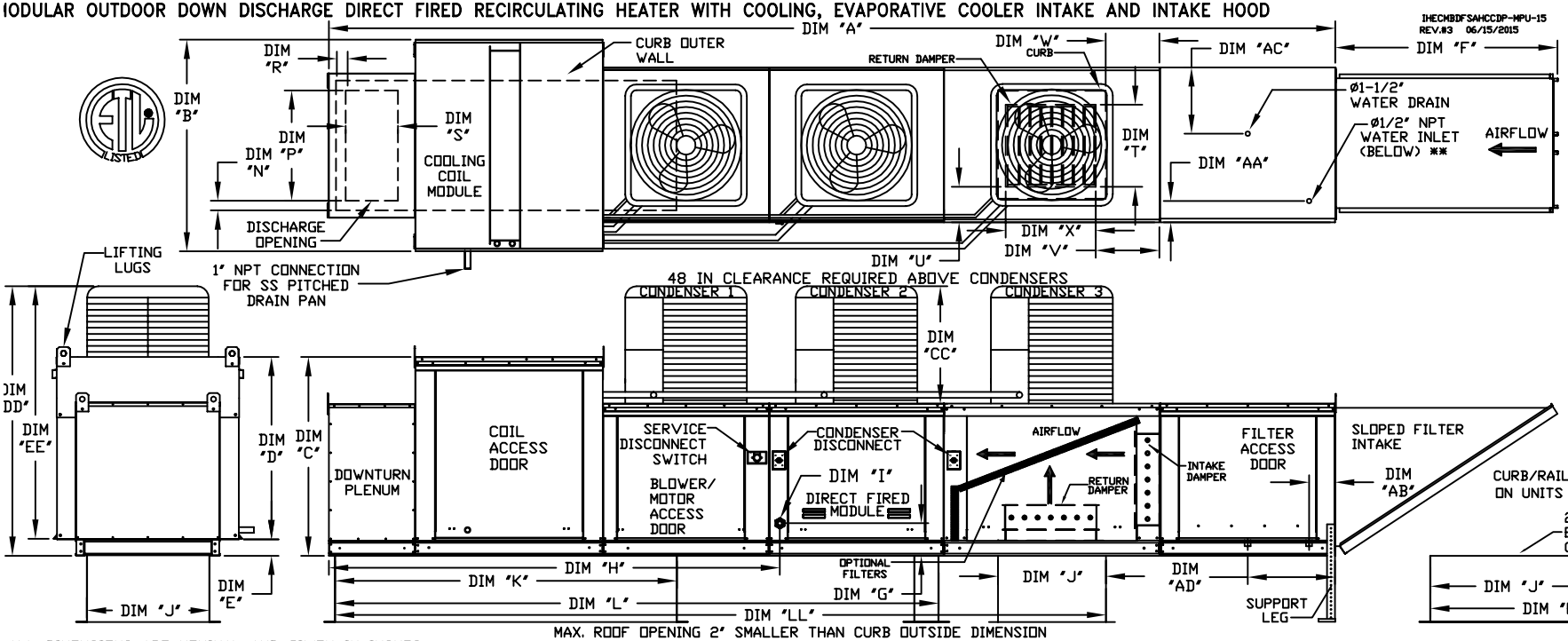
IODULAR OUTDOOR DOWN DISCHARGE DIRECT FIRED RECIRCULATING HEATER WITH COOLING, EVAPORATIVE COOLER INTAKE AND INTAKE HOOD

