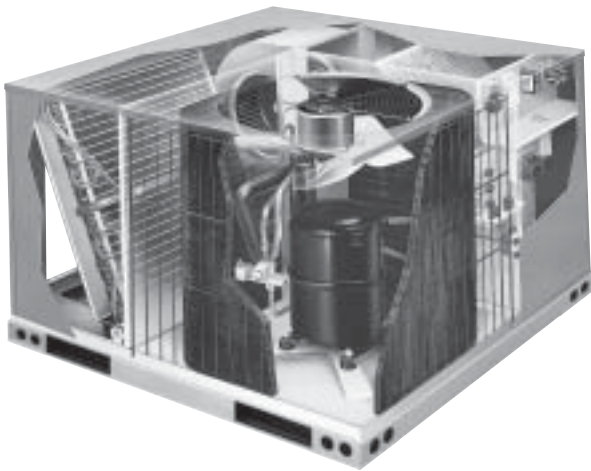




PHP10



Compak™ 10

Package Heat Pump

2-5 Ton 10 SEER

REFRIGERANT SYSTEM

- Heavy-duty, high efficiency compressor
- Copper tubing with enhanced fin coils
- External service gauge ports

CABINET

- Low profile with compact footprint
- Insulation to minimize heat loss
- Baked polyester paint finish over galvanized steel cabinet for maximum durability
- Easy service access
- Wire grille to protect condenser coil
- One piece "no leak" top design
- Weather protected heavy-duty condenser fan motor
- Aluminum fan for long life
- Internal 1" filter rack

BLOWER

- Insulated compartment to reduce sound
- Split ring design with quick plug-in wiring
- Multispeed motor for wide airflow range
- PSC prelubricated motor for low maintenance and maximum efficiency
- Dynamically balanced blower with resilient motor mounts for smooth and quiet operation

CONTROLS

- Trade available components
- Solid state defrost control board
- Color coded wiring for easy service

INSTALLATION

- Horizontal or down discharge
- Factory wired for economizer connection (C Series 3 phase only)
- Full perimeter base rail system for easy installation on roofcurb applications
- C Series 3 phase units set up for down discharge

WARRANTY

- 5 Years on all parts (2 years on C Series 3 phase)
- 5 Years limited on compressor

ACCESSORIES

- Hinged Roofcurb
- Concentric Duct Kit
- Economizer - Horizontal Modulating
- Economizer - Downflow Modulating w/Relief
- Electric Strip Heat Kits (5 – 25 kw)
- Single Point Power Entry Kit
- Barometric Relief Damper
- 0 – 25% Manual Outside air kit
- 0 – 25% automatic outside air kit
- Short cycle protector
- Low ambient kit
- Outdoor thermostat kits



Model Number Guide

	P	HP	10	B	48	D	A	-	1	
P - Package										Revision Code
HP - Heat Pump										A - 208-230V/60HZ/1Ø
10 - Nominal SEER										B - 200-230V/60HZ/3Ø
B - Series										C - 460V/60HZ/3Ø
Nominal Capacity										D - 575V/60HZ/3Ø
48 - 48,000 Btuh										D - Direct Drive

Physical

Model	Outside Fan		Indoor Blower Wheel dia. x width (in.)	Refrigerant Charge (oz.)	Weight (lbs.)
	Diameter (in.)	Nominal RPM			
PHP10*24	18	1,075	10 x 6	75	260
PHP10*30	18	1,075	10 x 8	80	280
PHP10*36	18	1,075	10 x 8	89	300
PHP10*42	18	1,075	10 x 9	102	330
PHP10*48	20	1,075	12 x 10	118	420
PHP10*60	20	1,075	12 x 10	179	440

*Refers to B or C series (C series 3 phase only).

