Haier

Outdoor Units
MRV-W

R410A

8-12HP

AV08IMWEWA
AV10IMWEWA
AV12IMWEWA

Model		AV08IMWEWA	AV10IMWEWA	AV12IMWEWA
Capacity				
Power Class	HP	8	10	12
Cooling	kW	22,40	28,00	33,50
Heating	kW	25,00	31,50	37,50
Electrical Parameters				
Power supply	Ph-V/Hz	3/380-400/50/60 (5 wires L1+L2+L3+N+T)	3/380-400/50/60 (5 wires L1+L2+L3+N+T)	3/380-400/50/60 (5 wires L1+L2+L3+N+T)
Absorbed power - Cooling	kW	4,50	6,00	7,70
Max absorbed power - Cooling	kW	13,00	15,00	17,00
Absorbed current in cooling.	A	7,20	9,60	12,32
Max absorbed current - Cooling	A	20,79	23,99	27,19
Absorbed power – Heating	kW	4,15	5,80	7,80
Max absorbed power – Heating	kW	13,00	15,00	17,00
Absorbed current in heating	A	6,64	9,28	12,47
Max absorbed current – Heating	A	20,79	23,99	27,19
EER energy class	W/W	4,98	4,67	4,35
COP energy class	W/W	6,02	5,43	4,81
SEER energy class	W/W	5,87	5,76	5,69
SCOP energy class	W/W	6,13	6,01	5,96
Performance				
Water flow (High)	m^3/h	4,80	6,00	7,20
Sound pressure level (High)	dB(A)	50	51	53
Sound power level (High)	dB(A)	61	62	64
Installation - Dimensions - Components				
Unit Dimensions WxDxH	mm	775x545x995		
Packaged unit dimensions WxDxH	mm	875x655x1128		
Net weight / Gross weight	Kg	172/183	172/183	172/183
Compressor type		DC Inverter Scroll	DC Inverter Scroll	DC Inverter Scroll
Quantity and type of the compressor	No.	1 INV	1 INV	1 INV
Refrigerant type		R410A	R410A	R410A
Pre-charged refrigerant qty.	Kg	2	2	2
Ø Liquid side refrigerant pipe	mm (inch)	9,52 (3/8)	9,52 (3/8)	12,7 (1/2)
Ø Gas side refrigerant pipe	mm (inch)	19,05 (3/4)	22,22 (7/8)	25,40 (1)
Ø OU Oil Equalisation Pipe	mm (inch)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
Maximum piping length	m	300	300	300
Max linear piping length (Equivalent/Real)	m	150/120	150/120	150/120
Max height difference between IU and OU (*)	m	50/40	50/40	50/40
Water/gas exchanger				
Type		Double - tube in tube	Double - tube in tube	Double - tube in tube
Material		Copper/steel	Copper/steel	Copper/steel
Water input connection		DN32	DN32	DN32
Water output connection		DN32	DN32	DN32
Exchanger pressure drop	Kpa	35	50	70
Connection type		Internal thread	Internal thread	Internal thread
Max water input pressure	Mpa	1.6	1.6	1.6
Water input temperature range (Cooling/ Heating)	°C	7~45	7~45	7~45
Connectable Indoor Capacity Ratio				
Indoor / Outdoor Capacity Ratio	%	50-130	50-130	50-130
Maximum number of connectable IUs	No.	13	16	19

(*1) 50 m when the outdoor unit is above the indoor unit / 40 m when it is below
The specifications indicated are obtained with the following test conditions: in Cooling mode, Indoor temperature of 27°C DB / 19°C WB and Outdoor temperature of 35°C DB / 24°C WB. In Heating mode, Indoor temperature of 20°C WB and Outdoor temperature of 7°C DB / 6°C WB

