





Bard W3VHY-R Wall Mount Variable Speed Heat Pump Installation Guide

Home » Bard wavhy-R Wall Mount Variable Speed Heat Pump Installation Guide 🖺



Contents

- 1 Bard W3VHY-R Wall Mount Variable Speed Heat Pump
- **2 EXTERNAL PARTS STANDARD**
- 3 EXTERNAL PARTS RECESSED CABINET
- 4 INTERNAL PARTS STANDARD & RECESSED
- 5 FUNCTIONAL COMPONENTS STANDARD & **RECESSED**
- 6 CONTROL PANEL STANDARD & RECESSED
- **7 BLOWER ASSEMBLY**
- 8 INVERTER DRIVE ASSEMBLY 230V 1 PHASE.
- 9 Product Specifications 10 Frequently Asked Questions (FAQ)
- 11 Documents / Resources
 - 11.1 References
- 12 Related Posts



Bard W3VHY-R Wall Mount Variable Speed Heat Pump



Models

- W3VHY-R
- W3VHY-S
- W3VHY-T
- W3VHYDR
- W3VHYDS
- W3VHYDT
- W5VHY-R
- W5VHY-S
- W5VHY-T
- W5VHYDR
- W5VHYDS
- W5VHYDT

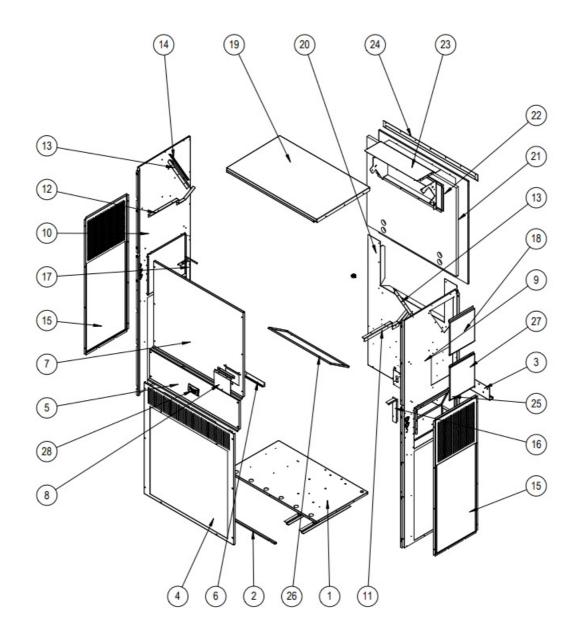
General Notes

- Revised and/or additional pages may be issued from time to time.
- A complete and current manual consists of pages shown in the following contents section.

Important

• Contact the installing and/or local Bard distributor for all parts requirements. Make sure to have the complete model and serial number available from the unit rating plates.

EXTERNAL PARTS – STANDARD



This drawing to be used for reference for pages 3 and 4

1 1 1 1	127-623BX 527-623BX 127-624BX 3 527-624BX 3	Base (only) Base Assembly w/Compressor Plate Base (only) – St ainless Base Assembly w/Compressor Plate – Stainless	X X O O	XX O O	XX OO	XX OO
2	113-762BX 113-797BX 3	Front Base Bracket – Stainless	хо	хо	хо	хо
3	113-140BX	Bottom Support Bracket	Х	Х	Х	Х

4	119-125-*BX 1					
4	119-148BX k 2	Frank Crilla				
4	119-135BX 3	Front Grille				
4	119-127-*BX 1	Front Grille – Aluminum Front Grille – Stainless Front Grille	X O	X O		
4	119-149BX k 2	Front Grille – Aluminum Front Grille – Stainless			хо	хо
					0	0
4	119-137BX 3					
5	533-301-*BX 1					
5	533-309 BX k 2	Control Panel Cover (Outer) Control Panel Cover (Outer)	хо	хо	хо	хо
5	533-310 BX 3	ter) Control Panel Cover (Outer)	0	0	0	0
	105 000 ±DV 1					
6	165-608-*BX 1		V 0	хо	хо	хо
6	165-609BX k 2	Rain Channel Rain Channel	X O	0	0	o
6	165-610BX 3					
7	515-323-*BX 1					
7	515-328BX k 2	Upper Front				
7	515-330BX 3	Upper Front – Aluminum Upper Front – Stainless Upp	V 0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
7	515-324-*BX 1	er Front	X O	X O		
7	515-329BX k 2	Upper Front – Aluminum Upper Front – Stainless			X O	ХО
7	515-331BX 3					
8	153-717-*BX 1	Disconnect Access Door				
8	153-723BX k 2	Disconnect Access Door – Aluminum Disconnect Acc	X O	X O	X O	X O
8	153-724BX 3	ess Door – Stainless				
9	501-1133-*BX 1					
9	501-1128BX k 2	Right Side Assembly				
9	501-1129BX 3	Right Side Assembly – Aluminum Right Side Assembl				
9	501-1135-*BX 1	y – Stainless Right Side Assembly	X O	X O		
9	501-1131BX k 2	Right Side Assembly – Aluminum Right Side Assembly – Stainless			хо	хо
9	501-1132BX 3	j Starrioto			0	0

