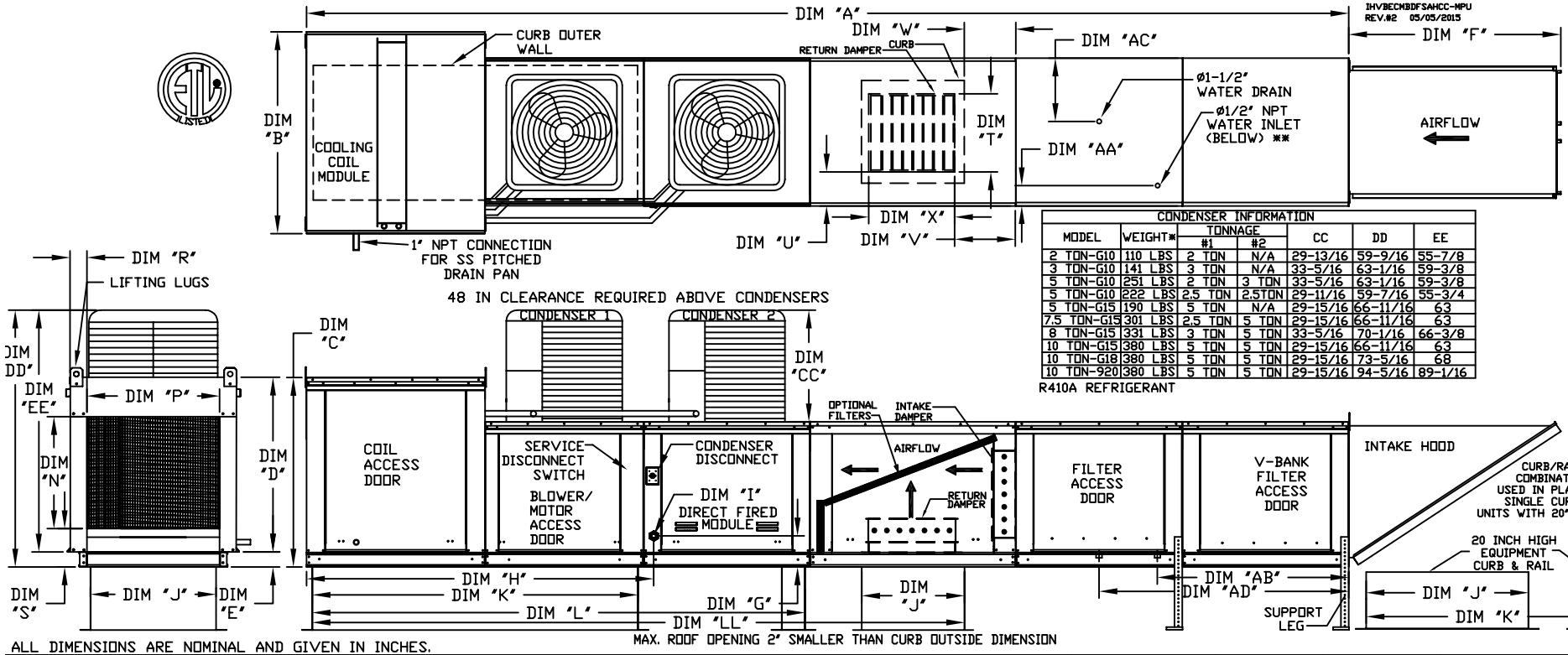
MODULAR OUTDOOR SIDE DISCHARGE DIRECT FIRED RECIRCULATING HEATER WITH COOLING, EVAPORATIVE COOLER INTAKE, V-BANK AND INTAKE HOOD

IHVBECMBDFSAHCC-MPU
REV.#2 05/05/2015



CONDENSER INFORMATION						
MODEL	WEIGHT*	TONNAGE #1	TONNAGE #2	CC	DD	EE
2 TON-G10	110 LBS	2 TON	N/A	29-13/16	59-9/16	55-7/8
3 TON-G10	141 LBS	3 TON	N/A	33-5/16	63-1/16	59-3/8
5 TON-G10	251 LBS	2 TON	3 TON	33-5/16	63-1/16	59-3/8
5 TON-G10	222 LBS	2.5 TON	2.5TON	29-11/16	59-7/16	55-3/4
5 TON-G15	190 LBS	5 TON	N/A	29-15/16	66-11/16	63
7.5 TON-G15	301 LBS	2.5 TON	5 TON	29-15/16	66-11/16	63
8 TON-G15	331 LBS	3 TON	5 TON	33-5/16	70-1/16	66-3/8
10 TON-G15	380 LBS	5 TON	5 TON	29-15/16	66-11/16	63
10 TON-G18	380 LBS	5 TON	5 TON	29-15/16	73-5/16	68
10 TON-920	380 LBS	5 TON	5 TON	29-15/16	94-5/16	89-1/16

