

MULTI V III Heat Pump



Specifications

HP			8	10	12	14	16	18	20	
Model	Combination unit		ARUN80LT3	ARUN100LT3	ARUN120LT3	ARUN140LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3	
	Independent unit		ARUN80LT3	ARUN100LT3	ARUN120LT3	ARUN140LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3	
Capacity	Cooling	Nom	kW	22.4	28.0	33.6	39.2	44.8	50.4	56.0
	Heating +7°C	Nom	kW	25.2	31.5	37.8	44.1	50.4	56.7	63.0
	Heating -7°C	Nom	kW	24.3	30.3	36.4	42.5	44.1	54.6	60.7
Power Input	Cooling	Nom	kW	5.3	7.0	8.9	9.5	11.0	12.8	15.0
	Heating +7°C	Nom	kW	5.5	7.3	9.0	9.7	11.5	13.5	15.5
	Heating -7°C	Nom	kW	6.4	8.4	10.4	11.2	13.3	15.6	17.9
COP	Cooling			4.27	4.00	3.78	4.13	4.07	3.94	3.73
	Heating			4.58	4.34	4.20	4.55	4.38	4.20	4.06
Operation Range	Cooling	Min-Max	°C(DB)	-5°C ~ 43°C						
	Heating	Min-Max	°C(WB)	-20°C ~ 16°C						
Compressor	Type		HSS(High Pressure Side Shell) BLDC Inverter Scroll							
	Number of Compressor			1	2		3			
Fan	Type		Propeller fan							
	Motor Type		BLDC motor							
Airflow Rate	Cooling	High	m ³ /min	180	190	210	240	250		
Sound Pressure		High	dBA	57	58	61	62			
Dimension		WxHxD	mm	(920 x 1,680 x 760) x 1			(1,240 x 1,680 x 760) x 1			
Net weight			kg	190 x 1	240 x 1	260 x 1	315 x 1	325 x 1		
Refrigerant	Type		R410A							
	Charge		kg	5.0	6.4	7.0	7.5	9.0		
Refrigerant Oil	Type		FVC68D(PVE)							
	Charge		cc	3,500	5,200	5,500	7,200			
Power Supply		Ø / V / Hz	3 / 380 ~ 415 / 50							
Transmission cable (VCTF-SB)		N x mm ²	2C x 1.0 ~ 1.5							
Total Piping Length		Max	m	1,000						
Actual longest piping Length *			m	200(225)						
Longest piping length after 1 st branch **			m	40(90)						
Piping level difference		IDU-ODU	m	110						
Piping Connection	Liquid		mm(inch)	Ø9.52(3/8)		Ø12.7(1/2)		Ø15.88(5/8)		
	Gas		mm(inch)	Ø19.05(3/4)	Ø22.2(7/8)	Ø28.58(1 1/8)				
Number of Outdoor Unit				1						
Number of Maximum Connectable Indoor Units ***				13(20)	16(25)	20(30)	23(35)	26(40)	29(45)	32(50)
Ratio of the Connectable Indoor Units	Min ~ Max	50 ~ 200%								
Heat exchanger	Type	Wide Louver fin(Gold-coating)								

