Pro Series

R290 DC Inverter Air Source Heat Pumps with CAREL Touch Screen Controller

- Multiple Modes for Comfortable Use
- ERP A+++ High Energy Efficiency
- 75°C Max. Outlet Water Temperature
- -25°C Stable Running Ambient
- Built-in Water Pump
- Integrated Power Tracking
- CAREL Touch Screen Controller
- SG Ready

Dalrada TECHNOLOGY

1 Kingsthorne Park, Livingston EH54 5DB
+44 (0)1506 901312

www.dalradatechnology.com
info@dalradatechnology.com

One-Stop Solution To Meet Various Residential Needs

As a green heating solution for the future, Dalrada heat pumps can provide comfortable heating in winter, cooling in summer, gentle airflow, and a more comfortable overall sensation, while also supporting a 24-hour hot water supply.

Whole House Heating | Central Hot Water | Central Cooling

Hot Water + House Heating | Hot Water + House Cooling

R290 DC Inverter Air Source Heat Pumps Certifications

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R290 Refrigerant

Dalrada has developed brand new products going with R290 refrigerant which is a highly pure propane. It has a low environmental impact and nominal global warming potential (GWP3), meaning it possesses no qualities that can destroy the ozone layer.

R290 also is the preferred hydrocarbon alternative of the Environmental Protection Agency (EPA).

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Smart Touch Screen

The colorful smart touch screen not only looks sleek and stylish, but also responds quickly, and supports multiple modes for easy one-touch setup, making it effortless for users to control the system.

Timing Control:

- Timezone
- Setpoint
- Pre-setting
- Temperature

Multiple Operating Modes:

- Daytime
- ECO mode
- Night mode
- Test mode

Multiple Extended Functions:

- Language Setting
- Temperature Curve
- User Parameters
- Engineering Parameters
- Unit Information

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Smart Control System

Working Principle

Dalrada's self-developed smart control system is equipped with highly integrated control functions, which can be operated via a remote APP. The system is easy to manipulate, stable in performance, and is truly a smart operating system that realizes man-machine separation.

Remote Control with APP and PC Platform

The mobile phone APP and the PC background both can be opened to users. Additionally, local dealers can use the smart data platform to provide remote product inspections for users, offering convenient and prompt assistance in problem resolution.

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Heating in Low Temperature

Regulate heating and cooling using DC inverter compressors and DC inverter controllers; Dalrada DC inverter heat pumps can operate at high frequency to heat water faster. When the temperature reaches the set temperature, it will operate at a low frequency with less energy consumed to maintain the temperature.

Panasonic

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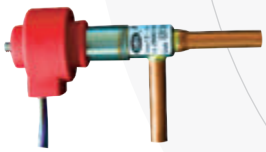
Key Components

We believe that by joining hands and working together, we will be able to create greater value for our customers.we cooperate with leading companies such as Panasonic, CAREL, Grundfos, Copeland, MITSUBISH, Schneider and SANYO to ensure upgraded product quality.

Controller
CAREL Touch Screen Controller 4.3

Condenser
Plate Heat Exchanger

Compressor
Panasonic Rotary Compressor



Expansion valve
CAREL Electronic Expansion valve

Water Pump
Grundfos

4-way valve
SANHUA

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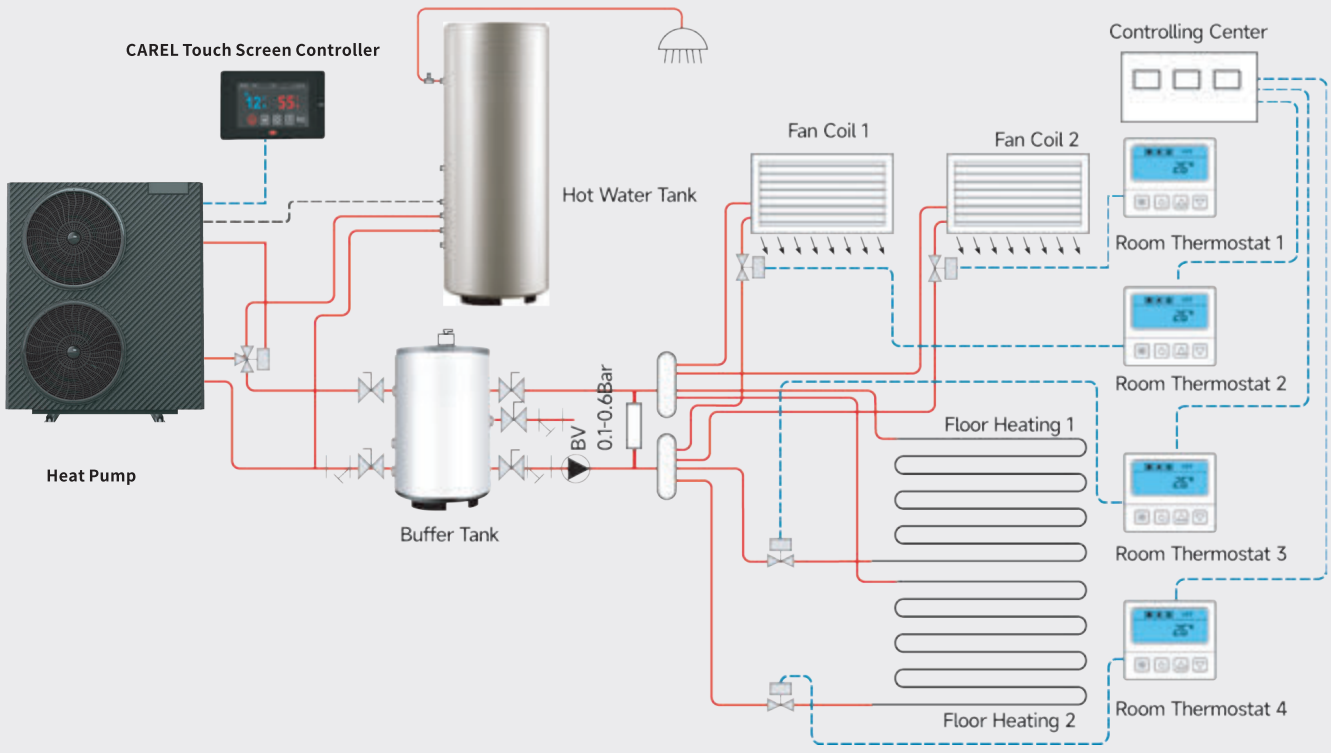
Installation Diagram

