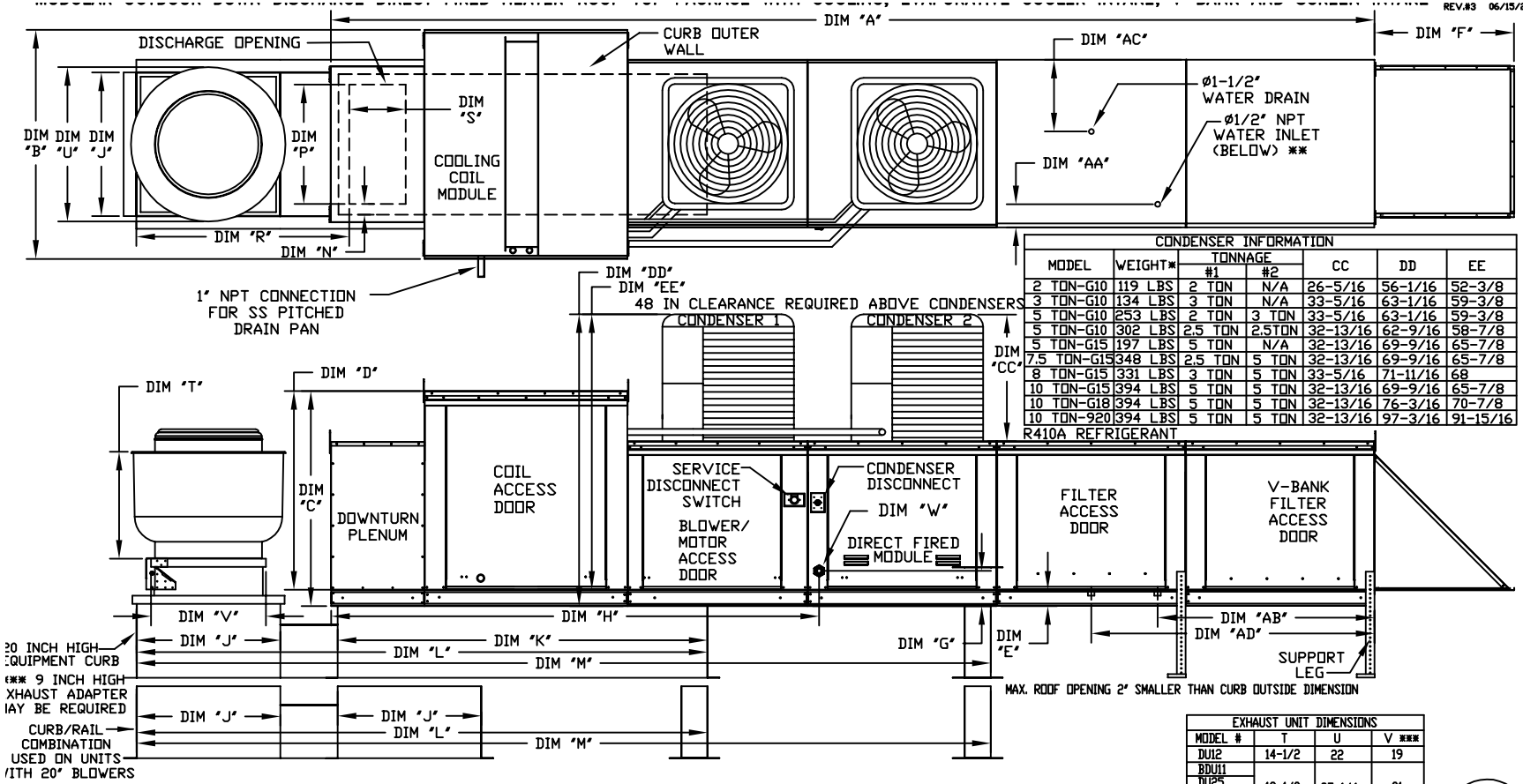
MODULAR OUTDOOR DOWN DISCHARGE DIRECT FIRED HEATER ROOF TOP PACKAGE WITH COOLING, EVAPORATIVE COOLER (WATER), 1" DRAIN PAN SCREEN (WATER)