Specifications

HP			22	24	26	28	
Model	Combination unit		ARUN220LT3	ARUN240LT3	ARUN260LT3	ARUN280LT3	
	Independent unit		ARUN120LT3	ARUN120LT3	ARUN140LT3	ARUN160LT3	
Capacity	Cooling	Nom	kW	61.6	67.2	72.8	78.4
	Heating +7°C	Nom	kW	69.3	75.6	81.9	88.2
	Heating -7°C	Nom	kW	66.7	72.8	78.9	80.5
Power Input	Cooling	Nom	kW	15.9	17.8	18.4	19.9
	Heating +7°C	Nom	kW	16.3	18.0	18.7	20.5
	Heating -7°C	Nom	kW	18.8	20.8	21.6	23.7
COP	Cooling			3.87	3.78	3.96	3.94
	Heating			4.26	4.20	4.38	4.30
Operation Range	Cooling	Min-Max	°C(DB)	-5°C ~ 43°C			
	Heating	Min-Max	°C(WB)	-20°C ~ 16°C			
Compressor	Type		HSS(High Pressure Side Shell) BLDC Inverter Scroll				
	Number of Compressor			4			
Fan	Type		Propeller fan				
	Motor Type		BLDC motor				
Airflow Rate	Cooling	High	m ³ /min	380	400		
Sound Pressure		High	dBA	61			
Dimension		WxHxD	mm	(920 x 1,680 x 760) x 2		(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 1	
Net weight			kg	240 x 2	240 x 1 + 260 x 1		
Refrigerant	Type		R410A				
	Charge		kg	12.8	13.4		
Refrigerant Oil	Type		FVC68D(PVE)				
	Charge		cc	10,400	10,700		
Power Supply		Ø / V / Hz	3 / 380 ~ 415 / 50				
Transmission cable (VCTF-SB)		N x mm ²	2C x 1.0 ~ 1.5				
Total Piping Length		Max	m	1,000			
Actual longest piping Length *			m	200(225)			
Longest piping length after 1 st branch **			m	40(90)			
Piping level difference		IDU-ODU	m	110			
Piping Connection	Liquid		mm(inch)	Ø15.88(5/8)		Ø19.05(3/4)	
	Gas		mm(inch)	Ø28.58(1 1/8)	Ø34.9(1 3/8)		
Number of Outdoor Unit				2			
Number of Maximum Connectable Indoor Units ***				35(44)	39(48)	42(52)	45(56)
Ratio of the Connectable Indoor Units	Min ~ Max	50 ~ 160%					
Heat exchanger	Type	Wide Louver fin(Gold-coating)					

Specifications

HP				30	32	34	36	38	40
Model	Combination unit			ARUN300LT3	ARUN320LT3	ARUN340LT3	ARUN360LT3	ARUN380LT3	ARUN400LT3
	Independent unit			ARUN160LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3
				ARUN140LT3	ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3
Capacity	Cooling	Nom	kW	84.0	89.6	95.2	100.8	106.4	112.0
	Heating +7°C	Nom	kW	94.5	100.8	107.1	113.4	119.7	126.0
	Heating -7°C	Nom	kW	86.6	88.3	98.7	104.8	115.2	121.3
Power Input	Cooling	Nom	kW	20.5	22.0	23.8	26.0	27.8	30.0
	Heating +7°C	Nom	kW	21.2	23.0	25.0	27.0	29.0	31.0
	Heating -7°C	Nom	kW	24.5	26.6	28.9	31.2	33.5	35.8
COP	Cooling			4.10	4.07	4.00	3.88	3.83	3.73
	Heating			4.46	4.38	4.28	4.20	4.13	4.06
Operation Range	Cooling	Min-Max	°C(DB)	-5°C - 43°C					
	Heating	Min-Max	°C(WB)	-20°C - 16°C					
Compressor	Type			HSS(High Pressure Side Shell) BLDC Inverter Scroll					
	Number of Compressor			4		5		6	
Fan	Type			Propeller fan					
	Motor Type			BLDC motor					
Airflow Rate	Cooling	High	m ³ /min	420		450		460	
Sound Pressure		High	dBA	62.8		63.5		65.0	
Dimension		WxHxD	mm	(1,240 x 1,680 x 760) x 2					
Net weight			kg	260 x 2		260 x 1 + 315 x 1		260 x 1 + 325 x 1	
Refrigerant	Type			R410A					
	Charge		kg	14.0		14.5		16.0	
Refrigerant Oil	Control			EEV					
	Type			FVC68D(PVE)					
Power Supply	Charge		cc	11,000		12,700		14,400	
	Ø / V / Hz			3 / 380 - 415 / 50					
Transmission cable (VCTF-SB)			N x mm ²	2C x 1.0 - 1.5					
Total Piping Length	Max		m	1,000					
Actual longest piping Length *			m	200(225)					
Longest piping length after 1 st branch **			m	40(90)					
Piping level difference	IDU-ODU		m	110					
Piping Connection	Liquid		mm(inch)	Ø19.05(3/4)					
	Gas		mm(inch)	Ø34.9(1 3/8)			Ø 41.3(1 5/8)		
Number of Outdoor Unit				2					
Number of Maximum Connectable Indoor Units ***				49(60)	52(64)	55(64)	58(64)	61(64)	64
Ratio of the Connectable Indoor Units	Min - Max			50 - 160%					
Heat exchanger	Type			Wide Louver fin(Gold-coating)					

