

1124-PE/MPE**-****

POWER EXHAUST/ECONOMIZER
VERTICAL OR HORIZONTAL APPLICATIONS

FEATURES

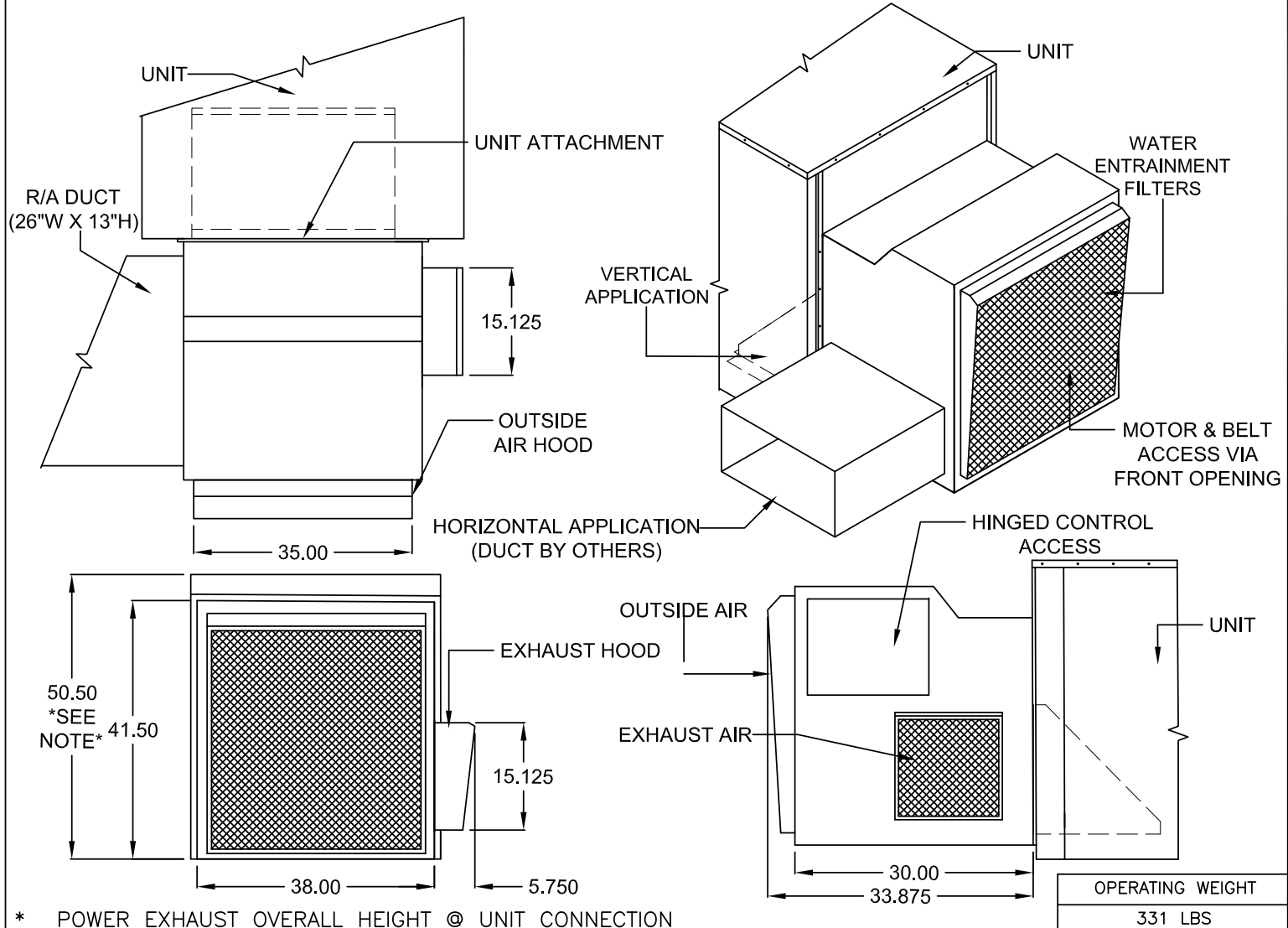
- 1) CONVERTIBLE FOR BOTH HORIZONTAL & VERTICAL APPLICATIONS.
- 2) COLOR KEYED CHASSIS.
- 3) DWDI FORWARD CURVE CENTRIFUGAL FAN.
- 4) THERMAL OVERLOAD PROTECTED MOTORS.
- 5) HINGED CONTROL ACCESS DOOR.
- 6) VARIABLE FREQUENCY DRIVE (MODULATING OPTION)
- 7) LOGIC MODULE.
- 8) OAT SENSOR.
- 9) MAT SENSOR.
- 10) COMMUNICATING ACTUATOR.
- 11) CLASS 1A OUTSIDE AIR & RETURN AIR DAMPERS.
- 12) COMMERCIAL BACKDRAFT DAMPER WITH BLADE EDGE SEALS MECHANICALLY LOCKED INTO BLADE EDGE.



