).
3. DOOR PROVIDED BY OTHERS (SEE ARCH). DOOR SHALL HAVE MIN 1.45 SF FREE AREA.
4. IF A COMBUSTIBLE DOOR IS USED, THEN THE INSIDE SURFACE OF DOOR SHALL BE PAINTED WITH A INTUMESCENT PAINT IN ORDER TO PROVIDE A 25/50 FLAME/SMOKE DEVELOPED RATING FOR PLENUM RATED CRITERIA (FIRE RETARDANTS, INC. BURN BARRIER NO. 10-10 OR EQUAL).
5. REFRIGERANT LINES SHALL BE ROUTED SUCH THAT LINES ARE TIGHT TO CLOSET WALLS IN ORDER TO ALLOW ADEQUATE CLEARANCE FOR WATER HEATER DRAIN PAN. DO NOT BLOCK FCU ACCESS OR FILTER PULL WITH REFRIGERANT LINE.
6. IF CEILING HEIGHT IS GREATER THAN 8FT, THE EXTRA HEIGHT ABOVE 8FT SHALL BE APPLIED TO THE DISTANCE BETWEEN THE FCU AND THE CEILING. (I.E. TO THE 18" SHOWN HERE)

1 APARTMENT FCU DETAIL - R.A THRU DOOR
Scale: None

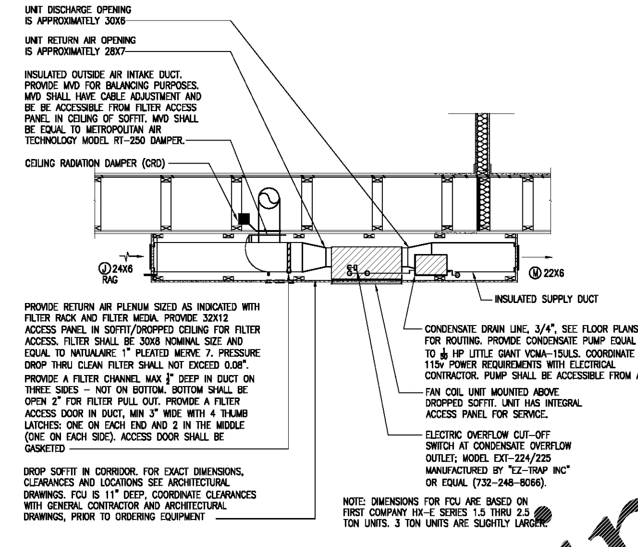


SIDEWALL RETURN GRILLE TABLE

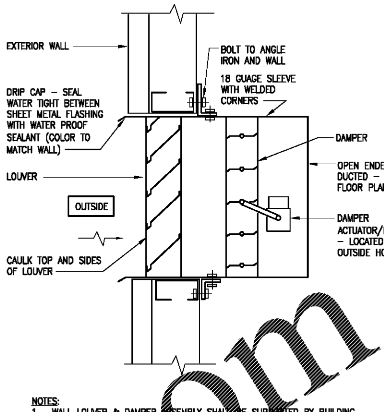
FCU TONNAGE	GRILLE SIZE	GRILLE TYPE
1.5, 2.0	16x16	NAILOR 6145H OR EQUAL. BAKED ENAMEL, COLOR BY ARCH., STEEL, 3/4" BLADE SPACING, 45° DEFLECTION, NC<30 & ΔP<0.10" AT THE CFM INDICATED.
2.5, 3.0, 3.5	20x20	
4.0, 5.0	24X36	

NOTES:
1. DUCT CONFIGURATION SHOWN IS GENERAL. CONFIGURE DUCT AS NEEDED TO ACCOMMODATE SPACE PROVIDED.
2. IF RADIUS ELBOW CANNOT BE USED, THEN PROVIDE RECTANGULAR ELBOW WITH TURNING VANES. (SUPPLY DUCT ONLY)
3. LINE SUPPLY DUCT FIRST 10 FEET FROM UNIT U.N.O.. LINE EXPOSED SPIRAL DUCT ENTIRE LENGTH AS SPECIFIED.
4. SUPPLY DUCT DISCHARGE ELBOW SHALL TURN IN THE DIRECTION OF FAN ROTATION.