Specifications

HP				42	44	46	48	50
Model	Combination unit			ARUN420LT3	ARUN440LT3	ARUN460LT3	ARUN480LT3	ARUN500LT3
	Independent unit			ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN180LT3
				ARUN140LT3	ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN160LT3
Capacity	Cooling	Nom	kW	117.6	123.2	128.8	134.4	140.0
	Heating +7°C	Nom	kW	132.3	138.6	144.9	151.2	157.5
	Heating -7°C	Nom	kW	123.0	124.7	130.7	132.4	142.9
Power Input	Cooling	Nom	kW	29.4	30.9	31.5	33.0	34.8
	Heating +7°C	Nom	kW	30.2	32.0	32.7	34.5	36.5
	Heating -7°C	Nom	kW	34.9	37.0	37.8	39.9	42.2
COP	Cooling			4.00	3.99	4.09	4.07	4.02
	Heating			4.38	4.33	4.43	4.38	4.32
Operation Range	Cooling	Min-Max	°C(DB)	-5°C - 43°C				
	Heating	Min-Max	°C(WB)	-20°C - 16°C				
Compressor	Type			HSS(High Pressure Side Shell) BLDC Inverter Scroll				
	Number of Compressor			6				7
Fan	Type			Propeller fan				
	Motor Type			BLDC motor				
Airflow Rate	Cooling	High	m ³ /min	610		630		660
Sound Pressure		High	dBA	62.8	64.0	64.5		65.4
Dimension		WxHxD	mm	(920 x 1,680 x 760) x 1 + (1,240 x 1,680 x 760) x 2		(1,240 x 1,680 x 760) x 3		
Net weight			kg	240 x 1 + 260 x 2		260 x 3		260 x 2 + 315 x 1
Refrigerant	Type			R410A				
	Charge		kg	20.4		21.0		21.5
Refrigerant Oil	Control			EEV				
	Type			FVC68D(PVE)				
Power Supply	Charge		cc	16,200		16,500		18,200
	Ø / V / Hz			3 / 380 - 415 / 50				
Transmission cable (VCTF-SB)			N x mm ²	2C x 1.0 - 1.5				
Total Piping Length	Max		m	1,000				
Actual longest piping Length *			m	200(225)				
Longest piping length after 1 st branch **			m	40(90)				
Piping level difference	IDU-ODU		m	110				
Piping Connection	Liquid		mm(inch)	Ø19.05(3/4)				
	Gas		mm(inch)	Ø41.3(1 5/8)				
Number of Outdoor Unit				3				
Number of Maximum Connectable Indoor Units ***				64				
Ratio of the Connectable Indoor Units	Min - Max			50 - 130%				
Heat exchanger	Type			Wide Louver fin(Gold-coating)				

Specifications

HP				52	54	56	58	60
Model	Combination unit			ARUN520LT3	ARUN540LT3	ARUN560LT3	ARUN580LT3	ARUN600LT3
	Independent unit			ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3
				ARUN160LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3
				ARUN160LT3	ARUN140LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3
Capacity	Cooling	Nom	kW	145.6	151.2	156.8	162.4	168.0
	Heating +7°C	Nom	kW	163.8	170.1	176.4	182.7	189.0
	Heating -7°C	Nom	kW	148.9	163.8	165.5	175.9	182.0
Power Input	Cooling	Nom	kW	37.0	39.5	41.0	42.8	45.0
	Heating +7°C	Nom	kW	38.5	40.7	42.5	44.5	46.5
	Heating -7°C	Nom	kW	44.5	47.1	49.1	51.4	53.8
COP	Cooling			3.94	3.83	3.82	3.79	3.73
	Heating			4.25	4.18	4.15	4.11	4.06
Operation Range	Cooling	Min-Max	°C(DB)	-5°C - 43°C				
	Heating	Min-Max	°C(WB)	-20°C - 16°C				
Compressor	Type			HSS(High Pressure Side Shell) BLDC Inverter Scroll				
	Number of Compressor			7	8		9	
Fan	Type			Propeller fan				
	Motor Type			BLDC motor				
Airflow Rate	Cooling	High	m³/min	670	710		740	750
Sound Pressure		High	dBA	65.8		66.5	66.8	
Dimension		WxHxD	mm	(1,240 x 1,680 x 760) x 3				
Net weight			kg	260 x 2 + 325 x 1	260 x 1 + 325 x 2		315 x 1 + 325 x 2	325 x 3
Refrigerant	Type			R410A				
	Charge			23.0	25.0		25.5	27.0
	Control			EEV				
Refrigerant Oil	Type			FVC68D(PVE)				
	Charge			18,200	19,900		21,600	
Power Supply			Ø / V / Hz	3 / 380 - 415 / 50				
Transmission cable (VCTF-SB)			N x mm²	2C x 1.0 - 1.5				
Total Piping Length		Max	m	1,000				
Actual longest piping Length *			m	200(225)				
Longest piping length after 1 st branch **			m	40(90)				
Piping level difference		IDU-ODU	m	110				
Piping Connection	Liquid		mm(inch)	Ø19.05(3/4)				
	Gas		mm(inch)	Ø41.3(1 5/8)				
Number of Outdoor Unit				3				
Number of Maximum Connectable Indoor Units ***				64				
Ratio of the Connectable Indoor Units	Min - Max	50 - 130%						
Heat exchanger	Type	Wide Louver fin(Gold-coating)						

