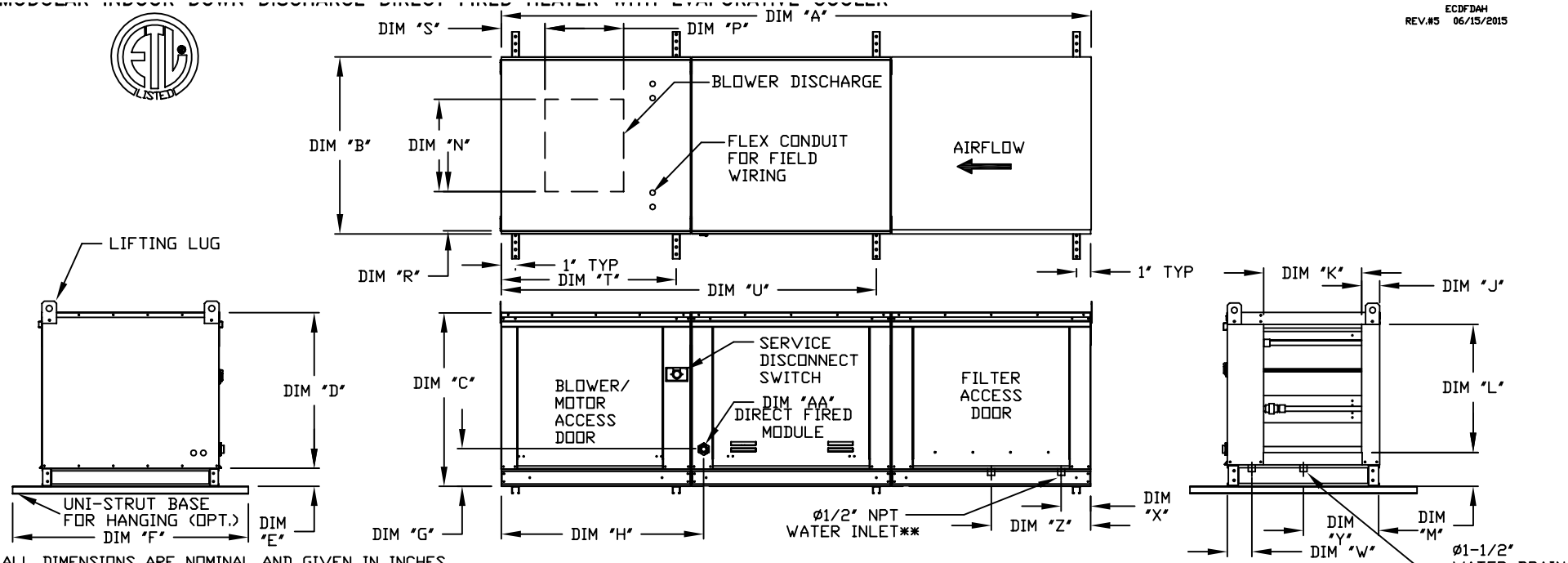
MODULAR INDOOR DOWN DISCHARGE DIRECT FIRED HEATER WITH EVAPORATIVE COOLER

ECDFDAH
REV.#5 06/15/2015



ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

	UNIT DIMENSIONS								INTAKE OPENING				DISCHARGE OPENING						WATER INLET	DRAIN OPENING		
MODEL	A	B	C	D	E	F	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	29-3/4	26-1/16	3-3/4	36	7-13/16	34-13/16	3-1/8	16-3/4	21-7/8	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	13	16
D.500-G10	106-5/8	27-3/8	29-3/4	26-1/16	3-3/4	36	7-13/16	34-13/16	3-1/8	16-3/4	21-7/8	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	13	16
D.250-G15	114-5/8	37-3/8	36-3/4	33-1/16	3-3/4	48	7-13/16	42-13/16	5-1/8	24-3/4	28-7/8	5-3/4	18-3/4	16	8-5/8	10	39-1/8	81-1/4	4-1/2	6-1/4	18	16
D.500-G15	114-5/8	37-3/8	36-3/4	33-1/16	3-3/4	48	7-13/16	42-13/16	5-1/8	24-3/4	28-7/8	5-3/4	18-3/4	16	8-5/8	10	39-1/8	81-1/4	4-1/2	6-1/4	18	16
D.750-G15	114-5/8	37-3/8	36-3/4	33-1/16	3-3/4	48	7-13/16	42-13/16	5-1/8	24-3/4	28-7/8	5-3/4	18-3/4	16	8-5/8	10	39-1/8	81-1/4	4-1/2	6-1/4	18	16
D.750-G18	125-5/8	41-3/8	43-3/8	38-1/16	5-1/4	60	9-1/2	47-13/16	4-5/8	29-1/4	33-7/8	7-1/2	22	19	9	12	44-1/8	86-1/4	4-1/2	5-3/4	20	19
D.750-G18	125-5/8	41-3/8	43-3/8	38-1/16	5-1/4	60	9-1/2	47-13/16	4-5/8	29-1/4	33-7/8	7-1/2	22	19	9	12	44-1/8	86-1/4	4-1/2	5-3/4	20	19
D.1000-G18	125-5/8	41-3/8	43-3/8	38-1/16	5-1/4	60	9-1/2	47-13/16	4-5/8	29-1/4	33-7/8	7-1/2	22	19	9	12	44-1/8	86-1/4	4-1/2	5-3/4	20	19
D.1000-920	153-7/8	48-7/16	51-3/8	46-1/8	5-1/4	60	13-9/16	66-5/16	4-5/8	36-1/4	41-7/8	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	23-1/2	17-1/2
D.1500-920	153-7/8	48-7/16	51-3/8	46-1/8	5-1/4	60	13-9/16	66-5/16	4-5/8	36-1/4	41-7/8	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	23-1/2	17-1/2
D.2000-925	163-7/8	59-3/16	58-3/8	53-1/8	5-1/4	72	13-3/4	76-7/16	4-5/8	47	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	28-7/8	17-1/2