- Please select the right mode according to your demand then install it according to the installation diagram. If only hot water function required, pls select heating+hot water mode and then put the hot water sensor into the hot water tank.

- Two-way valve and BV valve are optional for installation. Only if you need to control the temperature by different zone, then pls install both.

- Fan coil can be controlled by linkage with the secondary circulation pump. Meanwhile, a passive linkage thermostat shall be installed.

- The water outlet of the heat pump needs to install an automatic air exhaust valve so that the water system can be discharged to the outside when there is gas.



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Specifications

Model			DH290-9S	DH290-11S	DH290-15S	DH290-18S
Power Supply		V/Hz/Ph	220-240/50/1			
Heating condition: Ambient Temp : 7°C , Outlet water temp 35°C						
Heating Capacity (EN14511-3)		kW	8.2	9.6	12.9	15
C.O.P. (EN14511-3)		W/W	3.95	3.8	3.7	3.83
Max Heating Capacity		kW	9	11	15	18
C.O.P.		W/W	4.14	4.18	4.06	4.12
Heating Capacity Min./Max.		kW	4.14/9.00	5.06/11.00	6.90/15.00	8.28/18.00
Heating Power Input Min./Max.		W	787/2174	953/2632	1307/3695	1489/4369
C.O.P Min./Max.		W/W	4.14/5.26	4.18/5.31	4.06/5.28	4.12/5.56
Heating condition: Ambient Temp : 7°C , Outlet water temp 45°C						
Max Heating Capacity		kW	8.4	10.2	13.7	17.2
C.O.P.		W/W	3.41	3.65	3.50	3.61
Heating Capacity Min./Max.		kW	3.87/8.42	4.71/10.23	6.28/13.65	7.91/17.19
Heating Power Input Min./Max.		W	969/2467	1166/2800	1565/3900	1871/5215
C.O.P Min./Max.		W/W	3.41/4.00	3.65/4.03	3.50/4.01	3.30/4.23
Cooling condition: Ambient Temp : 35°C , Outlet water temp 18°C						
Max Cooling Capacity		kW	8.0	9.7	13.0	16.3
E.E.R.		W/W	3.31	3.54	3.39	3.50
Cooling Capacity Min./Max.		kW	3.68/7.99	4.47/9.72	5.97/12.97	7.51/16.33
Cooling Power Input Min./Max.		W	939/2416	1131/2742	1517/3820	1813/4659
E.E.R. Min./Max.		W/W	3.31/3.92	3.54/3.95	3.39/3.93	3.50/4.14
Cooling condition: Ambient Temp : 35°C , Outlet water temp 7°C						
Max Cooling Capacity		kW	6.8	7.6	10.6	12.4
E.E.R.		W/W	2.50	2.50	2.40	2.40
Cooling Capacity Min./Max.		kW	3.13/6.80	3.50/7.60	4.88/10.60	5.70/12.40
Cooling Power Input Min./Max.		W	908/2720	1005/3040	1410/4417	1565/5167
E.E.R. Min./Max.		W/W	2.50/3.45	2.50/3.48	2.40/3.46	2.40/3.65
Max Power Input		kW	4.36	5.05	6.80	7.83
Max Current		A	20.86	24.16	32.54	37.48
Wire diameter		mm²	4.0	6.0	6.0	6.0
Fuse or circuit breaker		A	32A	32A	40A	50A
Compressor Type			Twin Rotary - 1			
Fan	Quantity		1	1	2	2
	Airflow	m3/h	3000	3500	5000	5500
	Rated Power	W	100	120	200	210
Compressor Type			Plate Heat Exchanger			
Water Side Heat Exchanger	Water Pressure Drop	kPa	20	21	23	25
	Piping Connection	Inch	G1″			
Pump Model		/	UPM4XLK 25-90 130		UPM10L 25-105 130	
Max Water Pump Head		m	9	9	10.5	10.5
Allowable Water Flow	Min./Rated./Max.	L/S	0.27/0.43/0.72	0.33/0.53/0.88	0.45/0.72/1.19	0.54/0.86/1.43
Sound pressure level (1m)		dB(A)	41.2~50.6	40.4~49.2	40.4~50.8	44.7~51
Sound power level (1m)		dB(A)	60.7	59.8	62.1	63.2
SCOP (35/55°C)		kWh	4.76/3.62	4.79/3.66	4.69/3.62	4.80/3.68
Refrigerant		/	R290			
ErP Level (35° C)		/	A+++			
ErP Level (55° C)		/	A++			
Cabinet Type		/	Weather-resistant pp+ Galanized sheet metal + ABS			
Net Weight		kg	112	125	145	147
Carton gross Weight		kg	125	138	160	172
Splint gross Weight		kg	148	161	182	184
Net Dimension(L*D*H)		mm	1110*475*810	1110*475*960	1110*475*1355	1110*475*1355
Carton packing Dimension(L*D*H)		mm	1165*505*960	1165*505*1100	1165*505*1520	1165*505*1520

All technical data is compliant with the guidelines specified in the following standards: EN14511; EN14825:2022; EN12102-1:2022; EN14511-3:2022; EN14511-4:2022 Clause4; (EU) NO. 813:2013; OJ 2014/ C207/02:2014. The SCOP seasonal heating efficiency is determined for temperate climate conditions.