Electrical

Model	Voltage/Hz/Phase	Normal Voltage Range	Min. Circuit Ampacity	Max. Fuse/HACR Brkr.	Compressor		Fan Motor		Indoor Blower	
					Rated Load (amps)	Locked Rotor (amps)	Rated Load (amps)	Rated HP	Rated Load (amps)	Rated HP
PHP10B24DA	208-230/60/1	197-253	16.0	25	9.8	56	.9	1/8	2.8	1/2
PHP10B30DA	208-230/60/1	197-253	20.6	30	13.7	75	.9	1/8	2.8	1/2
PHP10B36DA	208-230/60/1	197-253	21.8	30	13.8	78.8	1.8	1/4	2.8	1/2
PHP10B42DA	208-230/60/1	197-253	26.6	35	17.1	105	1.8	1/4	3.4	1/2
PHP10B48DA	208-230/60/1	197-253	34.0	45	21.8	131	1.8	1/4	5.0	9/10
PHP10B60DA	208-230/60/1	197-253	41.6	55	27.8	170	1.8	1/4	5.0	9/10
PHP10C36DB	200-230/60/3	187-253	17.5	25	10.3	75	1.8	1/4	2.8	1/2
PHP10C48DB	200-230/60/3	187-253	22.8	30	12.8	91	1.8	1/4	5.0	9/10
PHP10C60DB	200-230/60/3	187-253	28.3	40	17.2	124	1.8	1/4	5.0	9/10
PHP10C48DC	460/60/3	414-506	11.4	15	6.4	46	.9	1/4	2.7	9/10
PHP10C60DC	460/60/3	414-506	13.9	20	8.2	59.6	.9	1/4	2.7	9/10
PHP10C48DD	575/60/3	518-633	9.1	15	5.1	37	.7	1/4	2.0	9/10
PHP10C60DD	575/60/3	518-633	11.6	15	7.1	50	.7	1/4	2.0	9/10

Performance

Model	Cooling				Heating					CFM
	Btuh	SEER	EER	S/T	HSPF	47°F		18°F		
						Btuh	COP	Btuh	COP	
PHP10*24	23,000	10.00	9.20	.72	6.80	22,600	3.10	12,600	2.00	800
PHP10*30	29,000	10.00	9.10	.72	6.80	28,600	3.10	15,800	2.00	1,000
PHP10*36	34,000	10.00	9.00	.74	7.00	34,000	3.15	21,000	2.20	1,200
PHP10*42	40,000	10.00	9.00	.74	7.20	40,000	3.20	22,600	2.20	1,400
PHP10*48	48,000	10.00	9.00	.73	6.80	47,000	3.10	27,600	2.00	1,600
PHP10*60	59,000	10.00	9.00	.73	6.80	59,000	3.00	36,000	2.00	1,950

*Refers to B or C series (C series 3 phase only).

Blower Performance

Model	Blower Speed	CFM @ ext. static pressure - in. w.c. w/o filter(s) ¹						
		.20	.30	.40	.50	.60	.70	.80
PHP10*24	High	1100	1060	1000	940	880	800	720
	Med	940	890	870	840	800	720	660
	Low	850	800	790	770	750	670	600
PHP10*30	High	1400	1350	1280	1200	1120	1030	920
	Med	1160	1120	1080	1030	980	900	780
	Low	1050	1020	1000	950	910	840	750
PHP10*36	High	1400	1350	1280	1200	1120	1030	920
	Med	1160	1120	1080	1030	980	900	780
	Low	1050	1020	1000	950	910	840	750
PHP10*42	High	1640	1560	1500	1400	1300	1260	1160
	Med	1570	1500	1440	1340	1270	1200	1100
	Low	1480	1430	1360	1290	1230	1170	1050
PHP10*48	High	2150	2100	2030	1950	1875	1750	1650
	Med	1920	1870	1790	1730	1650	1580	1500
	Low	1750	1720	1650	1600	1550	1480	1400
PHP10*60	High	2150	2100	2030	1950	1875	1750	1650
	Med	1920	1870	1790	1730	1650	1580	1500
	Low	1750	1720	1650	1600	1550	1480	1400

*Refers to B or C series (C series 3 phase only).

