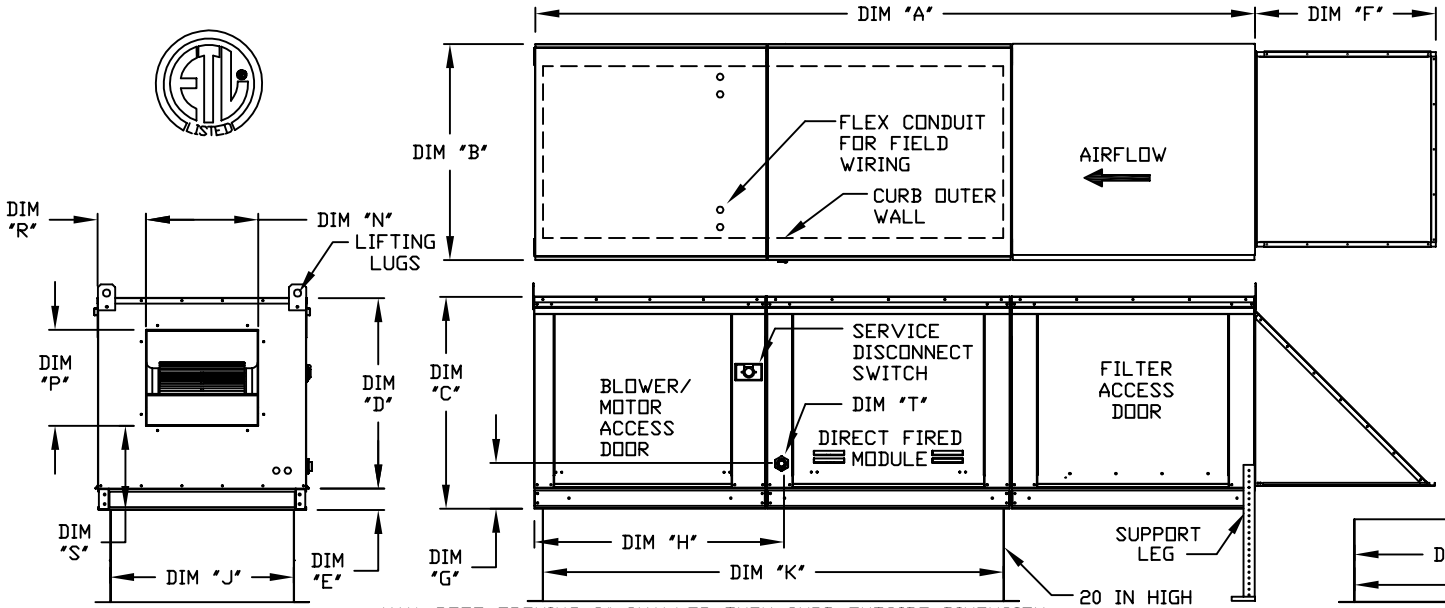
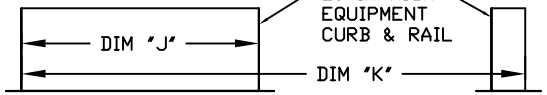
MODULAR OUTDOOR SIDE DISCHARGE DIRECT FIRED HEATER WITH 4" BANK AND SCREEN INTAKE

SIVBDF SAH
REV.#3 05/05/2015



MAX. ROOF OPENING 2" SMALLER THEN CURB OUTSIDE DIMENSION.