Outdoor Units
MRV-W

16-24HP

AV08IMWEWA
AV10IMWEWA
AV12IMWEWA

R410A

Model		AV16IMWEWA AV08IMWEWA AV08IMWEWA	AV18IMWEWA AV08IMWEWA AV10IMWEWA	AV20IMWEWA AV10IMWEWA AV10IMWEWA	AV22IMWEWA AV10IMWEWA AV12IMWEWA	AV24IMWEWA AV12IMWEWA AV12IMWEWA
Capacity						
Power Class	HP	16	18	20	22	24
Cooling	kW	44,80	50,40	56,00	61,50	67,00
Heating	kW	50,00	56,50	63,00	69,00	75,00
Electrical Parameters						
Power supply	Ph-V/Hz	3/380-400/50/60 (5 wires L1+L2+L3+N+T)	3/380-400/50/60 (5 wires L1+L2+L3+N+T)	3/380-400/50/60 (5 wires L1+L2+L3+N+T)	3/380-400/50/60 (5 wires L1+L2+L3+N+T)	3/380-400/50/60 (5 wires L1+L2+L3+N+T)
Absorbed power - Cooling	kW	9,00	10,50	12,00	13,70	15,40
Max absorbed power - Cooling	kW	26,00	28,00	30,00	32,00	34,00
Absorbed current in cooling.	A	14,39	16,79	19,19	21,91	24,63
Max absorbed current - Cooling	A	41,58	44,78	47,98	51,18	54,38
Absorbed power – Heating	kW	8,30	9,95	11,60	13,60	15,60
Max absorbed power – Heating	kW	26,00	28,00	30,00	32,00	34,00
Absorbed current in heating	A	13,27	15,91	18,55	21,75	24,95
Max absorbed current – Heating	A	41,58	44,78	47,98	51,18	54,38
EER energy class	W/W	4,98	4,8	4,67	4,49	4,35
COP energy class	W/W	6,02	5,68	5,43	5,07	4,81
SEER energy class	W/W	5,87	5,82	5,76	5,73	5,69
SCOP energy class	W/W	6,13	6,10	6,01	5,98	5,96
Performance						
Water flow (High)	m^3/h	9,60	10,80	12,00	13,20	14,40
Sound pressure level (High)	dB(A)	53	54	54	55	56
Sound power level (High)	dB(A)	64	65	65	66	67
Installation - Dimensions - Components						
Unit Dimensions WxDxH	mm	775x545x995+775x545x995				
Packaged unit dimensions WxDxH	mm	875x655x1128+875x655x1128				
Net weight / Gross weight	Kg	344/366	344/366	344/366	344/366	344/366
Compressor type		DC Inverter Scroll	DC Inverter Scroll	DC Inverter Scroll	DC Inverter Scroll	DC Inverter Scroll
Quantity and type of the compressor	No.	2 INV	2 INV	2 INV	2 INV	2 INV
Refrigerant type		R410A	R410A	R410A	R410A	R410A
Pre-charged refrigerant qty.	Kg	4	4	4	4	4
Ø Liquid side refrigerant pipe	mm (inch)	12,7 (1/2)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)	15,88 (5/8)
Ø Gas side refrigerant pipe	mm (inch)	28,58 (1 - 1/8)	28,58 (1 - 1/8)	28,58 (1 - 1/8)	28,58 (1 - 1/8)	28,58 (1 - 1/8)
Ø OU Oil Equalisation Pipe	mm (inch)	99,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
Maximum piping length	m	300	300	300	300	300
Max linear piping length (Equivalent/Real)	m	150/120	150/120	150/120	150/120	150/120
Max height difference between IU and OU (*)	m	50/40	50/40	50/40	50/40	50/40
Water/gas exchanger						
Type		Double - tube in tube	Double - tube in tube	Double - tube in tube	Double - tube in tube	Double - tube in tube
Material		Copper/steel	Copper/steel	Copper/steel	Copper/steel	Copper/steel
Water input connection		DN32	DN32	DN32	DN32	DN32
Water output connection		DN32	DN32	DN32	DN32	DN32
Exchanger pressure drop	Kpa	35+35	35+50	50+50	50+70	70+70
Connection type		Internal thread	Internal thread	Internal thread	Internal thread	Internal thread
Max water input pressure	Mpa	1,6	1,6	1,6	1,6	1,6
Water input temperature range (Cooling/ Heating)	°C	7~45	7~45	7~45	7~45	7~45
Connectable Indoor Capacity Ratio						
Indoor / Outdoor Capacity Ratio	%	50-130	50-130	50-130	50-130	50-130
Maximum number of connectable IUs	No.	23	29	33	36	39

