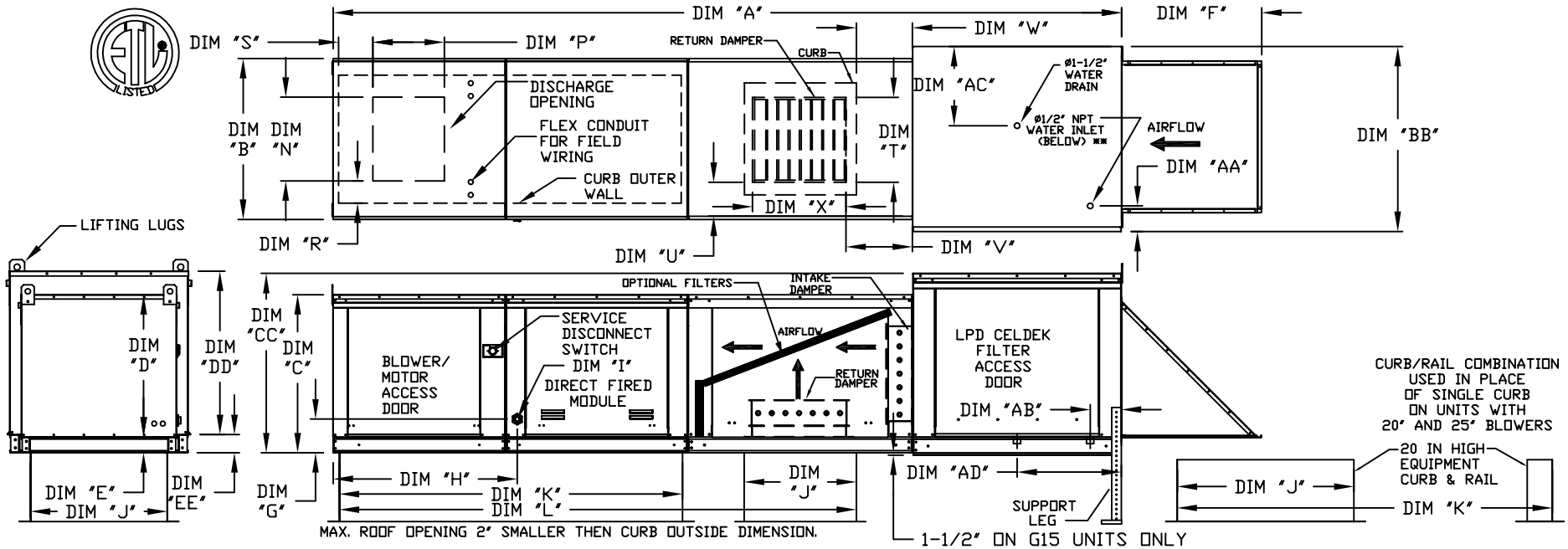
MODULAR OUTDOOR DOWN DISCHARGE DIRECT FIRED RECIRCULATING HEATER WITH LPD EVAPORATIVE COOLER AND SCREEN INTAKE

REV.#2 05/05/2015



ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

	UNIT DIMENSIONS												CURB			DISCHARGE OPENING				RETURN OPENING				
MODEL	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-G10	148-7/8	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-G10	148-7/8	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-G15	162-7/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	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-G15	162-7/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	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-G15	162-7/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	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-G18	165	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-G18	165	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-G18	165	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.1000-920	208-3/16	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.1500-920	208-3/16	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.2000-925	218-3/16	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.2500-925	218-3/16	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	BURNER LENGTH	BTU RANGE (MBH)		GAS PRESSURE		GAS CONNECTION
		BTU LOW	BTU HIGH	MIN	MAX	"I" (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
915 LBS	25"x32"x12"	20	6.5 GPH
920 LBS	25"x32"x12"	20	6.5 GPH
1270 LBS	30"x36"x12"	28	8.4 GPH
1275 LBS	30"x36"x12"	28	8.4 GPH
1280 LBS	30"x36"x12"	28	8.4 GPH
1560 LBS	38"x43"x12"	35	10.15 GPH
1565 LBS	38"x43"x12"	35	10.15 GPH
1570 LBS	38"x43"x12"	35	10.15 GPH
2400 LBS	45"x54"x12"	42	12.6 GPH
2415 LBS	45"x54"x12"	42	12.6 GPH
3145 LBS	45"x72"x12"	57	20.1 GPH
3160 LBS	45"x72"x12"	57	20.1 GPH

INTAKE HOOD
FILTER SIZE & QTY
20"x25"x2" (3)
20"x25"x2" (3)
16"x20"x2" (6)
16"x20"x2" (6)
16"x20"x2" (6)
16"x20"x2" (10)
16"x20"x2" (10)
16"x20"x2" (10)
20"x25"x2" (8)
20"x25"x2" (8)
20"x25"x2" (8)
20"x25"x2" (8)

WATER INLET		DRAIN OPENING	
AA	AB	AC	AD
4-1/2	6-1/4	18	16
4-1/2	6-1/4	18	16
4-1/2	5-3/4	20	19
4-1/2	5-3/4	20	19
4-1/2	5-3/4	20	19
4-1/2	5-3/4	23-1/2	17-1/2
4-1/2	5-3/4	23-1/2	17-1/2
4-1/2	5-3/4	23-1/2	17-1/2
4-1/2	5-3/4	28-7/8	17-1/2
4-1/2	5-3/4	28-7/8	17-1/2
4-1/2	5-3/4	37-1/2	17-1/2
4-1/2	5-3/4	37-1/2	17-1/2

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)

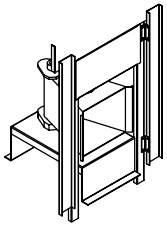
Direct Fired Profile Plate Specifications:

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