

ries Morophy

AWSVX Series WATER SOURCE HEAT PUMP Vertical - R-410A 1-1/2 thru 5 Tons







AE-Air is pleased to introduce the all-new **AWSVX** series **HydroTech** water source heat pump. Designed by contractors, for contractors, the **HydroTech** is the most feature-packed product available today.

The **HydroTech** includes many standard features found only in higher priced products, plus a number of **unique features**, including:

- 2-speed blower operation in the summer: The **HydroTech** removes more moisture from the air by operating on a lower speed for up to 10 minutes before quietly switching to a higher speed. An even higher speed is also available for high static applications.
- Having the smallest footprint of any product in its class ensures a perfect fit when replacing older models in tight closets (even the 036 model is only 21.5 wide by 21.5 deep!).
- Blower assemblies are field-reversible 180 degrees (except model 040). This option can improve airflow when the units are installed in closets with very little room for supply plenums.
- Optional Vacated Premises Control (VPC) kit with reset feature: Ensures that the unit will operate a minimum of one or two hours per day during extended periods of unoccupancy. This option also includes an automatic reset feature. If a fault occurs, the system will shut down, but then automatically reset every 24 hours. If the same fault exists each day, the unit will lockout on the fourth day and have to be manually reset.
- Superior insulation: Fully insulated with ¾" Tuf-Skin RX™, which
 offers greater sound absorption and better thermal efficiency. The
 insulation has a special acrylic coating that's formulated with an
 EPA registered anti-microbial agent.
- Removable discharge flange: Provides additional installation clearance.
- Tool-less filter rack installation: Can be installed after the unit is in the closet, providing additional installation clearance.
- State-of-the-art Digital Control Module (see p. 2)

Additional Standard Features -

- 100% Factory Tested!
- R-410A Refrigerant All units operate with environmentally friendly R-410A refrigerant.
- Non-corrosive Thermoplastic Condensate Pan- Sloped for positive drainage
- High and Low pressure Service Ports
- Refrigerant Filter-drier and Discharge Muffler
- Panel-mounted FPT Water Connections No back-up wrench needed
- Removable Panels for Service
- 50 VA Transformer
- 1" Throwaway Filter

Optional Features -

- Cupronickel Coaxial Heat Exchanger
- Vacated Premises Control
- E-Coated Air Coil Corrosion Protection
- Compressor Cover: A heavy duty, insulated compressor cover that reduces unwanted compressor noise (must be field installed on the AWSVX unit before the unit is installed in the closet).
 - Part No. K3821332 (fits AWSVX18-42)
 - Part No. K4251 (fits AWSVX48/60)
- Evaporator Temperature Sensor





Digital Control Module - Controls unit operation and monitors all safety controls. (Patent Pending)

Standard Features -

- Digital Diagnostic Display A two-digit display indicates either the current operational mode or a fault code
- 24V Status LED Green light indicates 24V power to the control module
- VPC (Vacated Premises Control) Allows the unit to operate for either 1 or 2 hours per day (total) during extended periods of unoccupancy (requires optional kit).
- Nuisance Trip Protection Unit will attempt to start up to three times with a fault signal. If the fault continues, the unit locks out.
- Condensate Overflow Lockout
- High and Low Pressure Controls
- Water Coil Low Temperature Protection
- Over / Under Voltage Protection
- Random Re-start Timer
- Anti-short Cycle Timer
- Test Mode With LED Indicator Speeds up control timers for service personnel
- Alarm Relay Activated if the unit locks out
- Conformal Coating (both sides) for humidity and condensation protection

Dip Switches (field selectable settings):

- 5 Second Compressor Delay Blower starts before the compressor, which helps attenuate compressor start up sound.
- 45 Second Blower-off Delay Increases cooling efficiency.
- Continuous Dehumidification Mode Selects continuous low speed fan operation for increased humidity removal.
- VPC Switch Selects either one or two hour daily operation (requires optional kit)
- Lower Water and Air Coil Temperature Cutout Options Optional 10 degree F. cutouts for applications where water temperature is below 50 degrees F. (requires antifreeze solution).
- Two Accessory Relays The relays can cycle with either the fan or compressor.
 In addition, relay number one can be configured for use with slow opening water valves
 (60 second pre-compressor initialization) and relay number 2 can be configured for a 30 second post fan delay.