2 COMMON AREA FCU DETAIL - SIDEWALL R.A.G.
Scale: None

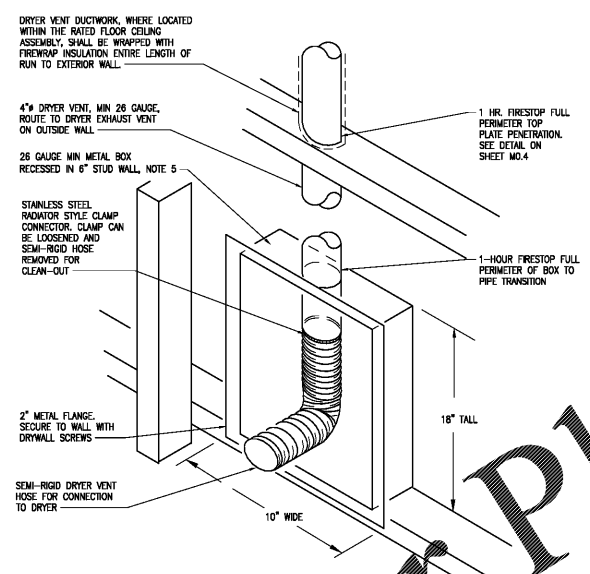


3 "PANCAKE" HORIZONTAL FCU DETAIL
Scale: None



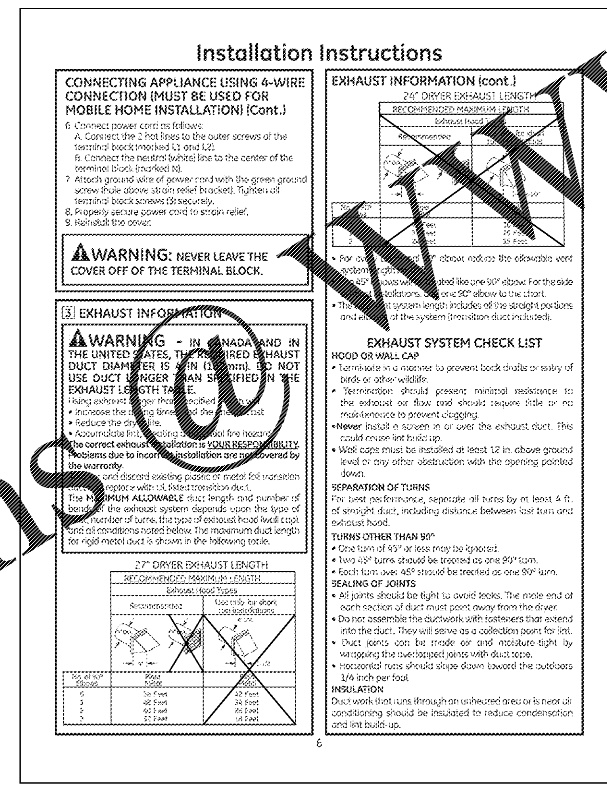
NOTES:
1. WALL LOUVER & DAMPER ASSEMBLY SHALL BE SUPPORTED BY BUILDING PROVIDER/MANUFACTURER. COORDINATE BETWEEN TRADES.
2. OPERATION OF DAMPER SHALL BE THRU ONE ACTUATOR.
3. CONTROL DAMPER SHALL HAVE THE FOLLOWING CHARACTERISTICS: EXTRUDED ALUMINUM BLADES AND FRAME, BLADES SHALL BE FLAT TYPE 0.125" THICK, BLADE EDGE SEALS SHALL BE NEOPRENE AND MECHANICALLY LOCKED IN EXTRUDED SLOTS (BLADE) SEALS SHALL BE DESIGNED FOR EASY REPLACEMENT IN THE FIELD), LINKAGE SHALL BE CONCEALED IN FRAME, BEARINGS SHALL BE NON-CORROSIVE MOLDED SYNTHETIC, PERFORMANCE DATA SHALL BE OBTAINED BY TESTING IN ACCORDANCE WITH AMCA STANDARD 500. PERFORMANCE: PRESSURE DROP SHALL NOT BE GREATER THAN 0.04" AT 1000 FPM AND LEAKAGE SHALL NOT BE GREATER THAN 3 CFM/SQ FT WITH A 1" STATIC PRESSURE CLOSED OVER A 18"x12" SIZE. DAMPER SHALL BE OPPOSED OR PARALLEL BLADE CONFIGURATION.
4. DAMPER SHALL BE NORMALLY CLOSED (FAIL CLOSED).