10	501-1083-*BX 1					
10	501-1073BX k 2	Left Side Assembly				
10	501-1077BX 3	Left Side Assembly – Aluminum Left Side Assembly – Stainless Left Side Assembly	хо	хо		
10	501-1081-*BX 1	Left Side Assembly – Aluminum Left Side Assembly –	0	0		
10	501-1075BX k 2	Stainless			X O	X O O
10	501-1079BX 3					
11	105X1454BX	Right Support Angle	Х	Х	Х	Х
12	105Y1454BX	Left Support Angle	X	X	X	X
13	105-1457BX					
13	105-1455BX	Coil Support	2	2	2	2
14	147-055BX					
14	147-054BX	Coil Support Offset Coil Support Offset	X	X	x	x
Contii	nued on page 4		I.	I	I	

- 1. Exterior cabinet parts are manufactured with various paint color options. To ensure the proper paint color is received, include the complete model and serial number of the unit for which cabinet parts are being ordered.
- 2. Exterior cabinet parts are manufactured from aluminum Code "A"
- 3. Exterior cabinet parts are manufactured from stainless steel Code "S"
 - X Standard Component
 - O Optional Component

Dwg			N3VHY-R,	W3VHYDR	W5VHY-R,	W5VHYDR
No.	Part Number	Description	*	×	Š	*
		Continued from page 3				
15 15 15 15 15 15	119-126-*BX @ 119-142BX @ 119-136BX @ 119-128-*BX @ 119-143BX @ 119-138BX @	Side Grille Side Grille - Aluminum Side Grille - Stainless Side Grille Side Grille - Aluminum Side Grille - Stainless	2 2 2	2 2 2	2 2 2	2 2 2
16	105-1450BX	Right Control Panel Angle	Х	Х	Х	Х
17	105-1451BX	Left Control Panel Angle	Х	Х	Х	Х
18 18 18	543-221-*BX @ 543-228BX @ 543-229BX ®	Heater Access Cover Heater Access Cover - Aluminum Heater Access Cover - Stainless	X 0 0	X 0 0	X 0 0	X 0 0
19 19 19	507-382-*BX @ 507-391BX @ 507-392BX @	Top Top - Aluminum Top - Stainless	X O O	X 0 0	X 0 0	X 0 0
20 20 20 20 20 20 20	109-412BX 109-418BX 109-422BX ③ 109-414BX 109-420BX 109-424BX ③	Lower Back Lower Back Lower Back - Stainless Lower Back Lower Back Lower Back - Stainless	X O O	X 0 0	X 0 0	X 0 0
21 21 21 21 21 21 21	509-498BX 509-500BX 509-502BX ③ 509-499BX 509-501BX 509-503BX ③	Upper Back Upper Back Upper Back - Stainless Upper Back Upper Back Upper Back - Stainless	X 0 0	X 0 0	X 0 0	X 0 0
22	111-299BX	Outlet Air Frame Assembly	Х	Х	Х	Х
23	535-129BX	Heat Shield	Х	X	Х	Х
24 24 24	113-150-*BX @ 113-150-4BX @ 113-359BX @	Top Rain Flashing Top Rain Flashing Top Rain Flashing - Stainless	X 0 0	X 0 0	X 0 0	X 0 0
25 25	539-406BX 543-222BX	Fresh Air Damper Assembly Intake Blank-Off Plate	X O	X O	X O	X O
26	543-220BX	Exhaust Blank-Off Plate	Х	X	X	Х
27 27 27	543-248-*BX ^① 543-250BX ^② 543-251BX ^③	Access Cover Access Cover - Aluminum Access Cover - Stainless	X 0 0	X 0 0	X 0 0	X 0 0
28	5252-033BX	Bard Nameplate	X	X	X	X

- 1. Exterior cabinet parts are manufactured with various paint color options. To ensure the proper paint color is received, include the complete model and serial number of the unit for which cabinet parts are being ordered.
- 2. Exterior cabinet parts are manufactured from aluminum Code "A"

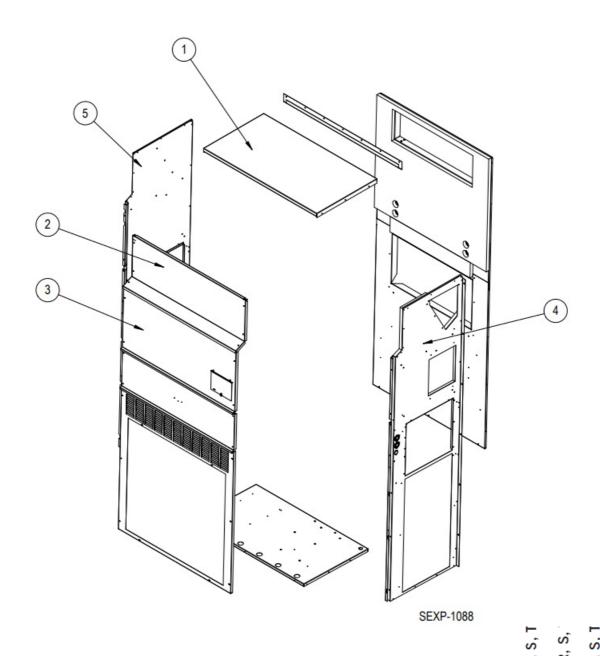
NOTE: #24 – Top rain flashing not available in aluminum; order 113-150-4 (Buckeye Gray).

- 3. Exterior cabinet parts are manufactured from stainless steel Code "S"
 - X Standard Component
 - O Optional Component

IMPORTANT: Parts shown on this page and page 3 reflect model nomenclature character 11 (W*HY******X/D**) for units with standard cabinets. See page 7 for external parts for nomenclature character 11 J or N (recessed cabinets).

