

# I120-PE/MPE\*\*\_\*\*\*\*

POWER EXHAUST/ECONOMIZER  
VERTICAL OR HORIZONTAL APPLICATIONS

## FEATURES

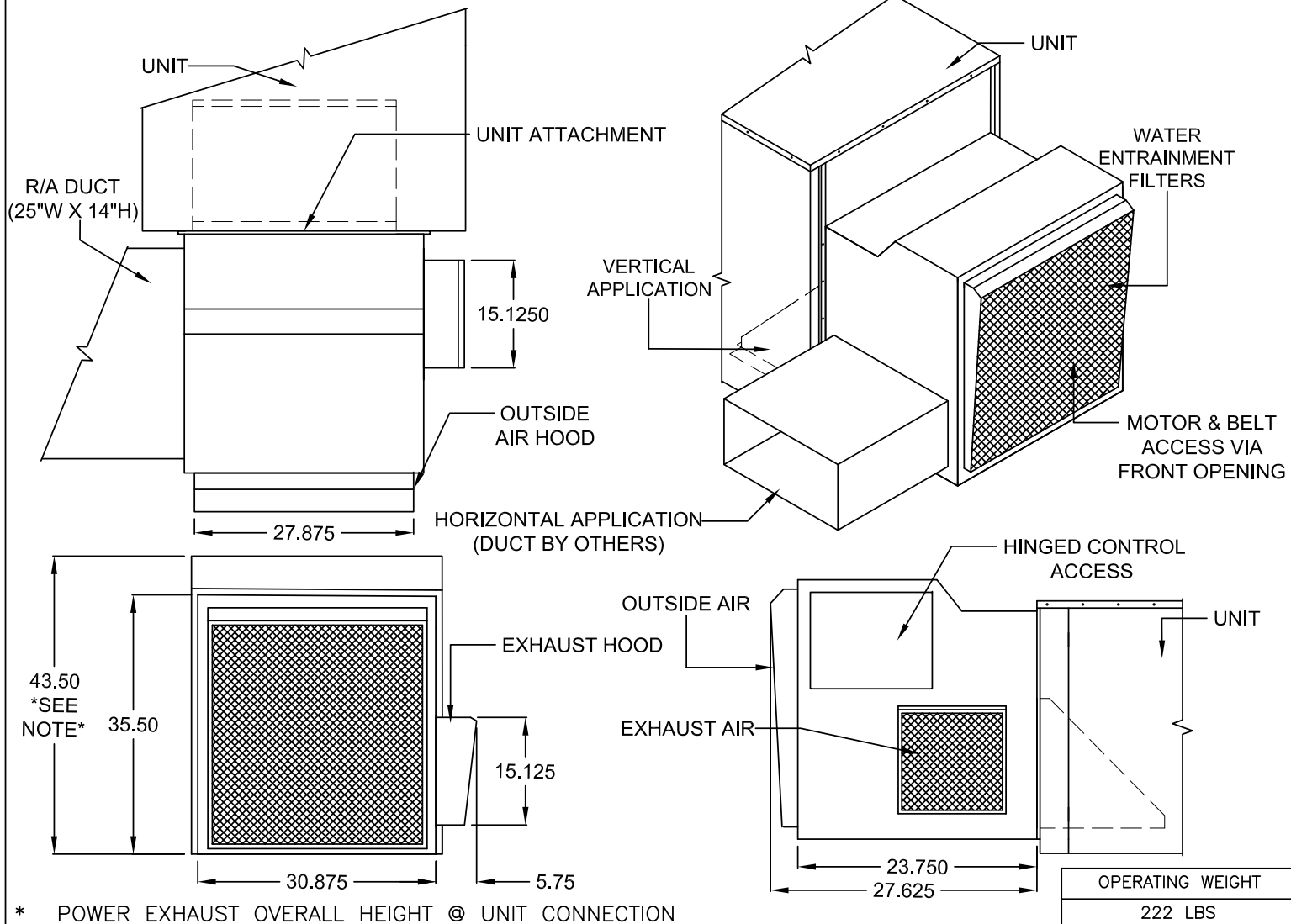
- 1) CONVERTIBLE FOR BOTH HORIZONTAL & VERTICAL APPLICATIONS.
- 2) COLOR KEYED CHASSIS.
- 3) DWDI FORWARD CURVE CENTRIFUGAL FAN.
- 4) THERMAL OVERLOAD PROTECTED MOTORS.
- 5) HINGED CONTROL ACCESS DOOR.
- 6) VARIABLE FREQUENCY DRIVE (MODULATING OPTION)
- 7) LOGIC MODULE.
- 8) OAT SENSOR.
- 9) MAT SENSOR.
- 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



