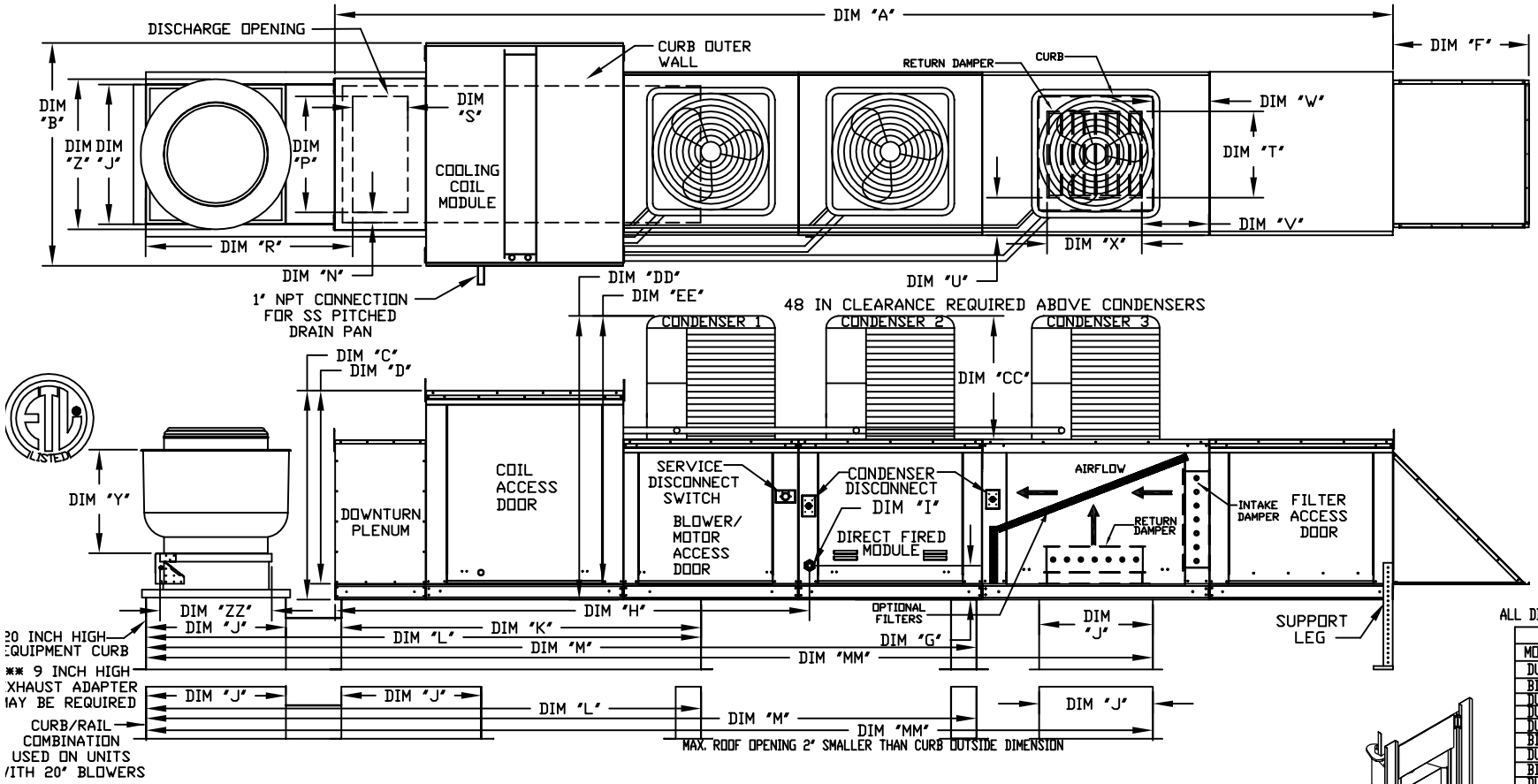
MODULAR OUTDOOR DOWN DISCHARGE DIRECT FIRED RECIRCULATING HEATER-ROOF TOP PACKAGE WITH COOLING, V-BANK AND SCREEN INTAKE

SIVBMBDFSAHCCDPRTP-ML-MPU-15
REV.#2 05/05/2015



ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHE

EXHAUST UNIT DIMENSIONS			
MODEL #	Y	Z	ZZ **
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 DIMENSIONS								CURB/RAIL					DISCHARGE OPENING				RETURN DAMPER OPENING				
MODEL	WEIGHT	A	B	C	D	E	F	G	H	J	K	L	M	MM	N	P	R	S	T	U	V	W	X
D.500-G18	2020 LBS	234-1/2	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	239-1/16	6-5/16	22-3/8	49-1/2	18	28	8	7	4-1/2	30
D.750-G18	2025 LBS	234-1/2	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	239-1/16	6-5/16	22-3/8	49-1/2	18	28	8	7	4-1/2	30
D.1000-G18	2030 LBS	234-1/2	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	239-1/16	6-5/16	22-3/8	49-1/2	18	28	8	7	4-1/2	30
D.1000-920	3205 LBS	292-7/8	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	303-7/8	5-1/4	31-1/2	56-13/16	23-1/2	33	10	11	8	36
D.1500-920	3220 LBS	292-7/8	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	303-7/8	5-1/4	31-1/2	56-13/16	23-1/2	33	10	11	8	36

UNIT INFORMATION.

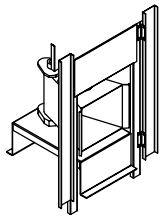
	BTU RANGE (MBH)			GAS PRESSURE		GAS CONNECTION	TONNAGE RANGE		FILTERS	
MODEL	BURNER LENGTH	BTU LOW	BTU HIGH	MIN	MAX	"I" (NPT)	MIN	MAX	FILTER SIZE & QTY	MAX. FILTER VELOCITY
D.500-G18	12"	18	550	7" WC	14" WC	1	15 Ton	15 Ton	20"x25"x2" (8)	@8000 CFM = 348 FPM
D.750-G18	18"	27.5	825	7" WC	14" WC	1	15 Ton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

OPTIONAL MIXING BOX FILTERS
FILTER SIZE & QTY
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

CONDENSER INFORMATION							
MODEL	WEIGHT*	TONNAGE			CC	DD	EE
		#1	#2	#3			
15 TON-G18	588 LBS	5 TON	5 TON	5 TON	29-15/16	73-5/16	68-1/16
15 TON-920	588 LBS	5 TON	5 TON	5 TON	29-15/16	94-5/16	89-1/16

*410A REFRIGERANT



Direct Fired (DF) Profile Plate Assembly

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.