magic-pak®

9 EER final order deadline: June 28, 2019
All V-Series models below 11 EER will be out of production by September 20, 2019

V-SERIES™ HWC

FORM NO. HWC-100 (06/2017)

HWC MODEL UNITS

GAS HEATING / ELECTRIC COOLING PACKAGED UNITS

FEATURES

- Standard and High Efficiency heating and cooling
- Completely self-contained heating and cooling package
  - Microban® anti-microbial evaporator drain pan
  - No outside condensing unit
  - No external refrigerant lines
  - No separate indoor cooling coil
  - No separate venting system
- Pre-wired and pre-charged
- Individually metered and controlled
- Self-contained, replaceable, slide-out cooling chassis
- Internal vent system
- Direct vent/sealed combustion
- Freeze Shield™ condensate trap* with side or front condensate connection*
- Compatible with any 24 volt zoning system

REFRIGERANT SYSTEM

- High efficiency compressor
- Copper tubing with enhanced fin coils

HEAT EXCHANGER

- Aluminized or optional stainless steel on 80% models primary heat exchanger
- Stainless steel primary & secondary heat exchanger and transition box standard on high efficiency models

BLOWER

- Multispeed motor for wide airflow range
- ECM blower motor in high efficiency units
- Dynamically balanced blower with resilient motor mounts for smooth and quiet operation
- Internal filter is standard (optional MERV8)

CONTROLS

- Color coded wiring for easy service
- Diagnostic LED
- Forward facing and easily accessible controls

INSTALLATION

- Plug & Play like features

WARRANTY

- 5 year limited warranty on all parts
- 10 year limited warranty on aluminized heat exchanger
- 20 year limited warranty on stainless steel heat exchanger

*Patent Pending

MODEL NUMBER GUIDE

H W C 9 N 55 11 P 18 A 1

- H = Gas Heat
- W = With
- C = Electric Cooling
- **GAS HEAT EFFICIENCY**
  - 8 = 80% TE
  - 9 = up to 95% TE
- **GAS HEAT FEATURE**
  - N = Stainless steel heat exchanger
  - R = Aluminized steel heat exchanger
- **GAS HEATING INPUT**
  - 24 = 24,000 Btu/hr
  - 36 = 36,000 Btu/hr
  - 48 = 48,000 Btu/hr
  - 60 = 60,000 Btu/hr
  - 22 = 22,000 Btu/hr
  - 33 = 33,000 Btu/hr
  - 44 = 44,000 Btu/hr
  - 55 = 55,000 Btu/hr
- **COOLING EFFICIENCY**
  - 09 = 9.2 EER
  - 11 = Up to 11 EER
- P = 208/230 V - 60 Hz - 1 Ph
- **NOMINAL COOLING CAPACITY**
  - 12 - 12,000 Btu/hr
  - 18 - 18,000 Btu/hr
  - 24 - 24,000 Btu/hr
  - 30 - 30,000 Btu/hr
- Series
- Revision Code

ELECTRICAL AND PHYSICAL DATA

Model	Voltage/ Hz/ Phase	Voltage Range	Min. Circuit Amps	Max. Fuse/ HACR Brkr.	Compressor		Outside Fan				Indoor Blower			Refrig. Charge (oz.)	Weight (lbs.)
					Rated Load Amps	Locked Rotor Amps	Dia. (in.)	Nom. RPM	Rated Load Amps	Rated HP	Wheel Dia. x Width	Rated Load Amps	Rated HP		
HWC8(R,N)2409P12	208-230/60/1	197-253	8.3	15	4.9	27.0	18	1075	0.9	1/8	10 x 4.5	1.3	1/6	43	290
HWC8(R,N)3609P12															
HWC8(R,N)3609P18			11.3	15	6.7	37.5			0.9	1/8		2.0	1/3	51	310
HWC8(R,N)4809P18															
HWC8(R,N)6009P18															
HWC8(R,N)3609P24			14.2	20	8.5	38.0			1.6	1/4		2.0	1/3	56	320
HWC8(R,N)4809P24															
HWC8(R,N)6009P24															
HWC8(R,N)4809P30			19.4	30	13.1	74.0			1.6	1/4		1.4	1/2	63	350
HWC8(R,N)6009P30															
HWC9N2211P12	208-230/60/1	197-253	7.4	15	4.9	27.0	18	1075	0.9	1/8	10 x 4.5	0.4	1/2	49	290
HWC9N3311P12															
HWC9N3311P18			10.7	15	6.7	37.5			1.6	1/4		0.7		54	310
HWC9N4411P18															
HWC9N5511P18															
HWC9N3311P24			13.6	20	8.5	38.0			1.6	1/4		1.4		66	320
HWC9N4411P24															
HWC9N5511P24															
HWC9N4411P30			19.4	30	13.1	74.0			1.6	1/4		1.4		63	350
HWC9N5511P30															