This page intentionally left blank

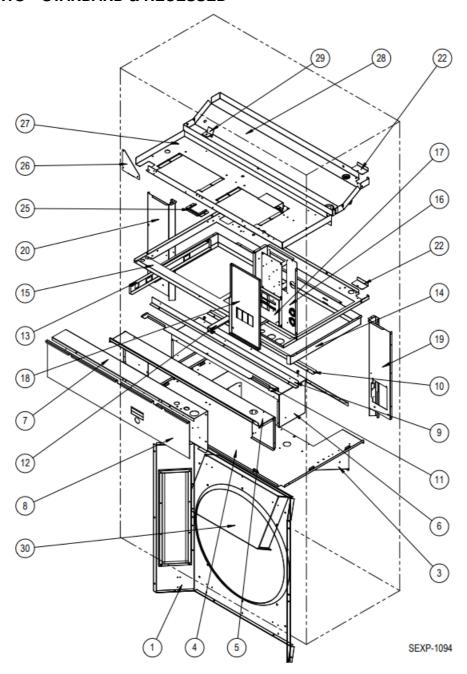
EXTERNAL PARTS – RECESSED CABINET



Drawing No.	Part Number	Description	W3VHY-R	W3VHYDF	W5VHY-R	W5VHYD
1	507-413-*BX ①	Тор	X	Χ	Χ	Χ
2	515-354-*BX ①	Upper Front	X	Χ		
2	515-356-*BX ①	Upper Front			X	X
3	515-355-*BX ①	Center Front	X	Χ		
3	515-357-*BX ①	Center Front			X	X
4	501-1169-*BX ①	Right Side Assembly	X	X		
4	501-1170-*BX ①	Right Side Assembly			X	X
5	501-1171-*BX ①	Left Side Assembly	X	Χ		
5	501-1172-*BX ①	Left Side Assembly			X	X

- Exterior cabinet parts are manufactured with various paint color options. To ensure the proper paint color is received, include the complete model and serial number of the unit for which cabinet parts are being ordered.
- The replacement cabinet parts listed above are specific to the recessed unit W3/5VHY heat pump models (model nomenclature character 11 J or N). All other replacement cabinet external parts for these models are referenced on pages 2, 3 and 4. See IMPORTANT on page 3.

