



VERSATEC ULTRA

The Versatec Ultra series represents a significant improvement in the commercial water source heat pump (wshp). The product features high efficiency with industry leading standard options in a compact cabinet suitable for both retrofit and new construction applications. It is also designed to provide optimum performance and flexibility in both water loop and geothermal applications.

The Versatec Ultra series exceeds ASHRAE 90.1 efficiencies, while utilizing environmentally friendly R410A refrigerant. This product was designed to adhere to the footprint of lower efficiency legacy equipment while operating at the high efficiencies of today's technology. The Versatec Ultra is available in a wide selection of capacities (009-070 kBtuh output), cabinet sizes, and an array of factory installed options to offer unmatched application flexibility.



KEY FEATURES

COMPRESSOR: Scroll or rotary single speed, in commercial voltages, mounted on a double isolation system. Also available with Super Quiet Sound Package for improved noise reduction.

BLOWER INLET RINGS: Allow for easy motor and blower removal without disconnecting from the unit duct work.

HOT GAS BYPASS/HOT GAS REHEAT: For optimal humidity control in schools, computer rooms, auditoriums and theaters.

WATER LINES: Flush mount connections allow one wrench leak-free connections without a back-up.

WATER VALVE: Optional factory installed, low pressure drop (high Cv) water solenoid valve for variable speed pumping applications.

FILTER: Optional 1" MERV 4 disposable filter or 2" Pleated MERV 13 (for LEED certification points).

BLOWER MOTOR: PSC blower motors provide high efficiency while allowing quiet operation and wide range of airflow selections. Optional 5-Speed ECM and variable speed ECM blower motors are available for improved efficiency and comfort.

CABINET: Heavy gauge, environmentally responsible galvanized steel for maximum corrosion resistance. Also available with high density, foil faced cabinet insulation for improved air quality and easy cleaning.

THERMASHIELD™: Proprietary coating applied to water-to-refrigerant heat exchanger that protects against condensations in extended range applications (below 50°F).

ALUMINUM AIR COIL: Standard on all Versatec Ultra models, an all-aluminum air coil provides maximum durability while an optional AlumiSeal™ coating offers the utmost in protection.

CONTROLS: Aurora microprocessor control is standard. Optional Aurora Universal Protocol Converter (UPC) control is available featuring N2, LonWorks, and BACnet compatibility.

ADDITIONAL OPTIONS:

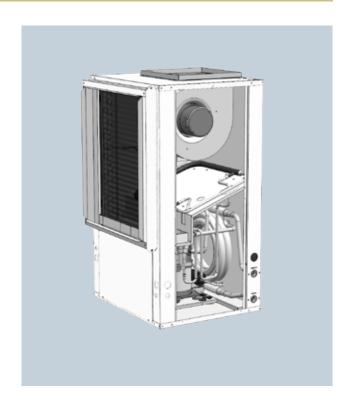
- Variable Speed ECM, 5-Speed ECM, and High static blowers
- Hot Water Generation
- Compressor phase guard protection
- 'Dial' type internally wired disconnect
- Corrosion-resistant composite or stainless steel drain pan

VERSATEC ULTRA VERTICAL 0.75 to 6 Tons

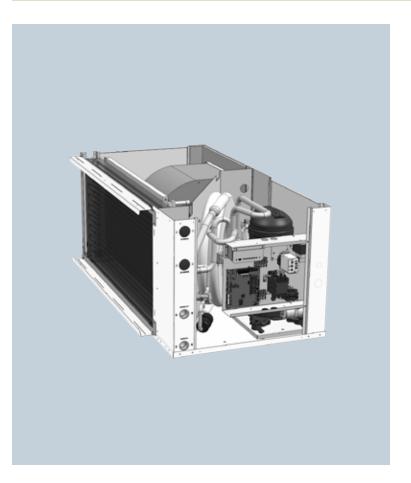


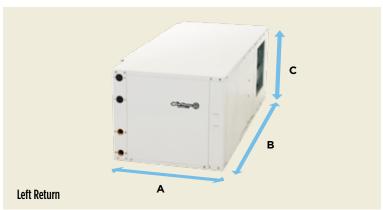
| Model | A | В | С |
|-----------|------|------|------|
| 009 - 012 | 22.5 | 22.2 | 23.7 |
| 015 - 018 | 22.5 | 22.2 | 36.2 |
| 024 - 030 | 22.5 | 26.2 | 40.2 |
| 036 - 041 | 22.5 | 26.2 | 44.2 |
| 042 - 048 | 25.5 | 31.2 | 44.2 |
| 060 | 25.5 | 31.2 | 48.2 |
| 070 | 25.5 | 31.2 | 52.2 |