4 WALL LOUVER DETAIL
Scale: None



NOTES:
1. NON-RATED DRYER BOXES SHALL NOT BE INSTALLED IN A RATED WALL.
2. DRYER WALL BOXES WHICH ARE LOCATED IN RATED WALLS SHALL BE ALL METAL CONSTRUCTION EQUAL TO IN-O-VATE TECHNOLOGIES DRYER BOX MODEL #425.D
3. NON-RATED WALL BOXES MAY BE PREFABRICATED AND MADE OF PLASTIC.
4. DIMENSIONS OF BOX ARE APPROXIMATE.
5. MOUNT BOX SUCH THAT TRANSITIONAL DUCT MAY BE INSTALLED W/O BENDS.
6. FLEXIBLE DUCT CONNECTING DRYER TO DRYER WALL BOX SHALL BE TRIMMED TO PROPER LENGTH AND SHALL NOT BE COILED.

5 DRYER WALL BOX DETAIL
Scale: None


Installation Instructions

CONNECTING APPLIANCE USING 4-WIRE CONNECTION (MUST BE USED FOR MOBILE HOME INSTALLATION) (Cont.)
6. Connect power cord as follows:
A. Connect the 2 hot lines to the outer screws of the terminal block (marked L1 and L2).
B. Connect the neutral (white) line to the center of the terminal block (marked N).
7. Attach ground wire of power cord with the green ground screw (hole above strain relief bracket). Tighten all terminal block screws (3) securely.
8. Properly secure power cord to strain relief.
9. Reinstall the cover.

WARNING: NEVER LEAVE THE COVER OFF OF THE TERMINAL BLOCK.

3 EXHAUST INFORMATION

WARNING - IN CANADA AND IN THE UNITED STATES, THE REQUIRED EXHAUST DUCT DIAMETER IS 4 IN (102 mm). DO NOT USE DUCT LONGER THAN SPECIFIED IN THE EXHAUST LENGTH TABLE.
Using exhaust longer than specified length will:
• Increase the drying times and the energy cost.
• Reduce the dryer life.
• Accumulate lint, creating a potential fire hazard.
The correct exhaust installation is YOUR RESPONSIBILITY. Problems due to incorrect installation are not covered by the warranty.
[illegible] and discard existing plastic or metal foil transition duct; replace with UL listed transition duct.
The MAXIMUM ALLOWABLE duct length and number of bends of the exhaust system depends upon the type of duct, number of turns, the type of exhaust hood (wall cap) and all conditions noted below. The maximum duct length for rigid metal duct is shown in the following table.

27" DRYER EXHAUST LENGTH
RECOMMENDED MAXIMUM LENGTH
Exhaust Hood Types
Recommended | Use only for short run installations

EXHAUST INFORMATION (cont.)
24" DRYER EXHAUST LENGTH
RECOMMENDED MAXIMUM LENGTH
Exhaust Hood Types

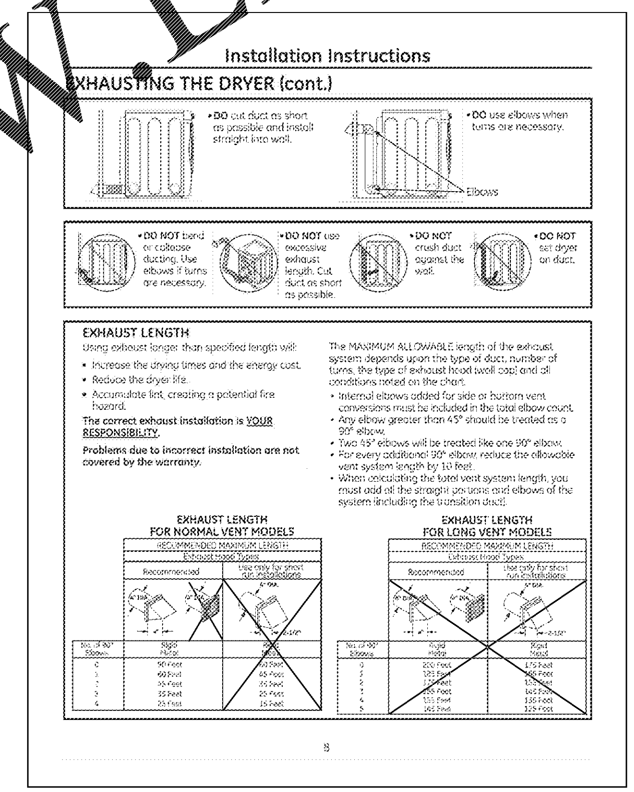
• For every additional 90° elbow, reduce the allowable vent system length [illegible].
• Two 45° elbows will be treated like one 90° elbow. For the side [illegible] installations, add one 90° elbow to the chart.
• The [illegible] system length includes all the straight portions and elbows of the system (transition duct included).