PERFORMANCE

Model	Cooling				Heating			
	Btuh	EER	S/T	CFM	Input Buth	Output Buth	Thermal Efficiency	Temp. Rise Range °F
HWC8(R,N)2409P12	11,800	9.2	0.72	425	24,000	19,000	80	25-55
HWC8(R,N)3609P12					36,000	28,500		35-65
HWC8(R,N)3609P18	17,000	9.2	0.75	625	36,000	28,500		25-55
HWC8(R,N)4809P18					48,000	38,000		35-65
HWC8(R,N)6009P18					60,000	47,500		45-75
HWC8(R,N)3609P24	22,000	9.2	0.74	800	36,000	28,500		25-55
HWC8(R,N)4809P24					48,000	38,000		35-65
HWC8(R,N)6009P24					60,000	47,500		45-75
HWC8(R,N)4809P30	27,600	9.2	0.68	800	48,000	38,000		30-60
HWC8(R,N)6009P30					60,000	47,500		45-75
HWC9N2211P12	11,800	11.0	0.70	400	22,000	20,500	95	25-55
HWC9N3311P12					33,000	31,000	94	35-65
HWC9N3311P18	17,000	11.0	0.74	600	33,000	31,000	94	30-60
HWC9N4411P18					44,000	41,000	94	35-65
HWC9N5511P18					55,000	51,500	93	45-75
HWC9N3311P24	22,000	10.0	0.73	800	33,000	31,000	94	30-60
HWC9N4411P24					44,000	41,000	94	35-65
HWC9N5511P24					55,000	51,500	93	45-75
HWC9N4411P30	27,600	9.2	0.68	800	44,000	41,000	94	35-65
HWC9N5511P30					55,000	51,500	93	45-75

OUTDOOR SOUND RATINGS

Model	Sound Rating (dBA)
HWC8*2409P12	76
HWC8*3609P12, 18	
HWC8*4809P18	
HWC8*6009P18	
HWC8*3609P24	80
HWC8*4809P24, 30	
HWC8*6009P24, 30	
HWC9N2211P12	76
HWC9N3311P12	
HWC9N3311P18, 24	80
HWC9N4411P18A, 24, 30	
HWC9N5511P18A, 24, 30	

ACCESSORIES

Description	Kit #	Where Used
LP KIT (0 - 4,500 FT)	ALPKT842	HWC8 Only
HI Altitude Kit (NAT 4,500 - 8,000 ft)	AHAKT01	
Decorative External Louver Clear Anod. Al	ALVR42	
Decorative External Louver Custom Painted	ALVR42P	
LP KIT (0 - 4,500 FT)	ALPKT843	HWC9 Only
HI Altitude Kit (NAT 4,500 - 8,000 ft)	AHAKT02	
Decorative External Louver Clear Anod. Al	ALVR43	
Decorative External Louver Custom Painted	ALVR43P	
Condensate Neutralizer Cartridge	CC172	
Wall Sleeve	CA239	All HWC's
MERV5 Filter (36 per box)	VSM5-1	
MERV8 Filter (24 per box)	VSM8-1	