¹Airflow data in cubic feet per minute (CFM), 230 V, wet coil, no filter

Cooling Performance Extended Ratings

Model	Indoor Temp DB/WB °F	Outdoor Temp. - DB°F														
		65			82			95			105			115		
		Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
PHP10*24	85/72	28,520	.61	2.03	27,600	.65	2.43	24,000	.66	2.52	22,600	.68	2.72	19,600	.71	2.88
	80/67	26,800	.67	2.00	26,000	.70	2.40	23,000	.72	2.50	21,200	.76	2.68	18,000	.80	2.85
	75/63	23,750	.72	1.98	24,500	.75	2.38	21,330	.78	2.47	17,990	.90	2.65	15,690	.95	2.80
PHP10*30	85/72	36,100	.60	2.55	33,600	.64	3.03	30,000	.64	3.20	28,200	.67	3.38	26,000	.69	3.58
	80/67	33,800	.67	2.54	32,200	.70	3.01	29,000	.72	3.18	27,000	.76	3.35	23,500	.80	3.49
	75/63	31,900	.71	2.52	28,000	.74	2.98	26,200	.76	3.06	24,700	.79	3.30	20,100	.91	3.37
PHP10*36	85/72	39,100	.60	3.20	37,000	.65	3.63	36,000	.65	3.99	34,200	.68	4.25	32,000	.70	4.51
	80/67	37,320	.67	3.18	35,200	.71	3.60	34,000	.74	3.77	32,600	.77	4.03	28,200	.79	4.36
	75/63	35,740	.70	3.14	33,400	.73	3.55	31,710	.76	3.75	29,280	.79	3.98	23,690	.90	4.19
PHP10*42	85/72	48,100	.61	3.71	46,400	.65	4.20	44,800	.66	4.61	41,000	.68	4.80	36,800	.74	5.07
	80/67	46,800	.67	3.66	45,000	.71	4.16	40,000	.74	4.44	36,800	.77	4.65	32,000	.84	4.85
	75/63	45,400	.69	3.60	43,800	.73	4.08	39,000	.78	4.25	36,100	.79	4.46	30,520	.87	4.62
PHP10*48	85/72	60,500	.66	4.30	56,200	.65	5.00	53,000	.66	5.52	51,500	.66	6.25	45,400	.73	6.80
	80/67	56,000	.69	4.23	52,000	.71	4.90	48,000	.73	5.33	46,800	.76	6.00	40,000	.82	6.58
	75/63	51,250	.71	4.17	47,560	.74	4.80	44,600	.79	5.21	39,000	.87	5.80	35,100	.91	6.35
PHP10*60	85/72	71,000	.63	5.30	66,500	.65	6.00	64,100	.67	6.69	62,400	.69	7.51	59,000	.71	8.30
	80/67	66,000	.69	5.20	61,400	.71	5.90	59,000	.74	6.55	57,000	.77	7.40	54,700	.77	8.10
	75/63	60,380	.72	5.10	57,220	.76	5.80	55,170	.78	6.50	49,710	.86	7.18	48,550	.90	8.00

*Refers to B or C series (C series 3 phase only).

Heating Performance Extended Ratings

Model	Outdoor Temp DB/WB°F									
	0/0		17/15		35/33		47/43		62/56	
	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW
PHP10*24	9,400	1.75	12,600	1.85	17,600	2.15	22,600	2.14	27,000	2.20
PHP10*30	10,600	2.22	15,800	2.31	22,200	2.52	28,600	2.70	35,000	2.85
PHP10*36	12,400	2.60	21,000	2.80	26,600	3.05	34,000	3.16	41,000	3.33
PHP10*42	14,000	2.63	22,600	3.01	27,800	3.36	40,000	3.66	48,000	3.91
PHP10*48	15,600	3.76	27,800	4.03	33,500	4.26	47,000	4.55	58,000	4.81
PHP10*60	22,000	4.84	36,500	5.35	42,500	5.60	59,000	6.20	71,450	6.62

*Refers to B or C series (C series 3 phase only).

Heat Strip Electrical (Single Phase)