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info@dalradatechnology.com

Specifications

Unit Name			R290 DC Inverter Air Source Heat Pumps (Monoblock Type)			
Model			DCT030V4P	DCT040V4P	DCT050V4P	DCT060V4P
Power Supply / Refrigerant		V/Hz/P	220-240/50/1 - R290	220-240/50/1 - R290	220-240/50/1 - R290	220-240/50/1 - R290
Max. Heating Capacity (A7℃/W35℃)		kW	9	11	15	18
C.O.P (A7℃/W35℃)		W/W	4.25	4.35	4.45	4.46
Heating Capacity Min./Max.(A7℃/W35℃)		kW	4.14 / 9.00	5.06 / 11.00	6.90 / 15.00	8.28 / 18.00
Heating Power Input Min./Max.(A7℃/W35℃)		W	812 / 2118	969 / 2529	1292 / 3371	1547 / 4036
C.O.P Min./Max.(A7℃/W35℃)		W/W	4.25 / 5.10	4.35 / 5.22	4.45 / 5.34	4.46 / 5.35
Max. Heating Capacity(A7℃/W45℃)		kW	8.6	10.6	14.4	17.3
C.O.P (A7℃/W45℃)		W/W	3.40	3.48	3.56	3.57
Heating Capacity Min./Max.(A7℃/W45℃)		kW	3.97 / 8.64	4.86 / 10.56	6.62 / 14.40	7.95 / 17.28
Heating power input Min./Max.(A7℃/W45℃)		W	1025 / 2541	1224 / 3034	1632 / 4045	1954 / 4843
C.O.P Min./Max.(A7℃/W45℃)		W/W	3.40 / 3.88	3.48 / 3.97	3.56 / 4.06	3.57 / 4.07
Max. Cooling Capacity(A35℃/W18℃)		kW	8.2	10.0	13.7	16.4
E.E.R (A35℃/W18℃)		W/W	3.30	3.38	3.45	3.46
Cooling Capacity Min./Max.(A35℃/W18℃)		kW	3.78 / 8.21	4.61 / 10.03	6.29 / 13.68	7.55 / 16.42
Cooling Power Input Min./Max.(A35℃/W18℃)		W	994 / 2489	1187 / 2972	1582 / 3962	1894 / 4743
E.E.R Min./Max.(A35℃/W18℃)		W/W	3.30 / 3.80	3.38 / 3.89	3.45 / 3.98	3.46 / 3.99
Max. Cooling Capacity(A35℃/W7℃)		kW	5.8	7.1	9.6	11.6
E.E.R(A35℃/W7℃)		W/W	2.64	2.70	2.76	2.77
Cooling Capacity Min./Max.(A35℃/W7℃)		kW	2.66 / 5.79	3.25 / 7.08	4.44 / 9.65	5.33 / 11.58
Cooling Power Input Min./Max.(A35℃/W7℃)		W	797 / 2194	951 / 2620	1268 / 3492	1518 / 4181
E.E.R Min./Max.(A35℃/W7℃)		W/W	2.64 / 3.34	2.70 / 3.42	2.76 / 3.50	2.77 / 3.51
Max Power Input		kW	3.18	3.79	5.06	6.05
Max Current		A	15.20	18.15	24.19	28.97
Wire diameter		mm²	4.0	6.0	6.0	6.0
Fuse or circuitbreakerer		A	25A	32A	40A	40A
Compressor	Type - Quantity/System		Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1
Fan	Quantity		1	1	2	2
	Airflow	m3/h	3000	3500	5000	5500
	Rated power	W	100	120	200	210
Water Side Heat Exchanger	Type		Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger
	Water Pressure Drop	kPa	20	21	23	25
	Piping Connection	Inch	G1"	G1"	G1"	G1"
Pump model		/	UPM4XLK 25-90 130	UPM4XLK 25-90 130	UPM25-105 130	UPM25-105 130
Max Water Pump Head		m	9	9	10.5	10.5
Allowable Water Flow	Min./Rated./Max.	L/S	0.27 / 0.43 / 0.72	0.33 / 0.53 / 0.88	0.45 / 0.72 / 1.19	0.54 / 0.86 / 1.43
Noise Level		dB(A)	59	60	61	62
Net Dimension(L×D×H)		mm	1110*475*810	1110*475*960	1110*475*1355	1110*475*1355
Carton packing Dimension(L×D×H)		mm	1165*490*960	1165*490*1100	1165*490*1520	1165*490*1520
Splint packing Dimension(L×D×H)		mm	1200*540*970	1200*540*1120	1200*540*1510	1200*540*1510
Net Weight		kg	85	105	124	124
Carton gross Weight		kg	105	120	150	150
Splint gross Weight		kg	116	126	161	161
Operation Ambint Temp.(℃)			-25~45			
Operation water Temp.(℃)			10~70(DHW)			
Operation water Temp.(℃)			10~70(Heating)			
Operation water Temp.(℃)			12~30(Cooling)			
Note: (1) Heating condition: water inlet/outlet temperature: 30℃/35℃, Ambient temperature: DB 7℃/WB 6℃;						
(2) Heating condition: water inlet/outlet temperature: 40℃/45℃, Ambient temperature: DB 7℃/WB 6℃;						
(3) Cooling condition: water inlet/outlet temperature: 23℃/18℃, Ambient temperature: DB35℃/WB24℃;						
(4) Cooling condition: water inlet/outlet temperature: 12℃/7℃, Ambient temperature: DB35℃/WB24℃;						

