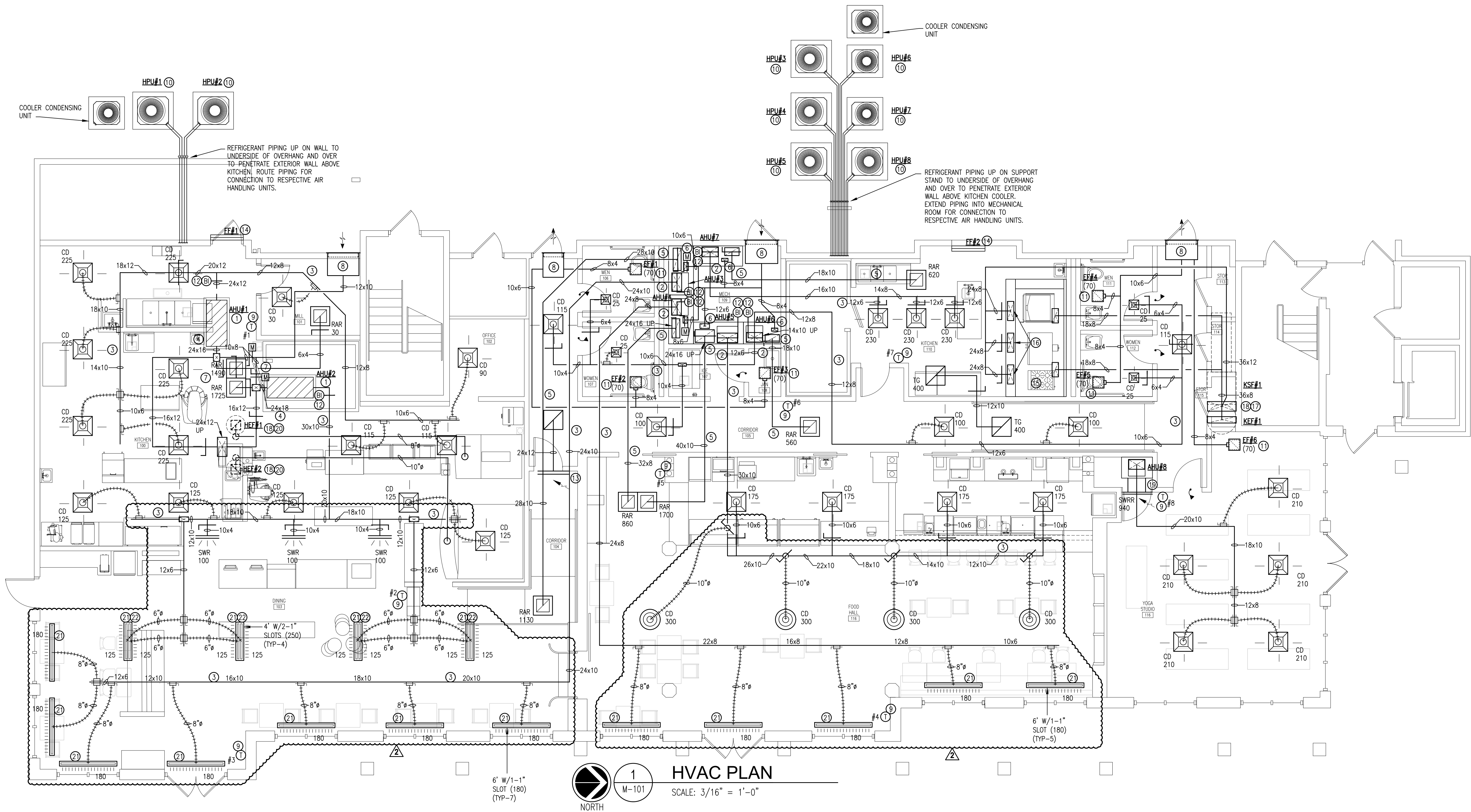


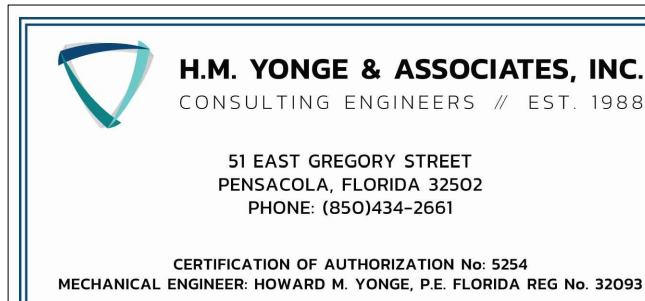


HVAC KEY NOTES

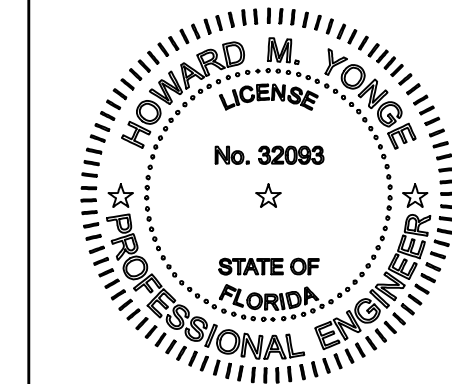
- AIR HANDLING UNIT SUSPENDED FROM STRUCTURE ABOVE MOUNTED IN HORIZONTAL POSITION INSIDE OF AN AUXILIARY DRAIN PAN. DRAIN PAN SHALL BE TWO INCHES LARGER THAN UNIT IN ALL DIRECTIONS. EXTEND FROM UNIT, FULL SIZE OF OPENING, A CONDENSATE DRAIN LINE. ROUTE DRAIN LINE FOR CONNECTION TO NEAREST PLUMBING VENT STACK. CONNECT CONDENSATE DRAIN WITH 1 INCH P-TRAP AND AIR GAP FITTINGS WITH TRAP GUARD. SUPPORT DRAIN PIPING EVERY 48 INCHES IN HORIZONTAL AND VERTICAL POSITION WITH UNISTRUT TYPE PIPE SUPPORT SYSTEM. COMPLETELY INSULATE ENTIRE LENGTH OF CONDENSATE DRAIN PIPING FROM UNIT TO FLOOR DRAIN. INCLUDE A FLOAT SWITCH IN DRAIN PAN AND IN P-TRAP OF DRAIN LINE. AS EITHER FLOAT SWITCH IS ACTIVATED THE UNIT SHALL AUTOMATICALLY SHUT DOWN.
- AIR HANDLING UNIT MOUNTED ON RETURN AIR PLENUM CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS. LINE INTERIOR OF PLENUM WITH 1 INCH THICK DUCT BOARD ON ALL SIX SIDES. COORDINATE FINAL LOCATION OF PLENUM WITH AREA FLOOR DRAIN TO REMAIN COMPLETELY ACCESSIBLE. EXTEND FROM FULL SIZE OF UNIT OPENING A CONDENSATE DRAIN WITH P-TRAP TO DISCHARGE INTO FLOOR