

Specifications - Heat Pump

Category		R290 (220-240v)					R290 (380-415v)		R32 (220-240v)							R32 (380-415v)			
		40W	70W	90W	120W	160W	120W	160W	40W	60W	80W	100W	120W	140W	160W	100W	120W	140W	160W
									40B	60B	80B	100B	120B	140B	160B	100B	120B	140B	160B
Power Supply (V/Ph/Hz)		220-240/1/50					380-415/3/50		220-240/1/50							380-415/3/50			
Heating 1	Capacity (kW)	4	7.2	9.3	12.1	16.1	12.1	16.1	4.2	6	7.9	12.1	14.3	16.2	19.7	12.1	14.3	16.2	19.7
	COP	5.05	4.88	4.9	4.84	4.75	4.84	4.75	4.89	4.89	4.52	4.61	4.52	4.41	4.61	4.52	4.41	4.61	4.41
Heating 2	Capacity (kW)	4	7.1	9	12.1	15.8	12.1	15.8	4.1	6.1	8.3	9.9	11.6	14.5	15.6	9.9	11.6	14.5	15.6
	COP	3.7	3.68	3.7	3.83	3.68	3.83	3.68	3.47	3.58	3.45	3.48	3.17	3.72	3.48	3.17	3.72	3.48	3.17
Heating 3	Capacity (kW)	4	7	9.2	12.1	15.9	12.1	15.9	4	6	8.1	9.4	11.1	13.9	14.9	9.4	11.1	13.9	14.9
	COP	3.05	3	3.1	2.84	3.21	2.84	3.21	3.15	3.21	3.18	2.99	3.01	3.2	2.99	3.01	3.2	2.99	3.01
Cooling 4	Capacity (kW)	4	7.1	8.6	12.1	16	12.1	16	4.2	6	8.1	12	13.7	14.6	17.6	12	13.7	14.6	17.6
	ERP	4.5	4.86	4.4	4.49	4.43	4.49	4.43	5.41	4.81	4.59	4.54	4.61	4.59	4.54	4.61	4.59	4.54	4.59
Cooling 5	Capacity (kW)	3.9	6.8	8.7	12	16	12	16	4	5.6	7.3	11.3	12	12.9	15.2	11.3	12	12.9	15.2
	ERP	3.1	3.4	3	2.51	3.17	2.51	3.17	3.12	2.94	2.78	2.94	2.66	2.55	2.45	2.94	2.66	2.55	2.45
Operating Temperature	Heating (°C)	-25 to 35																	
	Cooling (°C)	-5 to 43																	
	DHW (°C)	-25 to 43																	
Efficiency	SCOP Class (35°C)	A+++																	
	SCOP Class (55°C)	A+++					A+++							A+++					

Specifications - Heat Pump

Category			HY4500	HY6200	HY8400	HY10000	HY12000	HY14000	HY15000	HY12000/3	HY14000/3	HY15000/3	
Power Supply		V/Ph/Hz	220-240 / 1 / 50					220-240 / 1 / 50			380-415 / 3 / 50		
Heating A7W35	Capacity	kW	4.5	6.2	8.4	10.0	12.0	14.0	15.0	12.0	14.0	15.0	
	Rated Input	kW	0.9	1.3	1.7	2.1	2.5	3.1	3.4	2.5	3.1	3.4	
	COP		5.15	4.90	5.00	4.70	4.80	4.50	4.40	4.80	4.50	4.40	
Heating A7W45	Capacity	kW	4.5	6.4	8.2	10.0	12.0	14.0	15.0	12.0	14.0	15.0	
	Rated Input	kW	1.1	1.7	2.1	2.7	3.2	4.0	4.5	3.2	4.0	4.5	
	COP		4.05	3.80	3.85	3.65	3.70	3.50	3.35	3.70	3.50	3.35	
Heating A7W55	Capacity	kW	4.6	6.2	7.8	9.5	12.0	14.0	15.0	12.0	14.0	15.0	
	Rated Input	kW	1.4	2.0	2.4	3.1	3.9	4.7	5.3	3.9	4.7	5.3	
	COP		3.20	3.10	3.20	3.05	3.10	3.00	2.85	3.10	3.00	2.85	
Heating A2W35	Capacity	kW	4.4	5.6	7.1	8.2	9.1	10.8	12.8	9.1	10.8	12.8	
	Rated Input	kW	1.1	1.4	1.8	2.2	2.4	3.1	4.0	2.4	3.1	4.0	
	COP		4.10	3.90	3.85	3.65	3.80	3.50	3.20	3.80	3.50	3.20	
Heating A-7W35	Capacity	kW	4.5	5.9	7	8.0	10.0	11.5	12.7	10.0	11.5	12.7	
	Rated Input	kW	1.5	2.0	2.3	2.8	3.6	4.3	5.1	3.6	4.3	5.1	
	COP		3.10	2.95	3.00	2.85	2.80	2.70	2.50	2.80	2.70	2.50	
Cooling A35W18	Capacity	kW	4.5	6.5	8.3	10.0	12.0	14.0	16.0	12.0	14.0	16.0	
	Rated Input	kW	0.8	1.3	1.6	2.1	2.7	3.3	4.1	2.7	3.3	4.1	
	COP		5.50	5.10	5.15	4.75	4.50	4.20	3.90	4.50	4.20	3.90	
Cooling A35W7	Capacity	kW	4.7	6.8	7.5	8.9	11.5	12.7	14.0	11.5	12.7	14.0	
	Rated Input	kW	1.3	2.2	2.2	2.7	3.8	4.4	5.1	3.8	4.4	5.1	
	COP		3.65	3.10	3.45	3.25	3.05	2.90	2.75	3.05	2.90	2.75	
SCOP	Average climate, W35°C		A+++						A+++				
	Average climate, W55°C		A++						A++				
ErP sound power level		dB	56	58	60	61	65	69	65	69	65	69	
Refrigerant	Type (GWP)		R290 (3)						R290 (3)				
	Charged volume	g	700			1100	1100	1250					
Unit dimensions (H*W*D)		mm	1299 x 717 x 426			1385 x 865 x 523			1385 x 865 x 523				
Packing dimensions (H*W*D)		mm	1375 x 885 x 475			1465 x 1035 x 560			1465 x 1035 x 560				
Net/Gross weight		kg	90/110		117/139	117/139	135/157			137/159			
Water side connection			G1"BSP		G11/4"BSP			G11/4"BSP					
Outdoor air temperature range	Cooling	°C	-5 to 46						-5 to 46				
	Heating	°C	-25 to 35						-25 to 35				
	DHW	°C	-25 to 46						-25 to 46				
Water setting temperature range	Cooling	°C	5 to 25						5 to 25				
	Heating	°C	25 to 80						25 to 80				
	DHW	°C	20 to 70						20 to 70				

