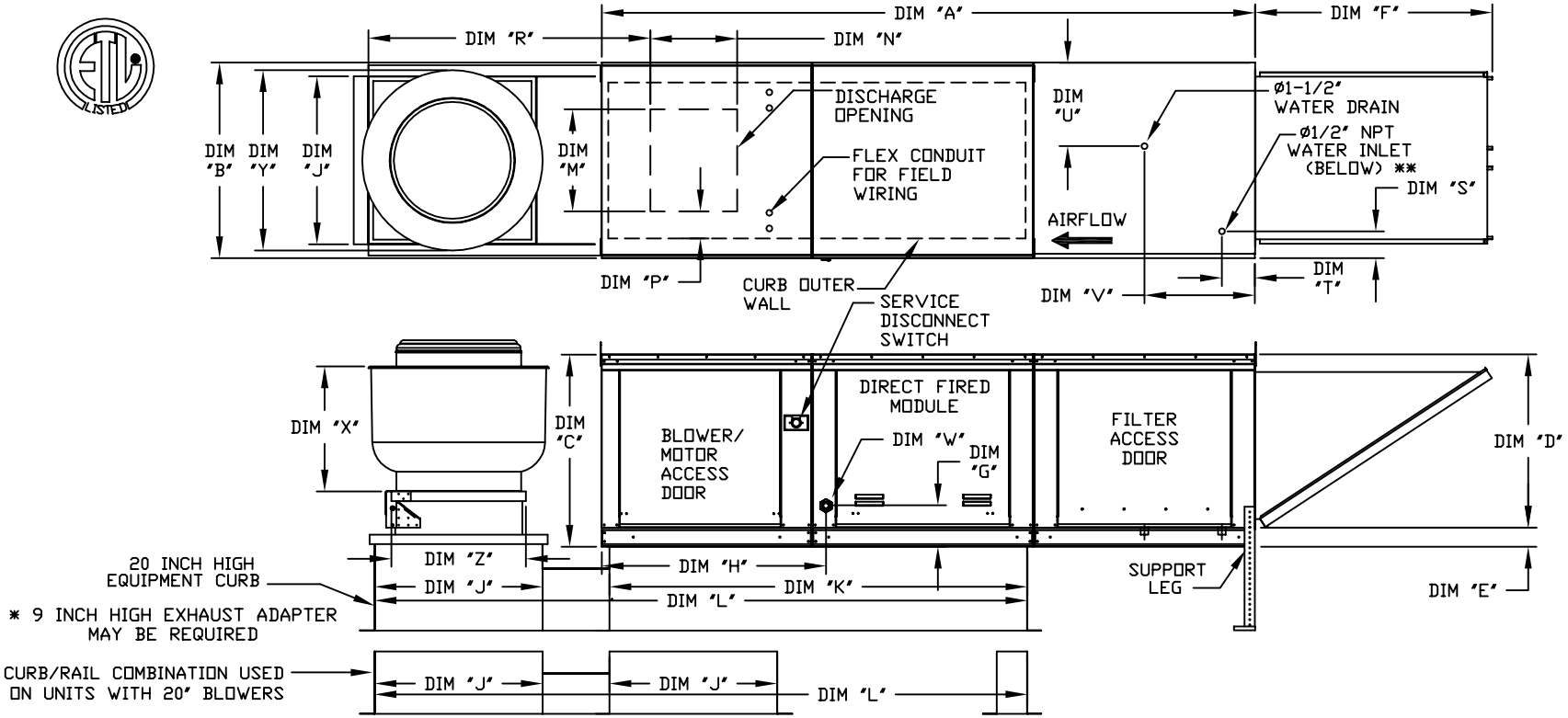
MODULAR OUTDOOR DOWN DISCHARGE DIRECT FIRED HEATER ROOF TOP PACKAGE WITH EVAPORATIVE COOLER AND INTAKE HOOD