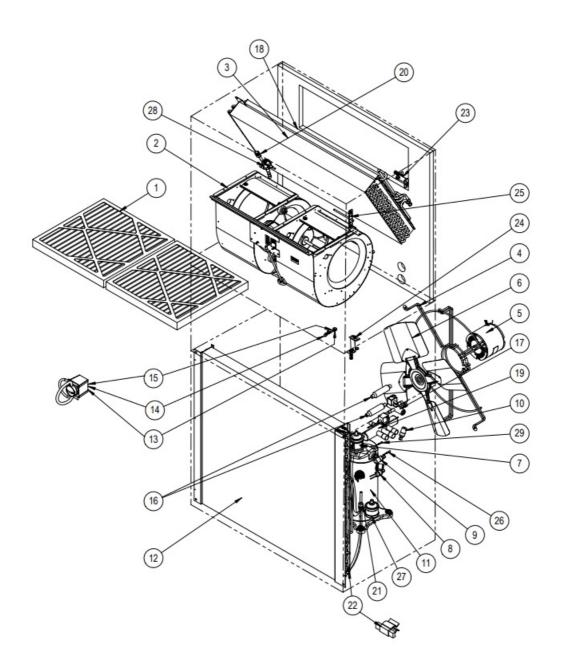
INTERNAL PARTS – STANDARD & RECESSED



Dwg.			W3VHY-R	W3VHY-S	W3VHY-T	W3VHYDF	W3VHYDS	W3VHYDT	W5VHY-R	W5VHY-S	W5VHY-T	W5VHYDF	WSVHYDS	WSVHYDT
No.	Part Number 921-0122BX	Description Fan Shroud - Blow Thru		<u>></u>	>		>	>	_	>	>	_	_	>
1	921-0123BX	Fan Shroud - Blow Thru	^	^					Х	Х	Χ	Х	χ	Х
1	921-0120BX ① 921-0121BX ①	Fan Shroud - Draw Thru Fan Shroud - Draw Thru	0	0	0	0	0	0	0	0	0	0	o	0
1	921-0121BX @		0	0	0	0	0	0	U	U	U	U	١	U
1	921-0127BX @@	Fan Shroud - Blow Thru - Stainless							0	0	0	0	0	0
1	921-0124BX @@ 921-0125BX @@	Fan Shroud - Draw Thru - Stainless Fan Shroud - Draw Thru - Stainless	0	0	0	0	0	0	0	0	0	0	0	0
3	121-586BX 121-600BX ②	Condenser Partition Insert Condenser Partition Insert - Stainless	X O	X O	X O	X	X 0	X O	X 0	X 0	X	X 0	X O	X 0
4	121-585BX 121-599BX @	Condenser Partition Condenser Partition - Stainless	X	X	X	X	X	X	X	X	X	X	X	X
5	521-630BX	Front Exhaust Partition	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	X
6	521-587BX	Exhaust Partition	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
7	Control Panel Assy.	See Control Panel on pages 14 – 16	Х	Х	X	Х	Х	Χ	Х	Х	Χ	Χ	Х	Χ
8	133-356BX	Control Panel Cover (Inner)	Χ	Х	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ
9	105-1453BX	Front Vent Guide Rail	Х	Х	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ
10	105-1452BX	Vent Guide Rail	Х	Х	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Х
11	135-424BX	Field Wire Shield	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
12	131-168BX	Filter Support Bracket	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X	X	Χ
13	131-170BX	Filter Slide	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
14	131-169BX	Filter Rack Frame	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X	Χ
15	121-663BX	Filter Partition	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X	Χ
16	117-412BX	Upper Control Panel	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X	X	Χ
17 17	127-575BX 127-585BX	Circuit Breaker Base Circuit Breaker Base - 460V	X	X	Χ	X	X	Х	X	X	Χ	X	X	χ
18 18	133-303BX 133-304BX	Upper Control Panel Cover Upper Control Panel Cover	X	X	Х	X	X	Х	X	X	χ	X	X	χ
19 19	135X422BX 135X423BX ©	Right Copper Chase Right Copper Chase - Stainless	X O	X 0	0	0 X	X 0	X 0	X 0	X 0	0 X	X 0	X 0	X 0
20 20	135Y393BX 135-398BX ©	Left Copper Chase Left Copper Chase - Stainless	X	X 0	0 X	0	X	X 0	X 0	X 0	0	X O	X O	X 0
22	137-920BX	Copper Fill Plate	2	2	2	2	2	2	2	2	2	2	2	2
25	113-765BX	Grommet Retainer Bracket	Χ	Χ	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ
26	141-492BX	Blower Partition Support	X	X	Χ	Χ	X	Х	X	Χ	Χ	Χ	Χ	Χ
27	121-582BX	Blower Partition	Х	Χ	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ
28 28	523-161BX 523-162BX @ @	Drain Pan Assembly Drain Pan Assembly - Stainless	X O	X O	X 0	X 0	X 0	X O	X 0	X 0	X O	X O	X O	X 0
29	113-768BX	TXV Bracket	Х	Х	Χ	Χ	Χ	Х	χ	χ	Χ	Χ	χ	Х
30	Inverter Assy.	See Inverter Drive Assembly Drawing and Parts List	Х	Х	X	Х	Х	Х	Х	Х	Χ	X	Х	Χ

- 1. Fan assemblies are offered in blow-thru or draw thru. Refer to nomenclature character 11 X, D, J, or N.
- 2. Used with stainless steel cabinet option.
- 3. For aluminum units, order 523-162 stainless steel drain pan.
 - X Standard Component
 - O Optional Component

