

# Trane® Axiom™ High Efficiency Water Source Heat Pumps



Imagine a full range of comfort utilizing efficiency, sound attenuation, integrated controls, and superior maintenance accessibility

## Models EXHV and DXHV – 0.5 to 6 tons

Model DXH (pictured to the right) is a ceiling hung product with a two stage compressor that provides a sleek, innovative shape, along with convertibility of the supply-air and the return-air arrangement; serviceability to maintenance components; indoor air quality standards and sound attenuation.

Trane's design incorporates system advantages such as:

- Exceeds ASHRAE 90.1-2016 standards for efficiency
- Return-air and supply-air flexibility
- Dual sloped polymer drain pan or optional stainless steel drain pan
- ECM motor
- Insulated compressor enclosure for quiet unit design
- Integrated factory mounted, wired and tested controls
- Orifice ring motor mounting device as standard for ease of motor service
- High and low pressure safeties as standard
- Internal air-to-refrigerant coil (horizontal design)
- Factory mounted and wired condensate overflow switch
- Factory mounted TXV
- Optional 2 stage compressor
- Waterside economizer option (horizontal)
- Full array of filter options including MERV 8 and MERV 13 to meet LEED EQ Credit 5
- Ducted filter rack accessory
- Optional foil faced insulation for cleanability
- Selectable on/off switch



# Trane® Axiom™ High Efficiency Water Source Heat Pumps

## AHRI - ISO Ratings

### Horizontal Model EXH

			Water Loop (WLHP)				Ground Loop (GLHP)			
			Cooling 86F		Heating 68F		Cooling 77F		Heating 32F	
Size	Waterflow	Airflow	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP
006	1.8	215	7,400	14.21	8,600	4.68	7,800	16.48	5,600	3.25
009	2.1	285	8,800	14.11	10,800	5.15	9,100	16.00	6,800	3.63
012	2.8	380	11,900	14.62	14,600	4.98	12,700	17.73	9,000	3.45
015	3.5	475	14,800	14.49	18,000	4.58	15,600	16.95	11,100	3.25
018	4.2	570	18,800	15.74	23,300	4.87	19,800	17.71	14,200	3.44
024	5.6	760	23,800	16.00	27,700	4.80	24,700	18.00	17,900	3.60
030	7.0	950	28,300	16.41	34,400	5.38	29,700	18.70	21,100	3.70
036	8.4	1140	34,600	17.00	42,700	5.40	36,400	19.10	26,700	3.78
042	9.8	1330	42,000	16.80	50,500	5.30	43,500	18.50	32,500	3.89
048	11.2	1520	46,700	16.10	59,000	5.30	47,900	17.70	36,300	3.76
060	14.0	1700	54,400	13.85	74,300	4.65	57,400	16.31	48,100	3.52
070	15.4	2090	65,000	14.42	80,500	4.46	67,500	16.45	48,300	3.20

**Note:** Rated in accordance with ANSI/AHRI/ASHRAE/ISO13256-1. Certified conditions are 80.6F DB/66.2F WB EAT in cooling and 68F DB/59F WB EAT in heating.

### Vertical Model EXV

			Water Loop (WLHP)				Ground Loop (GLHP)			
			Cooling 86F		Heating 68F		Cooling 77F		Heating 32F	
Size	Waterflow	Airflow	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP
006	1.8	215	7,700	14.87	8,900	5.06	8,100	17.33	6,100	3.63
009	2.1	285	8,700	14.11	10,800	5.25	9,300	16.38	7,000	3.72
012	2.8	380	12,400	15.37	15,100	5.17	13,100	18.20	9,400	3.74
015	3.5	475	14,900	14.77	18,500	4.77	15,600	17.33	11,700	3.53
018	4.2	570	18,500	15.46	23,700	5.15	19,700	17.42	14,400	3.53
024	5.6	760	24,600	16.70	29,000	5.20	25,500	18.90	18,200	3.80
030	7.0	950	27,900	16.99	34,100	5.67	29,200	19.30	20,900	3.90
036	8.4	1140	34,600	16.80	43,000	5.06	36,000	18.60	26,800	3.50
042	9.8	1330	41,700	16.70	49,200	5.20	43,200	18.50	31,700	3.89
048	11.2	1520	46,500	16.50	56,600	5.30	47,900	18.50	36,200	3.96
060	14.0	1900	55,500	14.32	76,300	4.84	58,400	16.60	48,100	3.62
070	15.4	2090	65,500	14.79	81,300	4.65	67,500	17.03	48,000	3.25

**Note:** Rated in accordance with ANSI/AHRI/ASHRAE/ISO13256-1. Certified conditions are 80.6F DB/66.2F WB EAT in cooling and 68F DB/59F WB EAT in heating.

