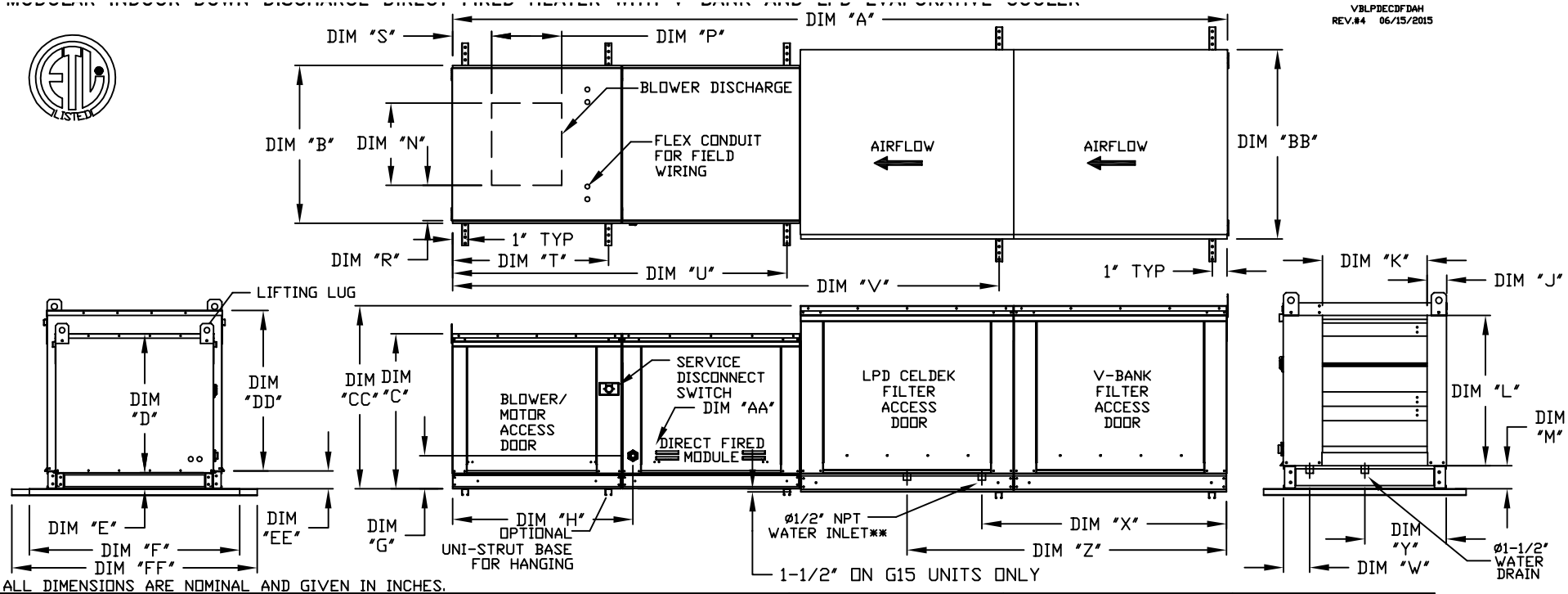
MODULAR INDOOR DOWN DISCHARGE DIRECT FIRED HEATER WITH V-BANK AND LPD EVAPORATIVE COOLER

VBLPDECDFDAH
REV.#4 06/15/2015



ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

	UNIT DIMENSIONS													INTAKE OPENING				DISCHARGE OPENING						
MODEL	A	B	BB	C	CC	D	DD	E	EE	F	FF	G	H	J	K	L	M	N	P	R	S	T	U	V
D.250-G10	138-7/8	27-3/8	36-3/4	29-3/4	36-3/4	26-1/16	33	3-3/4	3-3/4	36	48	7-13/16	34-13/16	5-1/8	24-3/4	28-7/8	5-3/4	13-1/4	11-1/2	6-3/8	7-1/4	31-1/8	73-1/4	105-3/8
D.500-G10	138-7/8	27-3/8	36-3/4	29-3/4	36-3/4	26-1/16	33	3-3/4	3-3/4	36	48	7-13/16	34-13/16	5-1/8	24-3/4	28-7/8	5-3/4	13-1/4	11-1/2	6-3/8	7-1/4	31-1/8	73-1/4	105-3/8
D.250-G15	158-7/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	48	60	7-13/16	42-13/16	4-5/8	29-1/4	33-7/8	7-1/2	18-3/4	16	8-5/8	10	39-1/8	81-1/4	119-3/8
D.500-G15	158-7/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	48	60	7-13/16	42-13/16	4-5/8	29-1/4	33-7/8	7-1/2	18-3/4	16	8-5/8	10	39-1/8	81-1/4	119-3/8
D.750-G15	158-7/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	48	60	7-13/16	42-13/16	4-5/8	29-1/4	33-7/8	7-1/2	18-3/4	16	8-5/8	10	39-1/8	81-1/4	119-3/8
D.500-G18	158-1/8	41-3/8	47-7/8	43-3/8	51-3/8	38-1/16	46-1/8	5-1/4	5-1/4	60	60	9-1/2	47-13/16	4-5/8	36-1/4	41-7/8	7-1/2	22	19	9	12	44-1/8	86-1/4	121-1/2
D.750-G18	158-1/8	41-3/8	47-7/8	43-3/8	51-3/8	38-1/16	46-1/8	5-1/4	5-1/4	60	60	9-1/2	47-13/16	4-5/8	36-1/4	41-7/8	7-1/2	22	19	9	12	44-1/8	86-1/4	121-1/2
D.1000-G18	158-1/8	41-3/8	47-7/8	43-3/8	51-3/8	38-1/16	46-1/8	5-1/4	5-1/4	60	60	9-1/2	47-13/16	4-5/8	36-1/4	41-7/8	7-1/2	22	19	9	12	44-1/8	86-1/4	121-1/2
D.1000-920	189-1/4	48-7/16	58-5/8	51-3/8	58-3/8	46-1/8	53-1/8	5-1/4	5-1/4	60	72	13-9/16	66-5/16	4-5/8	47	48-7/8	7-1/2	24-7/8	24-7/8	11-1/16	12-1/4	63-3/16	117-3/8	152-5/8
D.1500-920	189-1/4	48-7/16	58-5/8	51-3/8	58-3/8	46-1/8	53-1/8	5-1/4	5-1/4	60	72	13-9/16	66-5/16	4-5/8	47	48-7/8	7-1/2	24-7/8	24-7/8	11-1/16	12-1/4	63-3/16	117-3/8	152-5/8
D.2000-925	199-1/4	59-3/16	74-7/8	58-3/8	58-3/8	53-1/8	53-1/8	5-1/4	5-1/4	72	90	13-3/4	76-7/16	4-5/8	63-1/4	48-7/8	7-1/2	31-3/8	31-3/8	13-3/16	14-1/2	73-3/16	127-3/8	162-5/8
D.2500-925	199-1/4	59-3/16	74-7/8	58-3/8	58-3/8	53-1/8	53-1/8	5-1/4	5-1/4	72	90	13-3/4	76-7/16	4-5/8	63-1/4	48-7/8	7-1/2	31-3/8	31-3/8	13-3/16	14-1/2	73-3/16	127-3/8	162-5/8