Digital Control Module



Thermoplastic Drain Pan

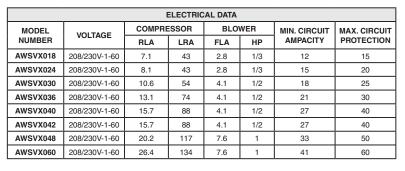


Optional Vacated Premises Selector Switch (Kit# 9WS01)



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PERFORMAN	ICE DATA	- AT STAN	NDARD OPER	ATING CO	ONDITIONS	PERFORMANCE DATA - CERTIFIED AT ARI/ISO 13256-1 CONDITIONS								
			WATER LO	OP (enteri	ng Water Ten	nperature)				WATER LOOP (entering Water Temperature)				
MODEL	CFM	GPM	85 Deg.F		70 Deg.F		MODEL	CFM	GPM	86 Deg.F		68 De	g.F	
			COOLING	EER	HEATING	COP]		ĺ	COOLING	EER	HEATING	COP	
AWSVX018	550	5.0	17,110	14.1	21,210	4.3	AWSVX018	550	5.0	17,000	14.0	21,000	4.25	
AWSVX024	745	6.1	23,620	14.4	28,260	4.3	AWSVX024	745	6.1	23,400	14.2	28,000	4.25	
AWSVX030	930	9.0	28,250	14.2	33,120	4.4	AWSVX030	930	9.0	28,000	14.0	32,800	4.30	
AWSVX036	950	10.0	33,350	14.1	42,510	4.4	AWSVX036	950	10.0	33,000	14.0	42,100	4.25	
AWSVX040	970	10.1	37,320	13.2	46,620	4.3	AWSVX040	970	10.1	36,900	13.0	46,100	4.20	
AWSVX042	1280	10.5	40,980	14.2	48,120	4.5	AWSVX042	1280	10.5	40,500	14.0	47,500	4.40	
AWSVX048	1400	12.5	47,600	14.1	54,480	4.3	AWSVX048	1400	12.5	47,100	14.0	53,800	4.25	
AWSVX060	1760	15.5	56,590	14.42	70,000	4.3	AWSVX060	1760	15.5	56,000	14.0	69,300	4.25	

Note:

Tabulated performance data is at noted entering water temperature and entering air conditions of 80 degree DB / 67 degree WB for cooling and 70 degree DB for heating at 208V CFM.

Note:

Tabulated performance data is at noted entering water temperature and entering air conditions of 80.6 degree DB / 66.2 degree WB at ARI / ISO 13256-1 rated 208V CFM.

	FACTORY BLOWER SETTINGS										
MODEL	FAN	MOTOR	CFM vs	EXTERNAL	STATIC F	CL	HTG				
NUMBER	SPEED	TERMINAL NO.	0.1	0.2	0.3	0.4	0.5	0.6	1-10 MINS	10+ MINS	
	HIGH STATIC	4			720	690	640	580			
AWSVX018	HIGH	3	620	590	540	500	460			Х	Х
	LOW	2	540	490	450	390	360		Х		
	HIGH STATIC	4			1000	930	850	750			
AWSVX024	HIGH	3	790	760	720	690	650			Х	Х
	LOW	2	630	590	540	500	460		Х		
	HIGH STATIC	4			1050	960	890				
AWSVX030	HIGH	3	970	950	920	890	850			Х	Х
	LOW	2	820	780	750	720	690		Х		
	HIGH STATIC	4			1040	970	910				
AWSVX036	HIGH	3	1050	1020	990	940	870			Х	Х
	LOW	2	920	890	860	830	790		Х		
	HIGH STATIC	4			1140	1110	1080				
AWSVX040	HIGH	3	1080	1050	1030	990	960			Х	Х
	LOW	2	950	920	890	860	820		Х		
	HIGH STATIC	4			1460	1430	1400	1340			
AWSVX042	HIGH	3	1370	1340	1310	1280	1250			Х	Х
	LOW	2	1060	1030	1000	960	920		Х		
	HIGH STATIC	4			1840	1820	1790	1740			
AWSVX048	HIGH	3	1530	1500	1470	1440	1410			Х	Х
	LOW	2	1190	1160	1130	1100	1070		Х		
	HIGH STATIC	4			1950	1920	1890	1840			
WSVX060	HIGH	3	1880	1860	1840	1820	1790			Х	Х
	LOW	2	1530	1500	1470	1440	1410		Х		

All models factory wired for speed taps 1, 2 and 3.