Blower Unit Model	Heater Model	Unit Supply Voltage	kW	Blower Motor Rated Load Amps ¹	Minimum Circuit Ampacity A	Max. Fuse/HACR Brkr. A	Min. Wire Size ²	Minimum Circuit Ampacity B	Max. Fuse/HACR Brkr. B	Min. Wire Size ²	Minimum Circuit Ampacity C	Max. Fuse/HACR Brkr. C	Min. Wire Size ²	
PHP10*24A	AHS05A	240	5	2.8	29.3	30	10	--	--	--	--	--	--	
		208	3.76	2.8	25.8	30	10	--	--	--	--	--	--	
	AHS07A	240	7	2.8	39.7	40	8	--	--	--	--	--	--	
		208	5.26	2.8	34.8	35	8	--	--	--	--	--	--	
	AHS10A	240	10	2.8	55.3	60	4	--	--	--	--	--	--	
		208	7.51	2.8	48.4	50	6	--	--	--	--	--	--	
PHP10*30A PHP10*36A	AHS05A	240	5	2.8	29.3	30	10	--	--	--	--	--	--	
		208	3.76	2.8	25.8	30	10	--	--	--	--	--	--	
	AHS07A	240	7	2.8	39.7	40	8	--	--	--	--	--	--	
		208	5.26	2.8	34.8	35	8	--	--	--	--	--	--	
	AHS10A	240	10	2.8	55.3	60	4	--	--	--	--	--	--	
		208	7.51	2.8	48.4	50	6	--	--	--	--	--	--	
	AHS15A	240	15	2.8	55.3	60	4	26	30	10	--	--	--	
		208	11.27	2.8	48.4	50	6	22.6	25	10	--	--	--	
	AHS20A	240	20	2.8	55.3	60	4	52.1	60	4	--	--	--	
		208	15.02	2.8	48.4	50	6	45.1	50	6	--	--	--	
	PHP10*42A	AHS05SA	240	5	3.4	30.3	35	8	--	--	--	--	--	--
			208	3.76	3.4	26.8	30	10	--	--	--	--	--	--
AHS07A		240	7	3.4	40.7	50	6	--	--	--	--	--	--	
		208	5.26	3.4	35.8	40	8	--	--	--	--	--	--	
AHS10A		240	10	3.4	56.3	60	4	--	--	--	--	--	--	
		208	7.51	3.4	49.4	50	6	--	--	--	--	--	--	
AHS15A		240	15	3.4	56.3	60	4	26	30	10	--	--	--	
		208	11.27	3.4	49.4	50	6	22.6	25	10	--	--	--	
AHS20A		240	20	3.4	56.3	60	4	52.1	60	4	--	--	--	
		208	15.02	3.4	49.4	50	6	45.1	50	6	--	--	--	
PHP10*48A PHP10*60A		AHS10A	240	10	5.0	58.4	60	4	--	--	--	--	--	--
			208	7.51	5.0	51.4	60	6	--	--	--	--	--	--
	AHS15A	240	15	5.0	58.4	60	4	26	30	10	--	--	--	
		208	11.27	5.0	51.4	60	6	22.6	25	10	--	--	--	
	AHS20A	240	20	5.0	58.4	60	4	52.1	60	4	--	--	--	
		208	15.02	5.0	51.4	60	6	45.1	50	6	--	--	--	
	AHS25A	240	25	5.0	58.4	60	4	52.1	60	4	26.0	30	10	
		208	18.78	5.0	51.7	60	6	45.1	50	6	22.6	25	10	

¹Blower Motor always on Circuit A.

²Based on 60°C type copper conductor 50 feet long in accordance with the National Electric Code.

*Refers to B or C series (C series 3 phase only).

Heat Strip Electrical (Three Phase)

Blower Unit Model	Heater Model	Unit Supply Voltage	kW	Blower Motor Rated Load Amps ¹	Minimum Circuit Ampacity A	Max. Fuse/HACR Brkr. A	Min. Wire Size ²	Minimum Circuit Ampacity B	Max. Fuse/HACR Brkr. B	Min. Wire Size ²	Minimum Circuit Ampacity C	Max. Fuse/HACR Brkr. C	Min. Wire Size ²
PHP10*36B	AHSA10B	240	10	2.8	29.3	30	10	--	--	--	--	--	--
		208	7.51	2.8	25.8	30	10	--	--	--	--	--	--
	AHSA15B	240	15	2.8	42.3	50	6	--	--	--	--	--	--
		208	11.27	2.8	37.1	40	8	--	--	--	--	--	--
PHP10*48B PHP10*60B	AHSA10B	240	10	5.0	32.3	30	8	--	--	--	--	--	--
		208	7.51	5.0	28.9	30	10	--	--	--	--	--	--
	AHSA15B	240	15	5.0	45.3	50	6	--	--	--	--	--	--
		208	11.27	5.0	40.2	45	6	--	--	--	--	--	--
	AHSA20B	240	20	5.0	32.3	30	8	26	30	10	--	--	--
		208	15.02	5.0	28.9	30	10	22.6	25	10	--	--	--
	AHSA25B	240	25	5.0	45.3	50	6	26	30	10	26	30	10
		208	18.78	5.0	40.2	45	6	22.6	25	10	22.6	25	10
PHP10*48DC PHP10*60DC	AHSA10C	480	10	2.7	18.4	20	12	--	--	--	--	--	--
	AHSA15C	480	15	2.7	25.9	30	8	--	--	--	--	--	--
AHSA20C	480	20	2.7	18.4	20	12	15	20	14	--	--	--	
	AHSA25C	480	25	2.7	25.9	30	8	15	20	14	--	--	--
PHP10*48DD PHP10*60DD	AHSA10D	600	10	2.0	14.5	15	14	--	--	--	--	--	--
	AHSA15D	600	15	2.0	20.5	25	12	--	--	--	--	--	--
	AHSA20D	600	20	2.0	14.5	15	14	12	15	14	--	--	--
AHSA25D		600	25	2.0	20.5	25	12	12	15	14	--	--	--

¹Blower Motor always on Circuit A.

