



Quick Reference Guide

# Water Source Heat Pump Axiom™

## Vertical High Efficiency 0.75 to 6 Tons – EXVG

## Two Stage High Efficiency 2 to 6 Tons – DXVG



October 2021

WSHP-PRC030B-EN

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**Table 1. List of options**

| Factory Installed Options                | Field Installed Options                       |
|--|---|
| 1-inch or 2-inch Ducted Filter Rack      | 2-inch or 4-inch Ducted Filter Rack           |
| Air-Fi® Wireless Communications          | Ducted Panel                                  |
| Deluxe 24V, UC400B or ZN524 Controls     | Hose Kits (or ship separate hoses and valves) |
| Factory-mounted Isolation Valve          | Pump Module                                   |
| Hot Gas Reheat                           | Pump Module Hose Kit                          |
| Low, Medium and High Electric Heat       | Thermostats or Zone Sensors                   |
| Matte or Foil Face Insulation            | Waterside Economizer                          |
| MERV 8 or 13 Filters                     |   |
| Polymer or Stainless Steel IAQ Drain Pan |   |
| Recessed Unit Mounted Disconnect Switch  |   |
| Standard or Deluxe Sound Package         |   |

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**Table 2. General data - Models EXVG009-030**

| Model EXVG                             | 009              | 012              | 015            | 018            | 024            | 030            |
|--|------------------|------------------|----------------|----------------|----------------|----------------|
| Unit Size width x depth x height (in.) | 21.5 x 21.5 x 34 | 21.5 x 21.5 x 34 | 21.5 x 23 x 36 | 21.5 x 26 x 38 | 21.5 x 26 x 38 | 24 x 32.5 x 42 |
| Compressor type                        | Rotary           | Rotary           | Rotary         | Rotary         | Scroll         | Scroll         |
| Net weight (lbs.)                      | 152              | 152              | 188            | 222            | 236            | 280            |
| Ship weight (lbs.)                     | 207              | 207              | 246            | 282            | 296            | 343            |
| Filter size nominal (in.)              | 16 X 19          | 16 X 19          | 17 X 20        | 18 X 23        | 18 X 23        | 20 X 30        |
| Water in/out size (FPT)                | 0.50             | 0.50             | 0.75           | 0.75           | 0.75           | 1.00           |
| Condensate size (NPTI)                 | 0.75             | 0.75             | 0.75           | 0.75           | 0.75           | 0.75           |
| Blower wheel Size (in.)                | 9 x 8            | 9 x 8            | 10 x 8         | 10 x 9         | 10 x 9         | 11 x 11        |

**Table 3. General data - Models EXVG036-070**

| Model EXVG                             | 036            | 042              | 048              | 060              | 070              |
|--|----------------|------------------|------------------|------------------|------------------|
| Unit Size width x depth x height (in.) | 24 x 32.5 x 42 | 25.4 x 32.5 x 49 | 25.4 x 32.5 x 49 | 25.4 x 32.5 x 55 | 25.4 x 32.5 x 55 |
| Compressor type                        | Scroll         | Scroll           | Scroll           | Scroll           | Scroll           |
| Net weight (lbs.)                      | 281            | 329              | 345              | 367              | 432              |
| Ship weight (lbs.)                     | 344            | 394              | 410              | 436              | 501              |
| Filter size nominal (in.)              | 20 X 30        | 27 X 30          | 27 X 30          | 30 X 33          | 30 X 33          |
| Water in/out size (FPT)                | 1              | 1                | 1                | 1                | 1                |
| Condensate size (NPTI)                 | 0.75           | 0.75             | 0.75             | 0.75             | 0.75             |
| Blower wheel Size (in.)                | 11 x 11        | 11 x 11          | 11 x 11          | 11 x 11          | 11 x 11          |

**Table 4. General data - Models DXVG024-070**

| Model DXVG                             | 024              | 036              | 048              | 060              | 070              |
|--|------------------|------------------|------------------|------------------|------------------|
| Unit Size width x depth x height (in.) | 21.5 x 26 x 38   | 24 x 32.5 x 42   | 25.4 x 32.5 x 49 | 25.4 x 32.5 x 55 | 25.4 x 32.5 x 55 |
| Compressor type                        | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll | Two-Stage Scroll |
| Net weight (lbs.)                      | 236              | 279              | 354              | 371              | 437              |
| Ship weight (lbs.)                     | 296              | 342              | 419              | 440              | 506              |
| Filter size nominal (in.)              | 18 x 23          | 23 x 30          | 27 x 30          | 30 x 33          | 30 x 33          |
| Water in/out size (FPT)                | 0.75             | 1                | 1                | 1                | 1                |
| Condensate size (NPTI)                 | 0.75             | 0.75             | 0.75             | 0.75             | 0.75             |
| Blower wheel Size (in.)                | 10 x 9           | 11 x 11          | 11 x 11          | 11 x 11          | 11 x 11          |

