

## 2-5 Product Specifications

### 2-5-1 Outdoor Unit

Type			EHS TDM PLUS(OUTDOOR UNIT)	EHS TDM PLUS(OUTDOOR UNIT)	EHS TDM PLUS(OUTDOOR UNIT)	EHS TDM PLUS(OUTDOOR UNIT)	EHS TDM PLUS(OUTDOOR UNIT)	EHS TDM PLUS(OUTDOOR UNIT)	EHS TDM PLUS(OUTDOOR UNIT)	EHS TDM PLUS(OUTDOOR UNIT)			
Model Name			AE04MXTEPH/EU	AE06MXTEPH/EU	AE09MXTEPH/EU	AE09MXTPGH/EU	AE120MXTEPH/EU	AE120MXTPGH/EU	AE160MXTEPH/EU	AE160MXTPGH/EU			
System	A2W Condition #1. (A7/W35) *1	Mode	-	Heat Pump (A2W)	Heat Pump (A2W)	Heat Pump (A2W)	Heat Pump (A2W)	Heat Pump (A2W)	Heat Pump (A2W)	Heat Pump (A2W)			
			Capacity	Heating	W	4,400	6,600	9,000	9,000	12,000	16,000	16,000	
		Capacity	Heating	Btu/h	15,000	22,500	30,700	30,700	40,900	40,900	54,600	54,600	
			Cooling	W	5,100	6,700	8,000	8,000	12,000	12,000	14,500	14,500	
		Capacity	Heating	Btu/h	17,400	22,900	27,300	27,300	40,900	40,900	49,500	49,500	
			Cooling	W	930	1,470	2,120	2,120	2,720	2,720	3,950	3,950	
		Power Input	Heating	W	1,030	1,480	1,850	1,850	2,900	2,900	3,840	3,840	
			Cooling	W	473	449	425	425	441	441	405	405	
		COP (Heating)	W/W	W/W	4.95	4.53	4.32	4.32	4.14	4.14	3.78	3.78	
			EER (Cooling)	W/W	4.00	6,100	8,000	8,300	11,200	11,200	15,000	15,000	
	A2W Condition #2. (A7/W35) *2	Capacity	Heating	W	4,000	6,100	8,000	8,300	11,200	11,200	15,000	15,000	
			Heating	Btu/h	13,600	20,800	27,300	28,300	38,200	38,200	51,200	51,200	
		Capacity	Cooling	W	3,500	4,500	5,600	5,700	8,600	8,600	10,300	10,300	
			Cooling	Btu/h	11,900	15,400	19,100	19,400	29,300	29,300	35,100	35,100	
		Power Input	Heating	W	1,160	1,830	2,380	2,500	3,300	3,300	4,710	4,710	
			Cooling	W	1,030	1,420	1,790	1,750	2,790	2,790	3,590	3,590	
		COP (Heating)	W/W	W/W	3.45	3.33	3.36	3.32	3.39	3.39	3.18	3.18	
			EER (Cooling)	W/W	3.40	3.17	3.13	3.26	3.08	3.08	2.87	2.87	
		A2/W35 *3	Capacity	Heating	W	4,000	5,800	7,700	7,700	11,000	11,000	13,700	13,700
			COP	W/W	W/W	3.54	3.31	3.47	3.47	3.41	3.41	3.19	3.19
	A-7/W35 *3	Capacity	Heating	W	3,900	5,700	7,400	7,400	10,600	10,600	14,000	14,000	
		COP	W/W	W/W	2.81	2.79	2.79	2.79	2.97	2.97	2.73	2.73	
	Field Wiring	MCA	A	A	18.0	20.0	22.0	10.0	28.0	10.0	32.0	12.0	
		MFA	A	A	25.0	25.0	27.5	16.1	35.0	16.1	40.0	16.1	
	Water Connections	Water Flow Rate	Min/Std/Max	LPM	7.0/12.7/42.0	7.0/19.0/42.0	7.0/26.0/42.0	7.0/26.0/42.0	12.0/34.6/58.0	12.0/34.6/58.0	12.0/46.2/58.0	12.0/46.2/58.0	
		Piping Connections	Liquid pipe	Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas pipe(A2W)		Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)		
Gas pipe(A2A)	Φ, mm (inch)		15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)			
Refrigerant	Piping length (ODU-IDU)	Max.[Equiv.]	m	30	30	30	30	70	70	70			
	Level difference (IDU-IDU)	Max.	m	20	20	20	20	30	30	30			
	Chargeless Length		m	10	10	10	10	10	10	10			
	Type			R410A	R410A	R410A	R410A	R410A	R410A	R410A			
	Factory Charging		kg	2.6	2.6	2.4	2.4	3.5	3.5	3.5			
Control Method			-	EEV	EEV	EEV	EEV	EEV	EEV				
Outdoor Unit	Power Supply		Φ, 4, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	3,4,380-415,50	1,2,220-240,50	3,4,380-415,50	1,2,220-240,50	3,4,380-415,50		
	Compressor	Type	-	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp	Rotary Comp		
		Type	-	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan	Propeller Fan		
	Fan	Discharge direction		Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal		
		Air Flow Rate	m <sup>3</sup> /min	45	47	67	67	103	103	123	123		
		Quantity	EA	1	1	1	1	2	2	2	2		
	Sound	Sound Pressure	Heating	dB(A)	47	48	51	51	52	55	55		
		Sound Pressure	Cooling	dB(A)	46	47	50	50	51	54	54		
	External Dimension	Sound Power		dB(A)	65	67	69	69	70	73	73		
		Net Weight		kg	61	61	74	76	107	107	107		
	Shipping Dimensions (WxHxD)	Shipping Weight		kg	64.5	64.5	82	84	115	115	115		
		Net Dimensions (WxHxD)		mm	880 x 793 x 310	880 x 793 x 310	940 x 998 x 330	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330		
		Shipping Dimensions (WxHxD)		mm	1,023 x 911 x 413	1,023 x 911 x 413	995 x 1,178 x 426	995 x 1,178 x 426	995 x 1,598 x 426	995 x 1,598 x 426	995 x 1,598 x 426		
	Operating Temp. Range	A2W	Heating	℃	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35		
			Cooling	℃	10~46	10~46	10~46	10~46	10~46	10~46	10~46		
A2A		D.Hot Water	℃	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43			
		Cooling	℃	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24			