²Based on 60°C type copper conductor 50 feet long in accordance with the National Electric Code.

*Refers to B or C series (C series 3 phase only).

Accessories

Kit Number	Description	Used with
ACURB161-1*	14" Hinged Roofcurb	PHP24-42
ACURB163-1*	14" Hinged Roofcurb	PHP48-60
AECON172-2*	Economizer - Downflow Modulating w/relief	PHP24-42
AECON173-2*	Economizer - Horizontal Modulating	PHP24-42
AECON170-2*	Economizer - Downflow Modulating w/relief	PHP48-60
AECON171-2*	Economizer - Horizontal Modulating	PHP48-60
ADMPR145-2	0 - 25% Manual Outside Air Damper	PHP24-42
ADMPR146-2	0 - 25% Motorized Outside Air Damper	PHP24-42
ADMPR166-2*	0 - 25% Manual Outside Air Damper	PHP48-60
ADMPR167-2*	0 - 25% Motorized Outside Air Damper	PHP48-60
ADMPR151-1	Barometric Relief Damper	PHP24-60
ACONC164-1*	Concentric Duct Adapter	PHP24-42
ACONC165-1*	Concentric Duct Adapter	PHP48-60
ADIFF89-1	Air Diffuser - Flush	PHP24-60
ADIFF150-1	Air Diffuser - Step Down	PHP24-60
AHSA05A-1	5 kW Electric Heat Kit	PHP24-42
AHSA07A-1	7 kW Electric Heat Kit	PHP24-42
AHSA10A-1	10 kW Electric Heat Kit	PHP24-60
AHSA15A-1	15 kW Electric Heat Kit	PHP30-60
AHSA20A-1	20 kW Electric Heat Kit	PHP30-60
AHSA25A-1	25 kW Electric Heat Kit	PHP48-60
AHSA10B-1	10 kW Electric Heat Kit - 3 Phase	PHP36-60B
AHSA15B-1	15 kW Electric Heat Kit - 3 Phase	PHP36-60B
AHSA20B-1	20 kW Electric Heat Kit - 3 Phase	PHP36-60B
AHSA25B-1	25 kW Electric Heat Kit - 3 Phase	PHP48-60B
AHSA10C-1	10 kW Electric Heat Kit - 3 Phase	PHP48-60C
AHSA15C-1	15 kW Electric Heat Kit - 3 Phase	PHP48-60C
AHSA20C-1	20 kW Electric Heat Kit - 3 Phase	PHP48-60C
AHSA25C-1	25 kW Electric Heat Kit - 3 Phase	PHP48-60C
AHSA10D-1	10 kW Electric Heat Kit - 3 Phase	PHP48-60D
AHSA15D-1	15 kW Electric Heat Kit - 3 Phase	PHP48-60D
AHSA20D-1	20 kW Electric Heat Kit - 3 Phase	PHP48-60D
AHSA25D-1	25 kW Electric Heat Kit - 3 Phase	PHP48-60D
ALOAM111-1	Low Ambient Control	PHP24-60
AHPSW436-1	High Pressure Cut-Out Kit	PHP24-60
ATIMR446-1	Short Cycle Protector	PHP24-60
ASTAT444-1	Outdoor Thermostat	PHP24-60
ASPWR160-1	Single Point Power Entry	PHP24-42
ASPWR161-1	Single Point Power Entry	PHP48-60
ASPWR162-1	Single Point Power Entry 460/575 Volt	PHP48-60

*For use with B and C series units (C series 3 phase only).