COOLING PERFORMANCE EXTENDED RATINGS

Model	Indoor Temp DB/ WB °F	Outdoor Temperature - DB °F														
		65			85			95			105			115		
		Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
HWC8R24/3609P12A	85/72	16800	0.54	1.00	15400	0.57	1.13	13900	0.61	1.25	12500	0.64	1.38	11000	0.67	1.50
	80/67	15500	0.62	1.00	13800	0.67	1.13	12100	0.72	1.26	10500	0.76	1.37	8800	0.80	1.48
	75/63	14400	0.66	1.00	12800	0.69	1.13	11100	0.72	1.26	9600	0.78	1.37	8100	0.84	1.47
	75/57	12300	1.00	1.00	11000	1.00	1.13	9900	0.99	1.26	8800	0.99	1.37	7600	0.99	1.47
HWC8R36/48/6009P18A	85/72	22400	0.56	1.41	21000	0.60	1.60	19600	0.63	1.78	18000	0.67	1.89	16400	0.70	1.99
	80/67	21200	0.64	1.40	19300	0.70	1.72	17300	0.75	2.04	15600	0.80	2.04	13900	0.85	2.04
	75/63	19600	0.69	1.40	17900	0.74	1.58	16200	0.79	1.76	14400	0.84	1.90	12600	0.88	2.03
	75/57	16800	1.00	1.40	15600	1.00	1.58	14300	1.00	1.75	13000	1.00	1.90	11600	1.00	2.05
HWC8R36/48/6009P24A	85/72	28000	0.57	1.81	25900	0.62	2.07	23700	0.66	2.32	21700	0.70	2.52	19600	0.74	2.72
	80/67	26500	0.66	1.81	24500	0.70	2.08	22500	0.74	2.34	19800	0.80	2.52	17000	0.86	2.70
	75/63	24700	0.71	1.82	22300	0.76	2.06	19900	0.80	2.29	17600	0.86	2.48	15300	0.91	2.67
	75/57	22400	1.00	1.84	20500	1.00	2.09	18500	1.00	2.33	16700	1.00	2.53	14800	1.00	2.73
HWC8R48/6009P30A	85/72	38500	0.55	2.56	35100	0.57	2.82	31700	0.58	3.08	28800	0.61	3.23	25900	0.63	3.37
	80/67	36000	0.62	2.50	32000	0.64	2.74	28000	0.66	2.98	25300	0.69	3.10	22500	0.72	3.22
	75/63	33200	0.65	2.46	29300	0.68	2.67	25400	0.70	2.88	22500	0.74	3.01	19600	0.77	3.13
	75/57	30600	1.00	2.50	24200	1.00	2.67	21900	1.00	2.81	19700	1.00	2.95	17400	1.00	3.08
HWC9N22/3311P12A	85/72	17200	0.57	0.93	16100	0.60	1.07	14900	0.62	1.21	14000	0.64	1.33	13000	0.66	1.44
	80/67	16100	0.65	0.93	14600	0.68	1.06	13000	0.70	1.18	12400	0.73	1.30	11700	0.75	1.42
	75/63	15100	0.68	0.93	14000	0.71	1.06	12800	0.73	1.19	11600	0.77	1.30	10300	0.81	1.40
	75/57	12400	1.00	0.91	12000	1.00	1.05	11600	0.99	1.18	11200	0.98	1.32	9700	0.97	1.45
HWC9N33/44/5511P18A	85/72	24000	0.58	1.31	22100	0.60	1.49	20100	0.62	1.67	18500	0.65	1.81	16900	0.67	1.95
	80/67	22200	0.65	1.31	20300	0.69	1.49	18400	0.72	1.66	16900	0.75	1.80	15300	0.77	1.93
	75/63	20600	0.70	1.31	18800	0.73	1.48	17000	0.75	1.64	15500	0.79	1.78	14000	0.82	1.91
	75/57	18000	1.00	1.30	16700	1.00	1.47	15300	1.00	1.63	14000	1.00	1.76	12700	1.00	1.89
HWC9N33/44/5511P24A	85/72	29400	0.58	1.76	27300	0.60	2.01	25200	0.62	2.25	23200	0.65	2.43	21200	0.67	2.60
	80/67	27600	0.65	1.76	24800	0.71	1.96	22000	0.76	2.16	20600	0.77	2.37	19100	0.78	2.57
	75/63	26000	0.68	1.77	23800	0.72	2.00	21500	0.76	2.22	19000	0.80	2.39	16400	0.84	2.55
	75/57	22300	1.00	1.76	20400	1.00	1.98	18500	1.00	2.20	17000	1.00	2.36	15400	1.00	2.52
HWC9N44/5511P30A	85/72	38500	0.55	2.56	35100	0.57	2.82	31700	0.58	3.08	28800	0.61	3.23	25900	0.63	3.37
	80/67	36000	0.62	2.50	32100	0.65	2.76	28100	0.68	3.01	25300	0.70	3.12	22500	0.72	3.22
	75/63	33200	0.65	2.46	29300	0.68	2.67	25400	0.70	2.88	22500	0.74	3.01	19600	0.77	3.13
	75/57	30600	1.00	2.50	24200	1.00	2.67	21900	1.00	2.81	19700	1.00	2.95	17400	1.00	3.08

