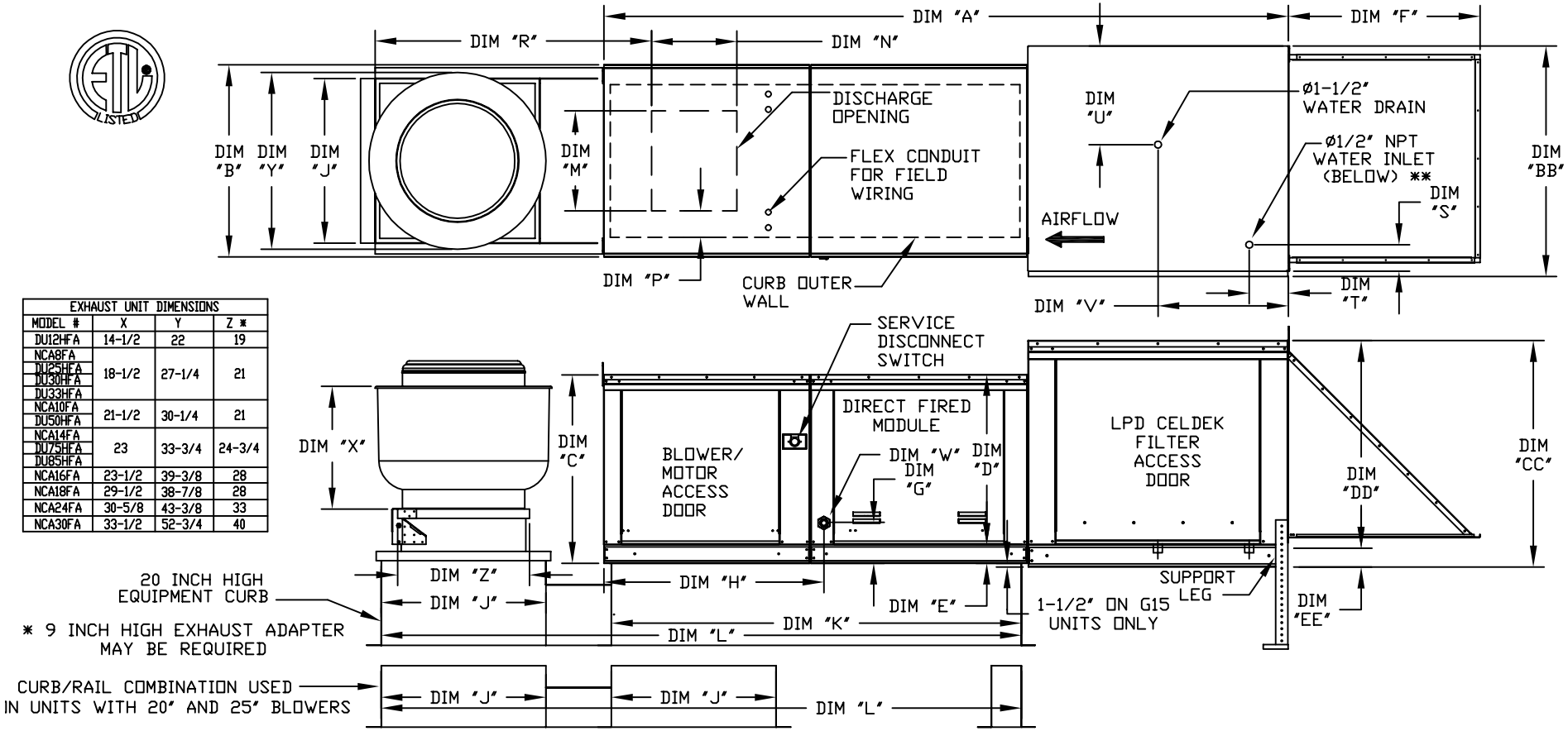
MODULAR OUTDOOR DOWN DISCHARGE DIRECT FIRED HEATER–ROOF TOP PACKAGE WITH LPD EVAPORATIVE COOLER AND SCREEN INTAKE

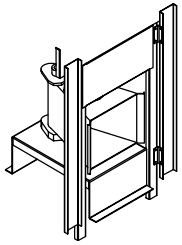
SILPDECDFDAHRTF
REV.#6 05/05/20



EXHAUST UNIT DIMENSIONS			
MODEL #	X	Y	Z *
DU12HFA	14-1/2	22	19
NCA8FA	18-1/2	27-1/4	21
DU25HFA			
DU30HFA			
DU33HFA			
NCA10FA	21-1/2	30-1/4	21
DU50HFA			
NCA14FA	23	33-3/4	24-3/4
DU75HFA			
DU85HFA			
NCA16FA	23-1/2	39-3/8	28
NCA18FA	29-1/2	38-7/8	28
NCA24FA	30-5/8	43-3/8	33
NCA30FA	33-1/2	52-3/4	40

ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

	UNIT DIMENSIONS												CURB			DISCHARGE OPENING				WATER INLET		DRAIN OPENING	
MODEL	A	B	BB	C	CC	D	DD	E	EE	F	G	H	J	K	L	M	N	P	R	S	T	U	V
D.250-G10	106-5/8	27-3/8	36-3/4	29-3/4	36-3/4	26-1/16	33	3-3/4	3-3/4	30-5/16	7-13/16	34-13/16	21	71	106	13-1/4	11-1/2	3-7/8	36-3/4	4-1/2	6-1/4	18	16
D.500-G10	106-5/8	27-3/8	36-3/4	29-3/4	36-3/4	26-1/16	33	3-3/4	3-3/4	30-5/16	7-13/16	34-13/16	21	71	106	13-1/4	11-1/2	3-7/8	36-3/4	4-1/2	6-1/4	18	16
D.250-G15	120-5/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	34-3/16	7-13/16	42-13/16	31	79	124	18-3/4	16	6-1/8	50-1/2	4-1/2	5-3/4	20	19
D.500-G15	120-5/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	34-3/16	7-13/16	42-13/16	31	79	124	18-3/4	16	6-1/8	50-1/2	4-1/2	5-3/4	20	19
D.750-G15	120-5/8	37-3/8	40-3/4	36-3/4	43-3/8	33-1/16	38-1/8	3-3/4	5-1/4	34-3/16	7-13/16	42-13/16	31	79	124	18-3/4	16	6-1/8	50-1/2	4-1/2	5-3/4	20	19
D.500-G18	122-3/4	41-3/8	47-7/8	43-3/8	51-3/8	38-1/16	46-1/8	5-1/4	5-1/4	47-1/4	9-1/2	47-13/16	35	84	133	22	19	6-1/2	56	4-1/2	5-3/4	23-1/2	17-1/2
D.750-G18	122-3/4	41-3/8	47-7/8	43-3/8	51-3/8	38-1/16	46-1/8	5-1/4	5-1/4	47-1/4	9-1/2	47-13/16	35	84	133	22	19	6-1/2	56	4-1/2	5-3/4	23-1/2	17-1/2
D.1000-G18	122-3/4	41-3/8	47-7/8	43-3/8	51-3/8	38-1/16	46-1/8	5-1/4	5-1/4	47-1/4	9-1/2	47-13/16	35	84	133	22	19	6-1/2	56	4-1/2	5-3/4	23-1/2	17-1/2
D.1000-920	153-7/8	48-7/16	58-5/8	51-3/8	58-3/8	46-1/8	53-1/8	5-1/4	5-1/4	49-5/8	13-9/16	66-5/16	42	115-3/16	171-3/16	24-7/8	24-7/8	8-9/16	57-1/8	4-1/2	5-3/4	28-7/8	17-1/2
D.1500-920	153-7/8	48-7/16	58-5/8	51-3/8	58-3/8	46-1/8	53-1/8	5-1/4	5-1/4	49-5/8	13-9/16	66-5/16	42	115-3/16	171-3/16	24-7/8	24-7/8	8-9/16	57-1/8	4-1/2	5-3/4	28-7/8	17-1/2



Direct Fired (DF) Profile Plate Assembly

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.250-G15	6'	18	275	7" WC	14" WC	1
D.500-G15	12'	18	550	7" WC	14" WC	1
D.750-G15	18'	27.5	825	7" WC	14" WC	1
D.500-G18	12'	18	550	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

CELDEK EVAPORATIVE COOLING UNIT			
TOT. WEIGHT	MEDIA SIZE & QTY	NOZZLES	MAX. FLOW RATE
760 LBS	25"x32"x12"	20	6.5 GPH
765 LBS	25"x32"x12"	20	6.5 GPH
1055 LBS	30"x36"x12"	28	8.4 GPH
1060 LBS	30"x36"x12"	28	8.4 GPH
1065 LBS	30"x36"x12"	28	8.4 GPH
1280 LBS	38"x43"x12"	35	10.15 GPH
1285 LBS	38"x43"x12"	35	10.15 GPH
1290 LBS	38"x43"x12"	35	10.15 GPH
1925 LBS	45"x54"x12"	42	12.6 GPH
1940 LBS	45"x54"x12"	42	12.6 GPH

MAX. ROOF OPENING 2" SMALLER THAN CURB OUTSIDE 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 (NO_2).

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.