REV.#3 06/15/2015



CONDENSER INFORMATION						
MODEL	WEIGHT*	TONNAGE #1	TONNAGE #2	CC	DD	EE
2 TON-G10	119 LBS	2 TON	N/A	26-5/16	56-1/16	52-3/8
3 TON-G10	134 LBS	3 TON	N/A	33-5/16	63-1/16	59-3/8
5 TON-G10	253 LBS	2 TON	3 TON	33-5/16	63-1/16	59-3/8
5 TON-G10	302 LBS	2.5 TON	2.5TON	32-13/16	62-9/16	58-7/8
5 TON-G15	197 LBS	5 TON	N/A	32-13/16	69-9/16	65-7/8
7.5 TON-G15	348 LBS	2.5 TON	5 TON	32-13/16	69-9/16	65-7/8
8 TON-G15	331 LBS	3 TON	5 TON	33-5/16	71-11/16	68
10 TON-G15	394 LBS	5 TON	5 TON	32-13/16	69-9/16	65-7/8
10 TON-G18	394 LBS	5 TON	5 TON	32-13/16	76-3/16	70-7/8
10 TON-920	394 LBS	5 TON	5 TON	32-13/16	97-3/16	91-15/16

R410A REFRIGERANT

EXHAUST UNIT DIMENSIONS			
MODEL #	T	U	V ***
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

ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

	UNIT DIMENSIONS								CURB/RAIL				DISCHARGE OPENING				WATER INLET		DRAIN OPENING	
MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	AA	AB	AC	AD
D.250-G10	199-1/2	39-3/8	42-3/4	39	3-3/4	22-3/8	7-13/16	95-7/16	21	71	106	166-5/8	3-9/16	13-7/8	36-13/16	11-1/2	4-1/2	38-1/2	13	48-1/4
D.500-G10	199-1/2	39-3/8	42-3/4	39	3-3/4	22-3/8	7-13/16	95-7/16	21	71	106	166-5/8	3-9/16	13-7/8	36-13/16	11-1/2	4-1/2	38-1/2	13	48-1/4
D.250-G15	213-1/2	49-3/8	47-3/4	44	3-3/4	30-5/16	7-13/16	109-7/16	31	79	124	190-5/8	4-5/16	22-3/8	46-9/16	18	4-1/2	38-1/2	18	48-1/4
D.500-G15	213-1/2	49-3/8	47-3/4	44	3-3/4	30-5/16	7-13/16	109-7/16	31	79	124	190-5/8	4-5/16	22-3/8	46-9/16	18	4-1/2	38-1/2	18	48-1/4
D.750-G15	213-1/2	49-3/8	47-3/4	44	3-3/4	30-5/16	7-13/16	109-7/16	31	79	124	190-5/8	4-5/16	22-3/8	46-9/16	18	4-1/2	38-1/2	18	48-1/4
D.500-G18	230-1/2	54-3/8	56-3/8	51-1/8	5-1/4	34-3/16	9-1/2	114-7/16	35	84	133	199-5/8	6-5/16	22-3/8	49-1/2	18	4-1/2	44	20	57-1/4
D.750-G18	230-1/2	54-3/8	56-3/8	51-1/8	5-1/4	34-3/16	9-1/2	114-7/16	35	84	133	199-5/8	6-5/16	22-3/8	49-1/2	18	4-1/2	44	20	57-1/4
D.1000-G18	230-1/2	54-3/8	56-3/8	51-1/8	5-1/4	34-3/16	9-1/2	114-7/16	35	84	133	199-5/8	6-5/16	22-3/8	49-1/2	18	4-1/2	44	20	57-1/4
D.1000-920	273-15/16	60-7/16	64-3/8	59-1/8	5-1/4	47-1/4	13-9/16	151	42	115-3/16	171-3/16	255-7/8	5-1/4	31-1/2	56-13/16	23-1/2	4-1/2	41-1/8	23-1/2	52-7/8
D.1500-920	273-15/16	60-7/16	64-3/8	59-1/8	5-1/4	47-1/4	13-9/16	151	42	115-3/16	171-3/16	255-7/8	5-1/4	31-1/2	56-13/16	23-1/2	4-1/2	41-1/8	23-1/2	52-7/8

UNIT INFORMATION.

