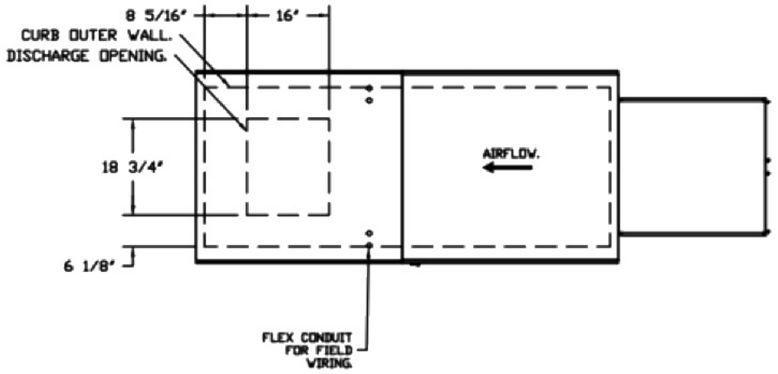
V2D.500-20D - GAS-FIRED MAKE-UP AIR UNIT

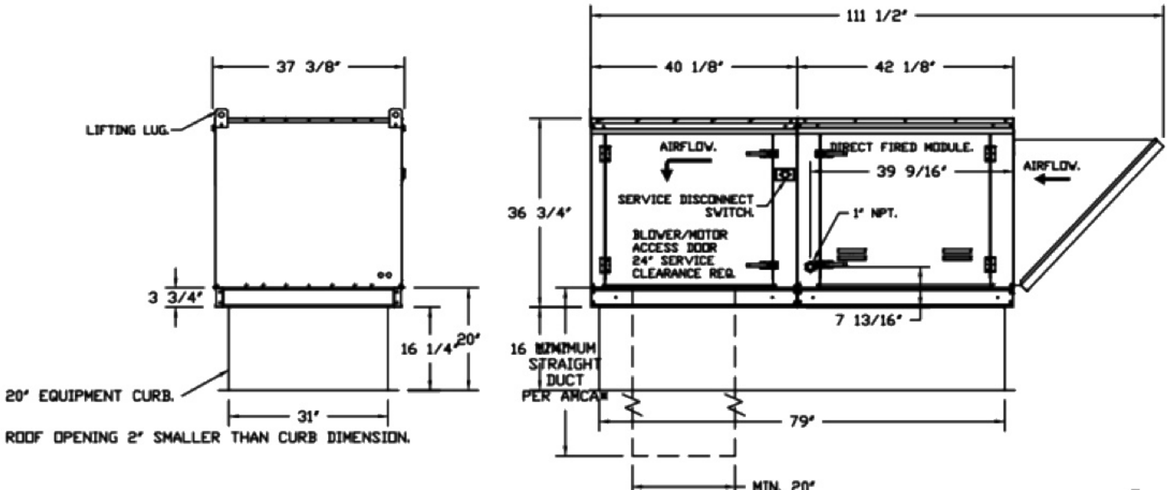
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN.
2. INTAKE HOOD WITH EZ FILTERS-LOW CFM.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
5. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.
6. PILOT LOCATED UPSTREAM OF FIRST REDUNDANT SOLENOID VALVE OF SIZE 1-3 MAX GAS PRESSURE OF 14" WC.
7. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LF120S ACTUATOR INCLUDED.
8. BURNER INTERLOCK INPUT. LOCKS OUT COOLING WHEN INTERLOCK IS ENERGIZED.
9. FIELD WIRED EXHAUST CONTACTOR AFTER AIRFLOW SWITCH. RATED 23 AMPS. STARTS UP TO (2) SINGLE PHASE MOTORS. 2HP MAX. 115V, 3HP MAX. 240V. STARTS ONE THREE PHASE MOTOR. 5HP MAX. 208V, 7.5HP 230V, 15HP MAX. 460V, 15HP MAX. 575V OR (4) DRY INTERLOCKS. OVERLOAD NOT INCLUDED.
10. EXHAUST (EXHAUST BY OTHERS) AND SUPPLY PROVING FOR COMMERCIAL MAKE UP AIR UNITS. INCLUDES TIMED RELAY (88867215 TIMER, SS70169-D BASE) AND CURRENT SENSOR. FACTORY SET TO DAMPER OPENING TIME PLUS 30 SECONDS.
11. FREEZESTAT FACTORY SET AT 35°F AND 10 MINUTES.
12. VAV (VARIABLE-AIR-VOLUME) WIRING PACKAGE FOR COMMERCIAL FANS. MANUAL SPEED CONTROL VARIABLE FREQUENCY DRIVE INCLUDED.
13. PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS.
14. VFD FACTORY MOUNTED AND WIRED IN UNIT CONTROL VESTIBULE.
15. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
16. 2 YEAR PARTS WARRANTY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 1°F. TEMP. RISE = 74°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 237171.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 257795.
OUTPUT BTUs AT ALTITUDE OF 643 FT. = 231712.
INPUT BTUs AT ALTITUDE OF 643 FT. = 251861.





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