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

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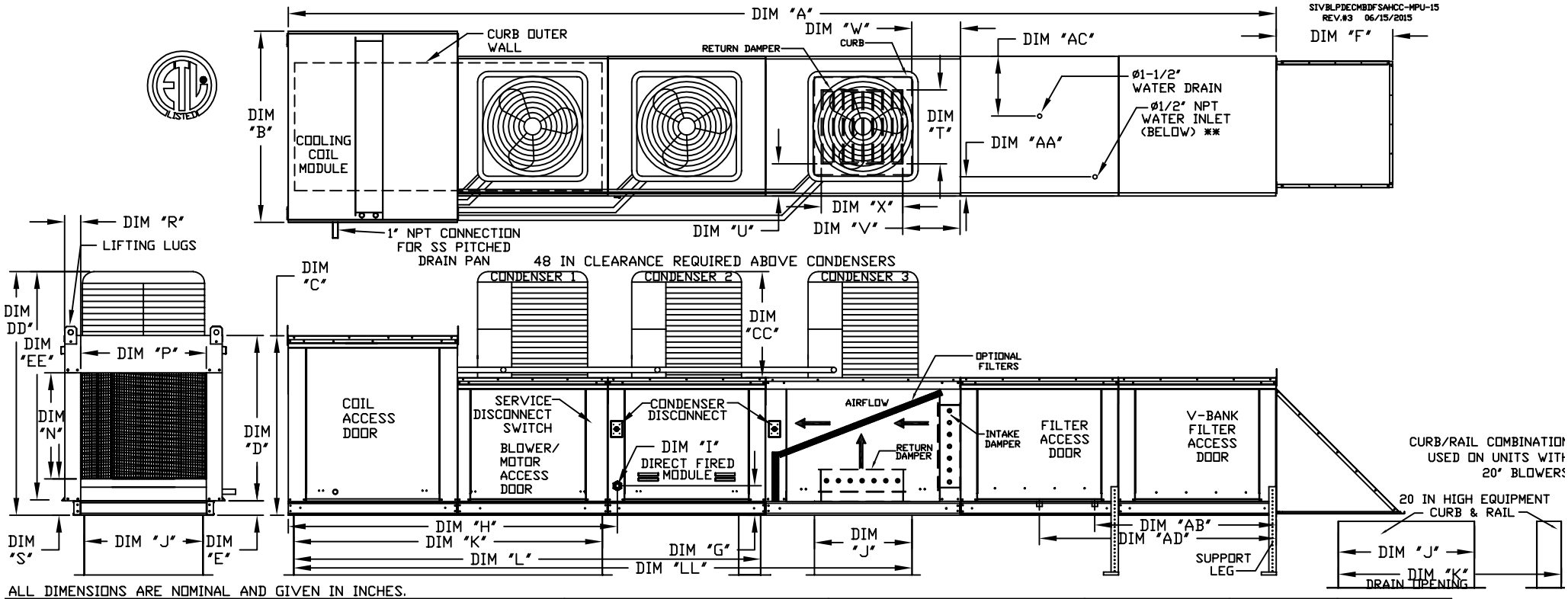


ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

MODEL	UNIT DIMENSIONS								CURB/RAIL				DISCHARGE OPENING				RETURN OPENING				WATER INLET			
	A	B	C	D	E	F	G	H	J	K	L	LL	N	P	R	S	T	U	V	X	AA	AB	AC	AD
D.500-G18	242-5/8	54-3/8	56-3/8	51-1/8	5-1/4	47-1/4	9-1/2	90-1/16	35	84	126-1/4	203-15/16	29-5/8	30	11-1/2	7-3/8	28	8	7	30	4-1/2	41-1/8	23-1/2	52-7/8
D.750-G18	242-5/8	54-3/8	56-3/8	51-1/8	5-1/4	47-1/4	9-1/2	90-1/16	35	84	126-1/4	203-15/16	29-5/8	30	11-1/2	7-3/8	28	8	7	30	4-1/2	41-1/8	23-1/2	52-7/8
D.1000-G18	242-5/8	54-3/8	56-3/8	51-1/8	5-1/4	47-1/4	9-1/2	90-1/16	35	84	126-1/4	203-15/16	29-5/8	30	11-1/2	7-3/8	28	8	7	30	4-1/2	41-1/8	23-1/2	52-7/8
D.1000-920	297-7/8	60-7/16	64-3/8	59-1/8	5-1/4	49-5/8	13-9/16	120-5/8	42	115-3/16	169-1/2	252-7/8	36-3/4	34	12-1/2	7-3/8	33	10	11	36	4-1/2	41-1/8	28-7/8	52-7/8
D.1500-920	297-7/8	60-7/16	64-3/8	59-1/8	5-1/4	49-5/8	13-9/16	120-5/8	42	115-3/16	169-1/2	252-7/8	36-3/4	34	12-1/2	7-3/8	33	10	11	36	4-1/2	41-1/8	28-7/8	52-7/8

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

CELDEK EVAPORATIVE COOLING UNIT			
TOT. WEIGHT	MEDIA SIZE & QTY	NOZZLES	MAX. FLOW RATE
2300 LBS	38"x43"x12"	35	10.15 GPH
2305 LBS	38"x43"x12"	35	10.15 GPH
2310 LBS	38"x43"x12"	35	10.15 GPH
3475 LBS	45"x54"x12"	42	12.6 GPH
3490 LBS	45"x54"x12"	42	12.6 GPH

FILTERS	OPTIONAL MIXING BOX FILTERS
FILTER SIZE & QTY	FILTER SIZE & QTY
16"x20"x2" (15)	15"x20"x2" (4), 15"x15"x2" (2)
16"x20"x2" (15)	15"x20"x2" (4), 15"x15"x2" (2)
16"x20"x2" (15)	15"x20"x2" (4), 15"x15"x2" (2)
20"x25"x2" (12)	18"x25"x2" (4), 16"x20"x2" (2)
20"x25"x2" (12)	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
MAX. ROOF OPENING 2" SMALLER THAN CURB OUTSIDE DIMENSION

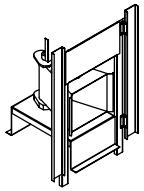
Direct Fired Profile Plate Specifications:

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