**Table 5. ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance - 0.75 to 6 tons**

| Model   | Rated GPM | Rated CFM | Water Loop Heat Pump |      |               |     | Ground Water Heat Pump |      |               |     | Ground Loop Heat Pump |      |                |     |
|---------|-----------|-----------|----------------------|------|---------------|-----|------------------------|------|---------------|-----|-----------------------|------|----------------|-----|
|         |           |           | Cooling 86°F         |      | Heating 68°F  |     | Cooling 59°F           |      | Heating 50°F  |     | Full Cool 77°F        |      | Full Heat 32°F |     |
|         |           |           | Capacity Btuh        | EER  | Capacity Btuh | COP | Capacity Btuh          | EER  | Capacity Btuh | COP | Capacity Btuh         | EER  | Capacity Btuh  | COP |
| EXVG009 | 2.25      | 285       | 7900                 | 16.1 | 9900          | 5.6 | 8800                   | 25.0 | 8200          | 4.8 | 8300                  | 18.8 | 6100           | 3.7 |
| EXVG012 | 3.00      | 380       | 11600                | 16.4 | 15200         | 5.8 | 13700                  | 27.9 | 12300         | 5.0 | 12300                 | 19.5 | 9300           | 4.0 |
| EXVG015 | 3.75      | 475       | 15100                | 16.1 | 18700         | 5.3 | 17000                  | 25.8 | 15300         | 4.6 | 15800                 | 19.0 | 12100          | 3.8 |
| EXVG018 | 4.50      | 570       | 18800                | 17.6 | 23600         | 5.7 | 21100                  | 28.7 | 18800         | 4.9 | 19600                 | 20.6 | 14600          | 4.1 |
| EXVG024 | 6.00      | 760       | 24600                | 17.4 | 32100         | 5.7 | 27400                  | 27.2 | 25900         | 5.0 | 25600                 | 20.3 | 19500          | 3.9 |
| EXVG030 | 7.50      | 950       | 31400                | 17.8 | 38400         | 5.8 | 35000                  | 27.2 | 31000         | 5.0 | 32800                 | 20.7 | 23600          | 4.1 |
| EXVG036 | 9.00      | 1140      | 35500                | 17.6 | 43100         | 5.8 | 39400                  | 26.5 | 35000         | 5.0 | 37100                 | 20.4 | 27200          | 4.1 |
| EXVG042 | 10.50     | 1330      | 38400                | 18.0 | 48000         | 6.4 | 43300                  | 27.5 | 38500         | 5.5 | 40500                 | 21.1 | 29400          | 4.3 |
| EXVG048 | 12.00     | 1520      | 45400                | 17.7 | 55600         | 6.1 | 50400                  | 26.4 | 44800         | 5.3 | 47100                 | 20.3 | 34600          | 4.3 |
| EXVG060 | 15.00     | 1900      | 55700                | 17.5 | 69000         | 5.9 | 60800                  | 25.7 | 55900         | 5.1 | 57700                 | 20.1 | 42900          | 4.1 |
| EXVG070 | 17.50     | 2215      | 63800                | 17.3 | 82100         | 5.4 | 68900                  | 24.9 | 66900         | 4.8 | 66100                 | 19.8 | 52000          | 4.1 |

**Note:** Rated in accordance ANSI/AHRI/ASHRAE/ISO13256-1. Certified conditions are 80.6°F DB/66.2°F WB EAT in cooling and 68°F DB/59°F WB EAT in heating. Entering liquid temperature in cooling is 86°F for Water Loop, 77°F for Ground Loop (full load), 68°F for Ground Loop (part load), and 59°F for Ground Water. Entering liquid temperature in heating is 68°F for Water Loop, 32°F for Ground Loop (full load), 41°F for Ground Loop (part load), and 50°F for Ground Water.

