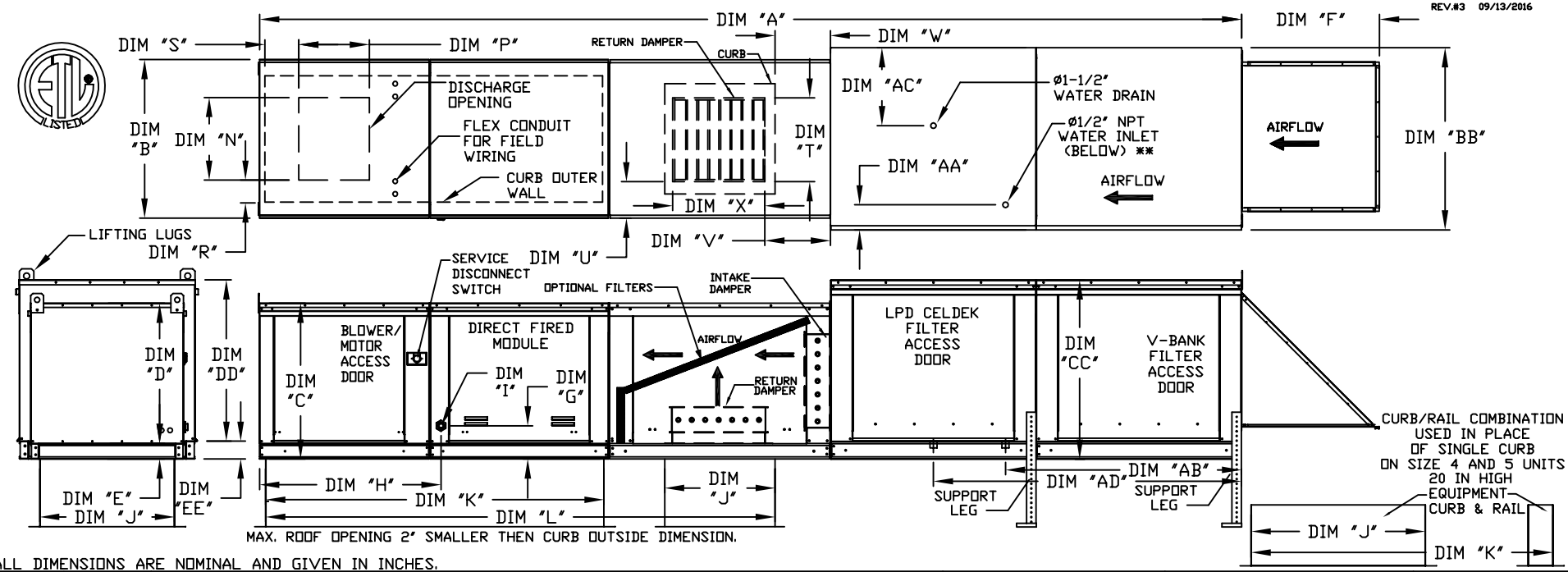
MODULAR OUTDOOR DOWN DISCHARGE DIRECT FIRED RECIRCULATING HEATER WITH V-BANK, LPD EVAPORATIVE COOLER AND SCREEN INTAKE