REV.#2 05/05/2015



ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

	UNIT DIMENSIONS								CURB			DISCHARGE OPENING				WATER INLET		DRAIN OPENING		FILTER SIZE & QTY	MAX. FILTER VELOCITY
MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V		
D.250-G10	106-5/8	27-3/8	29-3/4	26-1/16	3-3/4	44-3/8	7-13/16	34-13/16	21	71	106	13-1/4	11-1/2	3-7/8	40-9/16	4-1/2	6-1/4	13	16	16"x20"x2" (3)	@3000 CFM = 572 FPM
D.500-G10	106-5/8	27-3/8	29-3/4	26-1/16	3-3/4	44-3/8	7-13/16	34-13/16	21	71	106	13-1/4	11-1/2	3-7/8	40-9/16	4-1/2	6-1/4	13	16	16"x20"x2" (3)	@3000 CFM = 572 FPM
D.500-G15	114-5/8	37-3/8	36-3/4	33-1/16	3-3/4	53-5/8	7-13/16	42-13/16	31	79	124	18-3/4	16	6-1/8	55-13/16	4-1/2	6-1/4	18	16	20"x25"x2" (3)	@6000 CFM = 696 FPM
D.750-G15	114-5/8	37-3/8	36-3/4	33-1/16	3-3/4	53-5/8	7-13/16	42-13/16	31	79	124	18-3/4	16	6-1/8	55-13/16	4-1/2	6-1/4	18	16	20"x25"x2" (3)	@6000 CFM = 696 FPM
D.750-G18	125-5/8	41-3/8	43-3/8	38-1/16	5-1/4	51-5/8	9-1/2	47-13/16	35	84	133	22	19	6-1/2	59-5/16	4-1/2	5-3/4	20	19	16"x20"x2" (6)	@8000 CFM = 762 FPM
D.1000-G18	125-5/8	41-3/8	43-3/8	38-1/16	5-1/4	51-5/8	9-1/2	47-13/16	35	84	133	22	19	6-1/2	59-5/16	4-1/2	5-3/4	20	19	16"x20"x2" (6)	@8000 CFM = 762 FPM
D.1000-920	153-7/8	48-7/16	51-3/8	46-1/8	5-1/4	76-3/8	13-9/16	66-5/16	42	115-3/16	171-3/16	24-7/8	24-7/8	8-9/16	66-5/8	4-1/2	5-3/4	23-1/2	17-1/2	16"x20"x2" (10)	@13000 CFM = 743 FPM
D.1500-920	153-7/8	48-7/16	51-3/8	46-1/8	5-1/4	76-3/8	13-9/16	66-5/16	42	115-3/16	171-3/16	24-7/8	24-7/8	8-9/16	66-5/8	4-1/2	5-3/4	23-1/2	17-1/2	16"x20"x2" (10)	@13000 CFM = 743 FPM

EXHAUST UNIT DIMENSIONS			
MODEL #	X	Y	Z *
DU12	14-1/2	22	19
BDU11	18-1/2	27-1/4	21
DU25			
DU30			
DU33			
BDU13	21-1/2	30-1/4	21
DU50			
BDU15	23	33-3/4	24-3/4
DU75			
DU85			
BDU18	23-1/2	39-3/8	28
BDU20	29-1/2	38-7/8	28
BDU24	30-5/8	43-3/8	33
BDU30	33-1/2	52-3/4	40

MODEL	BURNER LENGTH	BTU RANGE (MBH)		GAS PRESSURE		GAS CONNECTION
		BTU LOW	BTU HIGH	MIN	MAX	"W" (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.500-G15	12"	18	550	7" WC	14" WC	1
D.750-G15	18"	27.5	825	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

STANDARD EVAPORATIVE COOLING UNIT				
TOT. WEIGHT	MEDIA SIZE & QTY	VEL. @ MAX. CFM	NOZZLES	MAX. FLOW RATE
360 LBS	20"x25"x2" (3)	406 FPM	6	3 GPH
360 LBS	20"x25"x2" (3)	406 FPM	6	3 GPH
575 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
575 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
625 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
625 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
1165 LBS	16"x20"x2" (15)	572 FPM	24	12 GPH
1165 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
365 LBS	20"x24"x12"	1050 FPM	12	3.9 GPH
365 LBS	20"x24"x12"	1050 FPM	12	3.9 GPH
570 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
570 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
715 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
715 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
1135 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH
1135 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH

ROOF OPENING 2" SMALLER THAN CURB DIMENSION

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

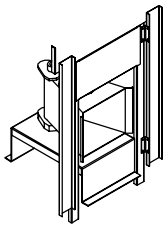
Direct Fired Profile Plate Specifications:

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.
-Spring hinges shall be made from plated steel.



Direct Fired (DF) Profile Plate Assembly