(*1) 50 m when the outdoor unit is above the indoor unit / 40 m when it is below
The specifications indicated are obtained with the following test conditions: in Cooling mode, Indoor temperature of 27°C DB / 19°C WB and Outdoor temperature of 35°C DB / 24°C WB. In Heating mode, Indoor temperature of 20°C WB and Outdoor temperature of 7°C DB / 6°C WB

Haier

Outdoor Units
MRV-W

R410A

26-30HP
AV08IMWEWA
AV10IMWEWA

Model		AV26IMWEWA AV08IMWEWA AV08IMWEWA AV10IMWEWA	AV28IMWEWA AV08IMWEWA AV10IMWEWA AV10IMWEWA	AV30IMWEWA AV10IMWEWA AV10IMWEWA AV10IMWEWA
Capacity				
Power Class	HP	26	28	30
Cooling	kW	72,80	78,40	84,00
Heating	kW	81,50	88,00	94,50
Electrical Parameters				
Power supply	Ph-V/Hz	3/380-400/50/60 (5 wires L1+L2+L3+N+T)	3/380-400/50/60 (5 wires L1+L2+L3+N+T)	3/380-400/50/60 (5 wires L1+L2+L3+N+T)
Absorbed power - Cooling	kW	15,00	16,50	18,00
Max absorbed power - Cooling	kW	41.00	43,00	45,00
Absorbed current in cooling.	A	23,99	26,39	28,79
Max absorbed current - Cooling	A	65,57	68,77	71,97
Absorbed power – Heating	kW	14,10	15,75	17,40
Max absorbed power – Heating	kW	41,00	43,00	45,00
Absorbed current in heating	A	22,55	25,19	27,83
Max absorbed current – Heating	A	65,57	68,77	71,97
EER energy class	W/W	4,85	4,75	4,67
COP energy class	W/W	5,78	5,59	5,43
SEER energy class	W/W	5,84	5,8	5,76
SCOP energy class	W/W	6,11	6,1	6,01
Performance				
Water flow (High)	m^3/h	15,60	16,80	18,00
Sound pressure level (High)	dB(A)	55	55	56
Sound power level (High)	dB(A)	66	66	67
Installation - Dimensions - Components				
Unit Dimensions WxDxH	mm	775x545x995+775x545x995+775x545x995		
Packaged unit dimensions WxDxH	mm	875x655x1128+875x655x1128+875x655x1128		
Net weight / Gross weight	Kg	516/549	516/549	516/549
Compressor type		DC Inverter Scroll	DC Inverter Scroll	DC Inverter Scroll
Quantity and type of the compressor	No.	3 INV	3 INV	3 INV
Refrigerant type		R410A	R410A	R410A
Pre-charged refrigerant qty.	Kg	6	6	6
Ø Liquid side refrigerant pipe	mm (inch)	19,05 (3/4)	19,05 (3/4)	19,05 (3/4)
Ø Gas side refrigerant pipe	mm (inch)	31,80 (1-1/4)	31,80 (1-1/4)	31,80 (1-1/4)
Ø OU Oil Equalisation Pipe	mm (inch)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
Maximum piping length	m	300	300	300
Max linear piping length (Equivalent/Real)	m	150/120	150/120	150/120
Max height difference between IU and OU (*)	m	50/40	50/40	50/40
Water/gas exchanger				
Type		Double - tube in tube	Double - tube in tube	Double - tube in tube
Material		Copper/steel	Copper/steel	Copper/steel
Water input connection		DN32	DN32	DN32
Water output connection		DN32	DN32	DN32
Exchanger pressure drop	Kpa	35+35+50	35+50+50	50+50+50
Connection type		Internal thread	Internal thread	Internal thread
Max water input pressure	Mpa	1,6	1,6	1,6
Water input temperature range (Cooling/ Heating)	°C	7~45	7~45	7~45
Connectable Indoor Capacity Ratio				
Indoor / Outdoor Capacity Ratio	%	50-130	50-130	50-130
Maximum number of connectable IUs	No.	43	46	50

(*1) 50 m when the outdoor unit is above the indoor unit / 40 m when it is below
The specifications indicated are obtained with the following test conditions: in Cooling mode, Indoor temperature of 27°C WB / 19°C DB and Outdoor temperature of 35°C WB / 24°C DB. In Heating mode, Indoor temperature of 20°C WB and Outdoor temperature of 7°C WB / 6°C DB