AMCA RATED CLASS 1A
LEAKAGE RATED HIGH
PERFORMANCE DAMPER
ONE-PIECE AIRFOIL BLADE
FOR LOW PRESSURE DROP

OPTIONS

- 1) DRY BULB SENSOR (OAT)
- 2) ENTHALPY SENSOR (OAT)
- 3) DUAL DRY BULB (OAT/RAT)
- 4) DUAL ENTHALPY (OAT/RAT)
- 5) BACNET VARIABLE FREQUENCY DRIVE
- 6) ACTUATOR ONLY
- 7) NO CONTROLS



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FOR:

PART NO:

ENGINEER: DV

DRAWING NO:

APPROVED BY:

PROJECT:

DISTRIBUTOR:

Rev: 10

DATE: 5/1/20

DATE: / /

MOTOR / ELECTRICAL DATA

MODEL: 1124				115 VOLT/1 PH			208 VOLT/ 1PH			230 VOLT/ 1PH			208 VOLT/3 PH			230 VOLT/ 3PH			460 VOLT/ 3PH		
MOTOR				MOTOR			MOTOR			MOTOR			MOTOR			MOTOR			MOTOR		
TONS	CFM	RPM	HP	FLA	MCA	MOCP	FLA	MCA	MOCP	FLA	MCA	MOCP	FLA	MCA	MOCP	FLA	MCA	MOCP	FLA	MCA	MOCP
6	2400	806	0.75	10	12.5	22.5	5.2	6.5	11.7	5	6.25	11.25	2.9	3.625	6.525	3	3.75	6.75	1.5	1.875	3.375
7.5	3000	860	1.5	16.4	20.5	36.9	8.4	10.5	18.9	8.2	10.25	18.45	5	6.25	11.25	4.8	6	10.8	2.4	3	5.4
8.5	3400	904	1.5	16.4	20.5	36.9	8.4	10.5	18.9	8.2	10.25	18.45	5	6.25	11.25	4.8	6	10.8	2.4	3	5.4
10	4000	978	2	21	26.25	47.25	11.3	14.125	25.425	10.5	13.125	23.625	6.2	7.75	13.95	6.2	7.75	13.95	3.1	3.875	6.975
12.5	5000	1117	5													12.6	15.75	28.35	6.3	7.875	14.175

POWER EXHAUST IS DESIGNED FOR A ESP OF .50 WC
FAN PERFORMANCE LAB TESTED BY FAN MANUFACTURER

SOUND POWER LEVELS

2400	FREQ (Hz)	63	125	250	500	1K	2K	4K	8K	OVERALL
	Lw (dB)	87	87	77	70	72	65	60	55	91
	Lw (dB) (A)	61	71	68	67	72	66	61	54	77
3000	FREQ (Hz)	63	125	250	500	1K	2K	4K	8K	OVERALL
	Lw (dB)	88	88	78	73	71	66	61	56	92
	Lw (dB) (A)	62	72	69	70	71	67	62	55	78
3400	FREQ (Hz)	63	125	250	500	1K	2K	4K	8K	OVERALL
	Lw (dB)	92	92	82	77	75	70	65	60	95
	Lw (dB) (A)	66	76	73	74	75	71	66	59	81
4000	FREQ (Hz)	63	125	250	500	1K	2K	4K	8K	OVERALL
	Lw (dB)	93	93	83	78	76	71	66	61	96
	Lw (dB) (A)	67	77	74	75	76	72	67	60	82
5000	FREQ (Hz)	63	125	250	500	1K	2K	4K	8K	OVERALL
	Lw (dB)	90	90	80	73	75	68	63	58	94
	Lw (dB) (A)	64	74	71	70	75	69	64	57	