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Specifications

Unit Name			R290 DC Inverter Air Source Heat Pumps (Monoblock Type)			
Model			DCT-030V4P	DCT-040V4P	DCT-050V4P	DCT-060V4P
Power Supply / Refrigerant		V/Hz/P	380-420/50/3 - R290	380-420/50/3 - R290	380-420/50/3 - R290	380-420/50/3 - R290
Max. Heating Capacity (A7℃/W35℃)		kW	9	11	15	18
C.O.P (A7℃/W35℃)		W/W	4.25	4.35	4.45	4.46
Heating Capacity Min./Max.(A7℃/W35℃)		kW	4.14 / 9.00	5.06 / 11.00	6.90 / 15.00	8.28 / 18.00
Heating Power Input Min./Max.(A7℃/W35℃)		W	812 / 2118	969 / 2529	1292 / 3371	1547 / 4036
C.O.P Min./Max.(A7℃/W35℃)		W/W	4.25 / 5.10	4.35 / 5.22	4.45 / 5.34	4.46 / 5.35
Max. Heating Capacity(A7℃/W45℃)		kW	8.6	10.6	14.4	17.3
C.O.P (A7℃/W45℃)		W/W	3.40	3.48	3.56	3.57
Heating Capacity Min./Max.(A7℃/W45℃)		kW	3.97 / 8.64	4.86 / 10.56	6.62 / 14.40	7.95 / 17.28
Heating power input Min./Max.(A7℃/W45℃)		W	1025 / 2541	1224 / 3034	1632 / 4045	1954 / 4843
C.O.P Min./Max.(A7℃/W45℃)		W/W	3.40 / 3.88	3.48 / 3.97	3.56 / 4.06	3.57 / 4.07
Max. Cooling Capacity(A35℃/W18℃)		kW	8.2	10.0	13.7	16.4
E.E.R (A35℃/W18℃)		W/W	3.30	3.38	3.45	3.46
Cooling Capacity Min./Max.(A35℃/W18℃)		kW	3.78 / 8.21	4.61 / 10.03	6.29 / 13.68	7.55 / 16.42
Cooling Power Input Min./Max.(A35℃/W18℃)		W	994 / 2489	1187 / 2972	1582 / 3962	1894 / 4743
E.E.R Min./Max.(A35℃/W18℃)		W/W	3.30 / 3.80	3.38 / 3.89	3.45 / 3.98	3.46 / 3.99
Max. Cooling Capacity(A35℃/W7℃)		kW	5.8	7.1	9.6	11.6
E.E.R(A35℃/W7℃)		W/W	2.64	2.70	2.76	2.77
Cooling Capacity Min./Max.(A35℃/W7℃)		kW	2.66 / 5.79	3.25 / 7.08	4.44 / 9.65	5.33 / 11.58
Cooling Power Input Min./Max.(A35℃/W7℃)		W	797 / 2194	951 / 2620	1268 / 3492	1518 / 4181
E.E.R Min./Max.(A35℃/W7℃)		W/W	2.64 / 3.34	2.70 / 3.42	2.76 / 3.50	2.77 / 3.51
Max Power Input		kW	3.18	3.79	5.06	6.05
Max Current		A	6.70	8.00	10.67	12.78
Wire diameter		mm²	2.5	2.5	4.0	4.0
Fuse or circuitbreakerer		A	13A	16A	20A	20A
Compressor	Type - Quantity/System		Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1	Twin Rotary - 1
Fan	Quantity		1	1	2	2
	Airflow	m3/h	3000	3500	5000	5500
	Rated power	W	100	120	200	210
Water Side Heat Exchanger	Type		Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger	Plate Heat Exchanger
	Water Pressure Drop	kPa	20	21	23	25
	Piping Connection	Inch	G1"	G1"	G1"	G1"
Pump model		/	UPM4XLK 25-90 130	UPM4XLK 25-90 130	UPM25-105 130	UPM25-105 130
Max Water Pump Head		m	9	9	10.5	10.5
Allowable Water Flow	Min./Rated./Max.	L/S	0.27 / 0.43 / 0.72	0.33 / 0.53 / 0.88	0.45 / 0.72 / 1.19	0.54 / 0.86 / 1.43
Noise Level		dB(A)	59	60	61	62
Net Dimension(L×D×H)		mm	1110*475*810	1110*475*960	1110*475*1355	1110*475*1355
Carton packing Dimension(L×D×H)		mm	1165*490*960	1165*490*1100	1165*490*1520	1165*490*1520
Splint packing Dimension(L×D×H)		mm	1220*540*970	1200*540*1120	1200*540*1510	1200*540*1510
Net Weight		kg	88	105	124	124
Carton gross Weight		kg	105	120	150	150
Splint gross Weight		kg	116	126	161	161
Operation Ambint Temp.(℃)			-25~45			
Operation water Temp.(℃)			10~70(DHW)			
Operation water Temp.(℃)			10~70(Heating)			
Operation water Temp.(℃)			12~30(Cooling)			
Note: (1) Heating condition: water inlet/outlet temperature: 30℃/35℃, Ambient temperature: DB 7℃/WB 6℃;						
(2) Heating condition: water inlet/outlet temperature: 40℃/45℃, Ambient temperature: DB 7℃/WB 6℃;						
(3) Cooling condition: water inlet/outlet temperature: 23℃/18℃, Ambient temperature: DB35℃/WB24℃;						
(4) Cooling condition: water inlet/outlet temperature: 12℃/7℃, Ambient temperature: DB35℃/WB24℃;						

