MUA FAN INFORMATION – Job#3103871

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES	BURNER EFFICIENCY(%)
1		A1-D.250-G10	G10	A1-D.250	2912	0.450	1308	2.000	1.8720	3	208	5.9	597	27	92

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	TAG	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
1		185925	171051	55 deg F	7 in. w.c. – 14 in. w.c.	Natural

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. – Descr.)
1		1 – Motorized Backdraft Damper for A1-D Housing
		1 – AC Interlock Relay – 24VAC Coil
		1 – Low Fire Start
		1 – Inlet Pressure Gauge, 0-35"
		1 – Manifold Pressure Gauge, -5 to 15" wc

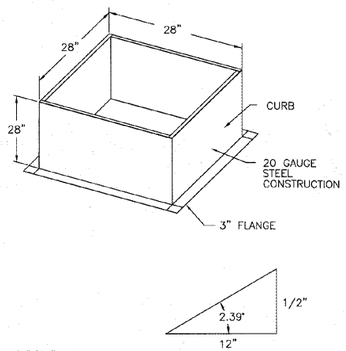
FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1							YES	

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	63 LBS	Curb	21.000"W x 71.000"L x 20.000"H 0.500:12.000 Pitch Along Width, Right Insulated
2		83 LBS	Curb	28.000"W x 28.000"L x 28.000"H 0.500:12.000 Pitch

CURB #2 HRE28X28E

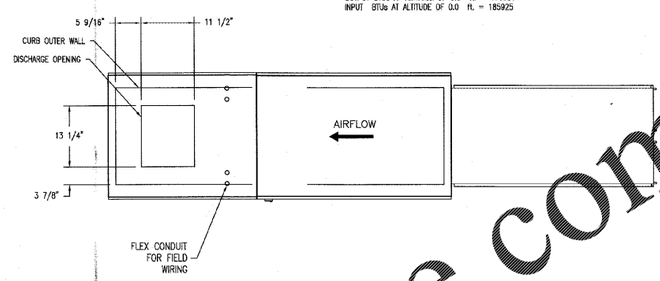


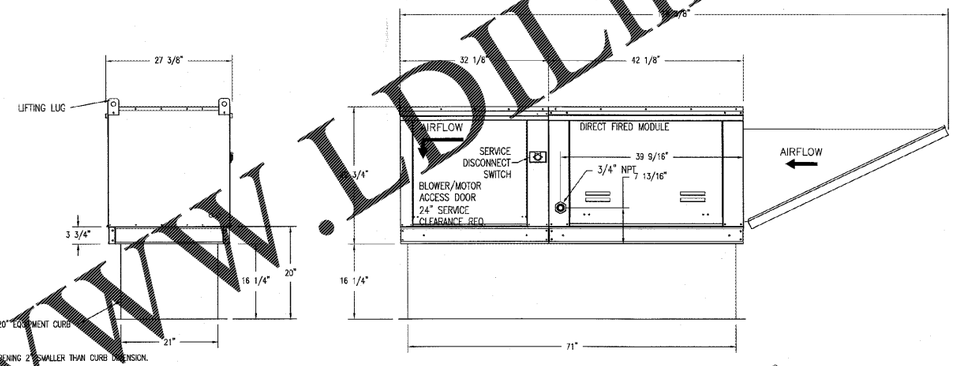
1/2"/12" PITCH = 2.39" SLOPE

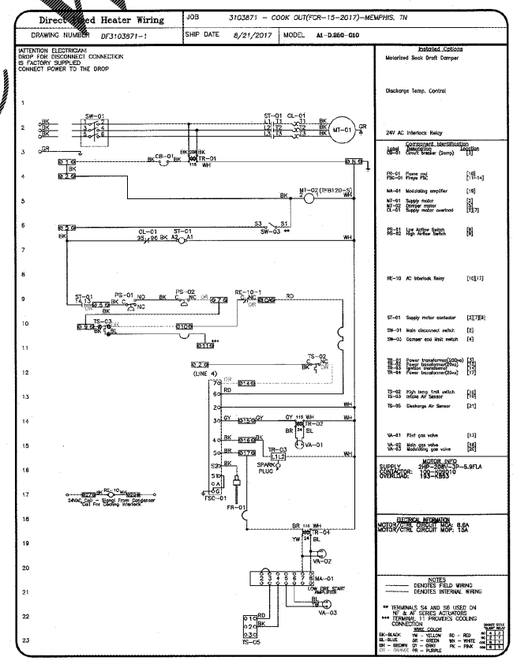
FAN #1 A1-D.250-G10 – HEATER
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 10" BLOWER
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE – AIR FLOW RIGHT –> LEFT
4. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER AND UNTEMPERED UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" HEAVY FLANGE, TFB120S ACTUATOR INCLUDED
5. COOLING INTERLOCK RELAY. 24VAC COIL. 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
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

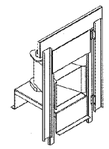
SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 20°F. TEMP. RISE = 55°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY
OUTPUT BTUs AT ALTITUDE OF 0.0 ft. = 171051
INPUT BTUs AT ALTITUDE OF 0.0 ft. = 185925









Direct Fired (DF) Profile Plate Assembly

Direct Fired Profile Plate Specifications:
Description:
Direct fired burners shall have patented (US Patent No.: US6629532B2), self-adjusting 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 by-product levels to a maximum of 5ppm of carbon monoxide (CO), and 0.35ppm of nitrogen dioxide (NO2).

Application:
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, all DF units are designed for demand control ventilation (DCV) requirements.

Certifications:
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 G90 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 torqued, permanently mounted spring hinges.
–Spring hinges shall be made from plated steel.

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REVISIONS

	DESCRIPTION	DATE:
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△		
△		
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PIEDMONT AREA OFFICE
495 BUCKHURST DR., KERNERSVILLE, NC, 27284 PHONE: (336) 996-8484 FAX: (919) 227-5952 EMAIL: reg30@captiveaire.com
www.captiveaire.com

COOK OUT(INSIDE WALL-2018)

DATE: 2/5/18

DWG.#: COOKOUT(P-IW-18)

DRAWN BY: LAG

SCALE: NTS

FANS

SHEET NO. 2