**Table 6. ANSI/AHRI/ASHRAE/ISO13256-1 WLHP, GWHP and GLHP performance - 2 to 6 tons**

| Model   | Load | Rated GPM | Rated CFM | Water Loop Heat Pump |      |               |     | Ground Water Heat Pump |      |               |     | Ground Loop Heat Pump |      |                |     |
|---------|------|-----------|-----------|----------------------|------|---------------|-----|------------------------|------|---------------|-----|-----------------------|------|----------------|-----|
|         |      |           |           | Cooling 86°F         |      | Heating 68°F  |     | Cooling 59°F           |      | Heating 50°F  |     | Full Cool 77°F        |      | Full Heat 32°F |     |
|         |      |           |           | Capacity Btuh        | EER  | Capacity Btuh | COP | Capacity Btuh          | EER  | Capacity Btuh | COP | Capacity Btuh         | EER  | Capacity Btuh  | COP |
| DXVG024 | Full | 6.0       | 760       | 24700                | 16.8 | 32100         | 5.5 | 27500                  | 24.4 | 25700         | 4.9 | 25900                 | 19.2 | 19400          | 3.9 |
| DXVG024 | Part | 6.0       | 608       | 18500                | 17.7 | 24100         | 5.9 | 20500                  | 28.3 | 18900         | 4.9 | 20000                 | 24.5 | 16300          | 4.3 |
| DXVG036 | Full | 9.0       | 1140      | 33000                | 17.3 | 40900         | 5.9 | 37100                  | 25.1 | 32900         | 5.1 | 34500                 | 19.7 | 25500          | 4.1 |
| DXVG036 | Part | 9.0       | 912       | 24500                | 18.3 | 30500         | 6.3 | 27600                  | 29.3 | 24300         | 5.2 | 26600                 | 25.2 | 21100          | 4.5 |
| DXVG048 | Full | 12.0      | 1520      | 45200                | 17.9 | 55200         | 6.1 | 50400                  | 26.4 | 44400         | 5.3 | 46600                 | 20.6 | 34500          | 4.3 |
| DXVG048 | Part | 12.0      | 1216      | 32800                | 18.7 | 40000         | 6.6 | 36900                  | 31.2 | 31900         | 5.3 | 35700                 | 26.7 | 28000          | 4.7 |
| DXVG060 | Full | 15.0      | 1900      | 52100                | 17.6 | 63900         | 6.0 | 56600                  | 24.8 | 51700         | 5.2 | 53900                 | 19.9 | 39800          | 4.2 |
| DXVG060 | Part | 15.0      | 1520      | 38300                | 18.7 | 47300         | 6.6 | 42000                  | 29.9 | 37800         | 5.4 | 41000                 | 25.8 | 32400          | 4.6 |
| DXVG070 | Full | 17.5      | 2215      | 64400                | 17.3 | 82700         | 5.4 | 69100                  | 23.8 | 67400         | 4.8 | 66800                 | 19.6 | 52900          | 4.0 |
| DXVG070 | Part | 17.5      | 1772      | 47100                | 18.9 | 59700         | 6.0 | 51100                  | 29.7 | 48000         | 5.0 | 50000                 | 25.6 | 42000          | 4.4 |

**Note:** Performance data EXVG 0.5 Ton or 0.75 Ton Rated in accordance with ANSI/AHRI/ASHRAE/ISO13256-1. Certified conditions are 80.6°F DB/66.2°F WB EAT in cooling and 68°F DB/59°F WB EAT in heating. Entering liquid temperature in cooling is 86°F for Water Loop, 77°F for Ground Loop (full load), 68°F for Ground Loop (part load), and 59°F for Ground Water. Entering liquid temperature in heating is 68°F for Water Loop, 32°F for Ground Loop (full load), 41°F for Ground Loop (part load), and 50°F for Ground Water.

**Table 7. Electrical data - 0.75 to 6 tons, EX\*009-070**

| Model No. | Unit Volts   | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|--------------|-----------------|--------------------------|---------------------------------------|
| EXVG009   | 208-230/60/1 | 1/3             | 6/6                      | 15/15                                 |
| EXVG009   | 265/60/1     | 1/3             | 5                        | 15                                    |
| EXVG012   | 208-230/60/1 | 1/3             | 8/8                      | 15/15                                 |
| EXVG012   | 265/60/1     | 1/3             | 7                        | 15                                    |
| EXVG015   | 208-230/60/1 | 1/3             | 10/10                    | 15/15                                 |
| EXVG015   | 265/60/1     | 1/3             | 7                        | 15                                    |
| EXVG018   | 208-230/60/1 | 1/2             | 12/12                    | 20/20                                 |
| EXVG018   | 265/60/1     | 1/2             | 10                       | 15                                    |
| EXVG024   | 208-230/60/1 | 1/2             | 19/19                    | 30/30                                 |
| EXVG024   | 265/60/1     | 1/2             | 13                       | 20                                    |
| EXVG024   | 208-230/60/3 | 1/2             | 11/11                    | 15/15                                 |
| EXVG024   | 460/60/3     | 1/2             | 6                        | 15                                    |
| EXVG030   | 208-230/60/1 | 3/4             | 20/20                    | 30/30                                 |
| EXVG030   | 265/60/1     | 3/4             | 16                       | 25                                    |
| EXVG030   | 208-230/60/3 | 3/4             | 13/13                    | 20/20                                 |
| EXVG030   | 460/60/3     | 3/4             | 7                        | 15                                    |