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Specifications

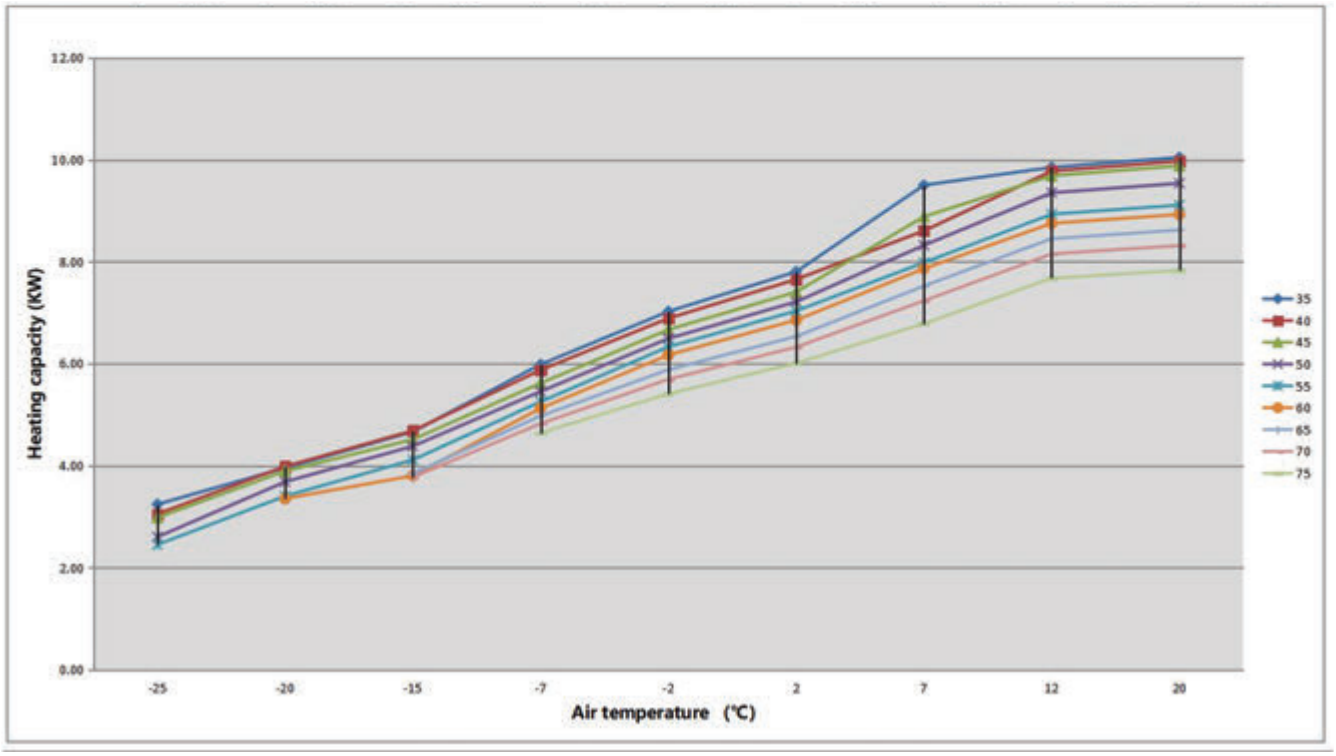
Dalrada Home DH290-9S

R290 Refrigerant/High Safety Performance/ErP A+++

Power Supply	V/Hz/Ph	220-240/50/1
Sound Pressure (1m)	dB(A)	41.2~50.6
Refrigerant	/	R290
ErP Level(35° C)	/	A+++
Cabinet Type	/	Weather-resistant pp+Galanizedsheet metal+ASA
Net Weight	kg	105
Net Dimension(L*D*H)	mm	1110×475×810

DH290-9S Heating capacity

Model	DH290-9S								
Air temp ℃	Heating capacity (kW)								
	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75
-25	3.24	3.05	2.98	2.60	2.45				
-20	3.95	3.98	3.89	3.68	3.40	3.35			
-15	4.66	4.68	4.51	4.38	4.11	3.80	3.85	3.77	
-7	5.98	5.87	5.61	5.45	5.25	5.12	4.97	4.82	4.64
-2	7.02	6.89	6.66	6.49	6.33	6.17	5.88	5.69	5.40
2	7.80	7.65	7.40	7.21	7.03	6.85	6.53	6.32	6.00
7	9.50	8.60	8.88	8.32	7.98	7.86	7.52	7.23	6.78
12	9.85	9.78	9.68	9.35	8.93	8.75	8.45	8.15	7.67
20	10.05	9.97	9.88	9.54	9.11	8.93	8.62	8.31	7.83