HWC8 BLOWER PERFORMANCE

AIRFLOWS AND HEATING TEMPERATURE RISES AS A FUNCTION OF EXTERNAL STATIC PRESSURE												
Model	Rise Range (F°)	Mid Rise (F°)	Indoor Blower Speed	Unit Voltage (V)	0.1 " w.c.		0.2 " w.c.		0.3 " w.c.		0.4 " w.c.	
					SCFM	Temp Rise (F°)	SCFM	Temp Rise (F°)	SCFM	Temp Rise (F°)	SCFM	Temp Rise (F°)
HWC8(R/N)240912	25 - 55	40	LOW†	208	365	49	340	53	315	N/A	285	N/A
				230	425	42	405	44	380	47	350	51
			MED *	**208**	**445**	**40**	**415**	**43**	**390**	**46**	**365**	**49**
				230	**515**	**35**	**485**	**37**	**455**	**39**	**430**	**42**
			HIGH	208	620	29	585	31	555	32	520	34
				230	685	26	650	28	610	29	570	31
HWC8(R/N)360912	35 - 65	50	LOW†	208	365	N/A	340	N/A	315	N/A	285	N/A
				230	425	63	405	N/A	380	N/A	350	N/A
			MED	208	445	60	415	65	390	N/A	365	N/A
				230	515	52	485	55	455	59	430	62
			HIGH *	**208**	**620**	**43**	**585**	**46**	**555**	**48**	**520**	**52**
				230	**685**	**39**	**650**	**41**	**610**	**44**	**570**	**47**
HWC8(R/N)360918 HWC8(R/N)360924	25 - 55	40	LOW	208	480	N/A	465	N/A	450	N/A	435	N/A
				230	610	44	590	45	565	47	535	50
			MED *	**208**	**750**	**36**	**715**	**38**	**685**	**39**	**655**	**41**
				230	**810**	**33**	**770**	**35**	**735**	**37**	**700**	**38**
			HIGH	208	860	31	815	33	770	35	735	37
				230	880	30	835	32	790	34	750	36
HWC8(R/N)480918 HWC8(R/N)480924	35 - 65	50	LOW	208	480	N/A	465	N/A	450	N/A	435	N/A
				230	610	59	590	61	565	63	535	N/A
			MED *	**208**	**750**	**48**	**715**	**50**	**685**	**52**	**655**	**55**
				230	**810**	**44**	**770**	**46**	**735**	**49**	**700**	**51**
			HIGH	208	860	42	815	44	770	46	735	49
				230	880	41	835	43	790	45	750	48
HWC8(R/N)600918 HWC8(R/N)600924	45 - 75	60	LOW	208	480	N/A	465	N/A	450	N/A	435	N/A
				230	610	73	590	N/A	565	N/A	535	N/A
			MED	208	750	60	715	63	685	65	655	68
				230	810	55	770	58	735	61	700	64
			HIGH *	**208**	**860**	**52**	**815**	**55**	**770**	**58**	**735**	**61**
				230	**880**	**51**	**835**	**54**	**790**	**57**	**750**	**60**
HWC8(R/N)480930	30 - 60	45	TAP 1 (HEAT)	208 or 230	735	49	700	51	670	53	640	56
			TAP 2 (HEAT) *	**208 or 230**	**825**	**43**	**795**	**45**	**770**	**46**	**745**	**48**
			TAP 3 (HEAT)	208 or 230	895	40	865	41	840	43	810	44
			TAP 4 (COOL)†	208 or 230	800		765		735		715	
			TAP 5 (COOL)	208 or 230	880		845		820		795	
HWC8(R/N)600930	45 - 75	60	TAP 1 (HEAT)	208 or 230	735	61	700	64	670	67	640	70
			TAP 2 (HEAT) *	**208 or 230**	**825**	**54**	**795**	**56**	**770**	**58**	**745**	**60**
			TAP 3 (HEAT)	208 or 230	895	50	865	52	840	53	810	55
			TAP 4 (COOL)†	208 or 230	800		765		735		715	
			TAP 5 (COOL)	208 or 230	880		845		820		795	

