

VRF Outdoor Units ARV7 Series 8 - 144HP







EUROVENT CERTIFIED PERFORMANCE



360 Degrees Protection

The VRF system is equipped with comprehensive sensor-based protections, including safeguards for high and low pressure, compression ratio, fan motor, inverter module, compressor overload, and phase sequence ensuring system reliability and prevent damage from various operational conditions.



50 to 200% Combination Ratio

Compared to traditional VRF with combination ratio of 50-130%, the ARV7 can be extended to 50-200%, and the wider combination ratio allows for more flexible system configuration. This can be applied to long-term part-load operation scenarios, allowing for further reduction in installation costs.



7 Level Power Limit The ARV7 has energy-saving features, including power limiting from 40% to 100%, while optimizing output according to ambient temperature changes.



12-Level Silent Mode

The system controls compressor and fan motor frequencies, maintaining noise levels as low as 43dB(A). It offers six silent levels for both day and night operation and stores the highest ambient temperature. After 7 hours, it switches to nighttime silent mode. Users can activate this feature through parameter C12.



Refrigerant PCB Cooling

The PCB is cooled by refrigerant, It has a higher heat dissipation efficiency compared to air cooling Even in the high temperature of 55 degrees in summer, It can still operate at optimum capacity.



Auto Commissioning

This feature simplifies system calibration, saves time for technicians, minimizes errors, and optimizes performance for energy efficiency and comfort in conditioned spaces.



Tennant Billing Solution

Our VRF tenant billing solution simplifies billing processes for multitenant environments, providing accurate and efficient tracking of individual energy usage.



Remote Monitoring

Our web-based monitoring software offers real-time insights and remote management capabilities, providing a user-friendly interface for seamless monitoring and control of various processes.

AUX

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Specifications

Factory Model			ARV-H250/SR1MV	ARV-H280/SR1MV	ARV-H330/SR1MV	ARV-H400/SR1MV	ARV-H450/SR1MV
Power Supply		V~,Hz,Ph	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3
Cooling	Capacity	kW	25.2	28	33.5	40	45
	Input	kW	5.31	6.11	8.48	9.90	11.82
	Current	А	8.49	9.77	13.56	15.83	18.90
	EER	w/w	4.75	4.58	3.95	4.04	3.81
Heating	Capacity	kW	25.2	28.0	33.5	40.0	45.0
	Input	kW	4.60	5.23	6.38	8.25	9.78
	Current	A	7.36	8.36	10.20	13.19	15.64
	СОР	w/w	5.48	5.35	5.25	4.85	4.60
Max. Input Consumption		kW	11	11.7	13.20	18.50	19.20
Max. Current		A	18	18.7	21.10	29.50	30.60
Circuit breaker		А	32	32	40	50	50
	Quantity		1	1	1	1	1
	Brand		Hitachi	Hitachi	Hitachi	Hitachi	Hitachi
DC Inv.Compressor	RPM	rps	15~140	15~140	15~140	10~130	10~130
	Input	W	8700	8700	8700	8130	8130
	Operating Frequency	Hz	45~420	45~420	45~420	30~390	30~390
Outdoor Fan Motor	Туре		DC Inv	DC Inv	DC Inv	DC Inv	DC Inv
	Brand		Panasonic	Panasonic	Panasonic	Panasonic	Panasonic
	Output Power x Fan quantity	W	750	750	750	450×2	450×2
	Speed	r/min	825	825	825	1005	1005
	Number Of Row		2	2	3	2	2
Outdoor Coil	Fin Material		Hydrophilic alu.	Hydrophilic alu.	Hydrophilic alu.	Hydrophilic alu.	Hydrophilic alu.
	Tube Outside Dia.	mm	ϕ 7, Inner grooved	ϕ 7, Inner grooved	ϕ 7, Inner grooved	$_{\phi}$ 7, Inner grooved	ϕ 7, Inner grooved
Air Flow Volume		CFM	7059	7059	7059	8235	8235
		m³/h	12000	12000	12000	14000	14000
Noise Level		dB(A)	43-58	43-58	43-58	43-61	43-61
Dimension	Net	mm	990×765× 1635	990×765×1635	990×765×1635	1340×765×1635	1340×765×1635
(W×D×H)	Packing	mm	1030×825×1865	1030×825×1865	1030×825×1865	1395×815×1865	1395×815×1865
	Net	kg	215	215	230	265	265
Weight	Gross	kg	225	225	240	280	280
Refrigerant	Туре		R410a	R410a	R410a	R410a	R410a
type/Quantity	Charged Volume	kg	10	10	14	14	14
	Liquid Side	mm	φ12.7	φ12.7	φ12.7	φ15.88	φ15.88
Refrigerant Piping	Gas Side	mm	φ22.2	φ22.2	φ22.2	φ28.6	φ28.6
	Max. Length	m	1000	1000	1000	1000	1000
	Max. Height	m	110/130	110/130	110/130	110/130	110/130
Ambient Temp (Cooling/Heating)		°C	-15~55/-30~24	-15~55/-30~24	-15~55/-30~24	-15~55/-30~24	-15~55/-30~24
Power wiring (ODU) r		mm ²	5X4	5X6	5X6	5X6	5X6
Wiring specification	A.B signal wiring (ODU)	mm ²	2X0.75	2X0.75	2X0.75	2X0.75	2X0.75
	A.B signal wiring (IDU)	mm ²	2X0.75	2X0.75	2X0.75	2X0.75	2X0.75