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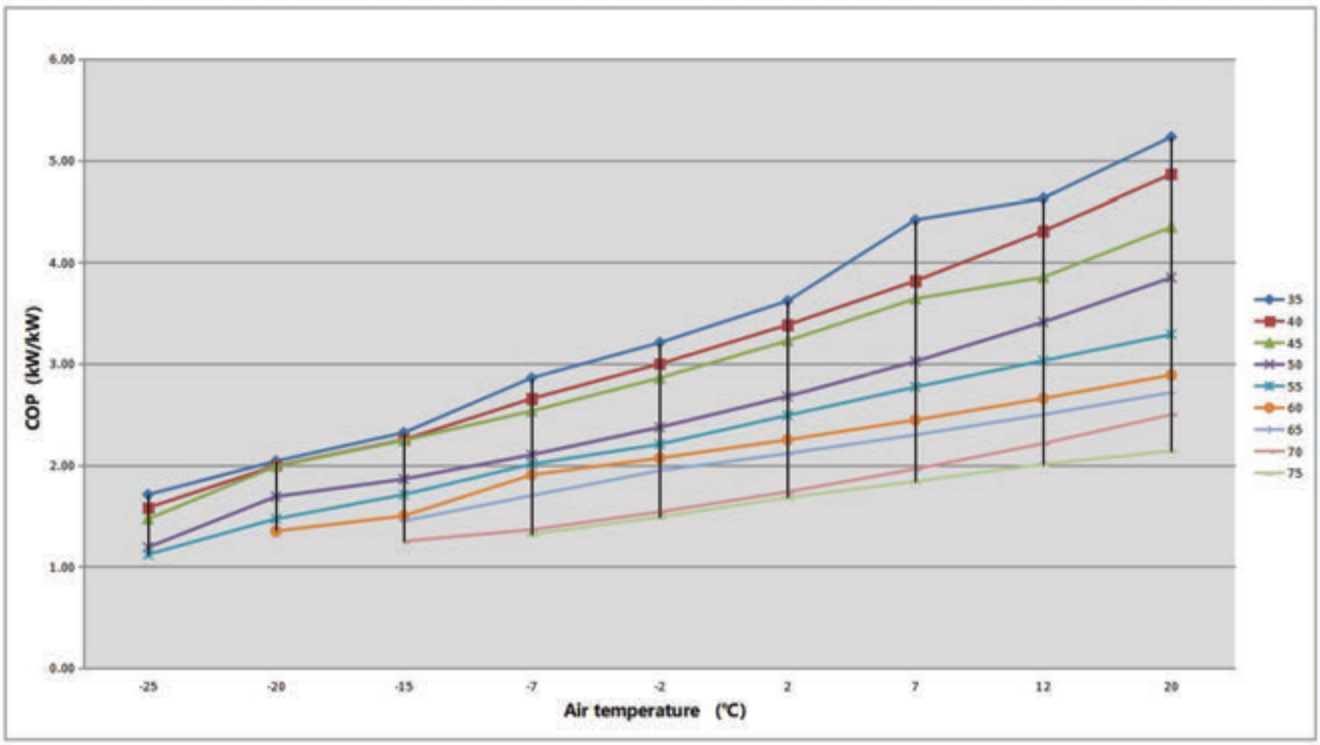
+44 (0)1506 901312

www.dalradatechnology.com
info@dalradatechnology.com

Specifications

DH290-9S COP

Heating Capacity at Different Conditions									
Model	DH290-9S								
Air temp ℃	COP （kW/kW）								
	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75
-25	1.71	1.58	1.47	1.19	1.12				
-20	2.04	1.99	1.99	1.69	1.47	1.35			
-15	2.32	2.25	2.24	1.86	1.71	1.50	1.45	1.25	
-7	2.86	2.66	2.53	2.10	2.01	1.90	1.70	1.36	1.32
-2	3.21	3.00	2.86	2.37	2.21	2.07	1.95	1.54	1.49
2	3.62	3.38	3.23	2.68	2.49	2.25	2.11	1.74	1.68
7	4.42	3.82	3.64	3.02	2.77	2.44	2.30	1.96	1.84
12	4.63	4.31	3.85	3.41	3.03	2.66	2.50	2.21	2.01
20	5.23	4.86	4.35	3.85	3.29	2.89	2.72	2.50	2.14