DRAIN. INSULATE THE ENTIRE LENGTH OF DRAIN LINE AND SUPPORT EVERY 48 INCHES WITH UNISTRUT TYPE PIPE SUPPORT SYSTEM. INCLUDE IN P-TRAP A FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN UNIT AS DRAINAGE SYSTEM FLOODS.
- SUPPLY AIR DUCT SHALL BE EXTENDED FROM FULL SIZE OF AIR HANDLING UNIT OPENING WITH TRANSITION TO INDICATED DUCT SIZE. OFFSET DUCT TO AVOID OBSTRUCTIONS AND INTERFERENCES. CONNECT AIR DEVICES TO TRUNK DUCT WITH BRANCH DUCT HAVING A MANUAL VOLUME DAMPER. BALANCE AIR DEVICES TO INDICATED AIR FLOW.
- RETURN AIR DUCT SHALL BE EXTENDED FROM FULL SIZE OF AIR HANDLING UNIT OPENING AND TRANSITION TO INDICATED DUCT SIZE. OFFSET DUCT TO AVOID OBSTRUCTIONS AND INTERFERENCES. PROVIDE DAMPERS IN DUCT CONNECTING TO RETURN AIR DEVICES. BALANCE EACH AIR DEVICE TO THE INDICATED AIR FLOW.
- RETURN AIR DUCT WORK SHALL BE EXTENDED UP FROM RETURN AIR PLENUM TO ABOVE CEILING ELEVATION AND OVER GENERALLY AS INDICATED. OFFSET DUCTWORK TO AVOID OBSTRUCTIONS. EXTEND BRANCH DUCTS FOR CONNECTION OF EACH DESIGNATED AIR DEVICE. INCLUDE IN EACH BRANCH DUCT A MANUAL VOLUME DAMPER. BALANCE MANUAL VOLUME DAMPER TO INDICATED AIR FLOW.
