

## R290 serials

### Specifications and Features

- ▶ R290 refrigerant
- ▶ High efficiency energy level A+++ / A+++ (35°C/55°C)
- ▶ Full DC inverter technology
- ▶ Low noise level
- ▶ Smart app control
- ▶ PV connection and OTA function available
- ▶ Designed for hybrid heat pump applications
- ▶ Different zone temperature control



Model	40HR2-ID	60HR2-ID	80HR2-ID	120HR2-ID	160HR2-ID	120HR2-TID	160HR2-TID	180HR2-TID	200HR2-TID	
Power Supply	220-240V~/50Hz					380-415V/3N~/ 50Hz				
<b>Heating Condition-Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out): 30/35°C</b>										
Heating Capacity Range	kW	1.48-4.02	1.52-6.00	2.24-8.01	3.42-12.03	4.68-15.97	3.42-12.03	4.68-15.97	5.79-18.12	5.88-19.88
Heating Power Input Range	kW	0.28-0.80	0.29-1.24	0.44-1.62	0.69-2.52	0.95-3.38	0.69-2.52	0.95-3.38	1.19-3.9	1.22-4.40
Heating Current Input Range	A	1.21-3.47	1.25-5.38	1.89-7.04	2.99-10.94	4.14-14.68	1.17-4.27	1.62-5.73	2.03-6.62	6.62-2.07
COP	W/W	5.32-5.04	5.28-4.85	5.14-4.95	4.98-4.78	4.92-4.73	4.98-4.78	4.92-4.73	4.85-4.65	4.82-4.52
<b>Cooling Condition-Ambient Temp. (DB/WB): 35/24°C, Water Temp. (In/Out):12/7°C</b>										
Cooling Capacity Range	kW	0.93-2.85	1.08-4.02	1.66-5.37	2.50-8.06	3.32-10.70	2.5-8.06	3.32-10.70	3.95-12.53	4.03-13.32
Cooling Power Input Range	kW	0.28-0.93	0.34-1.40	0.50-1.78	0.83-2.95	0.99-3.51	0.83-2.95	0.99-3.51	1.22-4.25	1.34-4.88
Cooling Current Input Range	A	1.20-4.04	1.48-6.07	2.18-7.73	3.62-12.84	4.30-15.25	1.41-5.01	1.68-5.96	2.07-7.21	7.21-2.28
EER	W/W	3.38-3.07	3.17-2.88	3.32-3.02	3.00-2.73	3.36-3.05	3.00-2.73	3.36-3.05	3.25-2.95	3.00-2.73
<b>Hot Water Condition - Ambient Temp. (DB/WB): 20/15°C, Water Temp. (In/Out): 15/55°C</b>										
Hot Water Capacity Range	kW	4.45	6.51	8.49	12.75	16.93	12.75	16.93	19.21	21.07
Heat power Input Range P	KW	1.02	1.47	1.91	2.92	3.90	2.92	3.90	4.40	4.97
Hot Water Current Input Range	A	4.43	6.39	8.30	12.70	16.96	4.96	6.62	7.47	8.44
COP	W/W	4.36	4.43	4.45	4.37	4.34	4.37	4.34	4.37	4.24
<b>ErP level(35°C/55°C)</b>						<b>A+++ / A+++</b>				
Refrigerant/Proper Input	kg	R290/0.3	R290/0.47	R290/0.65	R290/0.9	R290/1.1	R290/0.9	R290/1.1	R290/1.3	R290/1.55
Max. Power Input	kW	1.40	2.10	3.20	4.67	5.80	4.67	5.80	6.67	8.04
Max. Current Input	A	6.10	9.13	13.91	20.30	25.22	7.47	9.28	10.67	12.86
CO2 Equivalent (GWP=3.3)	Ton	0.00099	0.00155	0.00215	0.00297	0.00363	0.00297	0.00363	0.00390	0.00465
Max Outlet Water Temperature	°C	75								
Sound Pressure(1m)	dB(A)	42-48	43-49	43-50	44-52	45-53	44-52	45-53	49-56	49-57
Water Flow	m³/h	0.69	1.03	1.38	2.07	2.75	2.07	2.75	3.12	3.42
Operating Ambient Temperature	°C	-25-45								
Compressor	DC inverter									
Fan Motor Type	DC									
Unit Dimension(L/W/H)	mm	1032*390*711	1032*390*711	1258*440*870	1258*440*870	1258*440*870	1258*440*870	1258*440*870	1255*435*1375	1255*435*1375
Shipping Dimension(L/W/H)	mm	1136*448*846	1136*448*846	1330*470*995	1330*470*995	1330*470*995	1330*470*995	1330*470*995	1325*470*1520	1325*470*1520
Net Weight /Gross Weight	kgs	70/90	70/90	85/110	105/130	115/140	105/130	125/150	175/205	175/205
Load capacity -(20GP/40HQ)		52/165	40/90					20/45		



Metal Cabinet  
1



Metal Cabinet  
2



Plastic Cabinet