7 horizontal/7 vertical designs create maximum application flexibility



VERSATEC ULTRA HORIZONTAL 0.75 to 6 Tons





| Model | A | В | С | |
|-----------|------|------|------|--|
| 009 - 012 | 19.2 | 30.9 | 11.9 | |
| 015 - 023 | 22.5 | 42.0 | 17.2 | |
| 024 - 030 | 22.5 | 42.0 | 19.2 | |
| 036 | 22.5 | 45.0 | 19.2 | |
| 042 - 048 | 25.5 | 48.0 | 21.2 | |
| 060 | 25.5 | 53.0 | 21.2 | |
| 070 | 25.5 | 61.0 | 21.2 | |

AHRI/ISO 13256-1 PERFORMANCE RATINGS

PSC Motor

AHRI/ASHRAE/ISO 13256-1

English (IP) Units

| Model | Flow Rate | | , | Water Loop | Heat Pump |) | Ground Water Heat Pump | | | | Ground Loop Heat Pump | | | |
|-------|-----------|------|---------------------|---------------|---------------------|-----|------------------------|---------------|---------------------|-----|-----------------------|---------------|---------------------|-----|
| | | | Cooling EWT 86°F | | Heating EWT 68°F | | Cooling EWT 59°F | | Heating EWT 50°F | | Cooling EWT 77°F | | Heating EWT 32°F | |
| | gpm | cfm | Capacity Btuh | EER Btuh/W | Capacity Btuh | СОР | Capacity Btuh | EER Btuh/W | Capacity Btuh | СОР | Capacity Btuh | EER Btuh/W | Capacity Btuh | СОР |
| 009 | 3.0 | 350 | 8,500 | 12.0 | 11,500 | 4.4 | 10,500 | 18.2 | 9,600 | 3.7 | 9,100 | 13.5 | 7,600 | 3.0 |
| 012 | 3.5 | 400 | 10,900 | 12.7 | 14,700 | 4.4 | 12,500 | 18.2 | 12,000 | 3.8 | 11,500 | 14.7 | 9,600 | 3.2 |
| 015 | 4.0 | 500 | 14,000 | 15.0 | 16,500 | 4.8 | 16,000 | 24.0 | 15,000 | 4.1 | 14,700 | 17.2 | 11,500 | 3.5 |
| 018 | 5.0 | 600 | 17,600 | 14.6 | 21,000 | 4.7 | 20,600 | 23.5 | 17,500 | 4.0 | 18,500 | 17.0 | 13,700 | 3.5 |
| 023 | 6.0 | 800 | 23,000 | 14.5 | 26,000 | 4.5 | 25,400 | 22.5 | 21,900 | 3.9 | 23,900 | 16.8 | 17,000 | 3.4 |
| 024 | 6.0 | 800 | 23,900 | 14.6 | 27,000 | 4.7 | 26,400 | 22.8 | 22,300 | 4.0 | 24,400 | 17.0 | 17,500 | 3.5 |
| 030 | 8.0 | 1000 | 29,500 | 14.9 | 34,600 | 4.8 | 32,900 | 23.0 | 28,300 | 4.0 | 29,000 | 17.0 | 22,800 | 3.5 |
| 036 | 9.0 | 1150 | 33,300 | 14.4 | 40,600 | 4.5 | 37,700 | 21.2 | 33,000 | 3.9 | 34,500 | 16.6 | 26,000 | 3.3 |
| 041 | 11.0 | 1300 | 40,000 | 13.8 | 45,000 | 4.3 | 44,500 | 20.6 | 36,000 | 3.8 | 41,000 | 15.8 | 29,000 | 3.3 |
| 042 | 11.0 | 1400 | 40,800 | 14.5 | 45,400 | 4.5 | 45,800 | 22.0 | 37,000 | 3.8 | 42,300 | 16.8 | 29,900 | 3.3 |
| 048 | 12.0 | 1600 | 47,700 | 14.7 | 56,000 | 4.4 | 52,000 | 21.0 | 45,900 | 3.8 | 49,500 | 16.8 | 36,900 | 3.3 |
| 060 | 15.0 | 1900 | 58,400 | 14.7 | 72,500 | 4.4 | 65,500 | 20.8 | 58,400 | 3.8 | 60,900 | 16.6 | 47,100 | 3.3 |
| 070 | 18.0 | 2100 | 63,000 | 14.2 | 79,000 | 4.4 | 70,000 | 20.3 | 64,100 | 3.8 | 68,500 | 15.2 | 51,600 | 3.3 |