Specifications - Water-cooled VRF

Category			8HP	10HP	12HP	14HP	16HP	18HP	20HP
Power Supply			AC 3φ, 380-415V/50/60Hz				AC 3φ, 380-415V/50/60Hz		
Cooling	Capacity	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0
		kBtu/h	76.5	95.6	114.3	136.5	153.6	170.6	191.1
	Power Input	kW	3.85	5.04	6.32	7.84	8.11	9.43	10.98
	EER	W/W	5.82	5.55	5.30	5.10	5.55	5.30	5.10
Heating	Capacity	kW	25.0	31.5	37.5	45.0	50.0	56.0	63.0
		kBtu/h	85.3	107.5	128.0	153.6	170.6	191.1	215.0
	Power Input	kW	4.08	5.25	6.45	8.03	8.33	9.62	10.86
	COP	W/W	6.12	6.00	5.81	5.60	6.00	5.82	5.80
Sound	Sound Pressure Level	dB(A)	49/51	51/53	53/54	55/57	51/52	53/55	53/55
Water-side Heat Exchanger	Water Temperature	°C	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45	10 to 45
	Rated Water Flow Rate	L/min	76.7	96.0	115.0	138.3	153.3	166.7	193.3
	Water Pressure Drop	MPa	30	45	45	60	40	45	60
	Maximum Pressure Resistance	MPa	20	20	20	20	20	20	20
Weight	Net Weight	kg	166	166	171	171	245	246	246
	Gross Weight	kg	170	170	175	175	250	251	251
Dimensions	External (H x W x D)	mm	1030 × 820 × 560	1030 × 820 × 560	1030 × 820 × 560	1030 × 820 × 560	1000 × 1040 × 560	1000 × 1040 × 560	1000 × 1040 × 560
	Packing (H x W x D)	mm	1180 × 900 × 632	1180 × 900 × 632	1180 × 900 × 632	1180 × 900 × 632	1180 × 1112 × 632	1180 × 1112 × 632	1180 × 1112 × 632
Ref. Piping	Liquid Pipe	mm	Φ 9.53	Φ 9.53	Φ 12.70	Φ 12.70	Φ 12.70	Φ 15.88	Φ 15.88
		inch	3/8	3/8	1/2	1/2	1/2	5/8	5/8
	Low Pressure Gas Pipe	mm	Φ 19.05	Φ 22.20	Φ 25.40	Φ 25.40	Φ 28.60	Φ 28.60	Φ 28.60
	Low Pressure Gas Pipe	inch	3/4	7/8	1	1	1 - 1/8	1 - 1/8	1 - 1/8
	High/Low Pressure Gas Pipe	mm	Φ 15.88	Φ 19.05	Φ 22.20	Φ 22.20	Φ 22.20	Φ 22.20	Φ 22.20
	High/Low Pressure Gas Pipe	inch	5/8	3/4	7/8	7/8	7/8	7/8	7/8
Water Connecting Pipes	Water Pipe		DN32	DN32	DN32	DN32	DN32	DN32	DN32
	Thread of Connector		G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B	G1-1/4B
	Drain Pipe	mm	Outer Diameter 18	Outer Diameter 18	Outer Diameter 18	Outer Diameter 18	Outer Diameter 18	Outer Diameter 18	Outer Diameter 18
Max. Connectable Indoor Units	Recommended		12	15	18	21	23	26	29
	Max.		19	24	29	34	39	43	48