Specifications

HP				62	64	66	68	70
Model	Combination unit			ARUN620LT3	ARUN640LT3	ARUN660LT3	ARUN680LT3	ARUN700LT3
	Independent unit			ARUN160LT3	ARUN160LT3	ARUN180LT3	ARUN180LT3	ARUN200LT3
				ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN180LT3	ARUN180LT3
				ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN160LT3
Capacity	Cooling	Nom	kW	173.6	179.2	184.8	190.4	196.0
	Heating +7°C	Nom	kW	195.3	201.6	207.9	214.2	220.5
	Heating -7°C	Nom	kW	174.9	176.6	187.0	197.5	203.5
Power Input	Cooling	Nom	kW	42.5	44.0	45.8	47.6	49.8
	Heating +7°C	Nom	kW	44.2	46.0	48.0	50.0	52.0
	Heating -7°C	Nom	kW	51.1	53.2	55.5	57.8	60.1
COP	Cooling			4.08	4.07	4.03	4.00	3.94
	Heating			4.42	4.38	4.33	4.28	4.24
Operation Range	Cooling	Min-Max	°C(DB)	-5°C - 43°C				
	Heating	Min-Max	°C(WB)	-20°C - 16°C				
Compressor	Type			HSS(High Pressure Side Shell) BLDC Inverter Scroll				
	Number of Compressor			8	9		10	
Fan	Type			Propeller fan				
	Motor Type			BLDC motor				
Airflow Rate	Cooling	High	m³/min	840		870	900	910
Sound Pressure		High	dBA	66.4	67.0	67.3	67.5	
Dimension		WxHxD	mm	(1,240 x 1,680 x 760) x 4				
Net weight			kg	260 x 4		260 x 3 + 315 x 1	260 x 2 + 315 x 2	260 x 2 + 315 x 1 + 325 x 1
Refrigerant	Type			R410A				
	Charge			28.0	28.5	29.0	30.5	
	Control			EEV				
Refrigerant Oil	Type			FVC68D(PVE)				
	Charge			22,000	23,700	25,400		
Power Supply			Ø / V / Hz	3 / 380 - 415 / 50				
Transmission cable (VCTF-SB)			N x mm²	2C x 1.0 - 1.5				
Total Piping Length		Max	m	1,000				
Actual longest piping Length *			m	200(225)				
Longest piping length after 1 st branch **			m	40(90)				
Piping level difference		IDU-ODU	m	110				
Piping Connection	Liquid		mm(inch)	Ø22.2(7/8)				
	Gas		mm(inch)	Ø44.5(1 3/4)		Ø53.98(2)		
Number of Outdoor Unit				4				
Number of Maximum Connectable Indoor Units ***				64				
Ratio of the Connectable Indoor Units	Min - Max	50 - 130%						
Heat exchanger	Type	Wide Louver fin(Gold-coating)						