CURB/RAIL COMBINATION USED IN PLACE OF SINGLE CURB ON UNITS WITH 20" AND 25" BLOWERS

ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

		UNIT DIMENSIONS								CURB		DISCHARGE OPENING			
MODEL	WEIGHT	A	B	C	D	E	F	G	H	J	K	N	P	R	S
D.250-G10	670 LBS	106-5/8	27-3/8	29-3/4	26-1/16	3-3/4	22-3/8	7-13/16	34-13/16	21	71	13-1/4	11-1/2	6-3/8	11-7/8
D.500-G10	675 LBS	106-5/8	27-3/8	29-3/4	26-1/16	3-3/4	22-3/8	7-13/16	34-13/16	21	71	13-1/4	11-1/2	6-3/8	11-7/8
D.250-G15	945 LBS	114-5/8	37-3/8	36-3/4	33-1/16	3-3/4	30-5/16	7-13/16	42-13/16	31	79	18-3/4	16	8-5/8	14-1/16
D.500-G15	950 LBS	114-5/8	37-3/8	36-3/4	33-1/16	3-3/4	30-5/16	7-13/16	42-13/16	31	79	18-3/4	16	8-5/8	14-1/16
D.750-G15	955 LBS	114-5/8	37-3/8	36-3/4	33-1/16	3-3/4	30-5/16	7-13/16	42-13/16	31	79	18-3/4	16	8-5/8	14-1/16
D.500-G18	1095 LBS	125-5/8	41-3/8	43-3/8	38-1/16	5-1/4	34-3/16	9-1/2	47-13/16	35	84	22	19	9	17-7/8
D.750-G18	1100 LBS	125-5/8	41-3/8	43-3/8	38-1/16	5-1/4	34-3/16	9-1/2	47-13/16	35	84	22	19	9	17-7/8
D.1000-G18	1105 LBS	125-5/8	41-3/8	43-3/8	38-1/16	5-1/4	34-3/16	9-1/2	47-13/16	35	84	22	19	9	17-7/8
D.1000-920	1760 LBS	153-7/8	48-7/16	51-3/8	46-1/8	5-1/4	47-1/4	13-9/16	66-5/16	42	115-3/16	24-7/8	24-7/8	11-1/16	19-1/8
D.1500-920	1775 LBS	153-7/8	48-7/16	51-3/8	46-1/8	5-1/4	47-1/4	13-9/16	66-5/16	42	115-3/16	24-7/8	24-7/8	11-1/16	19-1/8
D.2000-925	2365 LBS	163-7/8	59-3/16	58-3/8	53-1/8	5-1/4	49-5/8	13-3/4	76-7/16	52-3/4	125-3/16	31-3/8	31-3/8	13-3/16	21-9/16
D.2500-925	2380 LBS	163-7/8	59-3/16	58-3/8	53-1/8	5-1/4	49-5/8	13-3/4	76-7/16	52-3/4	125-3/16	31-3/8	31-3/8	13-3/16	21-9/16

UNIT INFORMATION.

	BTU RANGE (MBH)			GAS PRESSURE		GAS CONNECTION	FILTERS	
MODEL	BURNER LENGTH	BTU LOW	BTU HIGH	MIN	MAX	"T" (NPT)	FILTER SIZE & QTY	MAX. FILTER VELOCITY
D.250-G10	6"	18	275	7" WC	14" WC	3/4	20"x25"x2" (3)	@3000 CFM = 348 FPM
D.500-G10	12"	18	550	7" WC	14" WC	3/4	20"x25"x2" (3)	@3000 CFM = 348 FPM
D.250-G15	6"	18	275	7" WC	14" WC	1	16"x20"x2" (8)	@6000 CFM = 428 FPM
D.500-G15	12"	18	550	7" WC	14" WC	1	16"x20"x2" (8)	@6000 CFM = 428 FPM
D.750-G15	18"	27.5	825	7" WC	14" WC	1	16"x20"x2" (8)	@6000 CFM = 428 FPM
D.500-G18	12"	18	550	7" WC	14" WC	1	20"x25"x2" (8)	@8000 CFM = 348 FPM
D.750-G18	18"	27.5	825	7" WC	14" WC	1	20"x25"x2" (8)	@8000 CFM = 348 FPM
D.1000-G18	24"	36.6	1100	7" WC	14" WC	1	20"x25"x2" (8)	@8000 CFM = 348 FPM
D.1000-920	24"	36.6	1100	7" WC	5 PSI	1-1/4	16"x20"x2" (15)	@13000 CFM = 495 FPM
D.1500-920	30"	45.8	1375	7" WC	5 PSI	1-1/4	16"x20"x2" (15)	@13000 CFM = 495 FPM
D.2000-925	48"	73.3	2200	7" WC	5 PSI	1-1/2	20"x25"x2" (12)	@21000 CFM = 609 FPM
D.2500-925	60"	91.6	2750	7" WC	5 PSI	1-1/2	20"x25"x2" (12)	@21000 CFM = 609 FPM

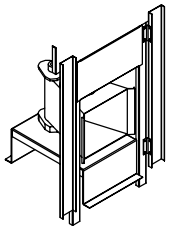
Direct Fired Profile Plate Specifications:

Description:
Direct fired burners shall have patented (US Patent No: US6629523B2), 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 0.5ppm 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.



Direct Fired (DF) Profile Plate Assembly