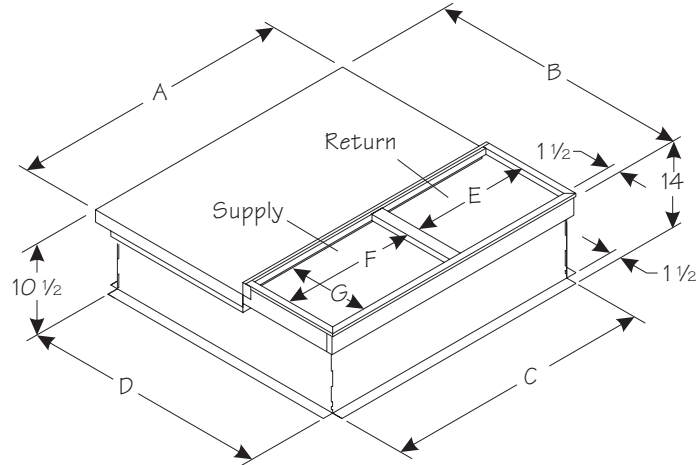
Accessories (All dimensions in inches)

Hinged Roof Curb

ACURB161-1 (24-42)

ACURB163-1 (48-60)

Kit Number	A	B	C	D	E	F	G
ACURB161-1	43 1/4	43 1/8	40	40	20	18	19
ACURB163-1	52 1/2	47 1/4	49	44 1/8	23 1/2	23 1/2	19 1/2

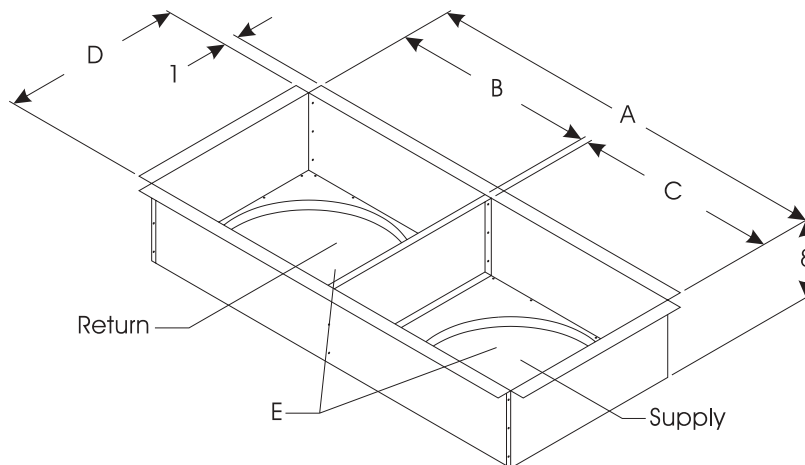


Concentric Curb Adaptor

ACONC164-1 (24-42)

ACONC165-1 (48-60)

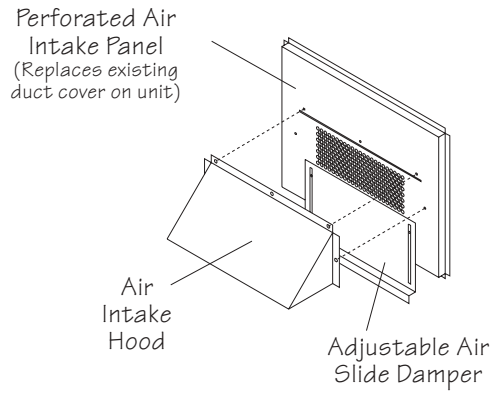
Kit Number	A	B	C	D	E
ACONC164-1	39	19 1/2	18 3/4	18 1/2	16
ACONC165-1	48	23 5/8	23 5/8	19	18



0-25% Manual Outside Air Damper

ADMPR145-2 (24-42)

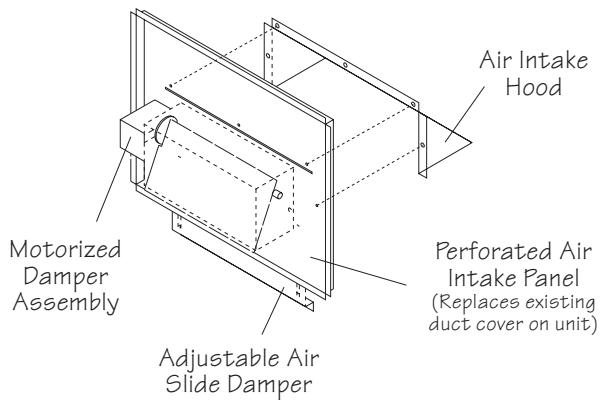
ADMPR166-2(48-60)



0-25% Motorized Outside Air Damper

ADMPR146-2 (24-42)

