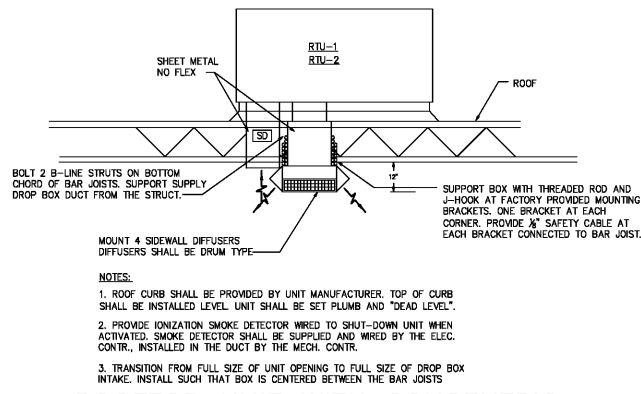


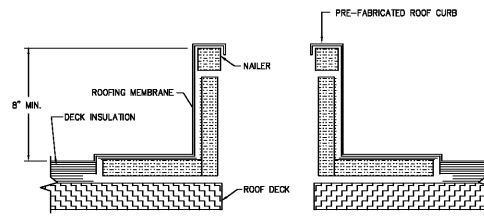
1 GAS FIRED ROOFTOP UNIT

- SCALE: NONE
- NOTES:
1. ROOF CURB SHALL BE PROVIDED BY UNIT MANUFACTURER. TOP OF CURB SHALL BE INSTALLED LEVEL. UNIT SHALL BE SET PLUMB AND "DEAD LEVEL".
 2. PROVIDE IONIZATION SMOKE DETECTOR WIRED TO SHUT-DOWN UNIT WHEN ACTIVATED. PROVIDE WITH CODE APPROVED TEST SWITCH FOR EACH DUCT DETECTOR. SEE RTU SCHEDULE FOR ADDITIONAL INFORMATION. SMOKE DETECTOR SHALL BE EQUAL TO CHEMTRON FIRE SYSTEMS (#7010109(G)), TYPE "AS" TO COMPLY WITH THE REQUIREMENTS OF NFPA 70A 2012 EDITION, SECTION 4.4 FOR SMOKE DETECTION AUTOMATIC CONTROL.
 3. PROVIDE OPENING IN ROOF SIZED FOR SUPPLY AND RETURN DUCTS. ALL OTHER AREAS UNDER UNIT SHALL HAVE ANGLES AND SHEET METAL WITH BATT INSULATION FILING VOID.



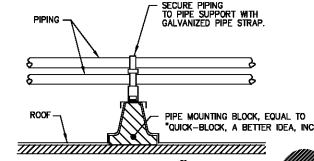
2 ROOFTOP UNIT WITH CONCENTRIC SUPPLY & RETURN DIFFUSERS

- SCALE: NONE
- NOTES:
1. ROOF CURB SHALL BE PROVIDED BY UNIT MANUFACTURER. TOP OF CURB SHALL BE INSTALLED LEVEL. UNIT SHALL BE SET PLUMB AND "DEAD LEVEL".
 2. PROVIDE IONIZATION SMOKE DETECTOR WIRED TO SHUT-DOWN UNIT WHEN ACTIVATED. SMOKE DETECTOR SHALL BE SUPPLIED AND WIRED BY THE ELEC. CONTR., INSTALLED IN THE DUCT BY THE MECH. CONTR.
 3. TRANSITION FROM FULL SIZE OF UNIT OPENING TO FULL SIZE OF DROP BOX INTAKE. INSTALL SUCH THAT BOX IS CENTERED BETWEEN THE BAR JOISTS.