IHECMBDFSAHCCDP-MPU-15
REV.#3 06/15/2015



ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

MODEL	UNIT DIMENSIONS								CURB/RAIL				DISCHARGE OPENING				RETURN DAMPER OPENING					WATER INLET		DRAIN OPENING		FILTER SIZE & QTY	MAX. FILTER VELOCITY
	A	B	C	D	E	F	G	H	J	K	L	LL	N	P	R	S	T	U	V	W	X	AA	AB	AC	AD		
D.500-G18	196-1/4	54-3/8	56-3/8	51-1/8	5-1/4	51-5/8	9-1/2	114-7/16	35	84	150-5/8	190-1/16	6-5/16	22-3/8	1-1/2	18	28	8	7	4-1/2	30	4-1/2	5-3/4	20	19	16"x20"x2" (6)	@8000 CFM = 762 FPM
D.750-G18	196-1/4	54-3/8	56-3/8	51-1/8	5-1/4	51-5/8	9-1/2	114-7/16	35	84	150-5/8	190-1/16	6-5/16	22-3/8	1-1/2	18	28	8	7	4-1/2	30	4-1/2	5-3/4	20	19	16"x20"x2" (6)	@8000 CFM = 762 FPM
D.1000-G18	196-1/4	54-3/8	56-3/8	51-1/8	5-1/4	51-5/8	9-1/2	114-7/16	35	84	150-5/8	190-1/16	6-5/16	22-3/8	1-1/2	18	28	8	7	4-1/2	30	4-1/2	5-3/4	20	19	16"x20"x2" (6)	@8000 CFM = 762 FPM
D.1000-920	257-1/2	60-7/16	64-3/8	59-1/8	5-1/4	76-3/8	13-9/16	151	42	115-3/16	199-7/8	247-7/8	5-1/4	31-1/2	1-13/16	23-1/2	33	10	11	8	36	4-1/2	5-3/4	23-1/2	17-1/2	16"x20"x2" (10)	@13000 CFM = 743 FPM
D.1500-920	257-1/2	60-7/16	64-3/8	59-1/8	5-1/4	76-3/8	13-9/16	151	42	115-3/16	199-7/8	247-7/8	5-1/4	31-1/2	1-13/16	23-1/2	33	10	11	8	36	4-1/2	5-3/4	23-1/2	17-1/2	16"x20"x2" (10)	@13000 CFM = 743 FPM

UNIT INFORMATION

MODEL	BURNER LENGTH	BTU RANGE (MBH)		GAS PRESSURE		GAS CONNECTION	TONNAGE RANGE	
		BTU LOW	BTU HIGH	MIN	MAX	"I" (NPT)	MIN	MAX
D.500-G18	12"	18	550	7" WC	14" WC	1	15 Ton	15 Ton
D.750-G18	18"	27.5	825	7" WC	14" WC	1	15 Ton	15 Ton
D.1000-G18	24"	36.6	1100	7" WC	14" WC	1	15 Ton	15 Ton
D.1000-920	24"	36.6	1100	7" WC	5 PSI	1-1/4	15 Ton	15 Ton
D.1500-920	30"	45.8	1375	7" WC	5 PSI	1-1/4	15 Ton	15 Ton

STANDARD EVAPORATIVE COOLING UNIT				
TOT. WEIGHT	MEDIA SIZE & QTY	VEL. @ MAX. CFM	NOZZLES	MAX. FLOW RATE
2135 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
2140 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
2145 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
3410 LBS	16"x20"x2" (15)	572 FPM	24	12 GPH
3425 LBS	16"x20"x2" (15)	572 FPM	24	12 GPH

CELDEK EVAPORATIVE COOLING UNIT				
TOT. WEIGHT	MEDIA SIZE & QTY	VEL. @ MAX. CFM	NOZZLES	MAX. FLOW RATE
2125 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
2130 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
2135 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
3380 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH
3395 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH

OPTIONAL MIXING BOX FILTERS
FILTER SIZE & QTY
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)

CONDENSER INFORMATION

MODEL	WEIGHT*	TONNAGE			CC	DD	EE
		#1	#2	#3			
15 TON-G18	591 LBS	5 TON	5 TON	5 TON	32-13/16	76-3/16	70-7/8
15 TON-920	591 LBS	5 TON	5 TON	5 TON	32-13/16	97-3/16	91-15/16

R410A REFRIGERANT

*ADD CONDENSING UNIT WEIGHT TO WEIGHT IN TABLE ABOVE **MAX. EVAP WATER PRESSURE = 50 PSI @ 70 DEG. F

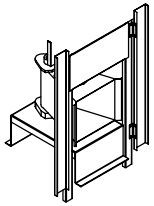
Direct Fired Profile Plate Specifications:

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