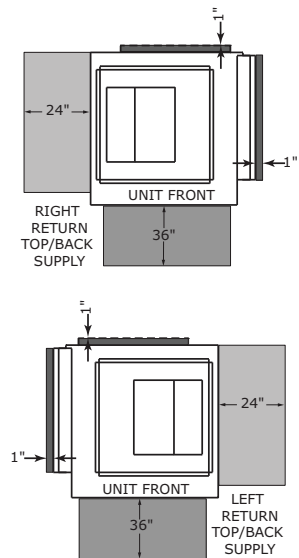
**Table 7. Electrical data - 0.75 to 6 tons, EX\*009-070 (continued)**

| Model No. | Unit Volts   | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|--------------|-----------------|--------------------------|---------------------------------------|
| EXVG036   | 208-230/60/1 | 3/4             | 23/23                    | 35/35                                 |
| EXVG036   | 265/60/1     | 3/4             | 17                       | 25                                    |
| EXVG036   | 208-230/60/3 | 3/4             | 15/15                    | 20/20                                 |
| EXVG036   | 460/60/3     | 1               | 7                        | 15                                    |
| EXVG042   | 208-230/60/1 | 3/4             | 25/25                    | 40/40                                 |
| EXVG042   | 208-230/60/3 | 3/4             | 17/17                    | 25/25                                 |
| EXVG042   | 460/60/3     | 1               | 9                        | 15                                    |
| EXVG048   | 208-230/60/1 | 1               | 25/25                    | 40/40                                 |
| EXVG048   | 208-230/60/3 | 1               | 20/20                    | 30/30                                 |
| EXVG048   | 460/60/3     | 1               | 9                        | 15                                    |
| EXVG060   | 208-230/60/1 | 1               | 31/31                    | 50/50                                 |
| EXVG060   | 208-230/60/3 | 1               | 22/22                    | 35/35                                 |
| EXVG060   | 460/60/3     | 1               | 10                       | 15                                    |
| EXVG070   | 208-230/60/1 | 1               | 39/39                    | 60/60                                 |
| EXVG070   | 208-230/60/3 | 1               | 26/26                    | 40/40                                 |
| EXVG070   | 460/60/3     | 1               | 13                       | 20                                    |