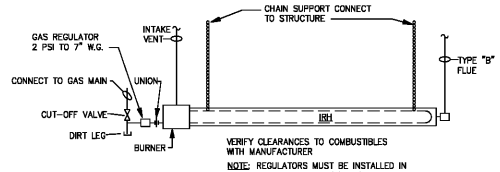
3 ROOF CURB DETAIL

- SCALE: NONE
- NOTES:
1. SEE ROOF CURB MANUFACTURER'S ENGINEERING DETAILS SHEET M-004 FOR PACKAGED ROOFTOP EQUIPMENT ATTACHMENT CRITERIA. THIS DETAIL IS SHOWN FOR GENERIC INFORMATION ONLY. MECHANICAL CONTRACTOR SHALL ADHERE TO CURB MANUFACTURER'S INSTALLATION GUIDELINES TO MEET WIND LOAD DESIGN CRITERIA FOR THIS GEOGRAPHICAL REGION.



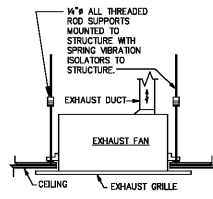
4 ROOF PIPING SUPPORT DETAIL

- SCALE: NONE
- NOTES:
1. PROVIDE PIPE SUPPORTS PER CODE.
 2. PROVIDE ADDITIONAL SUPPORTS AT EQUIPMENT TO PREVENT THE WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT.



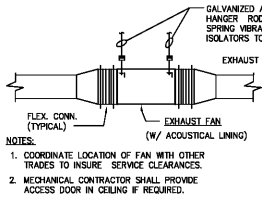
5 GAS FIRED INFRARED TUBE HEATER

- SCALE: NONE
- NOTES:
1. M.C. TO PROVIDE FIXED EXHAUST LOUVER. COORDINATE WITH G.C. & ARCHITECT.
 2. M.C. SHALL INSTALL FAN AT A MAXIMUM 14'-0" AFF.



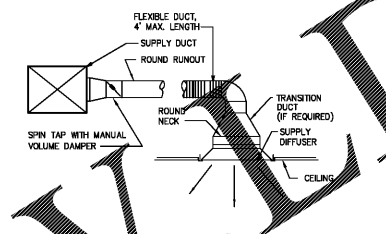
6 EXH. FAN DETAIL

- SCALE: NONE
- NOTES:
1. COORDINATE LOCATION OF FAN WITH OTHER TRADES TO INSURE SERVICE CLEARANCES.
 2. MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS DOOR IN CEILING IF REQUIRED.



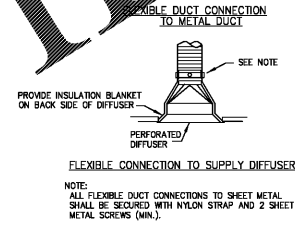
7 INLINE EXH. FAN DETAIL

- SCALE: NONE
- NOTES:
1. THE UNIT SHALL BE CONSTRUCTED FROM SCHEDULE 40 PVC PIPE WITH RUST RESISTANT COATING. FITTINGS CONSISTING OF TWO TEES & 90-DEGREE ELBS FOR INSPECTIONS, CLEANING, & NECESSARY FRAMING.
 2. THE 1" DIMENSION SHALL BE CONTINUED TO MAINTAIN A WATER COLUMN 1" OR GREATER THAN THE FAN OUTLET.



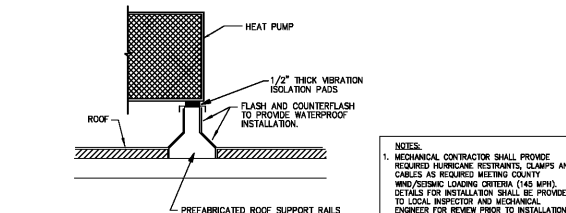
8 ROUND NECK DIFFUSER

- SCALE: NONE
- NOTES:
1. THE UNIT SHALL BE CONSTRUCTED FROM SCHEDULE 40 PVC PIPE WITH RUST RESISTANT COATING. FITTINGS CONSISTING OF TWO TEES & 90-DEGREE ELBS FOR INSPECTIONS, CLEANING, & NECESSARY FRAMING.
 2. THE 1" DIMENSION SHALL BE CONTINUED TO MAINTAIN A WATER COLUMN 1" OR GREATER THAN THE FAN OUTLET.