\* POWER EXHAUST OVERALL HEIGHT @ UNIT CONNECTION

OPERATING WEIGHT  
222 LBS



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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: 1120				115 VOLT/1 PH MOTOR			208 VOLT/ 1PH MOTOR			230 VOLT/ 1PH MOTOR			208 VOLT/3 PH MOTOR			230 VOLT/ 3PH MOTOR			460 VOLT/ 3PH MOTOR		
TONS	CFM	RPM	MOTOR HP	FLA	MCA	MOCP	FLA	MCA	MOCP	FLA	MCA	MOCP	FLA	MCA	MOCP	FLA	MCA	MOCP	FLA	MCA	MOCP
4	1600	889	0.5	6.2	7.75	13.95	3	3.75	6.75	3.1	3.875	6.975	2.2	2.75	4.95	2.4	3	5.4	1.2	1.5	2.7
5	2000	959	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
6	2400	1041	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

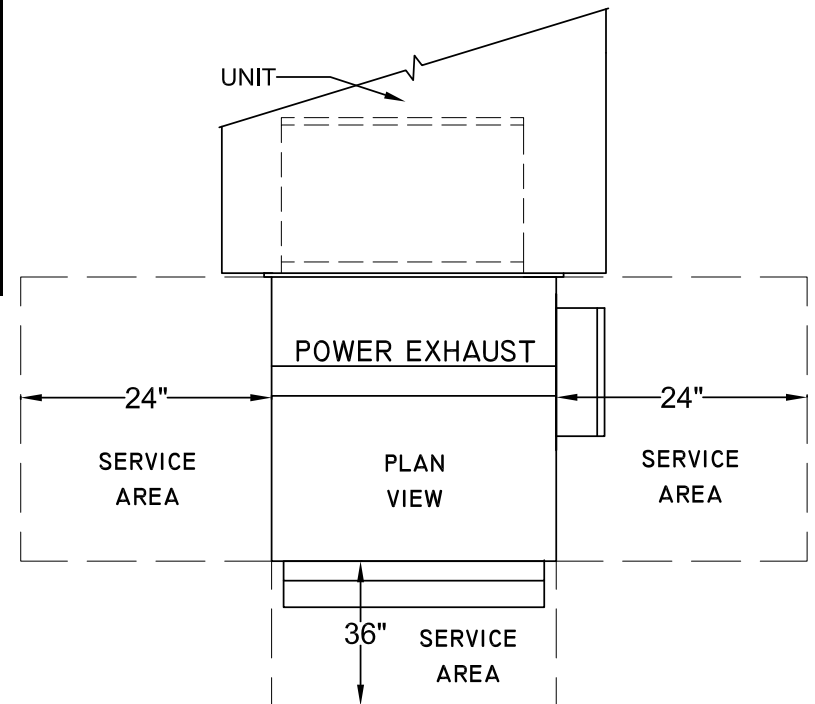
POWER EXHAUST IS DESIGNED FOR A ESP OF .50 WC  
FAN PERFORMANCE LAB TESTED BY FAN MANUFACTURER

## SOUND POWER LEVELS

1600	FREQ (Hz)	63	125	250	500	1K	2K	4K	8K	OVERALL
	Lw (dB)	80	80	70	63	65	58	53	48	83
Lw (dB) (A)	54	64	61	60	65	59	54	47	69	
2000	FREQ (Hz)	63	125	250	500	1K	2K	4K	8K	OVERALL
	Lw (dB)	84	84	74	67	69	62	57	52	87
Lw (dB) (A)	58	68	65	64	69	63	58	51	73	
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	

## SERVICE CLEARANCES

\*SERVICE AREA NOT DRAWN TO SCALE.\*



## SHEAVE ADJUSTMENT

SHEAVE TURNS TO ACHIEVE CFM/RPM		
CFM	SHEAVE TURNS	ACTUAL RPM
1600	4	889
2000	3	959
2400	2	1041

## DAMPER PRESSURE DROP

DAMPER PRESSURE DROP		
CFM	O/A PD (INW.G.)	R/A PD (INW.G.)
1600	0.0244	0.0244
2000	0.0382	0.0382
2400	0.0458	0.0458

\*NOTE: TURNS OPEN ARE DETERMINED FROM FULLY CLOSED POSITION\*

\*FAN DATA ACQUIRED BY 3RD PARTY TESTING\*

# 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	RELIA TEL
C =	HONEYWELL	ENTHALPY	JADE
D =	TRANE	ENTHALPY	RELIA TEL
E =	HONEYWELL	DUAL DRY BULB	JADE
F =	TRANE	DUAL DRY BULB	RELIA TEL
G =	HONEYWELL	DUAL ENTHALPY	JADE
H =	TRANE	DUAL ENTHALPY	RELIA TEL



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