N/A: Do not operate unit in heating mode using this blower speed at this external static pressure. Outside of temperature rise range.

* : As shipped speed for heating operation

† : As shipped speed for cooling operation

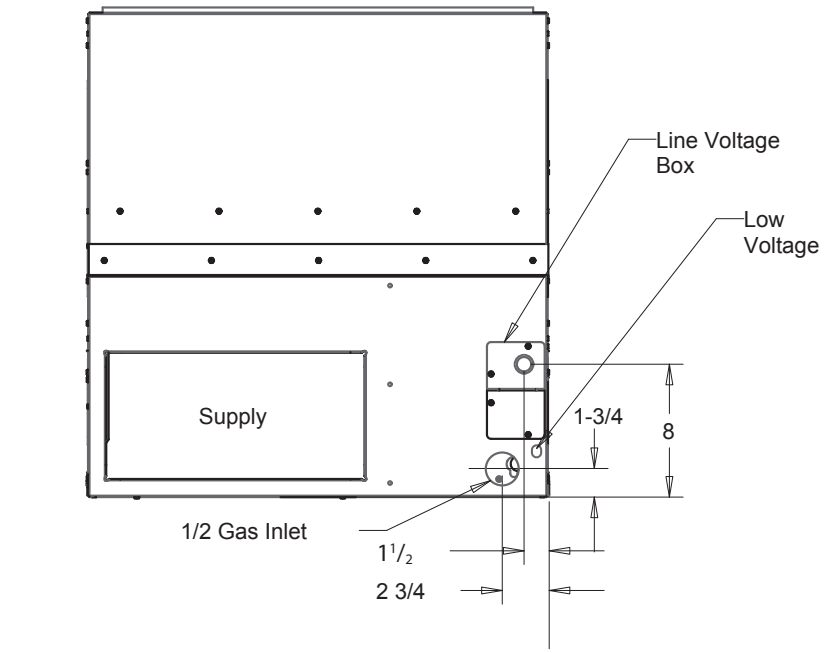
HWC9 BLOWER PERFORMANCE

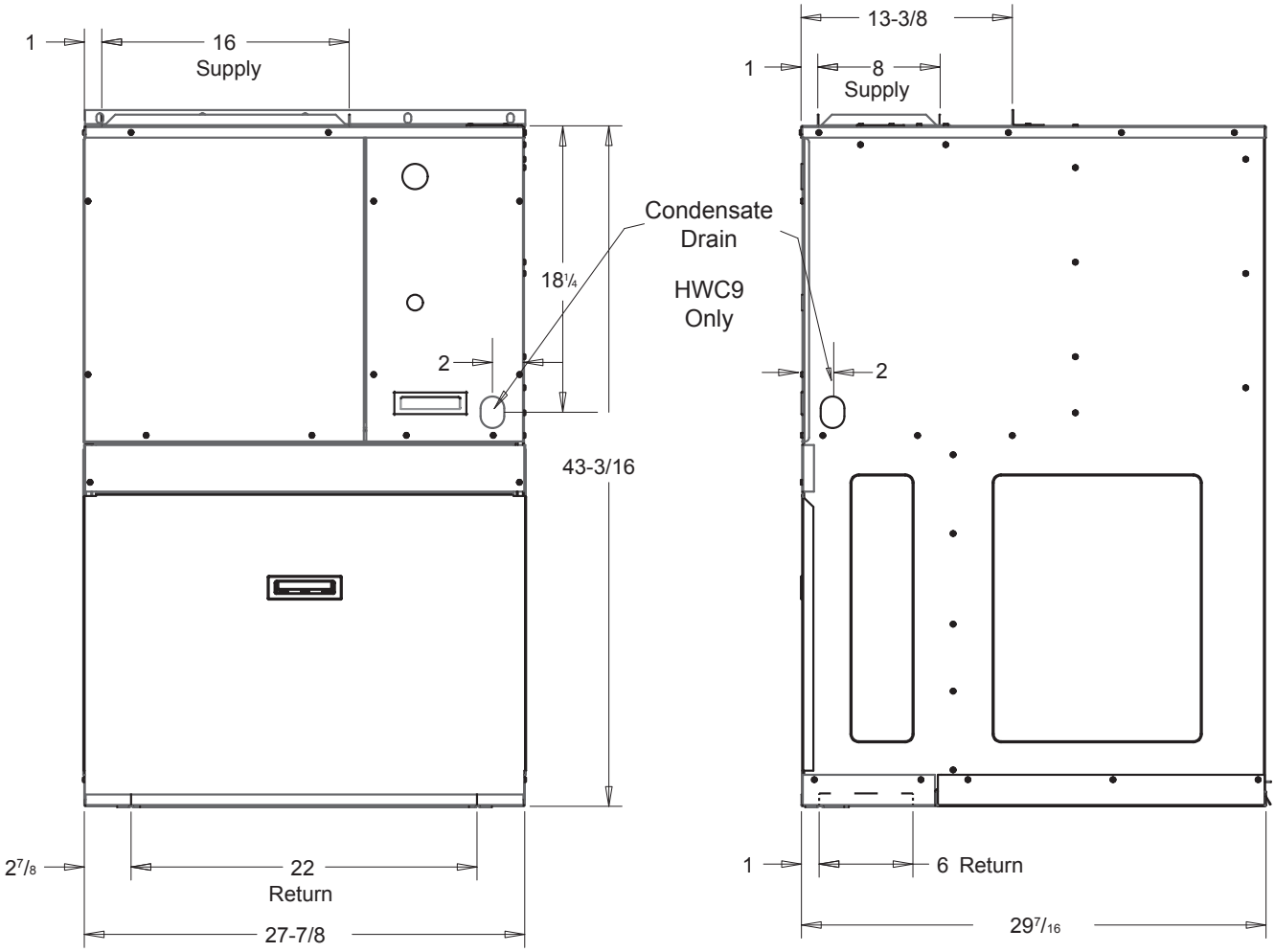
AIRFLOWS AND HEATING TEMPERATURE RISES AS A FUNCTION OF EXTERNAL STATIC PRESSURE												
Model	Rise Range (F°)	Mid Rise (F°)	Indoor Blower Speed	Unit Voltage (V)	0.1 " w.c.		0.2 " w.c.		0.3 " w.c.		0.4 " w.c.	
					SCFM	Temp Rise (F°)	SCFM	Temp Rise (F°)	SCFM	Temp Rise (F°)	SCFM	Temp Rise (F°)
HWC9N2211P12	25 - 55	40	**TAP 1 (HEAT) ***	**208 or 230**	**455**	**42**	**415**	**46**	**385**	**50**	**355**	**54**
			TAP 2 (HEAT)	208 or 230	570	34	540	36	510	38	485	40
			TAP 3 (HEAT)	208 or 230	655	29	625	31	595	32	575	33
			TAP 4 (COOL)†	208 or 230	410		370		340		305	
			TAP 5 (COOL)	208 or 230	455		415		385		355	
HWC9N3311P12	35 - 65	50	TAP 1 (HEAT)	208 or 230	455	63	415	N/A	385	N/A	355	N/A
			TAP 2 (HEAT) *	**208 or 230**	**570**	**50**	**540**	**53**	**510**	**56**	**485**	**59**
			TAP 3 (HEAT)	208 or 230	655	44	625	46	595	48	575	50
			TAP 4 (COOL)†	208 or 230	410		370		340		305	
			TAP 5 (COOL)	208 or 230	455		415		385		355	