FUNCTIONAL COMPONENTS - STANDARD & RECESSED



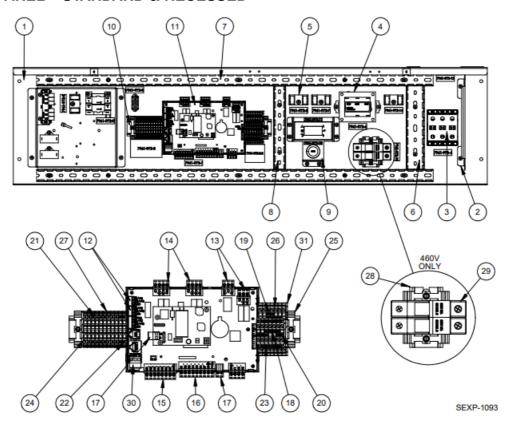
Dwg.			W3VHY-R	W3VHY-S	W3VHY-T	W3VHYDR	W3VHYDS	W3VHYDT	W5VHY-R	W5VHY-S	W5VHY-T	WSVHYDR	W5VHYDS	W5VHYDT
No.	Part Number	Description	_		_	_	_		_	_	_	_	_	_
1	7004-012 7003-085 ⊙	Air Fliter 1" Throw-Away (20 x 20 x 1) Air Fliter 1" Washable (20 x 20 x 1)	2	2	2	2	2	2	2	2	2	2	2	2
1	7004-052 ©	Air Filter 2" Merv 8 (20 x 20 x 2)	2	2	2	2	2	2	2	2	2	2	2	2
1	7004-060 ①	Air Filter 2" Merv 11 (20 x 20 x 2)	2	2	2	2	2	2	2	2	2	2	2	2
2	7004-063 ①	Air Filter 2" Merv 13 (20 x 20 x 2)	X	X	X	X	X	X	2	2	2			
2	900-398-0244BX 900-397-0245BX	Blower Assembly Blower Assembly	X	X	X	X	X	X	X	X	X	Х	X	x
3	917-0405BX	Indoor Coll w/Distributor Assy.	X	X	X	X	X	X						
3	917-0406BX 917-0376BX	Indoor Coll - Coated w/Distributor Assy. Indoor Coll w/Distributor Assy.	0	0	0	0	0	0	x	x	х	x	х	x
3	917-0377BX	Indoor Coll - Coated w/Distributor Assy.							ô	ô	ô	ô	ô	ô
4	8200-049BX	Fan Motor Mount	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X
4	8200-052BX ②	Fan Motor Mount - Stainless Steel	0	0	0	0	0	0	0	0	0	0	0	0
5	8106-079-0246BX	Condenser Motor	X	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	X
6	5151-060BX ③ 5151C060BX ③	Fan Blade Fan Blade - Coated	X	X	X	X	X	X	X	X	X	X	X	X
6	5151-054BX ③	Fan Blade - Coated	o	0	0	0	0	0	0	0	0	0	0	ő
6	5151C054BX @	Fan Blade - Coated	0	0	0	0	0	0	0	0	0	0	0	0
7	5201-020BX	H/P Liquid Filter Drier	X	Х	X	Х	Х	Х	Х	Х	X	Х	X	X
8	8406-164BX	High Pressure Switch	X	Х	X	Х	X	Х	Х	X	X	X	X	X
9	8406-157BX	High Pressure Transducer	X	Х	X	X	Х	Х	Х	X	Х	Х	X	X
10	8408-158BX	Low Pressure Transducer	X	Х	X	X	Х	Х	Х	X	X	Х	X	X
11 11	8000-498BX 8000-499BX	Compressor ZPV0382E-2E9 Compressor ZPV0282E-2E9	x	х	x	х	х	х	Х	X	X	Х	X	X
12	917-0413BX	Outdoor Coll (Includes Distributor)	Х	Х	Х	Х	Х	Х						
12	917-0414BX 917-0417BX	Outdoor Coll - Coated (Includes Distributor) Outdoor Coll (Includes Distributor)	0	0	0	0	0	0	v	l,	х	l,	х	x
12	917-0417BX 917-0418BX	Outdoor Coll - Coated (Includes Distributor)							0	0	ô	0	ô	ô
13	1171-023	1/4 Turn Receptacle	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X
14	1171-022	1/4 Turn Fastener	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X
15	1171-024	1/4 Turn Retainer	X	Х	X	Х	Х	Х	Х	X	X	Х	X	X
16	5651-219	Check Valve				2	2	2				2	2	2
17	5650-051	Dehumidification 3-Way Valve				Х	Х	Х				Х	X	X
18	5051-221BX	Reheat Coll				X	Х	Х				Х	X	X
19	5650-040BX	Reversing Valve	X	Х	X	Х	Х	X	Х	X	X	Х	X	X
20 20	800-0461BX 800-0455BX	Distributor Assembly - Indoor Coll Distributor Assembly - Indoor Coll	X	Х	X	Х	Х	Х	х	х	х	х	x	x
21 21	800-0424BX 800-0455BX	Distributor Assembly - Outdoor Coll Distributor Assembly - Outdoor Coll	X	Х	X	Х	Х	Х	х	х	х	х	х	х
22	8408-058	Defrost Thermistor Sensor	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
23	910-2257BX	Supply Temp Sensor	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
24	910-2299BX	Return Temp Sensor	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
25	910-2106BX	Mixed Air Sensor	Х	х	Х	Х	Х	Х	Х	Х	Х	Х	х	Х
26	8408-063BX	Discharge Line Thermostat (DLT Sensor)	Х	х	Х	Х	х	х	Х	Х	Х	х	Х	Х
27	5220-013BX	Pulsation Dampener/Muffler	Х	х	Х	Х	х	Х	Х	Х	Х	х	Х	Х
		Continued on page 12												\neg

- 1. Optional on these models
- 2. Used with stainless steel cabinet option
- 3. Fan assemblies offered in blow-thru or draw-thru. Refer to nomenclature character 11 X, D, J or N.
 - X Standard Component
 - O Optional Component

Dwg.			N3VHY-R	W3VHY-S	W3VHY-T	W3VHYDR	W3VHYDS	/ЗУНУDТ	W5VHY-R	W5VHY-S	W5VHY-T	W5VHYDR	W5VHYDS	WSVHYDT
No.	Part Number	Description Continued from page 11	>	>	>	>	>	>	>	>	>	>	>	>
			T	T										-
28 28	905-0737BX 905-0800BX	Electronic Expansion Valve Assembly E2V24 Electronic Expansion Valve Assembly E2V30	X	X	X	Х	X	Х	X	X	Χ	χ	χ	χ
29	8408-054BX	Suction Temp Sensor	Х	Х	Х	Х	Х	Х	Х	X	Χ	Х	Χ	Χ
NS	910-2132BX	460V 2KVa Transformer Assembly (Non-ERV)			Х			Х			Χ			Χ
NS	910-2209BX	460V 3KVa Transformer Assembly (ERV Installed)			0			0			0			0
NS	5650-042BX	Rev. Valve Solenoid, Red Casing (Ranco)	Х	Х	Х	Х	Χ	Х	Х	Χ	Χ	Χ	Χ	Χ
NS	5650-046BX	Rev. Valve Solenoid, Black Casing (San Hua)	X	X	X	Χ	Χ	Χ	Χ	X	Χ	Χ	Χ	Χ
NS	5451-024	Tubing Isolation Grommet	2	2	2	2	2	2	2	2	2	2	2	2
NS	6031-009	Coremax Valve Core	2	2	2	2	2	2	2	2	2	2	2	2
NS	1171-028	Control Panel Door Clip	4	4	4	4	4	4	4	4	4	4	4	4
NS	1171-057	Control Panel Door Screw	4	4	4	4	4	4	4	4	4	4	4	4
NS	1171-027	Control Panel Door Screw Retainer	4	4	4	4	4	4	4	4	4	4	4	4
NS	3000-1779BX	Molded Plug for Reversing Valve (Blue Lead)	Х	X	Χ	Χ	Χ	Χ	Χ	X	Χ	Χ	Χ	Χ
NS	3000-1780BX	Molded Plug for Dehum Valve (Purple/White Lead)				Χ	Χ	Χ				Χ	Χ	Х

