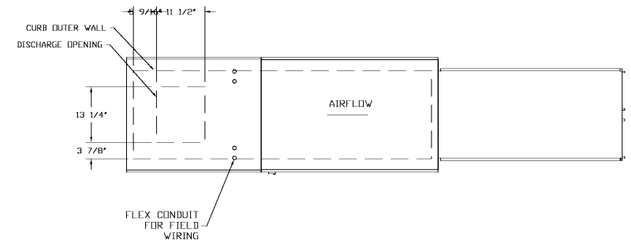
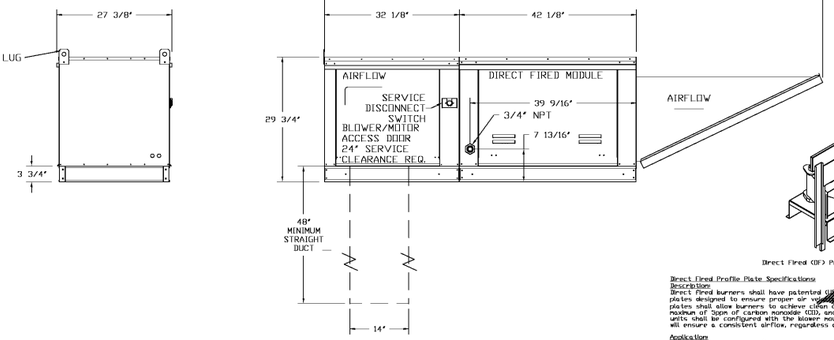
FAN #2 A1-D250-15B - HEATER
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" DIRECT DRIVE FAN
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
4. COOLING INTERLOCK RELAY. 24VAC COIL. 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
5. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TF810S ACTUATOR INCLUDED
6. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
7. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
8. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE
9. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.

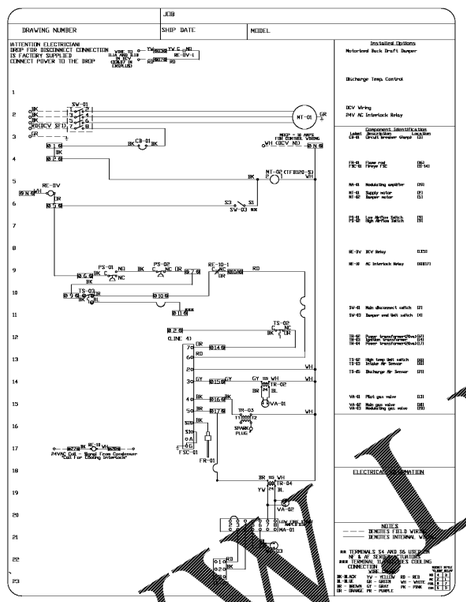
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE UNLESS OTHERWISE SPECIFIED. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14" x 48" LONG.

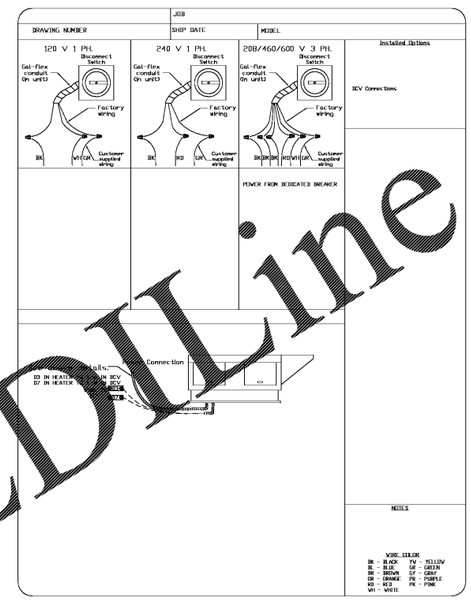
SUPPLY SIDE HEATER INFORMATION

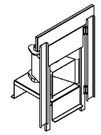
WINTER TEMPERATURE = 25°F. TEMP. RISE = 50°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY
OUTPUT BTUs AT ALTITUDE OF 0.0 Ft. = 83437
INPUT BTUs AT ALTITUDE OF 0.0 Ft. = 90693
OUTPUT BTUs AT ALTITUDE OF 394 Ft. = 80256
INPUT BTUs AT ALTITUDE OF 394 Ft. = 89409











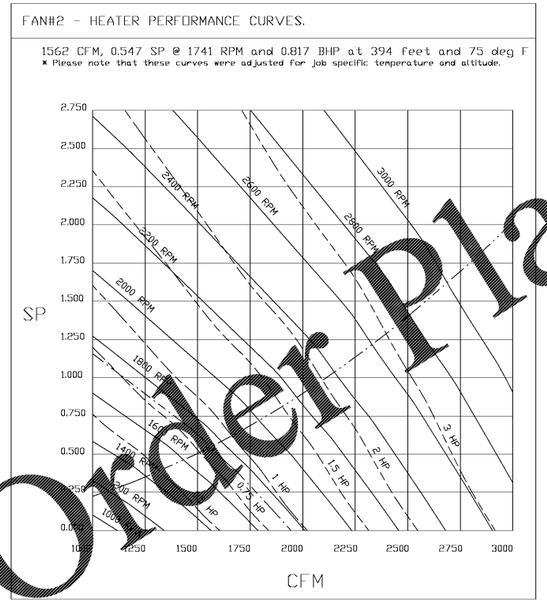
Direct Fired (DF) Profile Plate Assembly

Direct Fired Profile Plate Specifications
Description:
Direct fired burners shall have patented (Patent No US6644961) self-cleaning profile plates designed to ensure proper air velocity and pressure drop across the burner. Profile plates shall allow burners to achieve clean combustion by limiting carbon monoxide to a maximum of 30ppm of carbon monoxide (CO), and 5ppm of nitrogen oxides (NOx). Direct fired units shall be configured with the blower mounted upstream of the burner. This arrangement will ensure a consistent airflow, regardless of internal pressure loss.

Applications:
Spring-loaded burner profile plates are engineered to automatically react to the momentum of a fresh air stream without the need for any motors or actuators to mechanically adjust them. With this feature, DF heaters are designed for demand controlled ventilation (DCV) requirements.

Certification:
All profile plate assemblies shall be included in the DF unit's ETL listing and comply with combined safety standards ANSI Z83.4 and CSA 3.7 (non-recirculating DF heaters) and ANSI Z83.18 (recirculating DF heaters).

General Construction:
- Profile plates shall be formed from 16ga galvanized steel.
- Profile plates shall vary in size per unit.
- Profile plates shall be mounted along the same plane as the discharge of the burner.
- Design shall incorporate properly grouped permanently mounted spring hangers.
- Spring hangers shall be made from coated steel.



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FOR REFERENCE ONLY

MOE'S SOUTHWEST GRILL
3732 US HWY 280
PHENIX CITY, AL 36867

MECHANICAL HOOD DRAWINGS

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BRAND REVIEW	--/--/----
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BID	--/--/----
CONSTRUCTION	--/--/----
RECORDED	--/--/----

PROJECT MANAGER	DESIGNER
JB	DTI

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