EXHAUST SYSTEM CHECK LIST
HOOD OR WALL CAP
• Terminate in a manner to prevent back drafts or entry of birds or other wildlife.
• Termination should present minimal resistance to the exhaust air flow and should require little or no maintenance to prevent clogging.
• Never install a screen in or over the exhaust duct. This could cause lint build-up.
• Wall caps must be installed at least 12 in. above ground level or any other obstruction with the opening pointed down.
SEPARATION OF TURNS
For best performance, separate all turns by at least 4 ft. of straight duct, including distance between last turn and exhaust hood.
TURNS OTHER THAN 90°
• One turn of 45° or less may be ignored.
• Two 45° turns should be treated as one 90° turn.
• Each turn over 45° should be treated as one 90° turn.
SEALING OF JOINTS
• All joints should be tight to avoid leaks. The male end of each section of duct must point away from the dryer.
• Do not assemble the ductwork with fasteners that extend into the duct. They will serve as a collection point for lint.
• Duct joints can be made air and moisture-tight by wrapping the overlapped joints with duct tape.
• Horizontal runs should slope down toward the outdoors 1/4 inch per foot.
INSULATION
Duct work that runs through an unheated area or is near air conditioning should be insulated to reduce condensation and lint build-up.

6

NOTES:
1. PROVIDE ALL DRYERS WITH A 4"ø HOODED CAP. DO NOT PROVIDE CAPS WITH BIRD CAGE, OR LOUVERED CAP.
2. SEE DRAWINGS M1.1 THROUGH M1.9 FOR SPECIFIC DRYER VENT LENGTHS FOR EACH APARTMENT UNIT TYPE.
3. THIS DRYER TO BE USED IN STACKED APPLICATIONS.

6 OWNER SPECIFIED STACKED DRYER - GUD24ESS
Scale: None


Installation Instructions

EXHAUSTING THE DRYER (cont.)
• DO cut duct as short as possible and install straight into wall.
• DO use elbows when turns are necessary.
Elbows
• DO NOT bend or collapse ducting. Use elbows if turns are necessary.
• DO NOT use excessive exhaust length. Cut duct as short as possible.
• DO NOT crush duct against the wall.
• DO NOT set dryer on duct.

EXHAUST LENGTH
Using exhaust longer than specified length will:
• Increase the drying times and the energy cost.
• Reduce the dryer life.
• Accumulate lint, creating a potential fire hazard.
The correct exhaust installation is YOUR RESPONSIBILITY.
Problems due to incorrect installation are not covered by the warranty.
The MAXIMUM ALLOWABLE length of the exhaust system depends upon the type of duct, number of turns, the type of exhaust hood (wall cap) and all conditions noted on the chart.
• Internal elbows added for side or bottom vent conversions must be included in the total elbow count.
• Any elbow greater than 45° should be treated as a 90° elbow.
• Two 45° elbows will be treated like one 90° elbow.
• For every additional 90° elbow, reduce the allowable vent system length by 10 feet.
• When calculating the total vent system length, you must add all the straight portions and elbows of the system (including the transition duct).

EXHAUST LENGTH FOR NORMAL VENT MODELS
RECOMMENDED MAXIMUM LENGTH
Exhaust Hood Types
Recommended | Use only for short run installations

EXHAUST LENGTH FOR LONG VENT MODELS
RECOMMENDED MAXIMUM LENGTH
Exhaust Hood Types
Recommended | Use only for short run installations

8

NOTES:
1. PROVIDE ALL DRYERS WITH A 4"ø HOODED CAP. DO NOT PROVIDE CAPS WITH BIRD CAGE, OR LOUVERED CAP.
2. SEE DRAWINGS M1.1 THROUGH M1.5 FOR SPECIFIC DRYER VENT LENGTHS FOR EACH APARTMENT UNIT TYPE.
3. THIS DRYER TO BE USED IN SIDE BY SIDE INSTALLATIONS.

7 OWNER SPECIFIED STAND ALONE DRYER - GFDN110E
Scale: None

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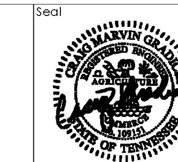
Seal


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Revisions

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ASI / RFI Revisions

No.	Date	Description

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in Chattanooga, Tennessee

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