R410A REFRIGERANT

ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

	UNIT DIMENSIONS								CURB/RAIL				DISCHARGE OPENING				RETURN OPENING				WATER INLET		DRAIN OPENING		FILTERS	
MODEL	A	B	C	D	E	F	G	H	J	K	L	LL	N	P	R	S	T	U	V	X	AA	AB	AC	AD	FILTER SIZE & QTY	MAX. FILTER VELOCITY
D.250-G10	223-3/8	39-3/8	42-3/4	39	3-3/4	44-3/8	7-13/16	77-1/16	21	71	113-1/4	144-11/16	17-1/2	16	11	5-3/4	14	8	14	18	4-1/2	38 1/2	13	48 1/4	20"x25"x2" (3)	@3000 CFM = 348 FPM
D.500-G10	223-3/8	39-3/8	42-3/4	39	3-3/4	44-3/8	7-13/16	77-1/16	21	71	113-1/4	144-11/16	17-1/2	16	11	5-3/4	14	8	14	18	4-1/2	38 1/2	13	48 1/4	20"x25"x2" (3)	@3000 CFM = 348 FPM
D.250-G15	231-3/8	49-3/8	47-3/4	44	3-3/4	53-5/8	7-13/16	85-1/16	31	79	121-1/4	157-11/16	29-3/4	22-3/4	12-5/8	5-3/4	22-3/4	8	11	24	4-1/2	38 1/2	18	48 1/4	16"x20"x2" (8)	@6000 CFM = 428 FPM
D.500-G15	231-3/8	49-3/8	47-3/4	44	3-3/4	53-5/8	7-13/16	85-1/16	31	79	121-1/4	157-11/16	29-3/4	22-3/4	12-5/8	5-3/4	22-3/4	8	11	24	4-1/2	38 1/2	18	48 1/4	16"x20"x2" (8)	@6000 CFM = 428 FPM
D.750-G15	231-3/8	49-3/8	47-3/4	44	3-3/4	53-5/8	7-13/16	85-1/16	31	79	121-1/4	157-11/16	29-3/4	22-3/4	12-5/8	5-3/4	22-3/4	8	11	24	4-1/2	38 1/2	18	48 1/4	16"x20"x2" (8)	@6000 CFM = 428 FPM
D.500-G18	248-3/8	54-3/8	56-3/8	51-1/8	5-1/4	51-5/8	9-1/2	90-1/16	35	84	126-1/4	165-11/16	29-5/8	30	11-1/2	7-3/8	28	8	7	30	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	51-5/8	9-1/2	90-1/16	35	84	126-1/4	165-11/16	29-5/8	30	11-1/2	7-3/8	28	8	7	30	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	51-5/8	9-1/2	90-1/16	35	84	126-1/4	165-11/16	29-5/8	30	11-1/2	7-3/8	28	8	7	30	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	76-3/8	13-9/16	120-5/8	42	115-3/16	169-1/2	217-1/2	36-3/4	34	12-1/2	7-3/8	33	10	11	36	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	76-3/8	13-9/16	120-5/8	42	115-3/16	169-1/2	217-1/2	36-3/4	34	12-1/2	7-3/8	33	10	11	36	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	"I" (NPT)	MIN	MAX
D.250-G10	6'	18	275	7" WC	14" WC	3/4	2 Ton	5 Ton
D.500-G10	12'	18	550	7" WC	14" WC	3/4	2 Ton	5 Ton
D.250-G15	6'	18	275	7" WC	14" WC	1	2 Ton	5 Ton
D.500-G15	12'	18	550	7" WC	14" WC	1	5 Ton	10 Ton
D.750-G15	18'	27.5	825	7" WC	14" WC	1	5 Ton	10 Ton
D.500-G18	12'	18	550	7" WC	14" WC	1	5 Ton	10 Ton
D.750-G18	18'	27.5	825	7" WC	14" WC	1	5 Ton	10 Ton
D.1000-G18	24'	36.6	1100	7" WC	14" WC	1	10 Ton	10 Ton
D.1000-920	24'	36.6	1100	7" WC	5 PSI	1-1/4	10 Ton	10 Ton
D.1500-920	30'	45.8	1375	7" WC	5 PSI	1-1/4	10 Ton	10 Ton

STANDARD EVAPORATIVE COOLING UNIT				
TOT. WEIGHT	MEDIA SIZE & QTY	VEL. @ MAX. CFM	NOZZLES	MAX. FLOW RATE
1330 LBS	20"x25"x2" (3)	406 FPM	6	3 GPH
1335 LBS	20"x25"x2" (3)	406 FPM	6	3 GPH
1800 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
1805 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
1810 LBS	16"x20"x2" (8)	429 FPM	10	5 GPH
2160 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
2165 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
2170 LBS	20"x25"x2" (8)	348 FPM	14	7 GPH
3455 LBS	16"x20"x2" (15)	572 FPM	24	12 GPH
3470 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
1335 LBS	20"x24"x12"	1050 FPM	12	3.9 GPH
1340 LBS	20"x24"x12"	1050 FPM	12	3.9 GPH
1795 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
1800 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
1805 LBS	25"x32"x12"	1080 FPM	20	6.5 GPH
2150 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
2155 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
2160 LBS	30"x36"x12"	1067 FPM	28	8.4 GPH
3425 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH
3440 LBS	38"x43"x12"	1322 FPM	35	10.15 GPH

OPTIONAL MIXING BOX FILTERS
FILTER SIZE & QTY
10"x16"x2" (5)
10"x16"x2" (5)
20"x25"x2" (2), 16"x25"x2" (1)
20"x25"x2" (2), 16"x25"x2" (1)
20"x25"x2" (2), 16"x25"x2" (1)
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)

*ADD CONDENSING UNIT WEIGHT TO WEIGHT IN TABLE ABOVE

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

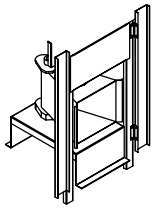
Direct Fired Profile Plate Specifications:

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.
-Spring hinges shall be made from plated steel.



Direct Fired (DF) Profile Plate Assembly