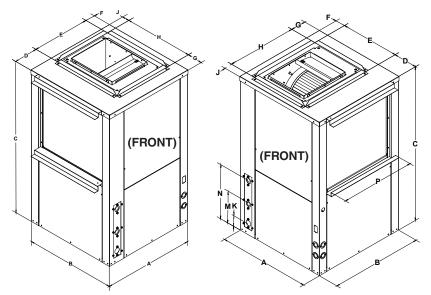
Note:

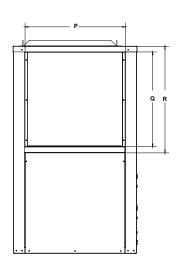
For superior dehumidification in the summer, all models operate at a slightly lower speed for a maximum of ten minutes before shifting to a higher speed. An optional "High" speed is available for higher static applications.



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Left Hand Unit

Right Hand Unit

SIDE VIEW

	DIMENSIONS																		
	Α	В	С	D	Е	F	G	Н	J	K	M	N	Р	Q	R	Condenser	Condensate Connections	Nom. Filter Size	Ship WT.
MODEL NUMBER	Width	Depth	Height		Duct			Duct		Water In	Condensate Drain	Water Out	R/A Duct Flange Width	R/A Duct Flange Height	Filter Rack Height	Water Connections			
AWSVX018	21.50	21.50	36.25	5.62	13.75	2.25	3.63	16.25	1.75	2.50	7.00	12.50	17.50	16.00	18.00	3/4" F.P.T.	3/4" F.P.T.	18 X 20 X 1	205
AWSVX024	21.20	21.50	36.25	5.62	13.75	2.25	3.63	16.25	1.75	2.50	7.00	12.50	17.50	16.00	18.00	3/4" F.P.T.	3/4" F.P.T.	18 X 20 X 1	215
AWSVX030	21.50	21.50	39.25	5.62	13.75	2.25	3.63	16.25	1.75	2.50	7.00	12.50	17.50	18.00	20.00	3/4" F.P.T.	3/4" F.P.T.	20 X 20 X1	230
AWSVX036	21.50	21.50	39.25	5.62	13.75	2.25	3.63	16.25	1.75	2.50	7.00	12.50	17.50	18.00	20.00	3/4" F.P.T.	3/4" F.P.T.	20 X 20 X 1	240
AWSVX040	21.50	21.50	39.25	5.62	13.75	2.25	3.63	16.25	1.75	2.50	7.00	12.50	17.50	18.00	20.00	3/4" F.P.T.	3/4" F.P.T.	20 X 20 X 1	250
AWSVX042	21.50	26.00	43.25	5.00	15.75	0.75	5.00	16.25	4.75	2.50	7.00	12.50	22.00	22.00	24.00	3/4" F.P.T.	3/4" F.P.T.	24 X 24 X 1	265
AWSVX048	26.00	26.00	43.25	7.12	17.75	1.25	6.25	17.75	2.12	2.75	6.25	10.75	22.00	28.00	28.00	1" F.P.T.	3/4" F.P.T.	24 X 30 X 1	305
AWSVX060	26.00	26.00	43.25	7.12	17.75	1.25	6.25	17.75	2.12	2.75	6.25	10.75	22.00	28.00	28.00	1" F.P.T.	3/4" F.P.T.	24 X 30 X 1	325

Notes: 1. Right Hand and Left Hand return air is determined by facing the front of the unit.

WATER SOURCE HEAT PUMP MODEL NOMENCLATURE