HWC9N3311P18	30 - 60	45	**TAP 1 (HEAT) ***	**208 or 230**	**630**	**45**	**600**	**48**	**570**	**50**	**550**	**52**
			TAP 2 (HEAT)	208 or 230	770	37	740	39	715	40	690	42
			TAP 3 (HEAT)	208 or 230	885	32	855	34	830	35	810	35
			TAP 4 (COOL)†	208 or 230	605		575		545		520	
			TAP 5 (COOL)	208 or 230	650		615		585		555	
HWC9N4411P18	35 - 65	50	TAP 1 (HEAT)	208 or 230	630	61	600	64	570	N/A	550	N/A
			TAP 2 (HEAT) *	**208 or 230**	**770**	**50**	**740**	**52**	**715**	**54**	**690**	**56**
			TAP 3 (HEAT)	208 or 230	885	43	855	45	830	46	810	47
			TAP 4 (COOL)†	208 or 230	605		575		545		520	
			TAP 5 (COOL)	208 or 230	650		615		585		555	
HWC9N5511P18	45 - 75	60	TAP 1 (HEAT)	208 or 230	630	N/A	600	N/A	570	N/A	550	N/A
			TAP 2 (HEAT)	208 or 230	770	61	740	64	715	66	690	68
			TAP 3 (HEAT) *	**208 or 230**	**885**	**53**	**855**	**55**	**830**	**57**	**810**	**58**
			TAP 4 (COOL)†	208 or 230	605		575		545		520	
			TAP 5 (COOL)	208 or 230	650		615		585		555	
HWC9N3311P24	30 - 60	45	**TAP 1 (HEAT) ***	**208 or 230**	**645**	**44**	**615**	**47**	**590**	**49**	**565**	**51**
			TAP 2 (HEAT)	208 or 230	780	37	755	38	730	39	710	40
			TAP 3 (HEAT)	208 or 230	900	32	875	33	855	34	835	34
			TAP 4 (COOL)†	208 or 230	800		775		755		735	
			TAP 5 (COOL)	208 or 230	880		860		835		815	