- OUTDOOR AIR INTAKE DUCTWORK TO BE EXTENDED UP FROM PLENUM TO ABOVE CEILING ELEVATION AND OVER FOR CONNECTION TO PLENUM ON OUTDOOR AIR INTAKE LOUVER. INCLUDE IN DUCT, WITHIN 30 INCHES OF PLENUM, A MANUAL VOLUME DAMPER AND MOTORIZED DAMPER. BALANCE MANUAL VOLUME DAMPER TO DESIGNATED AIR FLOW AND INTERLOCK MOTORIZED DAMPER WITH TEMPERATURE CONTROLLER. PROGRAM CONTROLLER TO OPEN MOTORIZED DAMPER DURING OCCUPIED HOURS AND CLOSED OTHERWISE.
- OUTDOOR AIR INTAKE DUCTWORK TO BE EXTENDED FROM RETURN AIR SYSTEM FOR CONNECTION TO OUTDOOR AIR INTAKE PLENUM. INCLUDE A MANUAL VOLUME DAMPER AND MOTORIZED DAMPER IN OUTDOOR AIR INTAKE DUCT. BALANCE MANUAL VOLUME DAMPER TO INDICATED AIR FLOW. INTERLOCK MOTORIZED DAMPER WITH TEMPERATURE CONTROLLER SUCH THAT DAMPER SHALL BE OPEN DURING OCCUPIED HOURS AND, OTHERWISE, CLOSED. INCLUDE A MANUAL VOLUME DAMPER IN PE.
- EXISTING WALL MOUNTED LOUVER TO REMAIN. PROVIDE A FULL SIZE PLENUM BEHIND LOUVER FOR 12 INCHES FOR CONNECTION TO DESIGNATED DUCTWORK. COORDINATE LOCATION OF LOUVER WITH ARCHITECTURAL DRAWINGS PRIOR TO BEGINNING ANY WORK.
- WALL MOUNTED SET POINT ADJUSTABLE, ELECTRONIC/ELECTRIC TEMPERATURE CONTROLLER WITH DIGITAL DISPLAY, SEVEN DAY PROGRAMMABLE, MODE SELECTION, AUTOMATIC CHANGE OVER AND BATTERY BACK-UP. INCLUDE AUXILIARY CONTACTS FOR CONTROL OF MOTORIZED OUTDOOR AIR INTAKE DAMPER.