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Specifications

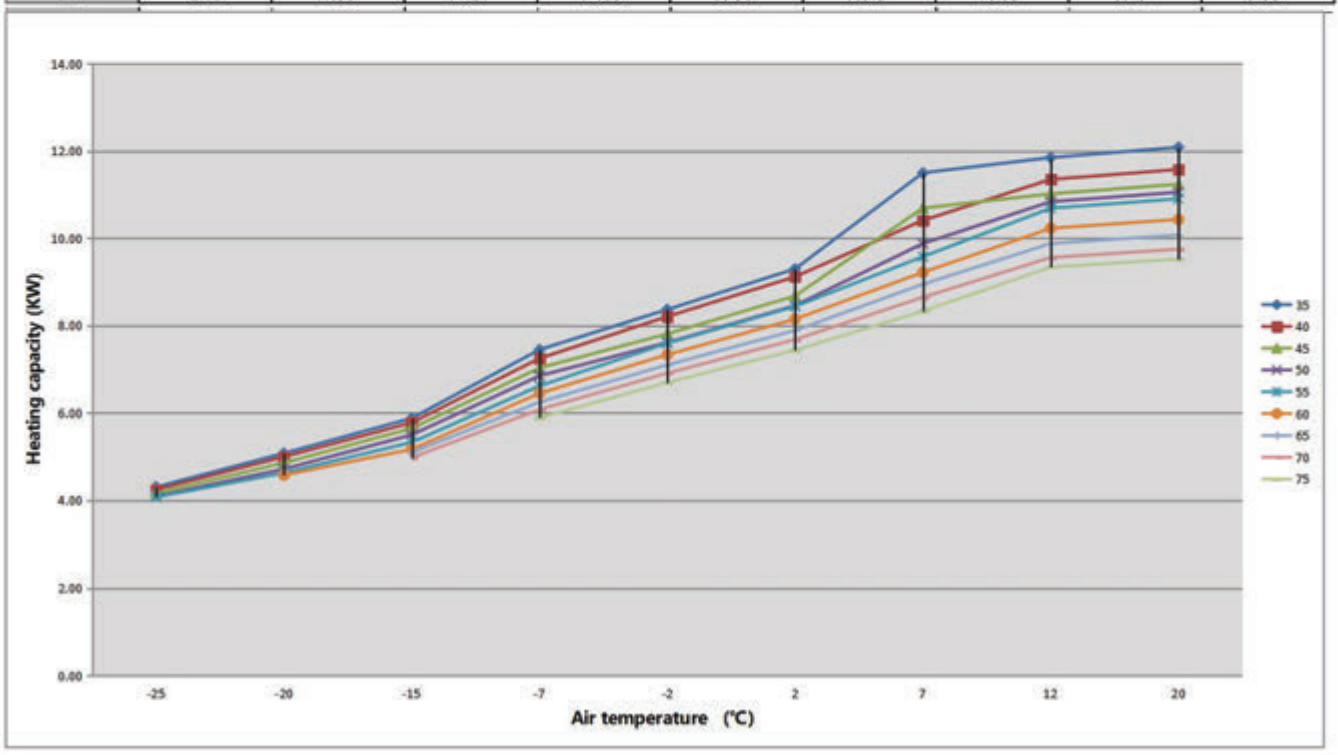
Dalrada Home DH290-11S

R290 Refrigerant/High Safety Performance/ErP A+++

Power Supply	V/Hz/Ph	220-240/50/1
Sound Pressure (1m)	dB(A)	41.1~52
Refrigerant	/	R290
ErP Level(35° C)	/	A+++
Cabinet Type	/	Weather-resistant pp+Galanizedsheet metal+ASA
Net Weight	kg	88
Net Dimension(L*D*H)	mm	1110×475×960

DH290-11S Heating capacity

Heating Capacity at Different Conditions									
Model	DH290-11S								
Air temp ℃	Heating capacity (kW)								
	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75
-25	4.31	4.25	4.17	4.10	4.08				
-20	5.08	5.00	4.86	4.72	4.63	4.58			
-15	5.88	5.78	5.65	5.50	5.33	5.17	5.10	4.98	
-7	7.45	7.25	7.03	6.85	6.62	6.45	6.25	6.08	5.89
-2	8.37	8.21	7.81	7.61	7.60	7.34	7.10	6.91	6.70
2	9.30	9.12	8.68	8.46	8.44	8.15	7.89	7.68	7.44
7	11.50	10.41	10.70	9.88	9.58	9.22	8.95	8.65	8.33
12	11.85	11.35	11.02	10.84	10.69	10.23	9.88	9.56	9.34
20	12.09	11.58	11.24	11.06	10.90	10.43	10.08	9.75	9.53



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1 Kingsthorne Park, Livingston EH54 5DB
+44 (0)1506 901312

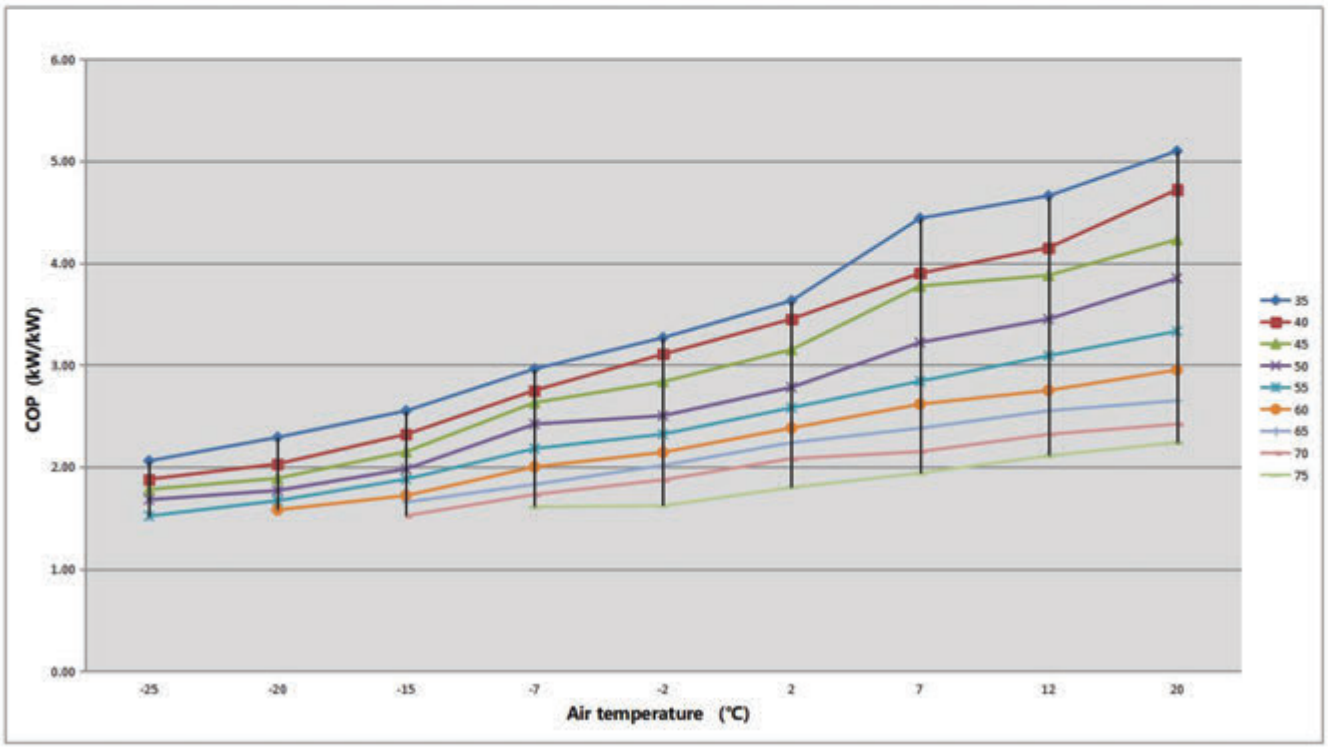
www.dalradatechnology.com
info@dalradatechnology.com