SIVBLPDECMBDFDAH
REV.#3 09/13/2016



ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

		UNIT DIMENSIONS												CURB			DISCHARGE OPENING				RETURN OPENING				
MODEL	UNIT SIZE	A	B	BB	C	CC	D	DD	E	EE	F	G	H	J	K	L	N	P	R	S	T	U	V	W	X
D.250	1	181-1/8	27-3/8	36-3/4	29-3/4	36-3/4	26-1/16	33	3-3/4	3-3/4	30-5/16	7-13/16	34-13/16	21	71	102-7/16	13-1/4	11-1/2	3-7/8	1-3/4	14	8	14	12-1/2	18
D.500	1	181-1/8	27-3/8	36-3/4	29-3/4	36-3/4	26-1/16	33	3-3/4	3-3/4	30-5/16	7-13/16	34-13/16	21	71	102-7/16	13-1/4	11-1/2	3-7/8	1-3/4	14	8	14	12-1/2	18
D.250	2	195-1/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	34-3/16	7-13/16	42-13/16	31	79	115-7/16	18-3/4	16	6-1/8	5-1/2	22-3/4	8	11	7-1/2	24
D.500	2	195-1/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	34-3/16	7-13/16	42-13/16	31	79	115-7/16	18-3/4	16	6-1/8	5-1/2	22-3/4	8	11	7-1/2	24
D.750	2	195-1/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	34-3/16	7-13/16	42-13/16	31	79	115-7/16	18-3/4	16	6-1/8	5-1/2	22-3/4	8	11	7-1/2	24
D.500	3	203-1/8	41-3/8	47-7/8	43-3/8	51-3/8	38-1/16	46-1/8	5-1/4	5-1/4	47-1/4	9-1/2	47-13/16	35	84	123-7/16	22	19	6-1/2	7	28	8	7	4-1/2	30
D.750	3	203-1/8	41-3/8	47-7/8	43-3/8	51-3/8	38-1/16	46-1/8	5-1/4	5-1/4	47-1/4	9-1/2	47-13/16	35	84	123-7/16	22	19	6-1/2	7	28	8	7	4-1/2	30
D.1000	3	203-1/8	41-3/8	47-7/8	43-3/8	51-3/8	38-1/16	46-1/8	5-1/4	5-1/4	47-1/4	9-1/2	47-13/16	35	84	123-7/16	22	19	6-1/2	7	28	8	7	4-1/2	30
D.1000	4	243-9/16	48-7/16	58-5/8	51-3/8	58-3/8	46-1/8	53-1/8	5-1/4	5-1/4	49-5/8	13-9/16	66-5/16	42	115-3/16	163-3/16	24-7/8	24-7/8	8-9/16	1-1/8	33	10	11	8	36
D.1500	4	243-9/16	48-7/16	58-5/8	51-3/8	58-3/8	46-1/8	53-1/8	5-1/4	5-1/4	49-5/8	13-9/16	66-5/16	42	115-3/16	163-3/16	24-7/8	24-7/8	8-9/16	1-1/8	33	10	11	8	36
D.2000	5	253-9/16	59-3/16	74-7/8	58-3/8	58-3/8	53-1/8	53-1/8	5-1/4	5-1/4	49-5/8	13-3/4	76-7/16	52-3/4	125-3/16	179-15/16	31-3/8	31-3/8	10-11/16	3-13/16	43	10	6-1/2	1-1/4	43
D.2500	5	253-9/16	59-3/16	74-7/8	58-3/8	58-3/8	53-1/8	53-1/8	5-1/4	5-1/4	49-5/8	13-3/4	76-7/16	52-3/4	125-3/16	179-15/16	31-3/8	31-3/8	10-11/16	3-13/16	43	10	6-1/2	1-1/4	43

UNIT INFORMATION

MODEL	UNIT SIZE	BURNER LENGTH	CAPACITY (MBH)		GAS PRESSURE		GAS CONNECTION
			MIN	MAX	MIN	MAX	"I" (NPT)
D.250	1	6'	18	275	7" WC	14" WC	3/4
D.500	1	12'	18	550	7" WC	14" WC	3/4
D.250	2	6'	18	275	7" WC	14" WC	1
D.500	2	12'	18	550	7" WC	14" WC	1
D.750	2	18'	27.5	825	7" WC	14" WC	1
D.500	3	12'	18	550	7" WC	14" WC	1
D.750	3	18'	27.5	825	7" WC	14" WC	1
D.1000	3	24'	36.6	1100	7" WC	14" WC	1
D.1000	4	24'	36.6	1100	7" WC	5 PSI	1-1/4
D.1500	4	30'	45.8	1375	7" WC	5 PSI	1-1/4
D.2000	5	48'	73.3	2200	7" WC	5 PSI	1-1/2
D.2500	5	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
1050 LBS	25"x32"x12"	20	6.5 GPH
1055 LBS	25"x32"x12"	20	6.5 GPH
1435 LBS	30"x36"x12"	28	8.4 GPH
1440 LBS	30"x36"x12"	28	8.4 GPH
1445 LBS	30"x36"x12"	28	8.4 GPH
1795 LBS	38"x43"x12"	35	10.15 GPH
1800 LBS	38"x43"x12"	35	10.15 GPH
1805 LBS	38"x43"x12"	35	10.15 GPH
2695 LBS	45"x54"x12"	42	12.6 GPH
2710 LBS	45"x54"x12"	42	12.6 GPH
3440 LBS	45"x72"x12"	57	20.1 GPH
3455 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	
AA	AB	AC	AD
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

OPTIONAL MIXING BOX FILTERS
FILTER SIZE & QTY
10"x16"x2" (5)
10"x16"x2" (5)
20"x25"x2" (2), 16"x25"x2" (1)
20"x25"x2" (2), 16"x25"x2" (1)
20"x25"x2" (2), 16"x25"x2" (1)
15"x20"x2" (4), 15"x15"x2" (2)
15"x20"x2" (4), 15"x15"x2" (2)
15"x20"x2" (4), 15"x15"x2" (2)
18"x25"x2" (4), 16"x20"x2" (2)
18"x25"x2" (4), 16"x20"x2" (2)
14.5"x19"x2" (12)
14.5"x19"x2" (12)

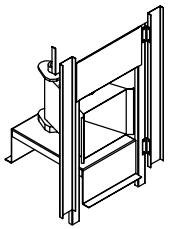
Direct Fired Profile Plate Specifications:

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