

# EHS Specification - Split (A2W)

# FLUX PRO



## Outdoor Unit (Split)

- Outdoor unit works with Air-to-Water (A2W) Hydro unit to supply hot water

Model	AEX060EDEHA		AEX100EDEHA		AEX125EDEHA		AEX140EDEHA		AEX140EDEHA	
Hydro Unit	AEN060YDEHA		AEN090YDEHA		AEN160YDEHA		AEN160YDEHA		AEN160YDEHA	
Mode	-		Heat Pump (A2W Only)		Heat Pump (A2W Only)		Heat Pump (A2W Only)		Heat Pump (A2W Only)	
Power Supply	Ø, #, V, Hz		1,220-240,50		1,220-240,50		1,220-240,50		1,220-240,50	
Performance (A2W #1)	Nominal Capacity <sup>(1)</sup>	Heating	W	5,800	10,000	12,500	14,000	16,000	16,000	16,000
			BluH	19,800	34,100	42,700	47,800	54,600	54,600	54,600
		Heating	W	5,300	9,100	15,000	16,200	17,400	17,400	17,400
			BluH	18,100	31,000	51,200	55,300	59,400	59,400	59,400
	Nominal Power Input <sup>(1)</sup>	Heating	W	1,220	2,220	2,660	3,110	3,720	3,720	3,720
		Cooling	W	1,905	2,890	4,350	5,150	6,000	6,000	6,000
	Nominal Current Input <sup>(1)</sup>	Heating	A	5.7	9.70	11.70	13.70	16.30	16.30	16.30
		Cooling	A	8.8	12.70	19.10	22.60	26.40	26.40	26.40
	COP(Heating) <sup>(1)</sup>		W	4.75	4.50	4.70	4.50	4.30	4.30	4.30
		EER(Cooling) <sup>(1)</sup>	W	3.50	3.15	3.45	3.15	2.90	2.90	2.90
ESEER <sup>(2)</sup>		A	4.50	4.60	4.80	4.75	4.70	4.70	4.70	
	MCA	A	20.0	22.0	28.0	30.0	32.0	32.0	32.0	
Electric Specification	MFA	A	25.0	27.5	35.0	37.5	40.0	40.0	40.0	
Refrigerant Side	Compressor	Type	-	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	
		Model	-	UG4T200FUAE4	UG8T300FUBJU	UGT450FUEJX	UGT450FUEJX	UGT450FUEJX	UGT450FUEJX	
	Oil	Type	-	POE	POE	POE	POE	POE	POE	
	Refrigerant	Type	-	R410A	R410A	R410A	R410A	R410A	R410A	
	Piping	Liquid	Ø, mm (inch)	6.35(1/4")	9.52(3/8")	9.52(3/8")	9.52(3/8")	9.52(3/8")	9.52(3/8")	
	Connections	Gas	Ø, mm (inch)	15.88(5/8")	15.88(5/8")	15.88(5/8")	15.88(5/8")	15.88(5/8")		
	Installation Limitation	Length	m	30	50	50	50	50		
	Height	m	20	30	30	30	30			
Base Heater (Option)	Capacity	W	N/A	150	150	150	150			
Sound	Sound Pressure <sup>(3)</sup>	Heating	dB(A)	53	50	50	53			
		Cooling	dB(A)	54	52	51	53			
	Sound Power		dB(A)	62	66	64	66			
External Dimension	Weight	Net	kg	47.5	74	98	98			
		Gross	kg	52.5	82	108	108			
	Dimensions (WxHxD)	Net	mm	880x638x310	940x998x330	940x1,420x330	940x1,420x330			
Operating Range	Heating		°C	-20~35	-20~35	-20~35	-20~35			
		Ambient (A2W)	°C	10~46	10~46	10~46	10~46			
	Cooling		°C	-20~43	-20~43	-20~43	-20~43			
		DHW	°C	25~55	25~55	25~55	25~55			
	Leaving Water	Heating	°C	5~25	5~25	5~25	5~25			
		Cooling	°C	5~25	5~25	5~25	5~25			

\*\*1)-2) A2W rating conditions in accordance with Eurovent Rating Standard for Liquid Chilling Packages 6/C/003-2008.