**Table 8. Electrical data - 2 to 6 tons, DX\*024-070**

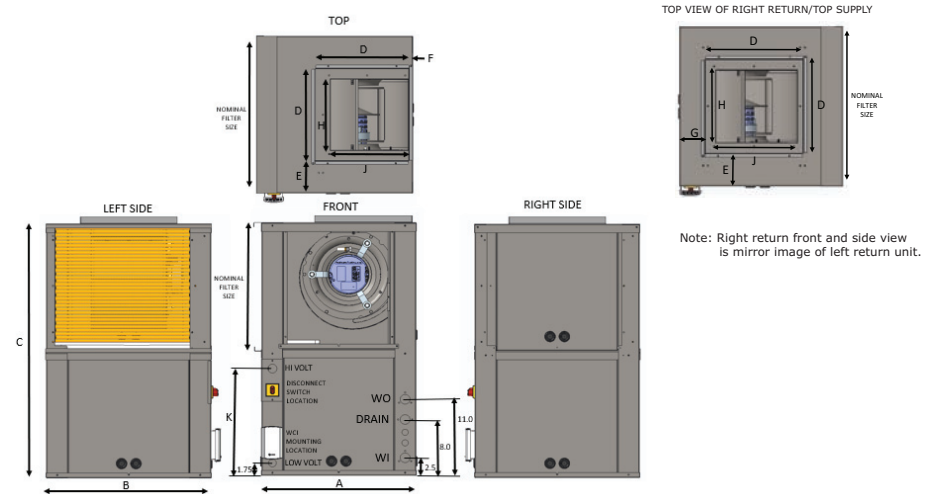
| Model No. | Unit Volts   | Blower Motor HP | Minimum Circuit Ampacity | Maximum Overcurrent Protective Device |
|-----------|--------------|-----------------|--------------------------|---------------------------------------|
| DXVG024   | 208-230/60/1 | 1/2             | 17/17                    | 25/25                                 |
| DXVG024   | 265/60/1     | 1/2             | 13                       | 20                                    |
| DXVG024   | 208-230/60/3 | 1/2             | 10/10                    | 15/15                                 |
| DXVG024   | 460/60/3     | 1/2             | 6                        | 15                                    |
| DXVG036   | 208-230/60/1 | 3/4             | 19/19                    | 30/30                                 |
| DXVG036   | 265/60/1     | 3/4             | 15                       | 20                                    |
| DXVG036   | 208-230/60/3 | 3/4             | 13/13                    | 20/20                                 |
| DXVG036   | 460/60/3     | 1               | 7                        | 15                                    |
| DXVG048   | 208-230/60/1 | 1               | 25/25                    | 40/40                                 |
| DXVG048   | 208-230/60/3 | 1               | 21/21                    | 30/30                                 |
| DXVG048   | 460/60/3     | 1               | 10                       | 15                                    |
| DXVG060   | 208-230/60/1 | 1               | 31/31                    | 50/50                                 |
| DXVG060   | 208-230/60/3 | 1               | 22/22                    | 35/35                                 |
| DXVG060   | 460/60/3     | 1               | 10                       | 15                                    |
| DXVG070   | 208-230/60/1 | 1               | 39/39                    | 60/60                                 |
| DXVG070   | 208-230/60/3 | 1               | 26/26                    | 40/40                                 |
| DXVG070   | 460/60/3     | 1               | 12                       | 15                                    |

**Figure 1. Clearance – EXVG/DXVG 0.75 to 6 tons**



A 24-inch clearance from other mechanical and electrical equipment (where shown) is recommended for most unit configurations. This will enable panel removal from the unit for service/maintenance. The 24-inch side clearance on EXVG/DXVG 0.75-6T models is for optimal access only. Side clearance is not a requirement as most components can be accessed from the front of the unit. A 1-inch minimum clearance between the filter rack and any obstacle is required for units in a free return application to provide proper air flow to the air-to-refrigerant coil. A 12-inch minimum clearance between the filter rack and any obstacle should be provided to properly attached ductwork. The 1-inch dimension shown in the back of the unit represents the supply duct collar for the back supply option. This clearance is needed to clear these flanges.

**Figure 2. Left return and right return/top supply (EXVG/DXVG)**



**Table 9. Dimensional data left return and right return/top supply (EXVG/DXVG)**

| Unit                      | Cabinet |       |        | Duct Collar | Duct Collar Location |      |      | Blower Opening |       | Hi Volt | Nominal Filter Size | W.I. NPTI | W.O. NPTI | Drain NPTI |
|---------------------------|---------|-------|--------|-------------|----------------------|------|------|----------------|-------|---------|---------------------|-----------|-----------|------------|
|                           | Width   | Depth | Height |             | E                    | F    | G    | H              | J     | K       |                     |           |           |            |
|                           | A       | B     | C      |             |                      |      |      |                |       | D       |                     |           |           |            |
| EXVG009-012               | 21.50   | 21.50 | 34.00  | 13.25       | 4.00                 | 1.00 | 3.50 | 10.50          | 9.60  | 14.25   | 16 x 19             | 1/2       | 1/2       | 3/4        |
| EXVG015                   | 21.50   | 23.00 | 36.00  | 13.25       | 4.75                 | 0.63 | 3.50 | 10.50          | 11.30 | 15.25   | 17 x 20             | 3/4       | 3/4       | 3/4        |
| EXVG018,<br>EXVG/DXVG024  | 21.50   | 26.00 | 38.00  | 13.25       | 6.25                 | 0.63 | 3.50 | 11.80          | 11.30 | 16.25   | 18 x 23             | 3/4       | 3/4       | 3/4        |
| EXVG030,<br>EXVG/DXVG036  | 24.00   | 32.50 | 42.00  | 17.75       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 20 x 30             | 1         | 1         | 3/4        |
| EXVG042, EXVG/<br>DXVG048 | 25.40   | 32.50 | 49.00  | 17.75       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 27 x 30             | 1         | 1         | 3/4        |
| EXVG/DXVG060-<br>070      | 25.40   | 32.50 | 55.00  | 17.75       | 7.25                 | 0.75 | 3.50 | 13.70          | 13.50 | 18.25   | 30 x 33             | 1         | 1         | 3/4        |

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