AUX

Specifications

Factory Model			ARV-H500/SR1MV	ARV-H560/SR1MV	ARV-H610/SR1MV	ARV-H680/SR1MV	ARV-H730/SR1MV
Power Supply		V~,Hz,Ph	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3
Cooling	Capacity	kW	50.4	56	61.5	68.0	73.0
	Input	kW	12.63	15.34	18.90	18.52	20.7
	Current	А	20.20	24.53	30.23	28.14	31.45
	EER	w/w	3.99	3.65	3.25	3.67	3.53
Heating	Capacity	kW	50.4	56.0	61.5	75.0	81.5
	Input	kW	11.69	13.83	15.44	18.90	20.69
	Current	A	18.70	22.12	24.69	28.72	31.44
	СОР	w/w	4.31	4.05	3.98	3.97	3.94
Max. Input Consumption		kW	26.10	26.60	27.40	31.10	31.50
Max. Current		A	38.50	39.30	40.60	49.80	50.40
Circuit breaker		A	63	63	63	63	63
DC Inv.Compressor	Quantity		2	2	2	2	2
	Brand		Hitachi	Hitachi	Hitachi	Hitachi	Hitachi
	RPM	rps	15~140	15~140	15~140	15~140	15~140
	Input	W	8700	8700	8700	8700	8700
	Operating Frequency	Hz	45~420	45~420	45~420	45~420	45~420
	Туре		DC Inv	DC Inv	DC Inv	DC Inv	DC Inv
Outdoor Fan Motor	Brand		Panasonic	Panasonic	Panasonic	SHANGQI	SHANGQI
	Output Power x Fan quantity	W	450×2	450×2	450×2	1000×2	1000×2
	Speed	r/min	1005	1005	1005	930	930
Outdoor Coil	Number Of Row		3	3	3	2	2
	Fin Material		Hydrophilic alu.	Hydrophilic alu.	Hydrophilic alu.	Hydrophilic alu.	Hydrophilic alu.
	Tube Outside Dia.	mm	$_{\phi}$ 7, Inner grooved	ϕ 7, Inner grooved	$_{\phi}$ 7, Inner grooved	ϕ 7, Inner grooved	ϕ 7, Inner grooved
Air Flow Volume		CFM	9412	9412	9412	17059	17059
		m³/h	16000	16000	16000	29000	29000
Noise Level		dB(A)	43-63	43-63	43-63	43-62	43-62
Dimension	Net	mm	1340×765×1635	1340×765×1635	1340×765×1635	1850×825×1760	1850×825×1760
(W×D×H)	Packing	mm	1395×815×1865	1395×815×1865	1395×815×1865	1925×930×1930	1925×930×1930
Waight	Net	kg	330	330	330	388	388
Weight	Gross	kg	345	345	345	411	411
Refrigerant	Туре		R410a	R410a	R410a	R410a	R410a
type/Quantity	Charged Volume	kg	16	16	16	19	19
Refrigerant Piping	Liquid Side	mm	_φ 15.88	_φ 15.88	_φ 15.88	_φ 19.05	_φ 19.05
	Gas Side	mm	φ28.6	φ28.6	_φ 28.6	_φ 35.0	_φ 35.0
	Max. Length	m	1000	1000	1000	1000	1000
	Max. Height	m	110/130	110/130	110/130	110/130	110/130
Ambient Temp (Cooling/Heating)		°C	-15~55/-30~24	-15~55/-30~24	-15~55/-30~24	-15~55/-30~24	-15~55/-30~24
Power wiring (ODU)		mm²	5X10	5X10	5X16	5X16	5X16
Wiring specification	A.B signal wiring (ODU)	mm²	2X0.75	2X0.75	2X0.75	2X0.75	2X0.75
	A.B signal wiring (IDU)	mm²	2X0.75	2X0.75	2X0.75	2X0.75	2X0.75