Specifications

HP				72	74	76	78	80
Model	Combination unit			ARUN720LT3	ARUN740LT3	ARUN760LT3	ARUN780LT3	ARUN800LT3
	Independent unit			ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3
				ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3
				ARUN160LT3	ARUN180LT3	ARUN200LT3	ARUN200LT3	ARUN200LT3
				ARUN160LT3	ARUN160LT3	ARUN160LT3	ARUN180LT3	ARUN200LT3
Capacity	Cooling	Nom	kW	201.6	207.2	212.8	218.4	224.0
	Heating +7°C	Nom	kW	226.8	233.1	239.4	245.7	252.0
	Heating -7°C	Nom	kW	209.6	220.0	226.1	236.6	242.6
Power Input	Cooling	Nom	kW	52.0	53.8	56.0	57.8	60.0
	Heating +7°C	Nom	kW	54.0	56.0	58.0	60.0	62.0
	Heating -7°C	Nom	kW	62.4	64.7	67.1	69.4	71.7
COP	Cooling			3.88	3.85	3.80	3.78	3.73
	Heating			4.20	4.16	4.13	4.10	4.06
Operation Range	Cooling	Min-Max	°C(DB)	-5°C - 43°C				
	Heating	Min-Max	°C(WB)	-20°C - 16°C				
Compressor	Type			HSS(High Pressure Side Shell) BLDC Inverter Scroll				
	Number of Compressor			10	11		12	
Fan	Type			Propeller fan				
	Motor Type			BLDC motor				
Airflow Rate	Cooling	High	m³/min	920	950	960	990	1,000
Sound Pressure		High	dB(A)	67.5	67.8		68.0	
Dimension		WxHxD	mm	(1,240 x 1,680 x 760) x 4				
Net weight	Type			260 x 2 + 325 x 2	260x1 + 315x1 + 325x2	260 x 1 + 325 x 3	315 x 1 + 325 x 3	325 x 4
	Charge			kg	32.0	32.5	34.0	34.5
Refrigerant	Control			EEV				
	Type			FVC68D(PVE)				
Refrigerant Oil	Charge			cc	25,400	27,100		28,800
	Power Supply			Ø / V / Hz	3 / 380 - 415 / 50			
Transmission cable (VCTF-SB)			N x mm²	2C x 1.0 - 1.5				
Total Piping Length			Max	m				
Actual longest piping Length *				m				
Longest piping length after 1 st branch **				m				
Piping level difference			IDU-ODU	m				
Piping Connection	Liquid		mm(inch)	Ø22.2(7/8)				
	Gas		mm(inch)	Ø53.98(2)				
Number of Outdoor Unit				4				
Number of Maximum Connectable Indoor Units ***				64				
Ratio of the Connectable Indoor Units			Min ~ Max	50 ~ 130%				
Heat exchanger	Type			Wide Louver fin(Gold-coating)				

- * () : equivalent length
- ** Conditional Application
To make 40-90m of pipe length after first branch refer to the part of "installation of outdoor units" in PDB
- *** () : the number of max. connectable indoor units, for max indoor unit combination ratio (refer to the table below)

Note :

1. Capacities are based on the following conditions
 Cooling-Indoor temp. 27°C[80.6°F]DB / 19°C[66.2°F]WB
 Outdoor temp. 35°C[95°F]DB / 24°C[75.2°F]WB
 Interconnecting piping length 7.5m
 Level difference of zero
 Heating-Indoor temp. 20°C[68°F]DB / 15°C[59°F]WB
 Outdoor temp. 7°C[44.6°F]DB / 6°C[42.8°F]WB
 Interconnecting piping length 7.5m
 Level difference of zero
2. Capacities are net capacities
3. Due to our policy of innovation some specifications may be changed without notification
4. EEV : Electronic Expansion Valve

CAUTION

- A combination operation over 100% cause to reduce each indoor unit capacity
- Combination ratio(50-200%)

No. of outdoor unit	Connection Capacity
Single unit	200%
Double unit	160%
Triple unit	130%
Over triple unit	130%

We can guarantee the operation only within 130% Combination.

If you want to connect more than 130% combination, please contact us and discuss the requirement like below.

- 1) If the operational capacity of indoor units exceed 130%, then all the indoor units operate under low air flow step mode.
- 2) Over 130%, capacity is same as capacity of 130%, Same remark is valid for power input.