X – Standard Component O – Optional Component

CONTROL PANEL - STANDARD & RECESSED



Dwg.	Part Number	Description	W3VHY-R	W3VHY-S	W3VHY-T	W3VHYDR	W3VHYDS	W 3V HYDT	W SVHY-R	W5VHY-S	W SV HY-T	WSVHYDR	W5VHYDS	WSVHYDT
1	517-446BX	Control Panel			X	X	X	X	X	X	X	X	X	X
2	135-394BX	Wire Shield	X	X	Х	Х	Х	Х	Х	X	X	X	Х	X
3	8607-074BX 8607-070BX	Power Terminal Block 2 Pole Power Terminal Block 3 Pole	X	Х	Х	Х	Х	Х	X	Х	X	Х	Х	Х
4	8407-065BX 8407-072BX	Transformer 230/24VAC 75VA Transformer 460/24VAC 75VA	X	Х	х	Х	Х	х	X	X	Х	Х	Х	х
5	8607-017BX	Terminal Block 240V 2 Terminal	2	2	3	2	2	3	2	2	3	2	2	3
6	8611-244-0700	2-1/4" x 1-1/2" Cable Duct 7"	Х	χ	χ	Х	Х	Χ	Х	Х	Х	Х	Χ	Х
7	8611-140-3300	2-1/4" x 1" Cable Duct 33"	2	2	2	2	2	2	2	2	2	2	2	2
8	8611-140-0700	2-1/4" x 1" Cable Duct 7"	Х	χ	Χ	Х	Х	Х	Х	Х	Х	Х	Х	Х
9	910-2266BX	PLD Display Assembly	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
10	113-820BX	12" DIN Rail	Х	χ	χ	Х	Х	Х	Х	Х	Х	Х	Χ	Х
11	8301-109-001BX	UPC3 C2 - Variable Speed	Х	χ	χ	Х	Х	Х	Х	Х	Х	Х	Χ	Х
12	8611-192	3-PIN Circuit Board Connector	2	2	2	2	2	2	2	2	2	2	2	2
13	8611-147	3-PIN Circuit Board Connector	2	2	2	2	2	2	2	2	2	2	2	2
14	8611-148	4-PIN Circuit Board Connector	3	3	3	3	3	3	3	3	3	3	3	3
15	8611-185	8-PIN Circuit Board Connector	Х	Χ	χ	Х	Х	Х	Х	Х	Х	Х	Х	Х
16	8611-149	9-PIN Circuit Board Connector	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
17	8611-183	2-PIN Circuit Board Connector	2	2	2	2	2	2	2	2	2	2	2	2
18	8611-195	Jumper 4 Position	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
20	8611-282	Jumper 1 Position	4	4	4	4	4	4	4	4	4	4	4	4
21	8607-056	Terminal Designation (1-10)	2	2	2	2	2	2	2	2	2	2	2	2
22	8607-055	Terminal Designation (11-20)	2	2	2	2	2	2	2	2	2	2	2	2
23	8607-054	Terminal Designation (21-30)	2	2	2	2	2	2	2	2	2	2	2	2
24	8611-151	Terminal Block End Cap for DIN Rail	Х	χ	Χ	Х	Х	Х	Х	Х	Х	Х	Х	Х
25	8611-144	End Clamp for DIN Rail	2	2	2	2	2	4	2	2	2	2	2	4
26	8611-058	Double Level Terminal Block	7	7	7	7	7	7	7	7	7	7	7	7
27	8611-150BX	Terminal Block for DIN Rail RS485	11	11	11	11	11	11	11	11	11	11	11	11
28	113-943BX	35MM DIN Rail 2-1/2"			Х			Х			Х			Х
29	8614-058BX	2-POLE Enclosed Fuse Holder			Χ			Х			Х			Х
30	8611-237	3-PIN Circuit Board Connector	Х	Х	Χ	Х	Х	Х	Х	Х	Х	Х	Χ	Х
31	8611-221	End Cover	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
NS NS	8614-042BX 8614-043BX	7A Class CC Fuse (Non-ERV units) 10A Class CC Fuse (Unit with ERV Only)			2			2			2			2 2
NS NS NS NS NS NS	8615-038BX 8615-039BX 8615-040BX 8615-051BX 8615-052BX 8615-042BX 8615-095BX	Circuit Breaker 35A 2 Pole ① Circuit Breaker 45A 2 Pole ① Circuit Breaker 50A 2 Pole ① Circuit Breaker 25A 3 Pole ① Circuit Breaker 30A 3 Pole ① Circuit Breaker 35A 3 Pole ① Circuit Breaker 35A 3 Pole ①	Х	х	X	X	x	X	х	x	X	x	x	X
NS	8615-096BX	Disconnect Cover Continued on page 2	16		Х			Х			Х			Х