- OUTDOOR HEAT PUMP SECTION TO BE MOUNTED ON 4 INCH THICK CONCRETE PAD 6 INCHES LARGER THAN UNIT IN ALL DIRECTIONS. ROUTE REFRIGERANT PIPING FROM UNIT ABOVE GRADE OVER TO PIPING SUPPORT STRUCTURE AND UP TO AN ELEVATION OF UNDERSIDE OF OVERHANG. EXTEND PIPING THROUGH EXTERIOR WALL INTO BUILDING FOR CONNECTION TO RESPECTIVE AIR HANDLING UNIT. SUPPORT REFRIGERANT PIPING EVERY 48 INCHES IN VERTICAL AND HORIZONTAL POSITIONS WITH UNISTRUT TYPE PIPE SUPPORT SYSTEM. SEAL EXTERIOR WALL PENETRATION WEATHER AND RODENT PROOF.
- CEILING MOUNTED EXHAUST FAN WITH EXHAUST AIR DISCHARGE DUCTWORK ROUTED FOR CONNECTION TO DESIGNATED TRUNK DUCT OR PLENUM OF DISCHARGE AIR LOUVER. INTERLOCK CONTROL OF EXHAUST FAN AS SCHEDULED.
- AIR PURIFICATION DEVICE (BI-POLAR TYPE) TO BE INSTALLED IN SUPPLY AIR DUCT OR ON AIR HANDLING UNIT PER MANUFACTURER'S INSTRUCTIONS. INTERLOCK AIR PURIFICATION DEVICE WITH AIR HANDLING UNIT SUCH THAT AS UNIT IS OPERATING THE DEVICE SHALL BE FUNCTIONAL AND AS THE UNIT IS NOT OPERATING THE DEVICES SHALL NOT BE FUNCTIONAL.
- TRANSFER AIR DUCT WITH TRANSFER GRILLE AT ONE END AND SIDEWALL TRANSFER GRILLE AT OTHER END.
- FLY PAN TO BE INSTALLED OVER FULL LENGTH OF DOOR. FAN CONTROL SHALL BE FROM DOOR SWITCH SUCH THAT AS DOOR IS OPEN FAN SHALL BE OPERATING AND OTHERWISE FAN SHALL NOT BE OPERATING. MECHANICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION OF DOOR SWITCH.
- MECHANICAL CONTRACTOR TO COORDINATE INSTALLATION AND OPERATIONAL REQUIREMENTS WITH KITCHEN HOOD MANUFACTURER. INCLUDE TWO LAYERS OF 1 HOUR FIRE RATED DUCT WRAP INSULATION ON ENTIRE LENGTH OF EXHAUST DUCT FROM HOOD TO EXHAUST FAN CONNECTION. ADJUST EXHAUST AND MAKE-UP AIR FLOWS ACCORDINGLY. EXTEND EXHAUST DUCTS, AS COMPLETELY WELDED STEEL, UP FROM HOOD FOR CONNECTION TO EXHAUST AIR MANIFOLD. ADJUST DUCT SIZING TO MAINTAIN 1500 FPM VELOCITY. TURN EXHAUST DUCT UP IN CHASE FOR CONNECTION TO ROOF MOUNTED EXHAUST FAN. INSTALL EXHAUST HOOD AND EXHAUST FAN PER REQUIREMENTS OF NFPA AND DETAIL. REFERENCE FAN ASSEMBLY DETAIL FOR CONNECTION OF HOOD EXHAUST AND MAKE-UP AIR SYSTEMS.
- KITCHEN HOOD MAKE-UP AIR DUCT SHALL BE CONNECTED TO HOOD SUPPLY AIR PLENUM AND OVER TO TURN UP INTO DUCT CHASE TO ROOF MOUNTED MAKE-UP AIR FAN ASSEMBLY.
- ROOF MOUNTED KITCHEN HOOD COMBINATION MAKE-UP AIR AND EXHAUST AIR ASSEMBLY. EXTEND INTAKE AIR DUCT TO BE 10 FEET MINIMUM FROM ANY EXHAUST AIR AND PLUMBING VENT SYSTEMS. CONNECT EXHAUST AND MAKE-UP AIR DUCTS IN CHASE TO FAN ASSEMBLY. INCLUDE A FULL PERIMETER CURB WITH TRANSITION COLLAR TO SUPPORT ASSEMBLY. REFERENCE DETAIL FOR ADDITIONAL INFORMATION.
- ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO ROOF CURB AND ROOF CURB SECURED TO ROOF STRUCTURE WITH A MINIMUM OF TWO MECHANICAL FASTENERS PER SIDE WITH MAXIMUM SPACING OF 8 INCHES. MECHANICAL FASTENER SHALL BE 1/4" STAINLESS STEEL.
- WALL MOUNTED RETURN AIR REGISTER LOCATED LOW ON WALL INTO PLENUM BENEATH DOOR OF MECHANICAL CLOSET. MECHANICAL CONTRACTOR TO COORDINATE HEIGHT OF RETURN REGISTER AS 18 INCHES HIGH FOR DOOR INSTALLATION. BALANCE REGISTER WITH MANUAL VOLUME DAMPER TO DESIGNATED AIR FLOW. COORDINATE FINAL POSITION WITH ARCHITECTURAL DRAWINGS.
- OUTSIDE AIR UNIT AND HOOD EXHAUST FANS SHALL BE INTERLOCKED TO BE ON SIMULTANEOUSLY.

- CEILING MOUNTED LINEAR SLOT DIFFUSER WITH FULL SIZE SUPPLY AIR PLENUM. EXTEND FLEXIBLE BRANCH DUCTS FROM TRUNK DUCTS FOR CONNECTION TO SUPPLY AIR PLENUM. POSITION BRANCH DUCT CONNECTIONS TO TRUNK DUCT OVER OPEN CEILING AREA FOR ACCESS TO BALANCING DAMPER.
- LINEAR SLOT DIFFUSER SUSPENDED FROM STRUCTURE ABOVE IN OPEN CEILING AREA. ADJUST DISCHARGE OF DIFFUSER TO BE 2" BELOW BOTTOM OF ADJACENT ACOUSTICAL PANELS AND LIGHT FIXTURES.
- CEILING MOUNTED SUPPLY AIR DIFFUSER TO BE ROUND WITH 360° AIR FLOW PATTERN AND EQUAL TO TITUS TMR-AA. DIFFUSER NECK SIZE SHALL BE 10".



CERTIFICATION :



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