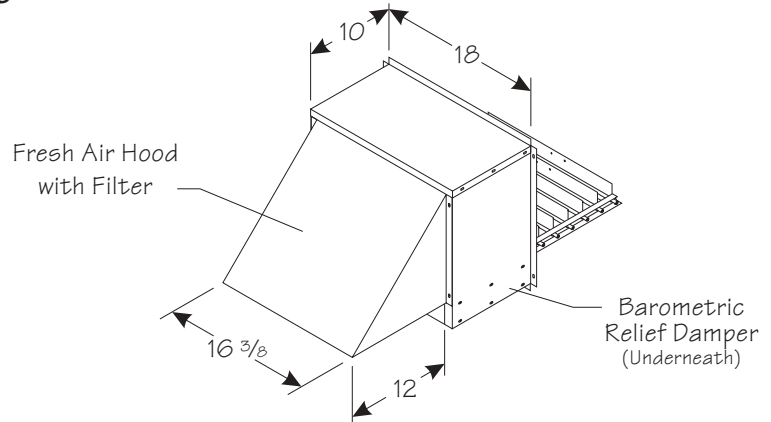
ADMPR167-2 (48-60)



Accessories (All dimensions in inches)

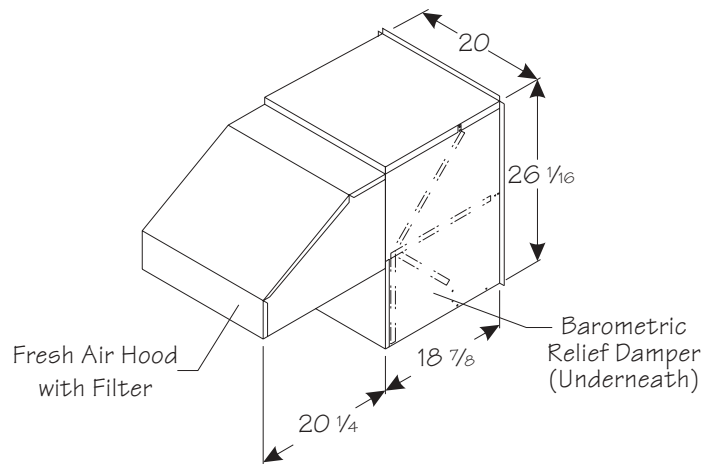
Ecnomizer - Downflow Modulating with Relief

AAECON172-2 (24-42)



Ecnomizer - Downflow Modulating with Relief

AECON170-2 (48-60)

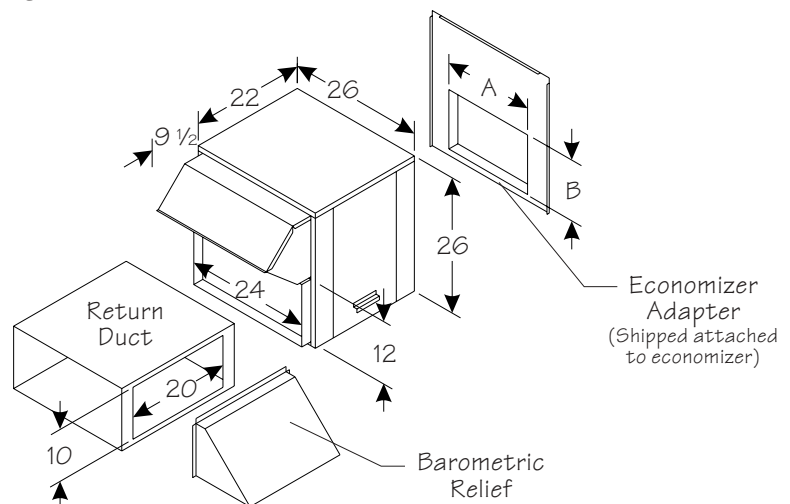


Ecnomizer - Horizontal Modulating

AECON173-2 (24-42)

AECON171-2 (48-60)