	BTU RANGE (MBH)			GAS PRESSURE		GAS CONNECTION	TONNAGE RANGE		FILTERS	
MODEL	BURNER LENGTH	BTU LOW	BTU HIGH	MIN	MAX	"I" (NPT)	MIN	MAX	FILTER SIZE & QTY	MAX. FILTER VELOCITY
D.250-G10	6'	18	275	7" WC	14" WC	3/4	2 Ton	5 Ton	20"x25"x2" (3)	@3000 CFM = 348 FPM
D.500-G10	12'	18	550	7" WC	14" WC	3/4	2 Ton	5 Ton	20"x25"x2" (3)	@3000 CFM = 348 FPM
D.250-G15	6'	18	275	7" WC	14" WC	1	5 Ton	10 Ton	16"x20"x2" (8)	@6000 CFM = 428 FPM
D.500-G15	12'	18	550	7" WC	14" WC	1	5 Ton	10 Ton	16"x20"x2" (8)	@6000 CFM = 428 FPM
D.750-G15	18'	27.5	825	7" WC	14" WC	1	5 Ton	10 Ton	16"x20"x2" (8)	@6000 CFM = 428 FPM
D.500-G18	12'	18	550	7" WC	14" WC	1	5 Ton	10 Ton	20"x25"x2" (8)	@8000 CFM = 348 FPM
D.750-G18	18'	27.5	825	7" WC	14" WC	1	5 Ton	10 Ton	20"x25"x2" (8)	@8000 CFM = 348 FPM
D.1000-G18	24'	36.6	1100	7" WC	14" WC	1	10 Ton	10 Ton	20"x25"x2" (8)	@8000 CFM = 348 FPM
D.1000-920	24'	36.6	1100	7" WC	5 PSI	1-1/4	10 Ton	10 Ton	16"x20"x2" (15)	@13000 CFM = 495 FPM
D.1500-920	30'	45.8	1375	7" WC	5 PSI	1-1/4	10 Ton	10 Ton	16"x20"x2" (15)	@13000 CFM = 495 FPM

STANDARD EVAPORATIVE COOLING UNIT				
TOT. WEIGHT	MEDIA SIZE & QTY	VEL. @ MAX. CFM	NOZZLES	MAX. FLOW RATE
1235 LBS	20"x25"x2" (3)	406 FPM	6	3 GPH
1240 LBS	20"x25"x2" (3)	406 FPM	6	3 GPH
1670 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
1675 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
1680 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
1980 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
1985 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
1990 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
3060 LBS	16"x20"x2" (15)	572 FPM	24	12 GPH
3075 LBS	16"x20"x2" (15)	572 FPM	24	12 GPH

*ADD CONDENSING UNIT WEIGHT TO WEIGHT IN TABLE ABOVE

CELDEK EVAPORATIVE COOLING UNIT				
TOT. WEIGHT	MEDIA SIZE & QTY	VEL. @ MAX. CFM	NOZZLES	MAX. FLOW RATE
1240 LBS	20"x24"x12"	1050 FPM	12	3.9 GPH
1245 LBS	20"x24"x12"	1050 FPM	12	3.9 GPH
1665 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
1670 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
1675 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
1970 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
1975 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
1980 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
3030 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH
3045 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH

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

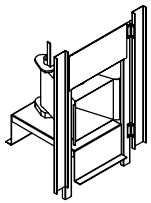
Direct Fired Profile Plate Specifications:

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