### Horizontal Model DXH

				Water Loop (WLHP)				Ground Loop (GLHP)			
				Cooling 86F		Heating 68F		Cooling 77F		Heating 32F	
Size	Loading	Waterflow	Airflow	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP
024	Full	5.6	760	26,200	17.70	31,700	5.40	27,400	20.40	18,700	3.80
024	Part	5.6	608	19,600	19.40	23,800	5.90	21,500	27.70	16,000	4.20
036	Full	8.4	1140	37,400	16.30	47,500	5.10	39,100	18.70	29,200	3.80
036	Part	8.4	912	27,700	18.80	34,400	5.70	30,200	27.20	24,000	4.30
048	Full	11.2	1520	51,200	17.20	62,400	5.40	53,000	19.50	38,800	3.90
048	Part	11.2	1216	38,200	19.20	46,400	5.90	41,100	26.70	32,700	4.40
060	Full	14.0	1700	57,800	15.00	80,500	4.80	60,500	17.20	50,300	3.70
060	Part	14.0	1360	43,000	16.50	59,700	5.60	48,800	23.80	40,800	4.00
070	Full	15.4	2090	67,800	15.50	88,300	4.90	70,400	17.60	56,800	3.80
070	Part	15.4	1672	52,500	17.00	67,100	5.20	56,600	23.70	47,900	4.10

**Note:** Rated in accordance with ANSI/AHRI/ASHRAE/ISO13256-1. Certified conditions are 80.6F DB/66.2F WB EAT in cooling and 68F DB/59F WB EAT in heating.

## Vertical Model DXV

				Water Loop (WLHP)				Ground Loop (GLHP)			
				Cooling 86F		Heating 68F		Cooling 77F		Heating 32F	
Size	Loading	Waterflow	Airflow	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP	Cooling capacity (BTUH)	EER	Heating capacity (BTUH)	COP
024	Full	5.6	760	25,700	17.70	31,300	5.30	26,400	20.10	19,300	4.00
024	Part	5.6	608	19,400	19.60	23,600	6.00	21,000	28.00	16,300	4.40
036	Full	8.4	1140	37,200	16.60	47,100	5.10	38,400	19.10	30,200	4.00
036	Part	8.4	912	27,100	18.90	34,100	5.80	29,300	26.30	24,200	4.40
048	Full	11.2	1520	49,500	17.10	61,100	5.50	51,100	19.40	39,300	4.10
048	Part	11.2	1216	36,500	18.60	45,500	6.10	39,800	26.50	32,200	4.50
060	Full	14.0	1900	59,800	16.10	79,000	5.30	62,100	18.20	51,100	4.00
060	Part	14.0	1520	43,000	17.20	56,100	5.70	47,200	24.30	39,100	4.30
070	Full	15.4	2090	68,300	15.60	90,300	4.90	70,700	17.80	58,500	3.90
070	Part	15.4	1672	52,100	16.90	69,600	5.30	56,800	23.90	49,700	4.20

**Note:** Rated in accordance with ANSI/AHRI/ASHRAE/ISO13256-1. Certified conditions are 80.6F DB/66.2F WB EAT in cooling and 68F DB/59F WB EAT in heating.

## Unit Size

Horizontal	006	009	012	015	018	024	030	036	042	048	060	070
Width (inch)	20.0	20.0	20.0	20.0	23.0	23.0	25.0	25.0	33.0	33.0	33.0	39.0
Length (inch)	40.0	40.0	40.0	40.0	46.0	46.0	50.0	50.0	58.0	58.0	58.0	58.0
Height (inch)	15.0	15.0	15.0	15.0	18.0	18.0	19.0	19.0	21.0	21.0	21.0	21.0

Vertical	006	009	012	015	018	024	030	036	042	048	060	070
Width (inch)	19.0	19.0	19.0	19.0	21.0	21.0	24.0	24.0	26.0	26.0	26.0	26.0
Length (inch)	22.0	22.0	22.0	22.0	22.0	22.0	26.0	26.0	30.0	30.0	30.0	30.0
Height (inch)	31.0	31.0	31.0	31.0	39.0	39.0	42.0	42.0	47.0	47.0	47.0	51.0

## General Data

Horizontal	006	009	012	015	018	024	030	036	042	048	060	070
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Approximate Weight (lb)	165	165	173	173	264	269	299	313	431	424	444	484
Filter Size	15x20	15x20	15x20	15x20	18x24	18x24	19x26	19x26	21x30	21x30	21x30	21x30
Water In/Out Size (FPT) (in)	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1	1	1	1
Condensate Size (NPTI) (in)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Blower Wheel Size (in)	9x4	9x4	9x6	9x6	10x6	10x6	11x8	11x8	12x11	12x11	12x11	12x11

Vertical	006	009	012	015	018	024	030	036	042	048	060	070
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Approximate Weight (lb)	165	165	173	173	264	269	299	313	381	374	394	434
Filter Size	16x20	16x20	16x20	16x20	20x20	20x20	20x25	20x25	24x30	24x30	24x30	28x30
Water In/Out Size (FPT) (in)	1/2	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1	1	1	1
Condensate Size (NPTI) (in)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Blower Wheel Size (in)	9x4	9x4	9x6	9x6	10x6	10x6	11x8	11x8	12x11	12x11	12x11	12x11



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