Outdoor Units
MRV-W

R410A

32-36HP
AV10IMWEWA
AV12IMWEWA

Model		AV32IMWEWA AV10IMWEWA AV10IMWEWA AV12IMWEWA	AV34IMWEWA AV10IMWEWA AV12IMWEWA AV12IMWEWA	AV36IMWEWA AV12IMWEWA AV12IMWEWA AV12IMWEWA
Capacity				
Power Class	HP	32	34	36
Cooling	kW	89,50	95,00	100,50
Heating	kW	100,50	106,50	112,50
Electrical Parameters				
Power supply	Ph-V/Hz	3/380-400/50/60 (5 wires L1+L2+L3+N+T)	3/380-400/50/60 (5 wires L1+L2+L3+N+T)	3/380-400/50/60 (5 wires L1+L2+L3+N+T)
Absorbed power - Cooling	kW	19,70	21,40	23,10
Max absorbed power - Cooling	kW	47,00	49,00	51,00
Absorbed current in cooling.	A	31,51	34,23	36,95
Max absorbed current - Cooling	A	75,17	78,37	81,57
Absorbed power – Heating	kW	19,40	21,40	23,40
Max absorbed power – Heating	kW	47,00	49,00	51,00
Absorbed current in heating	A	31,03	34,23	37,42
Max absorbed current – Heating	A	75,17	78,37	81,57
EER energy class	W/W	4,54	4,44	4,35
COP energy class	W/W	5,18	4,98	4,81
SEER energy class	W/W	5,74	5,72	5,69
SCOP energy class	W/W	5,99	5,97	5,96
Performance				
Water flow (High)	m^3/h	19,20	20,40	21,60
Sound pressure level (High)	dB(A)	57	57	58
Sound power level (High)	dB(A)	68	68	69
Installation - Dimensions - Components				
Unit Dimensions WxDxH	mm	775x545x995+775x545x995+775x545x995		
Packaged unit dimensions WxDxH	mm	875x655x1128+875x655x1128+875x655x1128		
Net weight / Gross weight	Kg	516/549	516/549	516/549
Compressor type		DC Inverter Scroll	DC Inverter Scroll	DC Inverter Scroll
Quantity and type of the compressor	No.	3 INV	3 INV	3 INV
Refrigerant type		R410A	R410A	R410A
Pre-charged refrigerant qty.	Kg	6	6	6
Ø Liquid side refrigerant pipe	mm (inch)	19,05 (3/4)	19,05 (3/4)	19,05 (3/4)
Ø Gas side refrigerant pipe	mm (inch)	31,80 (1-1/4)	31,80 (1-1/4)	31,80 (1-1/2)
Ø OU Oil Equalisation Pipe	mm (inch)	9,52 (3/8)	9,52 (3/8)	9,52 (3/8)
Maximum piping length	m	300	300	300
Max linear piping length (Equivalent/Real)	m	150/120	150/120	150/120
Max height difference between IU and OU (*)	m	50/40	50/40	50/40
Water/gas exchanger				
Type		Double - tube in tube	Double - tube in tube	Double - tube in tube
Material		Copper/steel	Copper/steel	Copper/steel
Water input connection		DN32	DN32	DN32
Water output connection		DN32	DN32	DN32
Exchanger pressure drop	Kpa	50+50+70	50+70+70	70+70+70
Connection type		Internal thread	Internal thread	Internal thread
Max water input pressure	Mpa	1,6	1,6	1,6
Water input temperature range (Cooling/ Heating)	°C	7-45	7-45	7-45
Connectable Indoor Capacity Ratio				
Indoor / Outdoor Capacity Ratio	%	50-130	50-130	50-130
Maximum number of connectable IUs	No.	53	56	59

(*1) 50 m when the outdoor unit is above the indoor unit / 40 m when it is below
The specifications indicated are obtained with the following test conditions: in Cooling mode, Indoor temperature of 27°C WB / 19°C DB and Outdoor temperature of 35°C WB / 24°C DB. In Heating mode, Indoor temperature of 20°C WB and Outdoor temperature of 7°C WB / 6°C DB