UNIT INFORMATION

MODEL	BURNER LENGTH	BTU RANGE (MBH)		GAS PRESSURE		GAS CONNECTION
		BTU LOW	BTU HIGH	MIN	MAX	"AA" (NPT)
D.250-G10	6"	18	275	7" WC	14" WC	3/4
D.500-G10	12"	18	550	7" WC	14" WC	3/4
D.250-G15	6"	18	275	7" WC	14" WC	1
D.500-G15	12"	18	550	7" WC	14" WC	1
D.750-G15	18"	27.5	825	7" WC	14" WC	1
D.500-G18	12"	18	550	7" WC	14" WC	1
D.750-G18	18"	27.5	825	7" WC	14" WC	1
D.1000-G18	24"	36.6	1100	7" WC	14" WC	1
D.1000-920	24"	36.6	1100	7" WC	5 PSI	1-1/4
D.1500-920	30"	45.8	1375	7" WC	5 PSI	1-1/4
D.2000-925	48"	73.3	2200	7" WC	5 PSI	1-1/2
D.2500-925	60"	91.6	2750	7" WC	5 PSI	1-1/2

**MAX. EVAP WATER PRESSURE = 50 PSI @ 70 DEG. F

CELDEK EVAPORATIVE COOLING UNIT			
TOT. WEIGHT	MEDIA SIZE & QTY	NOZZLES	MAX. FLOW RATE
860 LBS	25"x32"x12"	20	6.5 GPH
865 LBS	25"x32"x12"	20	6.5 GPH
1170 LBS	30"x36"x12"	28	8.4 GPH
1175 LBS	30"x36"x12"	28	8.4 GPH
1180 LBS	30"x36"x12"	28	8.4 GPH
1415 LBS	38"x43"x12"	35	10.15 GPH
1420 LBS	38"x43"x12"	35	10.15 GPH
1425 LBS	38"x43"x12"	35	10.15 GPH
2085 LBS	45"x54"x12"	42	12.6 GPH
2100 LBS	45"x54"x12"	42	12.6 GPH
2730 LBS	45"x72"x12"	57	20.1 GPH
2745 LBS	45"x72"x12"	57	20.1 GPH

V-BANK FILTER
FILTER SIZE & QTY
16"x20"x2" (8)
16"x20"x2" (8)
20"x25"x2" (8)
20"x25"x2" (8)
20"x25"x2" (8)
16"x20"x2" (15)
16"x20"x2" (15)
16"x20"x2" (15)
20"x25"x2" (12)
20"x25"x2" (12)
20"x25"x2" (12)
20"x25"x2" (12)

WATER INLET		DRAIN OPENING	
W	X	Y	Z
4-1/2	38-1/2	18	48-1/4
4-1/2	38-1/2	18	48-1/4
4-1/2	44	20	57-1/4
4-1/2	44	20	57-1/4
4-1/2	44	20	57-1/4
4-1/2	41-1/8	23-1/2	52-7/8
4-1/2	41-1/8	23-1/2	52-7/8
4-1/2	41-1/8	23-1/2	52-7/8
4-1/2	41-1/8	28-7/8	52-7/8
4-1/2	41-1/8	28-7/8	52-7/8
4-1/2	41-1/8	37-1/2	52-7/8
4-1/2	41-1/8	37-1/2	52-7/8

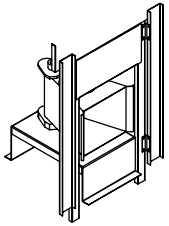
Direct Fired Profile Plate Specifications:

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