**NOTE**

\* Specifications may be subject to change without prior notice.

\*1) A2W Condition #1 : (Heating) Water In/Out 30 ℃/35 ℃, Outdoor Air 7 ℃ [DB]/6 ℃ [WB]; (Cooling) Water In/Out 23 ℃/18 ℃, Outdoor Air 35 ℃ [DB].

\*2) A2W Condition #2 : (Heating) Water In/Out 40 ℃/45 ℃, Outdoor Air 7 ℃ [DB]/6 ℃ [WB]; (Cooling) Water In/Out 12 ℃/7 ℃, Outdoor Air 35 ℃ [DB].

\*3) A2W Condition : (A2W35) Water In/Out -/35 ℃, Outdoor Air 2 ℃ [DB]/1 ℃ [WB]; (A-7/W35) Water In/Out -/35 ℃, Outdoor Air -7 ℃ [DB]/-(\* Peak Capacity)

4) Select wire size based on the value of MCA

5) Sound pressure level is obtained in an anechoic room.

- Sound pressure level is a relative value, depending on the distance and acoustic environment.

- Sound pressure level may differ depending on operation condition.

- dBA = A-weighted sound pressure level

- Reference acoustic pressure 0 dB = 20uPa

6) Sound power level is an absolute value that a sound source generates.

- dBA = A-weighted sound power level

- Reference power : 1pW

- Measured according to ISO 3741

7) These products contain R410A (GWP=2,088) which is fluorinated greenhouse gas.