HWC9N4411P24	35 - 65	50	TAP 1 (HEAT)	208 or 230	645	59	615	62	590	65	565	N/A
			TAP 2 (HEAT) *	**208 or 230**	**780**	**49**	**755**	**51**	**730**	**52**	**710**	**54**
			TAP 3 (HEAT)	208 or 230	900	43	875	44	855	45	835	46
			TAP 4 (COOL)†	208 or 230	800		775		755		735	
			TAP 5 (COOL)	208 or 230	880		860		835		815	
HWC9N5511P24	45 - 75	60	TAP 1 (HEAT)	208 or 230	645	73	615	N/A	590	N/A	565	N/A
			TAP 2 (HEAT)	208 or 230	780	61	755	63	730	65	710	67
			TAP 3 (HEAT) *	**208 or 230**	**900**	**53**	**875**	**54**	**855**	**55**	**835**	**57**
			TAP 4 (COOL) †	208 or 230	800		775		755		735	
			TAP 5 (COOL)	208 or 230	880		860		835		815	
HWC9N4411P30	35 - 65	50	TAP 1 (HEAT)	208 or 230	735	52	700	55	670	57	640	60
			TAP 2 (HEAT) *	**208 or 230**	**825**	**46**	**795**	**48**	**770**	**50**	**745**	**51**
			TAP 3 (HEAT)	208 or 230	895	43	865	44	840	46	810	47
			TAP 4 (COOL) †	208 or 230	800		765		735		715	
			TAP 5 (COOL)	208 or 230	880		845		820		795	
HWC9N5511P30	45 - 75	60	TAP 1 (HEAT)	208 or 230	735	64	700	68	670	71	640	74
			TAP 2 (HEAT)	208 or 230	825	57	795	59	770	61	745	63
			TAP 3 (HEAT) *	**208 or 230**	**895**	**53**	**865**	**55**	**840**	**56**	**810**	**58**
			TAP 4 (COOL) †	208 or 230	800		765		735		715	
			TAP 5 (COOL)	208 or 230	880		845		820		795	