\*1) A2W Condition #1 : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°CDB/6°CWB; (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°CDB.

\*2) A2W Condition for ESEER(Cooling) at Water Out 18°C.

\*3) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

# EHS Specification - Split (A2W)



## Outdoor Unit (Split)

# EHS Specification - TDM (A2W & A2A), Split (A2W)



## Hydro Unit

• Combining with TDM or Split Outdoor units

Model	AEX125EDGHA	AEX140EDGHA	AEX160EDGHA			
Hydro Unit	AEN160YDGH	AEN160YDGH	AEN160YDGH			
Mode	-	Heat Pump (A2W Only)	Heat Pump (A2W Only)			
Power Supply	Φ, #, V, Hz	3,380-415,50	3,380-415,50			
Performance (A2W #1)	Nominal Capacity <sup>(1)</sup>	Heating	W	12,500	14,000	16,000
		Btu/h	42,700	47,800	54,600	
	Cooling	W	15,000	16,200	17,400	
		Btu/h	51,200	55,300	59,400	
	Nominal Power Input <sup>(1)</sup>	Heating	W	2,660	3,110	3,720
		Cooling	W	4,350	5,150	6,000
	Nominal Current Input <sup>(1)</sup>	Heating	A	4.20	4.90	5.80
		Cooling	A	6.80	8.10	9.40
	Nominal Heating (COP) <sup>(1)</sup>	W	4.70	4.50	4.30	
	Nominal Cooling (EER) <sup>(1)</sup>	W	3.45	3.15	2.90	
ESEER <sup>(2)</sup>	A	4.80	4.75	4.70		
Electric Specification	MCA	A	10.0	11.0	12.0	
MFA	A	12.5	13.8	15.0		
Refrigerant Side	Compressor	Type	-	Rotary Inverter	Rotary Inverter	Rotary Inverter
	Model	-	UG5T450FUEJX	UG5T450FUEJX	UG5T450FUEJX	UG5T450FUEJX
	Oil	Type	-	POE	POE	POE
	Refrigerant	Type	-	R410A	R410A	R410A
	Piping Connections	Liquid	Φ, mm (inch)	9.52(3/8")	9.52(3/8")	9.52(3/8")
		Gas	Φ, mm (inch)	15.88(5/8")	15.88(5/8")	15.88(5/8")
	Installation Limitation	Length	m	50	50	50
Height	m	30	30	30		
Base Heater (Option)	Capacity	W	150	150	150	
Sound	Sound Pressure <sup>(3)</sup>	Heating	dB(A)	50	50	53
		Cooling	dB(A)	51	53	54
	Sound Power	dB(A)	64	66	68	
External Dimension	Weight	Net	kg	98	98	98
		Gross	kg	108	108	108
	Dimensions (WxHxD)	Net	mm	940x1,420x330	940x1,420x330	940x1,420x330
Gross		mm	995x1,548x426	995x1,548x426	995x1,548x426	
Operating Range	Ambient (A2W)	Heating	°C	-20-35	-20-35	-20-35
		Cooling	°C	10-46	10-46	10-46
	Leaving Water	DHW	°C	-20-43	-20-43	-20-43
		Heating	°C	25-55	25-55	25-55
	Cooling	°C	5-25	5-25	5-25	

