MODULAR OUTDOOR SIDE DISCHARGE DIRECT FIRED HEATER PACKAGED UNIT WITH COOLING, EVAPORATIVE COOLER INTAKE, V-BANK AND SCREEN INTAKE

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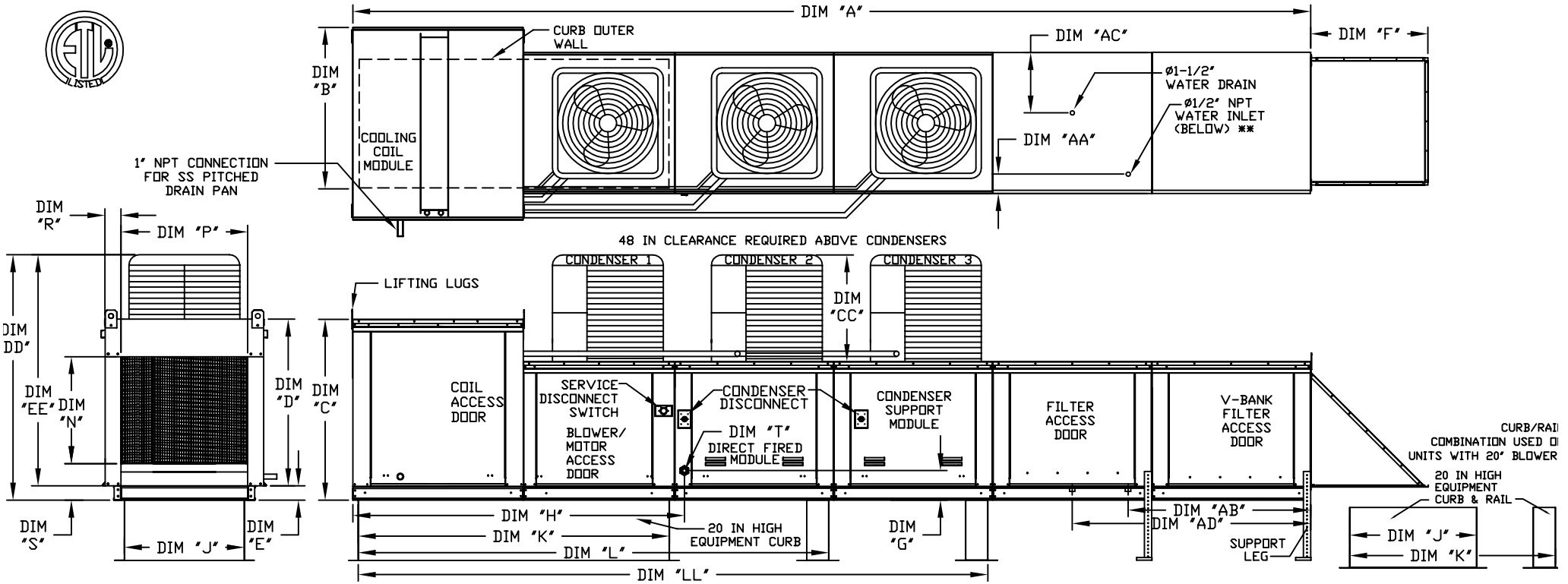
REV.#3 06/15/2015



ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

	UNIT DIMENSIONS								CURB/RAIL				DISCHARGE OPENING				WATER INLET		DRAIN OPENING		FILTERS	
MODEL	A	B	C	D	E	F	G	H	J	K	L	LL	N	P	R	S	AA	AB	AC	AD	FILTER SIZE & QTY	MAX. FILTER VELOCITY
D.500-G18	248-3/8	54-3/8	56-3/8	51-1/8	5-1/4	34-3/16	9-1/2	90-1/16	35	84	126-1/4	168-1/2	29-5/8	30	11-1/2	7-3/8	4-1/2	44	20	57-1/4	20"x25"x2" (8)	@8000 CFM = 348 FPM
D.750-G18	248-3/8	54-3/8	56-3/8	51-1/8	5-1/4	34-3/16	9-1/2	90-1/16	35	84	126-1/4	168-1/2	29-5/8	30	11-1/2	7-3/8	4-1/2	44	20	57-1/4	20"x25"x2" (8)	@8000 CFM = 348 FPM
D.1000-G18	248-3/8	54-3/8	56-3/8	51-1/8	5-1/4	34-3/16	9-1/2	90-1/16	35	84	126-1/4	168-1/2	29-5/8	30	11-1/2	7-3/8	4-1/2	44	20	57-1/4	20"x25"x2" (8)	@8000 CFM = 348 FPM
D.1000-920	297-7/8	60-7/16	64-3/8	59-1/8	5-1/4	47-1/4	13-9/16	120-5/8	42	115-3/16	169-1/2	223-13/16	36-3/4	34	12-1/2	7-3/8	4-1/2	41-1/8	23-1/2	52-7/8	16"x20"x2" (15)	@13000 CFM = 495 FPM
D.1500-920	297-7/8	60-7/16	64-3/8	59-1/8	5-1/4	47-1/4	13-9/16	120-5/8	42	115-3/16	169-1/2	223-13/16	36-3/4	34	12-1/2	7-3/8	4-1/2	41-1/8	23-1/2	52-7/8	16"x20"x2" (15)	@13000 CFM = 495 FPM

UNIT INFORMATION

MODEL	BURNER LENGTH	BTU RANGE (MBH)		GAS PRESSURE		GAS CONNECTION	TONNAGE RANGE	
		BTU LOW	BTU HIGH	MIN	MAX	"T" (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
1850 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
1855 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
1860 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
2885 LBS	16"x20"x2" (15)	572 FPM	24	12 GPH
2900 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
1840 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
1845 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
1850 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
2855 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH
2870 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH

*ADD CONDENSING UNIT WEIGHT TO WEIGHT IN TABLE ABOVE

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

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

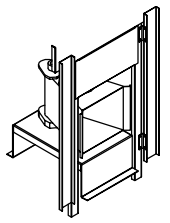
Direct Fired Profile Plate Specifications:

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