Model	A	B
AECON173-2	17 3/4	11 5/8
AECON171-2	21 3/4	12 1/8



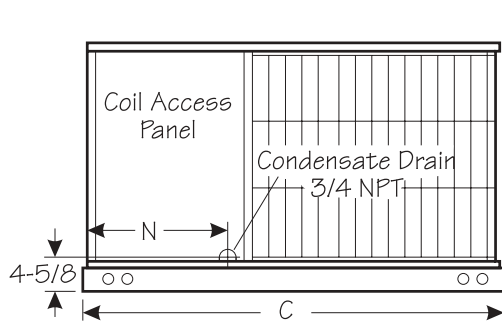
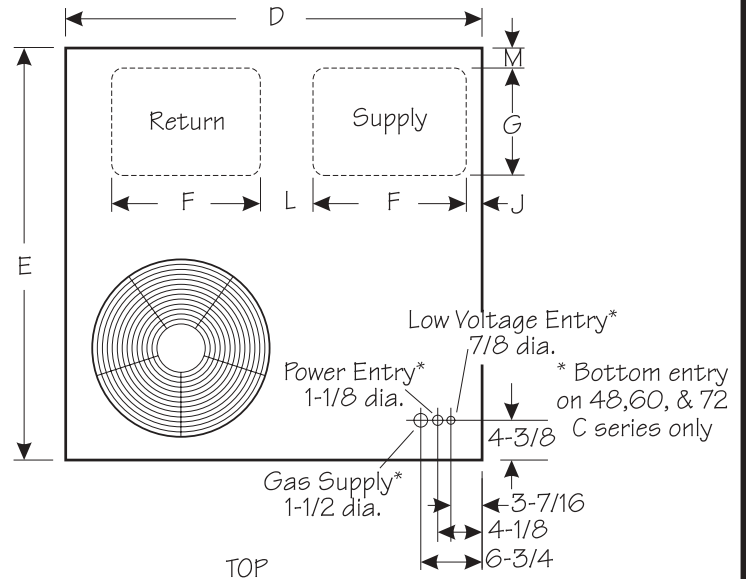
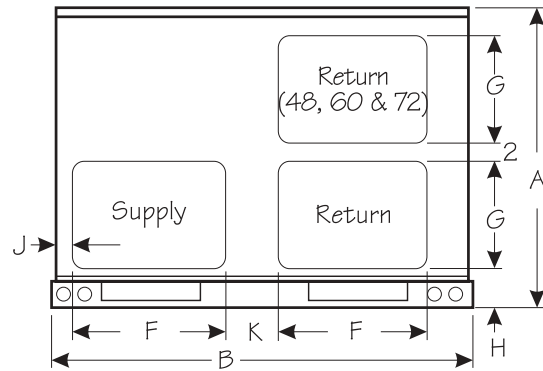
Dimensions (in.)

Model	A	B	C	D	E	F
PHP10*24						
PHP10*30	27 11/16	46 1/2	46 1/2	45 5/8	45 5/8	17 1/2
PHP10*36						
PHP10*42	31 11/16	46 1/2	46 1/2	45 5/8	45 5/8	17 1/2
PHP10*48						
PHP10*60	33 11/16	55 1/2	50 1/2	54 5/8	49 5/8	21 1/2

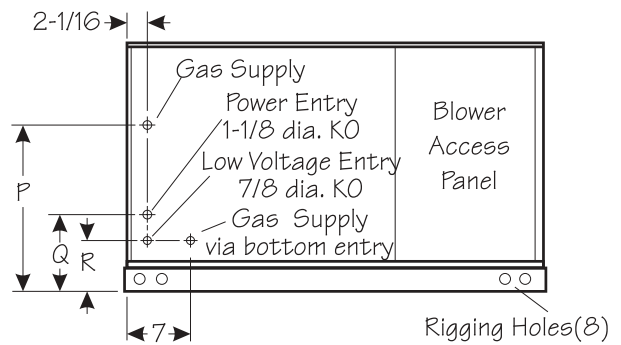
Model	G	H	J	K	L
PHP10*24					
PHP10*30	11 1/2	5	1 13/16	4	4
PHP10*36					
PHP10*42	11 1/2	5	1 13/16	4	4
PHP10*48					
PHP10*60	12	4 1/8	1 1/8	6 1/4	5 5/8

Model	M	N	P	Q	R
PHP10*24					
PHP10*30	1 15/16	15 5/8	23 1/8	19 7/8	9 1/16
PHP10*36					
PHP10*42	1 15/16	15 5/8	27 1/8	23 7/8	9 1/16
PHP10*48					
PHP10*60	2 1/4	17 1/8	28 15/16	25 11/16	14 7/8

*Refers to B and C series (C series 3 phase only).



LEFT SIDE



RIGHT SIDE

All specifications are subject to change
without notice.



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