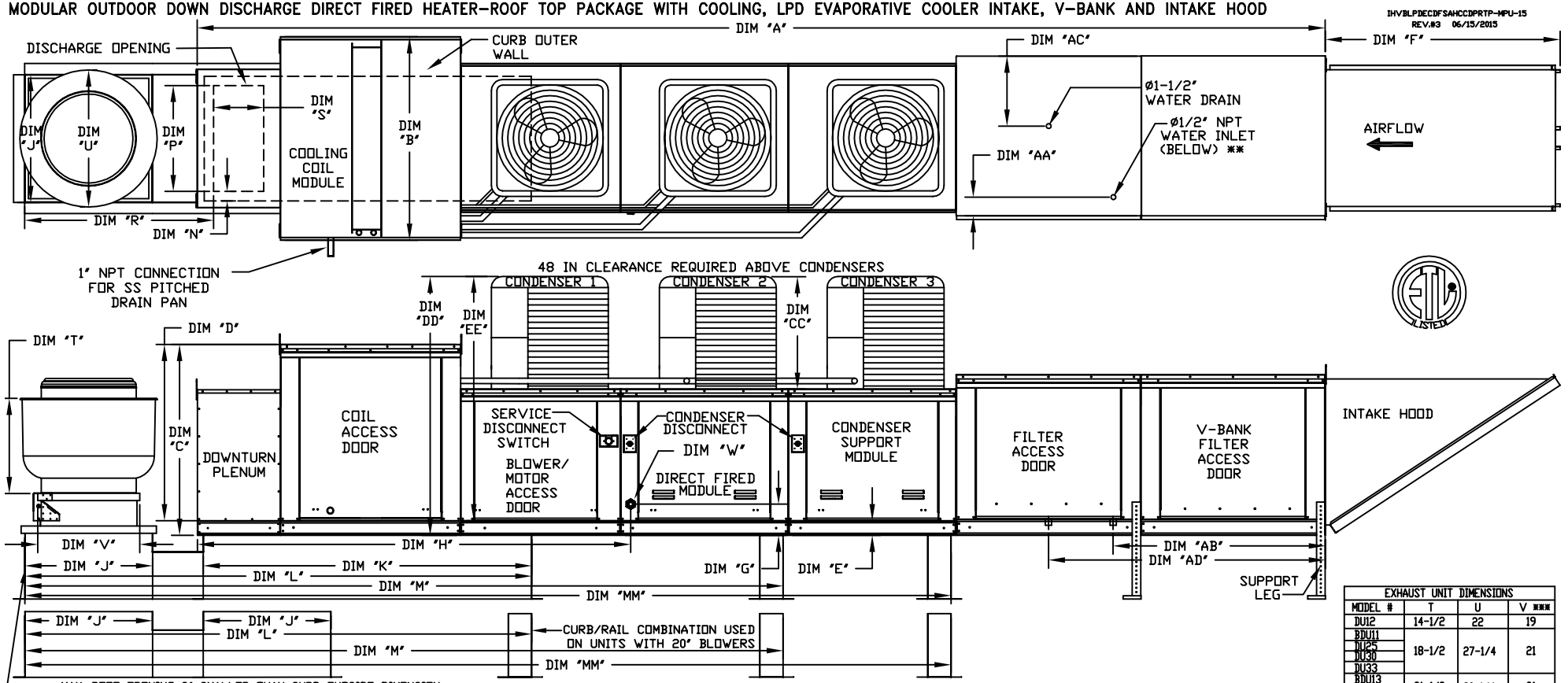
MODULAR OUTDOOR DOWN DISCHARGE DIRECT FIRED HEATER–ROOF TOP PACKAGE WITH COOLING, LPD EVAPORATIVE COOLER INTAKE, V–BANK AND INTAKE HOOD

IHVBLPDECDFSAHCCDPRTP–MPU–15
REV.#3 06/15/2015



MAX. ROOF OPENING 2" SMALLER THAN CURB OUTSIDE DIMENSION

	UNIT DIMENSIONS								CURB/RAIL					DISCHARGE OPENING				WATER INLET		DRAIN OPENING		FILTERS
MODEL	A	B	C	D	E	F	G	H	J	K	L	M	MM	N	P	R	S	AA	AB	AC	AD	FILTER SIZE & QTY
D.500–G18	267	54–3/8	56–3/8	51–1/8	5–1/4	76–3/8	9–1/2	114–7/16	35	84	133	199–5/8	241–7/8	6–5/16	22–3/8	49–1/2	18	4–1/2	41–1/8	23–1/2	52–7/8	16"x20"x2" (15)
D.750–G18	267	54–3/8	56–3/8	51–1/8	5–1/4	76–3/8	9–1/2	114–7/16	35	84	133	199–5/8	241–7/8	6–5/16	22–3/8	49–1/2	18	4–1/2	41–1/8	23–1/2	52–7/8	16"x20"x2" (15)
D.1000–G18	267	54–3/8	56–3/8	51–1/8	5–1/4	76–3/8	9–1/2	114–7/16	35	84	133	199–5/8	241–7/8	6–5/16	22–3/8	49–1/2	18	4–1/2	41–1/8	23–1/2	52–7/8	16"x20"x2" (15)
D.1000–920	327–1/4	60–7/16	64–3/8	59–1/8	5–1/4	71–3/8	13–9/16	151	42	115–3/16	171–3/16	255–7/8	310–3/16	5–1/4	31–1/2	56–13/16	23–1/2	4–1/2	41–1/8	28–7/8	52–7/8	20"x25"x2" (12)
D.1500–920	327–1/4	60–7/16	64–3/8	59–1/8	5–1/4	71–3/8	13–9/16	151	42	115–3/16	171–3/16	255–7/8	310–3/16	5–1/4	31–1/2	56–13/16	23–1/2	4–1/2	41–1/8	28–7/8	52–7/8	20"x25"x2" (12)

–20 INCH HIGH EQUIPMENT CURB

*** 9 INCH HIGH EXHAUST ADAPTER MAY BE REQUIRED

EXHAUST UNIT DIMENSIONS			
MODEL #	T	U	V ***
DU12	14–1/2	22	19
BDU11 DU25 DU30 DU33	18–1/2	27–1/4	21
BDU13 DU50	21–1/2	30–1/4	21
BDU15 DU75 DU85	23	33–3/4	24–3/4
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

UNIT INFORMATION.

	BTU RANGE (MBH)			GAS PRESSURE		GAS CONNECTION	TONNAGE RANGE	
MODEL	BURNER LENGTH	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

ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

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

CELDEK EVAPORATIVE COOLING UNIT			
TOT. WEIGHT	MEDIA SIZE & QTY	NOZZLES	MAX. FLOW RATE
2280 LBS	38"x43"x12"	35	10.15 GPH
2285 LBS	38"x43"x12"	35	10.15 GPH
2290 LBS	38"x43"x12"	35	10.15 GPH
3295 LBS	45"x54"x12"	42	12.6 GPH
3310 LBS	45"x54"x12"	42	12.6 GPH

*ADD CONDENSING UNIT WEIGHT TO WEIGHT IN TABLE ABOVE
**MAX. EVAP WATER PRESSURE = 50 PSI @ 70 DEG. F

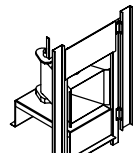
Direct Fired Profile Plate Specifications:

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.



Direct Fired (DF) Profile Plate Assemb