Cooling capacities based upon $80.6^{\circ}F$ DB, $66.2^{\circ}F$ WB entering air temperature Heating capacities based upon $68^{\circ}F$ DB, $59^{\circ}F$ WB entering air temperature All ratings based upon 208V operation

Variable Speed ECM or 5-Speed ECM Motor

AHRI/ASHRAE/ISO 13256-1

English (IP) Units

| Model | Flow Rate | | , | Water Loop | Heat Pump |) | G | round Wate | er Heat Pum | р | Ground Loop Heat Pump | | | |
|-------|-----------|------|---------------------|---------------|---------------------|-----|---------------------|---------------|---------------------|-----|-----------------------|---------------|---------------------|-----|
| | | | Cooling EWT 86°F | | Heating EWT 68°F | | Cooling EWT 59°F | | Heating EWT 50°F | | Cooling EWT 77°F | | Heating EWT 32°F | |
| | gpm | cfm | Capacity Btuh | EER Btuh/W | Capacity Btuh | СОР | Capacity Btuh | EER Btuh/W | Capacity Btuh | СОР | Capacity Btuh | EER Btuh/W | Capacity Btuh | СОР |
| 015 | 4.0 | 500 | 14,000 | 15.3 | 16,500 | 4.9 | 16,000 | 24.3 | 15,000 | 4.4 | 14,700 | 17.5 | 11,500 | 3.7 |
| 018 | 5.0 | 600 | 17,600 | 15.2 | 21,000 | 4.8 | 20,600 | 24.0 | 17,500 | 4.4 | 18,500 | 17.5 | 13,700 | 3.7 |
| 023 | 6.0 | 800 | 23,000 | 15.0 | 26,000 | 4.7 | 25,400 | 23.0 | 21,900 | 4.3 | 23,900 | 17.0 | 17,000 | 3.6 |
| 024 | 6.0 | 800 | 23,900 | 15.1 | 27,000 | 5.0 | 26,400 | 23.4 | 22,300 | 4.5 | 24,400 | 17.5 | 17,500 | 3.8 |
| 030 | 8.0 | 900 | 29,500 | 15.7 | 34,600 | 5.1 | 32,900 | 23.9 | 28,300 | 4.4 | 29,000 | 18.3 | 22,800 | 3.8 |
| 036 | 9.0 | 1150 | 33,300 | 15.0 | 40,600 | 4.8 | 37,700 | 23.0 | 33,000 | 4.3 | 34,500 | 17.3 | 26,000 | 3.5 |
| 041 | 11.0 | 1300 | 40,000 | 14.5 | 45,000 | 4.5 | 44,500 | 22.0 | 36,000 | 4.0 | 41,000 | 16.5 | 29,000 | 3.4 |
| 042 | 11.0 | 1400 | 40,800 | 15.6 | 45,400 | 5.0 | 45,800 | 23.5 | 37,000 | 4.3 | 42,300 | 18.5 | 29,900 | 3.7 |
| 048 | 12.0 | 1600 | 47,700 | 15.5 | 56,000 | 4.8 | 52,000 | 23.4 | 45,900 | 4.2 | 49,500 | 18.1 | 36,900 | 3.6 |
| 060 | 15.0 | 1900 | 58,400 | 15.3 | 72,500 | 4.7 | 65,500 | 23.0 | 58,400 | 4.0 | 60,900 | 17.9 | 47,100 | 3.6 |
| 070 | 18.0 | 2100 | 63,000 | 14.3 | 79,000 | 4.7 | 70,000 | 21.0 | 64,100 | 4.0 | 68,500 | 16.1 | 51,600 | 3.5 |

Cooling capacities based upon $80.6^{\circ}F$ DB, $66.2^{\circ}F$ WB entering air temperature Heating capacities based upon $68^{\circ}F$ DB, $59^{\circ}F$ WB entering air temperature All ratings based upon 208V operation

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