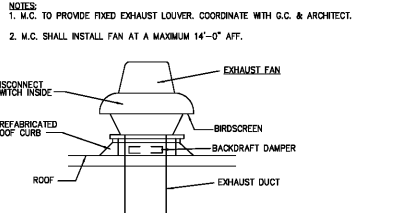
9 FLEX CONNECTION DETAIL

- SCALE: NONE
- NOTES:
1. ALL FLEXIBLE DUCT CONNECTIONS TO SHEET METAL SHALL BE SECURED WITH NYLON STRIP AND SHEET METAL SCREWS (MIN.).



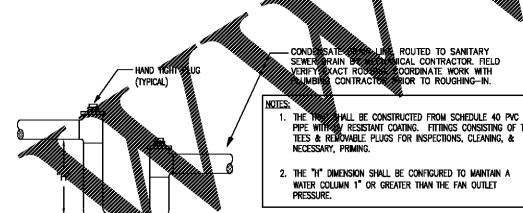
10 HEAT PUMP ON ROOF

- SCALE: NONE
- NOTES:
1. THE UNIT SHALL BE CONSTRUCTED FROM SCHEDULE 40 PVC PIPE WITH RUST RESISTANT COATING. FITTINGS CONSISTING OF TWO TEES & 90-DEGREE ELBS FOR INSPECTIONS, CLEANING, & NECESSARY FRAMING.
 2. THE 1" DIMENSION SHALL BE CONTINUED TO MAINTAIN A WATER COLUMN 1" OR GREATER THAN THE FAN OUTLET.



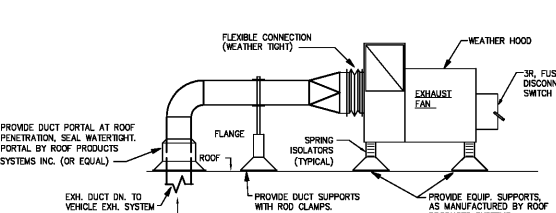
11 RTU CONDENSATE TRAP DETAIL

- SCALE: NONE
- NOTES:
1. THE UNIT SHALL BE CONSTRUCTED FROM SCHEDULE 40 PVC PIPE WITH RUST RESISTANT COATING. FITTINGS CONSISTING OF TWO TEES & 90-DEGREE ELBS FOR INSPECTIONS, CLEANING, & NECESSARY FRAMING.
 2. THE 1" DIMENSION SHALL BE CONTINUED TO MAINTAIN A WATER COLUMN 1" OR GREATER THAN THE FAN OUTLET.



12 EXH. FAN FOR VEHICLE EXH. SYSTEM

- SCALE: NONE
- NOTES:
1. ALL ROOF RAILS, THEIR ATTACHMENT TO STRUCTURE, & THE UNIT ATTACHMENT TO THE RAIL MUST BE EVALUATED FOR WIND LOADS. WIND STRESS RESTRAINTS IS REQUIRED. SEE WIND DRAMAING FORCE WIND & SEISMIC ASSESSMENT REPORT.
 2. ROOF RAIL MUST BE CONTINUOUSLY SUPPORTED BY A STRUCTURAL MEMBER.
 3. ATTACH UNIT TO ROOF RAIL PER SEISMIC AND/OR WIND LOADS REQUIREMENTS.
 4. ATTACH ROOF RAIL TO BUILDING STRUCTURE PER SEISMIC AND/OR WIND LOADS REQUIREMENTS.



13 SEISMIC/WIND BRACING DETAIL ROOF MOUNTED OUTDOOR UNIT

- SCALE: NONE
- NOTES:
1. ALL ROOF RAILS, THEIR ATTACHMENT TO STRUCTURE, & THE UNIT ATTACHMENT TO THE RAIL MUST BE EVALUATED FOR WIND LOADS. WIND STRESS RESTRAINTS IS REQUIRED. SEE WIND DRAMAING FORCE WIND & SEISMIC ASSESSMENT REPORT.
 2. ROOF RAIL MUST BE CONTINUOUSLY SUPPORTED BY A STRUCTURAL MEMBER.
 3. ATTACH UNIT TO ROOF RAIL PER SEISMIC AND/OR WIND LOADS REQUIREMENTS.
 4. ATTACH ROOF RAIL TO BUILDING STRUCTURE PER SEISMIC AND/OR WIND LOADS REQUIREMENTS.