SHEAVE ADJUSTMENT

SHEAVE TURNS TO ACHIEVE CFM/RPM		
CFM	SHEAVE TURNS	ACTUAL RPM
2400	4.5	806
3000	3.5	860
3400	0.5	904
4000	1	978
5000	0	1117

DAMPER PRESSURE DROP

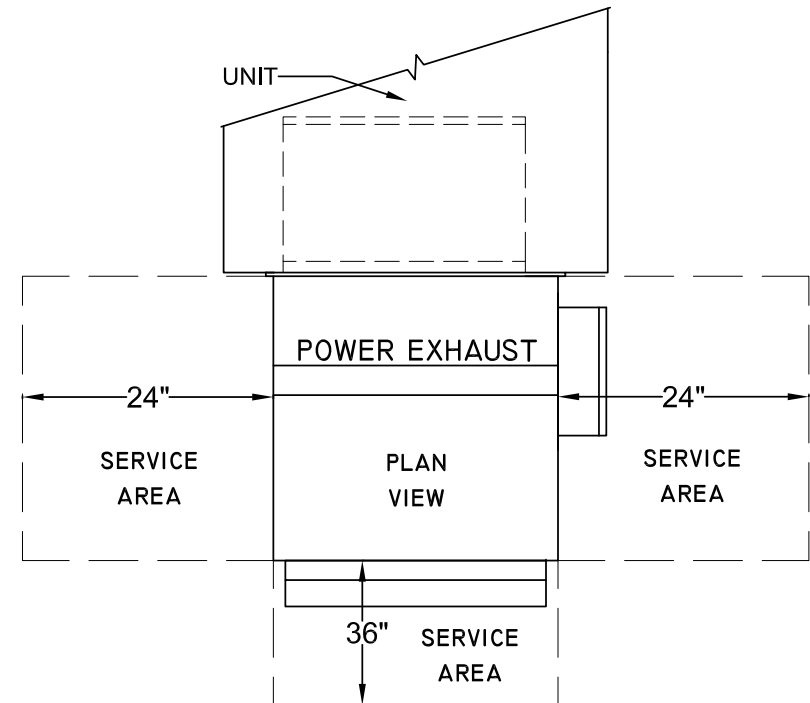
DAMPER PRESSURE DROP		
CFM	O/A PD (INW.G.)	R/A PD (INW.G.)
2400	0.0097	0.0097
3000	0.0152	0.0152
3400	0.0195	0.0195
4000	0.027	0.027
5000	0.0286	0.0286

NOTE: TURNS OPEN ARE DETERMINED FROM FULLY CLOSED POSITION

FAN DATA ACQUIRED BY 3RD PARTY TESTING

SERVICE CLEARANCES

SERVICE AREA NOT DRAWN TO SCALE.



PART NUMBER DESCRIPTOR

- A: POWER EXHAUST MODEL NUMBER
 B: POWER EXHAUST TYPE / PE = ON/OFF / MPE = MODULATING
 C: POWER EXHAUST CFM VOLUME (FROM SUBMITTAL CHARTS)
 D: MOTOR HORSEPOWER DESIGNATOR FROM CHART BELOW
 E: POWER EXHAUST VOLTAGE FROM CHART BELOW
 F: CONTROL OPTION PACKAGE FROM CHART BELOW

A	B	C	D	E	F
		CFM	MOTOR		
CHASSIS	TYPE	X100	HP	VOLTAGE	CONTROL
6142	PE	24	B	4	H
6142	MPE	24	B	4	H

COMPLETED PART NUMBER
6142-PE24B-4H
6142-MPE24B-4H

MOTOR	
HP	
0.5	A
0.75	B
1	C
1.5	D
2	E
3	F
5	G
7.5	H
10	I
15	J

VOLTAGE	
115/1	5
208/1	0
230/1	2
208/3	1
230/3	3
460/3	4

CONTROL OPTION PACKAGES			
	ACTUATOR	SENSORS	SYSTEM
A =	HONEYWELL	DRYBULB	JADE
B =	TRANE	DRYBULB	RELIATEL
C =	HONEYWELL	ENTHALPY	JADE
D =	TRANE	ENTHALPY	RELIATEL
E =	HONEYWELL	DUAL DRY BULB	JADE
F =	TRANE	DUAL DRY BULB	RELIATEL
G =	HONEYWELL	DUAL ENTHALPY	JADE
H =	TRANE	DUAL ENTHALPY	RELIATEL



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