



HP			8	10	12
Model	Combination unit		ARWN080LAS4	ARWN100LAS4	ARWN120LAS4
	Independent unit		ARWN080LAS4	ARWN100LAS4	ARWN120LAS4
Capacity	Cooling	Nom kW	22.4	28	33.6
	Heating	Nom kW	25.2	31.5	37.8
Power Input	Cooling	Nom kW	3.86	5.09	6.46
	Heating	Nom kW	4.20	5.34	6.75
EER			5.80	5.50	5.20
COP			6.00	5.90	5.60
ESEER			7.77	7.71	7.26
Operation Range	Cooling	Min-Max °C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max °C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor		1	1	1
Sound Pressure (Cooling)		Nom dBA	47	50	56
Sound Pressure (Heating)		Nom dBA	51	53	57
Sound Power (Cooling)		Nom dBA	59	62	68
Sound Power (Heating)		Nom dBA	63	65	68
Dimensions	WxHxD	mm	755 x 997 x 500	755 x 997 x 500	755 x 997 x 500
Net Weight		kg	127 x 1	127 x 1	127 x 1
Refrigerant	Type		R410A	R410A	R410A
	Charge	kg	5.8	5.8	5.8
	Control		EEV	EEV	EEV
Refrigerant Oil	Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control	cc	1,200	1,200	1,200
Power Supply		øV/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)		No.xmm <sup>2</sup>	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Piping Length	Total	Max m	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max m	150(200)	150(200)	150(200)
	After 1st Y branch	Max m	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max m	50	50	50
	IDU-IDU	Max m	40	40	40
Piping Connection	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)
	Gas	mm(inch)	22.2(7/8)	22.2(7/8)	25.4(1)
Number of Outdoor Units			1	1	1
Number of Connectable Indoor Units		Max	13(20)	16(25)	20(30)
Ratio of the Connectable Indoor Units		Min-Max	50 ~ 200%	50 ~ 200%	50 ~ 200%
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max kgf/cm <sup>2</sup>	45	45	45
	Nom Water Flow	L/min	77	96	116
	Head Loss	kPa	10.7	15.8	21.8
Water Connection pipe	Inlet	mm(inch)	PT 40	PT 40	PT 40
	Outlet	mm(inch)	PT 40	PT 40	PT 40
	Drain Outlet	mm	20	20	20

**Note :**

- Capacities and Inputs are based on the following conditions  
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero  
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- EEV : Electronic Expansion Valve
- Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information on installation section.)

\* ( ) : Conditional application



HP			14	16	18	20
Model	Combination unit		ARWN140LAS4	ARWN160LAS4	ARWN180LAS4	ARWN200LAS4
	Independent unit		ARWN140LAS4	ARWN160LAS4	ARWN180LAS4	ARWN200LAS4
Capacity	Cooling	Nom kW	39.2	44.8	50.4	56
	Heating	Nom kW	44.1	50.4	56.7	63
Power Input	Cooling	Nom kW	7.84	8.15	9.69	11.2
	Heating	Nom kW	8.17	8.54	10.13	11.67
EER			5.00	5.50	5.20	5.00
COP			5.40	5.90	5.60	5.40
ESEER			6.96	7.18	7.10	7.02
Operation Range	Cooling	Min-Max °C DB	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C	10°C ~ 45°C
	Heating	Min-Max °C WB	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C	-5°C ~ 45°C
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor		1	1	1	1
Sound Pressure (Cooling)		Nom dBA	58	53	55	54
Sound Pressure (Heating)		Nom dBA	57	57	56	60
Sound Power (Cooling)		Nom dBA	70	65	67	66
Sound Power (Heating)		Nom dBA	69	69	68	72
Dimensions	WxHxD	mm	755 x 997 x 500	755 x 997 x 500	755 x 997 x 500	755 x 997 x 500
Net Weight		kg	127 x 1	140 x 1	140 x 1	140 x 1
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge	kg	5.8	3.0	3.0	3.0
	Control		EEV	EEV	EEV	EEV
Refrigerant Oil	Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control	cc	1,200	1,400	1,400	1,400
Power Supply		øV/Hz	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50	3 / 380 - 415 / 50
Transmission Cable (VCTF-SB)		No.xmm <sup>2</sup>	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C	1.0 - 1.5 x 2C
Piping Length	Total	Max m	300(500)	300(500)	300(500)	300(500)
	Actual Longest Piping Length	Max m	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max m	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max m	50	50	50	50
	IDU-IDU	Max m	40	40	40	40
Piping Connection	Liquid	mm(inch)	12.7(1/2)	12.7(1/2)	12.7(1/2)	12.7(1/2)
	Gas	mm(inch)	25.4(1)	28.58(1-1/8)	28.58(1-1/8)	28.58(1-1/8)
Number of Outdoor Units			1	1	1	1
Number of Connectable Indoor Units		Max	23(35)	26(40)	29(45)	32(44)
Ratio of the Connectable Indoor Units		Min-Max	50 ~ 200%	50 ~ 200%	50 ~ 200%	50 ~ 200%
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max kgf/cm <sup>2</sup>	45	45	45	45
	Nom Water Flow	L/min	135	154	173	192
	Head Loss	kPa	28.6	19.4	24	30.1
Water Connection pipe	Inlet	mm(inch)	PT 40	PT 40	PT 40	PT 40
	Outlet	mm(inch)	PT 40	PT 40	PT 40	PT 40
	Drain Outlet	mm	20	20	20	20

**Note :**

- Capacities and Inputs are based on the following conditions  
Cooling : Indoor temp. 27°C (80.6°F)DB/19°C(66.2°F)WB, Water inlet temp. 30°C(86°F), Interconnecting piping length 7.5m, Level difference of zero  
Heating : Indoor temp. 20°C(68°F)DB - Water inlet temp. 20°C(68°F)
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- EEV : Electronic Expansion Valve
- Add an anti freeze to circulation water when outside units is operating undet 10°C (50°F), and change the DIP switch on main PCB.(For more information on installation section.)

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