Extreme Wind Condition Mounting Kit Installation Instructions
For Anchoring AC & HP Models from 1 - 5 tons

This kit is used to anchor Nordyne split-system, packaged air conditioning and heat pump instructions for installing anchors on split-system or packaged units are the same.

This anchor system is designed to meet the requirements of the Florida Building Code section 901.13 regarding the wind resistance and anchoring requirements for mechanical equipment in Florida hurricane zones. This kit will secure these units to an appropriate concrete base pad, metal pipe, or roof structure and withstand a maximum wind speed of 130 MPH or 3-second gusts to 150 MPH, or higher based on minimum concrete pad requirements.

KIT CONTENT
Base Mounting Bracket for models with metal base pan; Qty 4
Base Mounting Bracket for models with composite base pan; Qty 4
Tie-rod Concrete Screw #1/4" x 2'; Qty 4
Hex Head SM Screw #1/4" x 2'; Qty 4

Split-System AC and HP models

This kit has been updated to include four additional mounting brackets for use on units that have a composite base pan. These brackets can be used to secure the units to a concrete base pad, metal pipe, or roof structure and withstand a maximum wind speed of 130 MPH or 3-second gusts to 150 MPH, or higher based on minimum concrete pad requirements.

Installation procedure for installing this kit:
1. It is recommended that this kit be installed on a unit prior to installation of the unit and electrical work. The unit should be installed on a concrete base pad or roof structure and the unit should be secured to the structure. The unit should be secured to the structure by using the 2" diameter tie-rod concrete screws provided. The unit should be secured to the structure by using the 2" diameter tie-rod concrete screws provided. The unit should be secured to the structure by using the 2" diameter tie-rod concrete screws provided. The unit should be secured to the structure by using the 2" diameter tie-rod concrete screws provided.

Note: Fasteners used in the installation of this kit must be properly installed and completely secured in that the head of the fastener engages the bracket.

Extreme Wind Condition Mounting Kit Installation Instructions
For Anchoring Air Package AC/HP Units and Gas Pack Units on Pad or Directly on Roof or on Flooring

This kit is used to anchor large packaged AC/HP units and gas pack units on a pad or directly on a roof. Instructions for installing these anchors are given below.

This anchor system is designed to meet the requirements of the Florida Building Code section 901.13 regarding the wind resistance and anchoring requirements for mechanical equipment in Florida hurricane zones. This kit will secure these units to an appropriate concrete base pad or roof and withstand a maximum wind speed of 130 MPH or 3-second gusts to 150 MPH, or higher based on minimum concrete pad requirements are given below.

KIT CONTENT
Base Mounting Bracket; Qty 4
Tie-rod Concrete Screw 1/4" x 2'; Qty 4
Hex Head SM Screw #1/4" x 2'; Qty 4

Installation procedure for installing anchor kit:
1. It is recommended that this kit be installed on the unit prior to connecting electrical wiring and ducting. It may be installed later if necessary.
2. Position the unit on the concrete pad or roof and install the anchor brackets as illustrated below. The concrete screws provided may be used if the unit is being anchored to a concrete pad or roof and withstood a maximum wind speed of 130 MPH or 3-second gusts to 150 MPH, or higher based on minimum concrete pad requirements are given below.
3. Install two anchors on each of the side base rolls near the corners, as shown below. 4 total.

Note: Fasteners used in the installation of this kit must be properly installed and completely secured in such that the head of the fastener engages the bracket.