D.2500-925	163-7/8	59-3/16	58-3/8	53-1/8	5-1/4	72	13-3/4	76-7/16	4-5/8	47	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	28-7/8	17-1/2

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

STANDARD EVAPORATIVE COOLING UNIT				
TOT. WEIGHT	MEDIA SIZE & QTY	VEL. @ MAX. CFM	NOZZLES	MAX. FLOW RATE
680 LBS	20"x25"x2" (3)	406 FPM	6	3 GPH
685 LBS	20"x25"x2" (3)	406 FPM	6	3 GPH
955 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
960 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
965 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
1120 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
1125 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
1130 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
1755 LBS	16"x20"x2" (15)	572 FPM	24	12 GPH
1770 LBS	16"x20"x2" (15)	572 FPM	24	12 GPH
2340 LBS	20"x25"x2" (12)	638 FPM	30	15 GPH
2355 LBS	20"x25"x2" (12)	638 FPM	30	15 GPH

CELDEK EVAPORATIVE COOLING UNIT				
TOT. WEIGHT	MEDIA SIZE & QTY	VEL. @ MAX. CFM	NOZZLES	MAX. FLOW RATE
685 LBS	20"x24"x12"	1050 FPM	12	3.9 GPH
690 LBS	20"x24"x12"	1050 FPM	12	3.9 GPH
950 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
955 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
960 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
1110 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
1115 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
1120 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
1725 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH
1740 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH
2300 LBS	45"x54"x12"	1304 FPM	42	12.6 GPH
2315 LBS	45"x54"x12"	1304 FPM	42	12.6 GPH

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

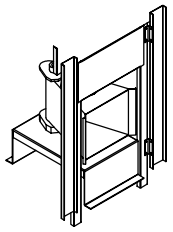
Direct Fired Profile Plate Specifications:

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.



Direct Fired (DF) Profile Plate Assembly