N/A: Do not operate unit in heating mode using this blower speed at this external static pressure. Outside of temperature rise range.

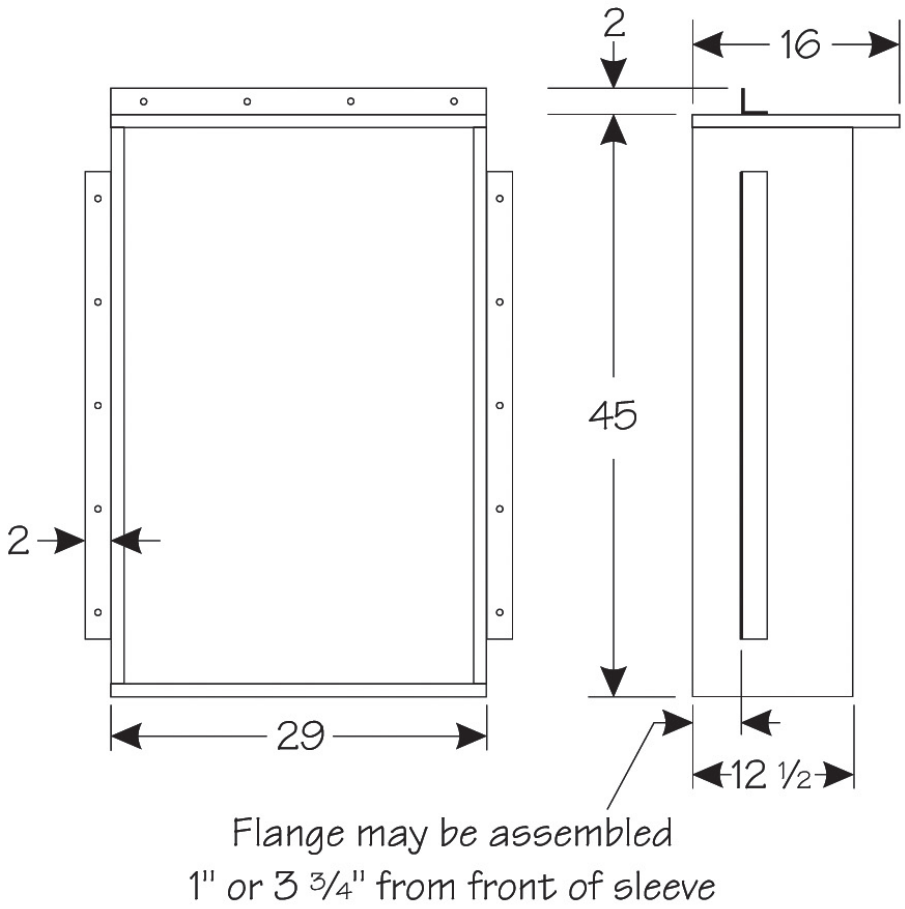
* : As shipped speed for heating operation
† : As shipped speed for cooling operation

UNIT DIMENSIONS





WALL SLEEVE DIMENSIONS



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All specifications and illustrations subject to change
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FORM NO. HWC-100 (06/2017)

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Printed in the U.S.A.