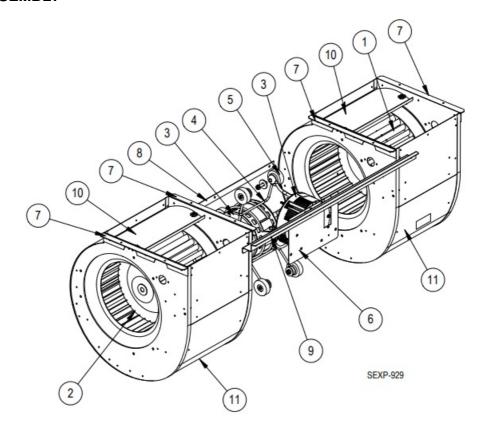
- 1. Circuit breakers listed are for units without electric heat, "0Z" models. See the heater replacement parts manual for units with electric heat.
 - X Standard Component
 - O Optional Component

Dwg. No.	Part Number	Description		МЗ ИНУ-І	W3VHY-	W3VHY-	МЗVНYD	МЗ ИНУБ	WЗVHYD	W5VHY-F	W5VHY-	W5VHY-	W5VHYD	W5VHYD	W5VHYD
		Со	ontinued from page 15												
NS NS NS	4096-184 4096-284 4096-384	Wiring Diagram Wiring Diagram Wiring Diagram		X	X	X	X	X	Х	X	X	X	X	X	X
NS	910-2265BX	Blower Speed Plug Harness		Χ	Χ	Χ	Χ	Χ	Χ	Χ	X	Χ	Χ	Χ	X
NS	3000-1799BX	Blower Power Plug Harness		X	Χ	Χ	Χ	Χ	Χ	X	X	Χ	Χ	Χ	X
NS NS	3000-1758BX 3000-1759BX	Compressor Harness Compressor Harness		X	X	X	X	Х	Х	X	X	X	X	X	X

X – Standard Component

O – Optional Component

BLOWER ASSEMBLY

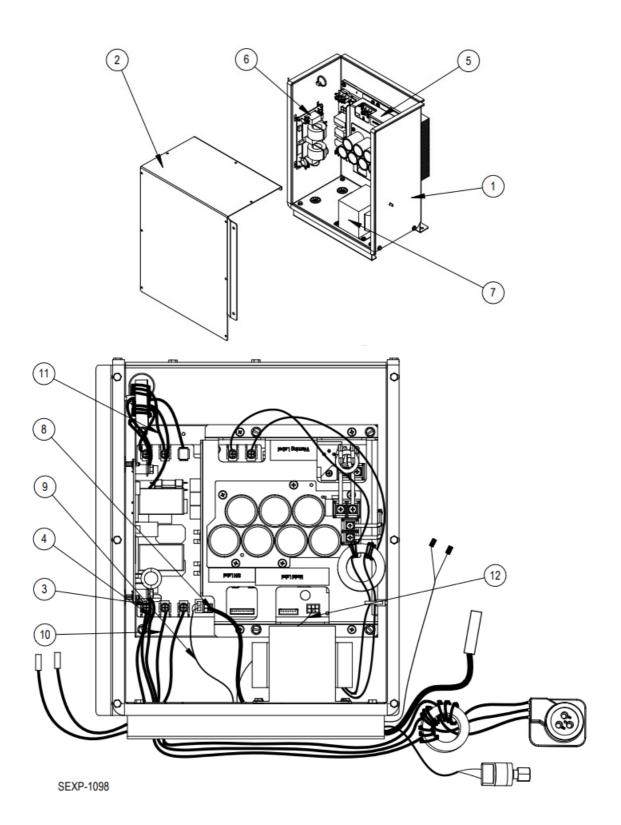


Dwg No.	Part Number	Description

Dwg No.	Part Number	Description	900-397-0245BX	900-398-0244BX
1	5152-011BX	Blower Wheel (CW) 1/2" 10-8DD	Χ	Χ
2	5152-012BX	Blower Wheel (CCW) 1/2" 10-8DD	Χ	X
3 3 3	8106-073-0244BX 8107-032-0245BX C8106-073-0244	Programmed Blower Motor & Control (230/208V) Programmed Blower Motor & Control (230/208V) Programmed Control Only (230/208V)	X	X
3	C8107-032-0245	Programmed Control Only (230/208V)	0	
4	8200-040BX	Motor Mount	X	Χ
5	5451-011	Grommets	6	6
6	112-775BX	Motor Control Bracket	X	Χ
7	105-880BX	Side Angle	4	4
8	105-881BX	Back Brace	X	Χ
9	103-541BX	Front Mounting Offset	X	Χ
10	144-166BX	Diffuser	2	2
11	151-101BX	Blower Housing	2	2

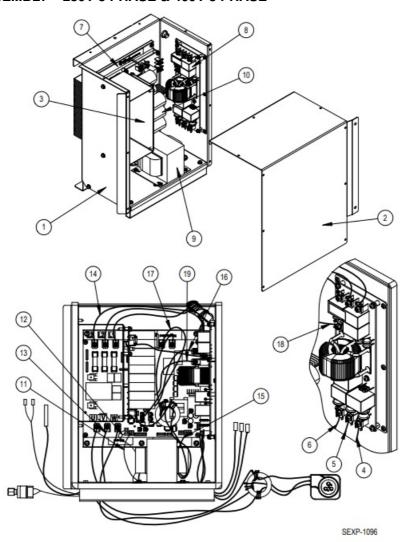
X – Standard Component O – Optional Component

INVERTER DRIVE ASSEMBLY – 230V 1 PHASE.



