

Trane® Axiom™ Variable Speed Water Source Heat Pumps

Imagine a product that delivers superior comfort and performance while reducing operating cost



Models VSH and VSV – 2 to 5 tons

The Axiom model VS is Trane's most advanced water source comfort solution designed to meet these requirements. Trane achieves higher efficiency, reduced sound, improved indoor air quality and high reliability through variable speed compressor and fan technology.

Trane's design incorporates system advantages such as:

Higher Efficiency

- Certified performance
- Exceeds ASHRAE 90.1-2025 standards for efficiency
- Efficiency increases as the system unloads with EER values up to 40 (ground loop) at part load operation

Indoor Air Quality

- Foil faced insulation for cleanability (option)
- Cleanable dual sloped non-corrosive drain pan to reduce microbial growth
- Full array of filter options including MERV 8 (factory installed) and MERV 13 (accessory option) to meet LEED EQ Credit 5

Comfort

- Variable speed compressor varies the capacity to match the load requirements in the zone
- ECM motor varies supply airflow for superior comfort control

Integrated Controls

- Fully mounted, wired, programmed and tested controls
- Trane engineered Symbio 400B controller for stand-alone applications or integration with Tracer SC™

Acoustics

- Insulated compressor enclosure for quiet design
- Variable speed fan and compressor reduce sound levels at lower load conditions
- Advanced Vortica™ fan system uses less energy to produce more airflow with minimal sound



Reliability

- Part load operation reduces cyclic operation
- Fewer on/off cycles reduce stress of the components
- Every unit is factory run tested in both cooling and heating cycle

Flexibility

- Units support both boiler/cooling tower and ground source heat exchanger applications
- Supply and return airflow configuration flexibility
- Adjustable supply minimum and maximum airflow settings

AHRI - ISO Ratings

Horizontal Model VSH

				Water Loop (WLHP)				Ground Loop (GLHP)			
				Cooling 86F		Heating 68F		Cooling 77F / Part Cool 68F		Heating 32F / Part Heat 41F	
Size	Load	Rated GPM	Rated CFM	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP
024	Full	6.2	930	24,500	18.9	32,000	6.7	25,400	22.4	19,200	4.4
024	Part	6.2	735	12,300	23.1	14,800	8.8	13,400	35.4	14,100	5.4
033	Full	8.6	1200	32,200	15.6	43,600	5.9	33,300	18.1	27,700	4.1
033	Part	8.6	780	12,400	22.3	15,100	8.9	13,500	34.4	14,600	5.3
042	Full	10.9	1650	40,300	17.9	50,400	6.4	42,200	21.3	32,500	4.4
042	Part	10.9	1075	18,100	22.1	21,700	8.4	20,600	37.3	15,400	5.6
050	Full	13.0	1890	49,400	16.0	68,200	6.0	52,100	18.5	41,300	4.2
050	Part	13.0	1325	20,800	22.2	25,600	8.9	23,400	36.7	17,400	5.5
060	Full	15.6	2100	58,500	14.9	84,000	5.5	61,900	17.0	51,400	3.9
060	Part	15.6	1365	21,100	22.5	26,200	8.9	23,900	36.5	17,500	5.5

Vertical Model VSV

				Water Loop (WLHP)				Ground Loop (GLHP)			
				Cooling 86F		Heating 68F		Cooling 77F / Part Cool 68F		Heating 32F / Part Heat 41F	
Size	Load	Rated GPM	Rated CFM	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP
024	Full	6.3	930	25,100	20.4	30,500	6.6	26,300	24.7	18,800	4.6
024	Part	6.3	605	11,200	23.1	13,500	8.5	12,400	39.4	11,800	5.4
033	Full	8.3	1200	33,300	17.0	39,900	6.1	35,300	20.3	25,500	4.3
033	Part	8.3	780	11,500	23.2	13,600	9.1	12,900	40.0	11,800	5.5
042	Full	10.9	1650	42,900	18.8	54,100	6.3	44,900	22.7	34,400	4.4
042	Part	10.9	1155	15,900	24.6	18,800	9.4	17,800	43.0	17,800	5.8
050	Full	13.0	1890	50,300	17.4	63,000	5.8	50,400	19.3	40,400	4.3
050	Part	13.0	1285	20,400	22.7	24,100	8.5	21,900	36.8	23,400	5.4
060	Full	15.6	2100	59,200	15.7	78,800	5.6	61,200	17.9	49,500	4.1
060	Part	15.6	1365	20,500	22.9	26,600	9.0	22,700	37.2	17,800	5.6

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.

Unit Size

Horizontal	024	033	042	050	060
Width (inch)	24	24	25.4	25.4	25.4
Length (inch)	59.5	59.5	70	70	70
Height (inch)	21	21	21.3	21.3	21.3

Vertical	024	033	042	050	060
Width (inch)	23.9	23.9	25.4	25.4	25.4
Length (inch)	32.5	32.5	32.5	32.5	32.5
Height (inch)	42	42	49	49	49

General Data

Horizontal	024	033	042	050	060
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll
Approximate Weight (lb)	349	349	429	429	429
Nominal Filter Size	20x22	20x22	20x32	20x32	20x32
Water In/Out Size (NPTI) (in)	1	1	1	1	1
Condensate Size (NPTI) (in)	3/4	3/4	3/4	3/4	3/4
Blower Wheel Size (in)	11x10	11x10	11x10	11x10	11x10

Vertical	024	033	042	050	060
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll
Approximate Weight (lb)	340	340	393	393	393
Nominal Filter Size	20x30	20x30	27x30	27x30	27x30
Water In/Out Size (NPTI) (in)	1	1	1	1	1
Condensate Size (NPTI) (in)	3/4	3/4	3/4	3/4	3/4
Blower Wheel Size (in)	11x10	11x10	11x10	11x10	11x10



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