



HP			42	44	46	48	50
Model	Combination unit		ARWN420LAS4	ARWN440LAS4	ARWN460LAS4	ARWN480LAS4	ARWN500LAS4
	Independent unit		ARWN100LAS4	ARWN120LAS4	ARWN120LAS4	ARWN140LAS4	ARWN140LAS4
			ARWN120LAS4	ARWN120LAS4	ARWN140LAS4	ARWN140LAS4	ARWN160LAS4
Capacity	Cooling	Nom kW	117.6	123.2	128.8	134.4	140
	Heating	Nom kW	132.3	138.6	144.9	151.2	157.5
Power Input	Cooling	Nom kW	22.75	24.12	25.5	26.88	27.19
	Heating	Nom kW	23.76	25.17	26.59	28.01	28.38
EER			5.17	5.11	5.05	5.00	5.15
COP			5.57	5.51	5.45	5.40	5.55
ESEER			7.18	7.12	7.06	7.01	7.07
Operation Range	Cooling	Min-Max °C DB	10°C - 45°C	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	-5°C - 45°C
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor		3	3	3	3	3
Sound Pressure (Cooling)		Nom dBA	58	58	60	60	60
Sound Pressure (Heating)		Nom dBA	62	62	62	62	62
Sound Power (Cooling)		Nom dBA	72	72	74	74	74
Sound Power (Heating)		Nom dBA	76	76	76	76	76
Dimensions	WxHxD mm		(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3
Net Weight	kg		(140 × 2) + (127 × 2)	(140 × 2) + (127 × 2)	(140 × 2) + (127 × 2)	(140 × 2) + (127 × 2)	(140 × 2) + (127 × 2)
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charge	kg	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8	3.0 + 5.8 + 5.8	3.0 + 3.0 + 5.8
	Control		EEV	EEV	EEV	EEV	EEV
Refrigerant Oil	Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control	cc	1,400 + 1,200 + 1,200	1,400 + 1,200 + 1,200	1,400 + 1,200 + 1,200	1,400 + 1,200 + 1,200	1,400 + 1,400 + 1,200
Power Supply	ø/V/Hz		3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Transmission Cable (VCTF-SB)	No. x mm²		1.0 - 1.5 x 2C	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)	300(500)
	Actual Longest Piping Length	Max m	150(200)	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max m	50	50	50	50	50
	IDU-IDU	Max m	40	40	40	40	40
Piping Connection	Liquid	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Number of Outdoor Units			3	3	3	3	3
Number of Connectable Indoor Units	Max		64	64	64	64	64
Ratio of the Connectable Indoor Units	Min-Max		50 - 130%	50 - 130%	50 - 130%	50 - 130%	50 - 130%
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max kgf/cm²	45	45	45	45	45
	Nom Water Flow	L/min	192 + 116 + 96	192 + 116 + 116	192 + 135 + 116	192 + 135 + 135	192 + 154 + 135
	Head Loss	kPa	30.1 + 21.8 + 15.8	30.1 + 21.8 + 21.8	30.1 + 28.6 + 21.8	30.1 + 28.6 + 28.6	30.1 + 19.4 + 28.6
Water Connection pipe	Inlet	mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet	mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet	mm	20	20	20	20	20

Note :
 1. 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)
 2. Capacities are net capacities
 3. Due to our policy of innovation some specifications may be changed without notification
 4. EEV : Electronic Expansion Valve
 5. 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			52	54	56	58	60
Model	Combination unit		ARWN520LAS4	ARWN540LAS4	ARWN560LAS4	ARWN580LAS4	ARWN600LAS4
	Independent unit		ARWN140LAS4	ARWN140LAS4	ARWN180LAS4	ARWN180LAS4	ARWN200LAS4
			ARWN180LAS4	ARWN200LAS4	ARWN180LAS4	ARWN200LAS4	ARWN200LAS4
Capacity	Cooling	Nom kW	145.6	151.2	156.8	162.4	168
	Heating	Nom kW	163.8	170.2	176.4	182.7	189
Power Input	Cooling	Nom kW	28.73	30.24	30.58	32.09	33.6
	Heating	Nom kW	29.97	31.51	31.93	33.47	35.01
EER			5.07	5.00	5.13	5.06	5.00
COP			5.47	5.40	5.52	5.46	5.40
ESEER			7.04	7.01	7.07	7.04	7.01
Operation Range	Cooling	Min-Max °C DB	10°C - 45°C	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	-5°C - 45°C
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Number of Compressor		3	3	3	3	3
Sound Pressure (Cooling)		Nom dBA	60	60	57	57	56
Sound Pressure (Heating)		Nom dBA	62	62	62	62	62
Sound Power (Cooling)		Nom dBA	74	74	71	71	70
Sound Power (Heating)		Nom dBA	76	76	76	76	76
Dimensions	WxHxD mm		(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3	(755 × 997 × 500) × 3
Net Weight	kg		(140 × 2) + (127 × 1)	(140 × 2) + (127 × 1)	140 × 3	140 × 3	140 × 3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charge	kg	3.0 + 3.0 + 5.8	3.0 + 3.0 + 5.8	3.0 + 3.0 + 3.0	3.0 + 3.0 + 3.0	3.0 + 3.0 + 3.0
	Control		EEV	EEV	EEV	EEV	EEV
Refrigerant Oil	Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Control	cc	1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,200	1,400 + 1,400 + 1,400	1,400 + 1,400 + 1,400	1,400 + 1,400 + 1,400
Power Supply	ø/V/Hz		3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50	3/380-415/50
Transmission Cable (VCTF-SB)	No. x mm²		1.0 - 1.5 x 2C	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)	300(500)
	Actual Longest Piping Length	Max m	150(200)	150(200)	150(200)	150(200)	150(200)
	After 1st Y branch	Max m	40(90)	40(90)	40(90)	40(90)	40(90)
Piping Level Difference	IDU-ODU	Max m	50	50	50	50	50
	IDU-IDU	Max m	40	40	40	40	40
Piping Connection	Liquid	mm(inch)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)	19.05(3/4)
	Gas	mm(inch)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)	41.3(1-5/8)
Number of Outdoor Units			3	3	3	3	3
Number of Connectable Indoor Units	Max		64	64	64	64	64
Ratio of the Connectable Indoor Units	Min-Max		50 - 130%	50 - 130%	50 - 130%	50 - 130%	50 - 130%
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Pressure Resistance	Max kgf/cm²	45	45	45	45	45
	Nom Water Flow	L/min	192 + 173 + 135	192 + 173 + 135	192 + 173 + 173	192 + 192 + 173	192 + 192 + 192
	Head Loss	kPa	30.1 + 24.0 + 28.6	30.1 + 28.6 + 28.6	30.1 + 24.0 + 24.0	30.1 + 30.1 + 24.0	30.1 + 30.1 + 30.1
Water Connection pipe	Inlet	mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Outlet	mm(inch)	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40	PT 40 + PT 40 + PT 40
	Drain Outlet	mm	20	20	20	20	20

Note :
 1. 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)
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