Extreme Wind Condition Mounting Kit Installation Instructions
For Anchoring Air Package AC/HP Units and Gas Pack Units on Pad or Directly on Roof or on Flooring

This kit is used to anchor large packaged AC/HP units and gas pack units on a pad or directly on a roof. Instructions for installing these anchors are given below.

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KIT CONTENT
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Tie-rod Concrete Screw 1/4" x 2'; Qty 4
Hex Head SM Screw #1/4" x 2'; Qty 4

Installation procedure for installing anchor kit:
1. It is recommended that this kit be installed on the unit prior to connecting electrical wiring and ducting. It may be installed later if necessary.
2. Position the unit on the concrete pad or roof and install the anchor brackets as illustrated below. The concrete screws provided may be used if the unit is being anchored to a concrete pad or roof and withstood a maximum wind speed of 130 MPH or 3-second gusts to 150 MPH, or higher based on minimum concrete pad requirements are given below.
3. Install two anchors on each of the side base rolls near the corners, as shown below. 4 total.

Note: Fasteners used in the installation of this kit must be properly installed and completely secured in such that the head of the fastener engages the bracket.

15 WIND RESISTANCE (HURRICANE BRACKETS) CU GROUND MOUNTED

- SCALE: NONE
- NOTES:
1. ALL ROOF RAILS, THEIR ATTACHMENT TO STRUCTURE, & THE UNIT ATTACHMENT TO THE RAIL MUST BE EVALUATED FOR WIND LOADS. WIND STRESS RESTRAINTS IS REQUIRED. SEE WIND DRAMAING FORCE WIND & SEISMIC ASSESSMENT REPORT.
 2. ROOF RAIL MUST BE CONTINUOUSLY SUPPORTED BY A STRUCTURAL MEMBER.
 3. ATTACH UNIT TO ROOF RAIL PER SEISMIC AND/OR WIND LOADS REQUIREMENTS.
 4. ATTACH ROOF RAIL TO BUILDING STRUCTURE PER SEISMIC AND/OR WIND LOADS REQUIREMENTS.

16 WIND RESISTANCE (HURRICANE BRACKETS) AC GROUND MOUNTED

- SCALE: NONE
- NOTES:
1. ALL ROOF RAILS, THEIR ATTACHMENT TO STRUCTURE, & THE UNIT ATTACHMENT TO THE RAIL MUST BE EVALUATED FOR WIND LOADS. WIND STRESS RESTRAINTS IS REQUIRED. SEE WIND DRAMAING FORCE WIND & SEISMIC ASSESSMENT REPORT.
 2. ROOF RAIL MUST BE CONTINUOUSLY SUPPORTED BY A STRUCTURAL MEMBER.
 3. ATTACH UNIT TO ROOF RAIL PER SEISMIC AND/OR WIND LOADS REQUIREMENTS.
 4. ATTACH ROOF RAIL TO BUILDING STRUCTURE PER SEISMIC AND/OR WIND LOADS REQUIREMENTS.

17 SEISMIC/WIND BRACING DETAIL ROOF MOUNTED OUTDOOR UNIT

- SCALE: NONE
- NOTES:
1. ALL ROOF RAILS, THEIR ATTACHMENT TO STRUCTURE, & THE UNIT ATTACHMENT TO THE RAIL MUST BE EVALUATED FOR WIND LOADS. WIND STRESS RESTRAINTS IS REQUIRED. SEE WIND DRAMAING FORCE WIND & SEISMIC ASSESSMENT REPORT.
 2. ROOF RAIL MUST BE CONTINUOUSLY SUPPORTED BY A STRUCTURAL MEMBER.
 3. ATTACH UNIT TO ROOF RAIL PER SEISMIC AND/OR WIND LOADS REQUIREMENTS.
 4. ATTACH ROOF RAIL TO BUILDING STRUCTURE PER SEISMIC AND/OR WIND LOADS REQUIREMENTS.



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NO.	DATE	DESCRIPTION

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PROFESSIONAL
DRAWN BY DRH
CHECKED BY MMS

MECHANICAL DETAILS
M-003