Specifications

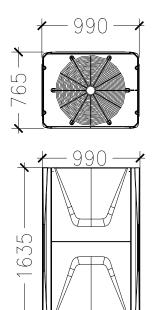
Factory Model			ARV-H785/SR1MV	ARV-H850/SR1MV	ARV-H900/SR1MV	ARV-H950/SR1MV	ARV-H1010SR1MV
Power Supply		V~,Hz,Ph	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3	380~415,50/60,3
Cooling	Capacity	kW	78.5	85.0	90.0	95.2	101.0
	Input	kW	23.55	26.48	29.42	31.64	33.92
	Current	А	35.78	40.23	44.70	48.07	51.54
	EER	w/w	3.33	3.21	3.06	3.01	2.98
Heating	Capacity	kW	87.5	95.0	100.0	106.0	112.0
	Input	kW	23.90	27.05	29.32	31.65	33.84
	Current	A	36.31	41.10	44.55	48.09	51.42
	СОР	w/w	3.66	3.51	3.41	3.35	3.31
Max. Input Consi	umption	kW	31.90	35.35	35.65	38.70	39.00
Max. Current		А	51.00	56.50	57.00	63.50	64.00
Circuit breaker		А	63	80	80	80	80
DC Inv.Compressor	Quantity		2	2	2	2	2
	Brand		Hitachi	Hitachi	Hitachi	Hitachi	Hitachi
	RPM	rps	15~140	10~130/15~140	10~130/15~140	10~130	10~130
	Input	W	8700	8130/8700	8130/8700	8130	8130
	Operating Frequency	Hz	45~420	30~390/45~420	30~390/45~420	30~390	30~390
	Туре		DC Inv	DC Inv	DC Inv	DC Inv	DC Inv
Outdoor Fan	Brand		SHANGQI	SHANGQI	SHANGQI	SHANGQI	SHANGQI
Motor	Output Power x Fan quantity	W	1000×2	1000×2	1000×2	1000×2	1000×2
	Speed	r/min	930	930	930	930	930
Outdoor Coil	Number Of Row		2	3	3	3	3
	Fin Material		Hydrophilic alu.	Hydrophilic alu.	Hydrophilic alu.	Hydrophilic alu.	Hydrophilic alu.
	Tube Outside Dia.	mm	$_{\phi}$ 7, Inner grooved	$_{\phi}$ 7, Inner grooved	ϕ 7, Inner grooved	$_{\phi}$ 7, Inner grooved	ϕ 7, Inner grooved
• · - · · · · ·		CFM	17059	17647	17647	17647	17647
Air Flow Volume		m³/h	29000	30000	30000	30000	30000
Noise Level		dB(A)	43-63	43-64	43-64	43-66	43-66
Dimension	Net	mm	1850×825×1760	1850×825×1760	1850×825×1760	1850×825×1760	1850×825×1760
(W×D×H)	Packing	mm	1925×930×1930	1925×930×1930	1925×930×1930	1925×930×1930	1925×930×1930
	Net	kg	388	422	422	430	430
Weight	Gross	kg	411	445	445	453	453
Refrigerant	Туре		R410a	R410a	R410a	R410a	R410a
type/Quantity	Charged Volume	kg	19	20	20	21	21
	Liquid Side	mm	φ22.2	φ22.2	φ22.2	φ22.2	φ22.2
Refrigerant Piping	Gas Side	mm	_φ 35.0	_φ 35.0	_φ 35.0	_φ 35.0	_φ 35.0
	Max. Length	m	1000	1000	1000	1000	1000
	Max. Height	m	110/130	110/130	110/130	110/130	110/130
Ambient Temp (Cooling/Heating)		°C	-15~55/-30~24	-15~55/-30~24	-15~55/-30~24	-15~55/-30~24	-15~55/-30~24
	Power wiring (ODU)	mm ²	5X16	5X25	5X25	5X25	5X25
Wiring specification	A.B signal wiring (ODU)	mm ²	2X0.75	2X0.75	2X0.75	2X0.75	2X0.75
	A.B signal wiring (IDU)	mm ²	2X0.75	2X0.75	2X0.75	2X0.75	2X0.75

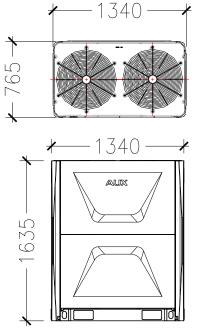
AUX

Dimensions

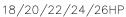
25K, 28K, 33K, 40K, 45K, 50K, 56K, 61K, 68K, 73K

AUX-ARV-25/O, AUX-ARV-28/O, AUX-ARV-33/O, AUX-ARV-40/O, AUX-ARV-40/O, AUX-ARV-45/O, AUX-ARV-50/O, AUX-ARV-56/O, AUX-ARV-68/O, AUX-ARV-73/O



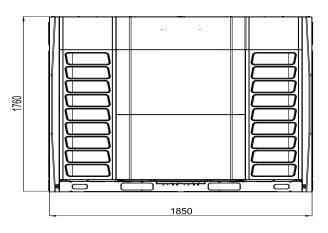


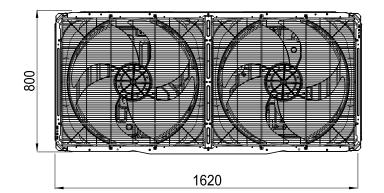
8/10/12/14/16HP



78.5K,85K,90K,95K,10.1K

AUX-ARV-78/O, AUX-ARV-85/O, AUX-ARV-90/O, AUX-ARV-95/O. AUX-ARV-101/O





AUX