No.Part NumberDescription1527-634BXInverter Base Assembly2115-362BXInverter Cover	X X W3VHY-R	× W3VHYDF	× W5VHY-R	W5VHYDF
2 115-362BX Inverter Cover	-	X	v	
	X		^	X
		Χ	X	X
3 3010-070A EA2-112-GR6-50	X	X	X	Χ
4 3010-069A EC2-112-GR6-51	X	Х	Χ	Х
5 8003-001BX Inverter Drive EV2055M-C9-291	Χ	Χ		
5 8003-004BX Inverter Drive EV2080M-C9-291			X	X
6 8004-001BX EMI Filter Board 230-1PH	X	Χ	Χ	Χ
7 8005-001BX Choke 230-1PH	X	X	Χ	X
8 8408-063BX Temp Sensor Assembly	Χ	Χ	Χ	Χ
9 8406-164BX High Pressure Switch Assembly	Χ	X	Χ	Χ
10 3000-1758BX Wire Assembly Drive to Compressor	Χ	X	Χ	Х
11 3000-1755BX Wire Assembly Filter to Drive	Χ	Х	Χ	Х
12 3000-1748BX Communication Cable	Х	Х	Χ	Х
NS 4210-100 Wire Diagram	Х	X	X	X

INVERTER DRIVE ASSEMBLY - 230V 3 PHASE & 460V 3 PHASE



Dwg.	Part Number	Description	W3VHY-S	W3VHY-T	W3VHYDS	W3VHYDT	W5VHY-S	W5VHY-T	W5VHYDS	W5VHYDT
1	527-633BX	Inverter Base Assembly	X	Х	Χ	Χ	X	Χ	Χ	Х
2	515-362BX	Inverter Cover	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
3	103-559BX	Capacitor Board Bracket	Х	Χ	Χ	Χ	Χ	Χ	Χ	Х
4	3010-070A	EA2-112-GR6-50	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ
5	3010-069A	EC2-112-GR6-51	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
6	3010-071A	EE2-112-GR6-52	Х	Χ	Χ	Χ	Χ	Χ	Χ	Х
7 7 7 7	8003-002BX 8003-003BX 8003-005BX 8003-006BX	Inverter Drive EV2055M-J9-291 Inverter Drive EV2055M-K9-291 Inverter Drive EV2080M-J9-291 Inverter Drive EV2080M-K9-291	X	X	X	Х	Х	х	Х	х
8	8004-002BX 8004-003BX	EMI Filter Board 230-3PH EMI Filter Board 460-3PH	X	Х	X	X	X	X	Χ	X
9 9	8005-002BX 8005-003BX	Choke 230-3PH Choke 460-3PH	X	Х	Χ	Χ	X	Χ	X	X
10 10 10 10	8006-001BX 8006-002BX 8006-003BX 8006-004BX	Capacitor Board w/Base - 5.5KW 230-3Ph Capacitor Board w/Base - 5.5KW 460-3Ph Capacitor Board w/Base - 8KW 230-3Ph Capacitor Board w/Base - 8KW 460-3Ph	X	X	X	Х	Х	X	X	x
11	8408-063BX	Temp Sensor Assembly	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
12	8406-164BX	High Pressure Switch Assembly	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ
13	3000-1759BX	Wire Assembly Drive to Compressor	X	Χ	X	Χ	X	Χ	Χ	X
14 14	3000-1756BX 3000-1757BX	Wire Assembly Filter to Drive Wire Assembly Filter to Drive	X	Х	Χ	X	X	Χ	X	X
15	3000-1748BX	Communication Cable	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ
16	3010-074	EA2-12-GG	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ
17	3010-075	EC2-12-CG	X	Χ	Χ	Χ	Χ	Χ	Χ	X
18	3010-076	EF2-06-CG	X	Χ	Χ	Χ	Χ	Χ	Χ	X
19 19	3000-1783BX 3000-1784BX	Drive to Capacitor Board Drive to Capacitor Board	X	Х	X	X	X	Χ	X	X
NS NS	4210-200 4210-300	Wiring Diagram Wiring Diagram	X	Х	X	X	X	Χ	X	X

Product Specifications

• Product Name: Wall Mount Variable Speed Heat Pump

• Models Available: W3VHY-R, W3VHYDR, W5VHY-R, W5VHYDR, W3VHY-S, W3VHYDS, W5VHY-S, W5VHYDS, W3VHY-T, W3VHYDT, W5VHY-T, W5VHYDT

• Manufacturer: Bard Manufacturing Company, Inc.

Website: www.bardhvac.com

Frequently Asked Questions (FAQ)

Q: How do I order replacement parts for the Wall Mount Variable Speed Heat Pump?

A: Contact the installing and/or local Bard distributor with the complete model and serial number to order the required parts.

Q: What should I do if I notice paint color discrepancies in the exterior cabinet parts?

A: Ensure you provide the complete model and serial number of the unit when ordering cabinet parts to receive the correct paint color.

Documents / Resources



Bard W3VHY-R Wall Mount Variable Speed Heat Pump [pdf] Installation Guide W3VHY-R, W3VHYDR, W5VHY-R, W5VHYDR, W3VHY-S, W3VHYDS, W5VHY-S, W5VHYDS, W3VHY-T, W3VHYDT, W5VHY-T, W5VHYDT, W3VHY-R Wall Mount Variable Speed Heat Pump, W3VHY-R, Wall Mount Variable Speed Heat Pump, Variable Speed Heat Pump, Speed Heat Pump, Heat Pump, Pump

References

• User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.