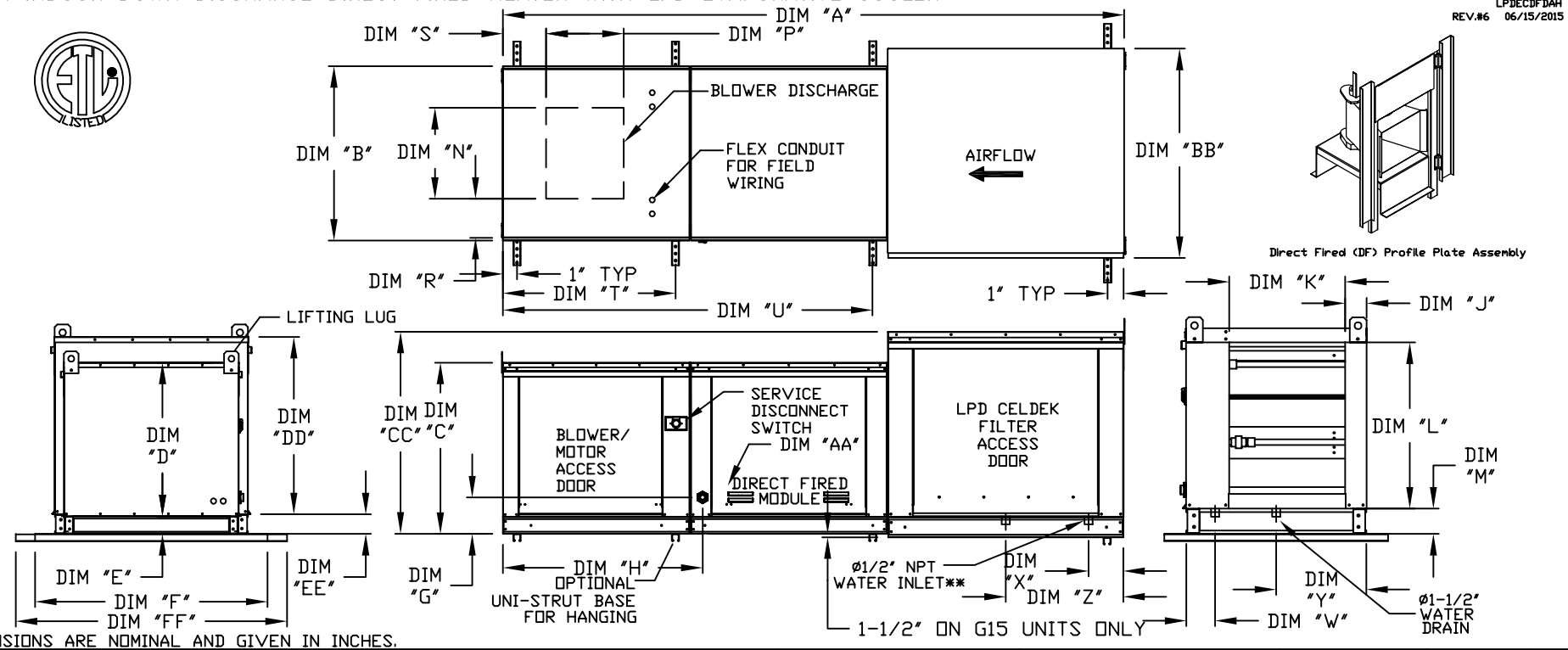
MODULAR INDOOR DOWN DISCHARGE DIRECT FIRED HEATER WITH LPD EVAPORATIVE COOLER

LPDECDFDAH
REV.#6 06/15/2015



Direct Fired (DF) Profile Plate Assembly

ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

	UNIT DIMENSIONS													INTAKE OPENING				DISCHARGE OPENING						WATER INLET	DRAIN OPENIN		
MODEL	A	B	BB	C	CC	D	DD	E	EE	F	FF	G	H	J	K	L	M	N	P	R	S	T	U	W	X	Y	Z
D.250-G10	106-5/8	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	4-1/2	6-1/4	18	16
D.500-G10	106-5/8	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	4-1/2	6-1/4	18	16
D.250-G15	120-5/8	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	4-1/2	5-3/4	20	19
D.500-G15	120-5/8	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	4-1/2	5-3/4	20	19
D.750-G15	120-5/8	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	4-1/2	5-3/4	20	19
D.500-G18	122-3/4	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	4-1/2	5-3/4	23-1/2	17-1/
D.750-G18	122-3/4	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	4-1/2	5-3/4	23-1/2	17-1/
D.1000-G18	122-3/4	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	4-1/2	5-3/4	23-1/2	17-1/
D.1000-920	153-7/8	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	4-1/2	5-3/4	28-7/8	17-1/
D.1500-920	153-7/8	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	4-1/2	5-3/4	28-7/8	17-1/
D.2000-925	163-7/8	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	4-1/2	5-3/4	37-1/2	17-1/
D.2500-925	163-7/8	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	4-1/2	5-3/4	37-1/2	17-1/

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
725 LBS	25"x32"x12"	20	6.5 GPH
730 LBS	25"x32"x12"	20	6.5 GPH
1005 LBS	30"x36"x12"	28	8.4 GPH
1010 LBS	30"x36"x12"	28	8.4 GPH
1015 LBS	30"x36"x12"	28	8.4 GPH
1180 LBS	38"x43"x12"	35	10.15 GPH
1185 LBS	38"x43"x12"	35	10.15 GPH
1190 LBS	38"x43"x12"	35	10.15 GPH
1790 LBS	45"x54"x12"	42	12.6 GPH
1805 LBS	45"x54"x12"	42	12.6 GPH
2435 LBS	45"x72"x12"	57	20.1 GPH
2450 LBS	45"x72"x12"	57	20.1 GPH

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 (NO_2).

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.