\*\*1)-2) A2W rating conditions in accordance with Eurovent Rating Standard for Liquid Chilling Packages 6/C/003-2008.  
 \*1) A2W Condition #1 : (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°CDB/6°CWB, (Cooling) Water In/Out 23°C/18°C, Outdoor Air 35°CDB.  
 \*2) A2W Condition for ESEER(Cooling) at Water Out 18°C.  
 \*3) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Model	TDM					SPLIT				
	NH080PHXEA	NH160PHXEA	AEN080YDEHA	AEN160YDEHA	AEN160YDGH					
Power Supply	Φ, #, V, Hz	1,220-240,50	1,220-240,50	1,220-240,50	1,220-240,50	1,220-240,50	1,220-240,50	1,220-240,50	1,220-240,50	
Performance	Nominal Capacity	Heating	W	6,000 / 7,000 / 8,000	11,000 / 14,000 / 16,000	5,200 / 10,000	12,500 / 14,000 / 16,000	12,500 / 14,000 / 16,000	12,500 / 14,000 / 16,000	
		Cooling	W	7,000 / 7,500 / 8,000	11,300 / 14,200 / 15,600	5,000 / 9,000	11,200 / 12,500 / 14,000	11,200 / 12,500 / 14,000	11,200 / 12,500 / 14,000	
	Leaving Water Temp. Range	Heating	°C	15-55 (H/P : 25-55)	15-55 (H/P : 25-55)	15-55 (H/P : 25-55)	15-55 (H/P : 25-55)	15-55 (H/P : 25-55)	15-55 (H/P : 25-55)	
		Cooling	°C	5-25	5-25	5-25	5-25	5-25		
Water Side	Required Water Pressure	bar	Max 3.0	Max 3.0	Max 3.0	Max 3.0	Max 3.0	Max 3.0		
	Required Flow Rate	LPM	Min 12.0	Min 16.0	Min 12.0	Min 16.0	Min 16.0	Min 16.0		
	Piping Connections	In/Out Φ, inch	1 1/4" (BSPP)	1 1/4" (BSPP)	1 1/4" (BSPP)	1 1/4" (BSPP)	1 1/4" (BSPP)	1 1/4" (BSPP)		
Refrigerant Side	Piping Connections	Liquid	Φ, mm(inch)	9.52(3/8")	9.52(3/8")	9.52(3/8")	9.52(3/8")	9.52(3/8")		
		Gas	Φ, mm(inch)	15.88(5/8")	15.88(5/8")	15.88(5/8")	15.88(5/8")	15.88(5/8")		
Hydro Unit Parts	Water Pump	Flow Rate	kg/min	17.0 / 20.5 / 23.0	31.5 / 40.1 / 45.9	17.0 / 20.5 / 23.0	31.5 / 40.1 / 45.9	31.5 / 40.1 / 45.9		
	Electric Heater	Input Power	W	4,000	6,000	4,000	6,000	6,000		
	Expansion Vessel	Volume	Liter	8	8	8	8	8		
	Pressure Relief Valve	Relief Pressure	bar	2.9	2.9	2.9	2.9	2.9		
Air Purge Valve	Size	Φ, inch	3/8" (BSPP male)	3/8" (BSPP male)	3/8" (BSPP male)	3/8" (BSPP male)	3/8" (BSPP male)	3/8" (BSPP male)		
	Service Valve	Size	Φ, inch	1 1/4" (BSPP male)	1 1/4" (BSPP male)	1 1/4" (BSPP male)	1 1/4" (BSPP male)	1 1/4" (BSPP male)		
	Weight	Net	kg	45	48	45	48	45		
External Dimension	Weight	Gross	kg	55	58	55	58	55		
		Dimensions (WxHxD)	Net	mm	510x850x315	510x850x315	510x850x315	510x850x315	510x850x315	
	Gross	mm	564x1,024x412	564x1,024x412	564x1,024x412	564x1,024x412	564x1,024x412			
External Control	Back up Boiler	-	230VAC 1A(DO)	230VAC 1A(DO)	230VAC 1A(DO)	230VAC 1A(DO)	230VAC 1A(DO)	230VAC 1A(DO)		
	Room Thermostat	-	230VAC 1A(DI)	230VAC 1A(DI)	230VAC 1A(DI)	230VAC 1A(DI)	230VAC 1A(DI)			
	Solar Pump	-	230VAC 1A(DI)	230VAC 1A(DI)	230VAC 1A(DI)	230VAC 1A(DI)	230VAC 1A(DI)			
	Valves, 2 or 3 way	-	230VAC 1A(DO)	230VAC 1A(DO)	230VAC 1A(DO)	230VAC 1A(DO)	230VAC 1A(DO)			