Specifications

DH290-11S COP

Heating Capacity at Different Conditions

Model	DH290-11S								
Air temp ℃	COP （kW/kW）								
	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75
-25	2.06	1.88	1.78	1.68	1.52				
-20	2.29	2.03	1.89	1.77	1.67	1.58			
-15	2.55	2.32	2.15	1.98	1.88	1.72	1.66	1.52	
-7	2.96	2.75	2.63	2.42	2.18	2.00	1.83	1.73	1.61
-2	3.27	3.11	2.84	2.50	2.32	2.14	2.02	1.87	1.62
2	3.63	3.45	3.15	2.78	2.58	2.38	2.24	2.08	1.80
7	4.44	3.90	3.77	3.22	2.84	2.62	2.38	2.15	1.94
12	4.66	4.15	3.88	3.45	3.09	2.75	2.55	2.32	2.11
20	5.10	4.72	4.23	3.85	3.33	2.95	2.65	2.42	2.24



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Specifications

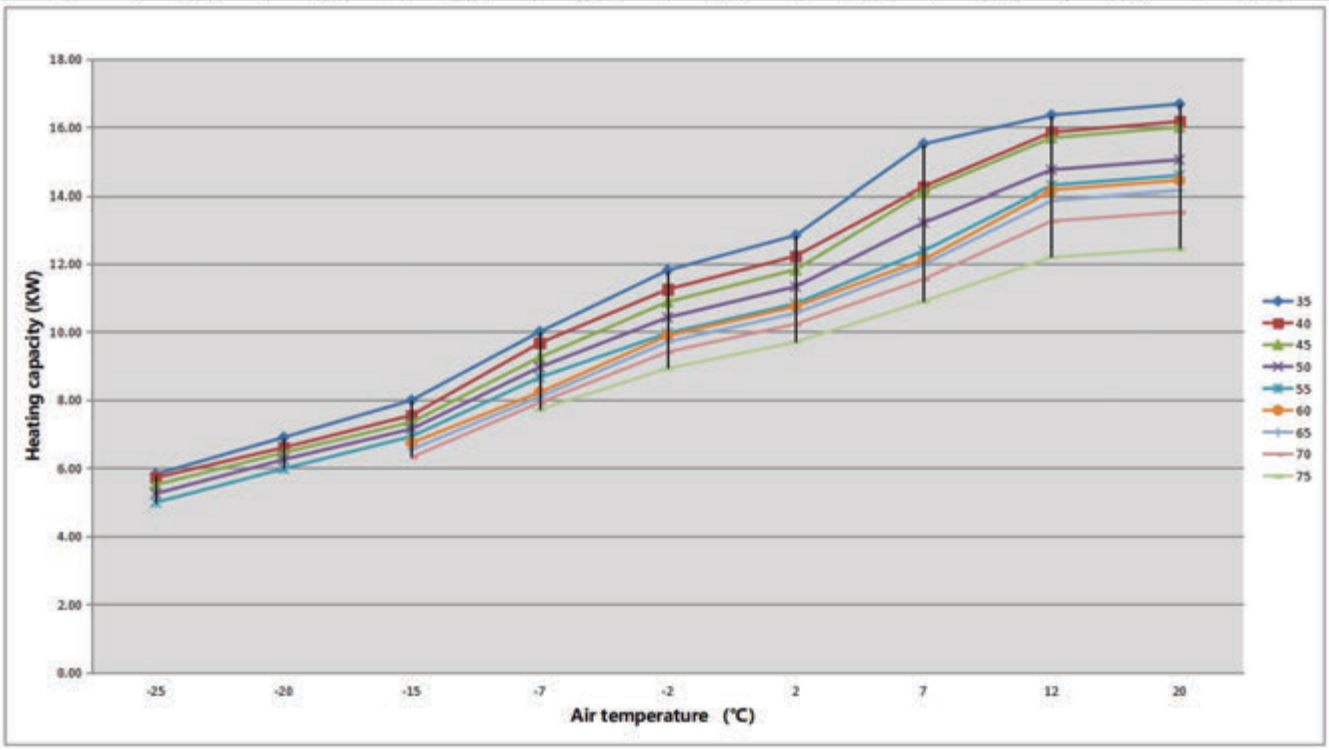
Dalrada Home DH290-15S

R290 Refrigerant/High Safety Performance/ErP A+++

Power Supply	V/Hz/Ph	220-240/50/1
Sound Pressure (1m)	dB(A)	40.4~50.8
Refrigerant	/	R290
ErP Level(35° C)	/	A+++
Cabinet Type	/	Weather-resistant pp+Galanizedsheet metal+ASA
Net Weight	kg	124
Net Dimension(L*D*H)	mm	1110×475×1355

DH290-15S Heating capacity

Heating Capacity at Different Conditions									
Model	DH290-15S								
Air temp ℃	Heating capacity (kW)								
	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75
-25	5.82	5.72	5.51	5.25	4.99				
-20	6.90	6.60	6.45	6.25	5.98				
-15	7.99	7.55	7.35	7.15	6.93	6.74	6.55	6.32	
-7	10.00	9.67	9.25	8.96	8.66	8.22	8.09	7.92	7.72
-2	11.81	11.25	10.88	10.42	9.96	9.89	9.71	9.41	8.92
2	12.84	12.23	11.83	11.33	10.83	10.75	10.55	10.23	9.70
7	15.50	14.25	14.11	13.21	12.38	12.12	11.98	11.55	10.90
12	16.35	15.84	15.68	14.74	14.29	14.15	13.86	13.26	12.20
20	16.68	16.16	16.00	15.04	14.58	14.43	14.14	13.53	12.44



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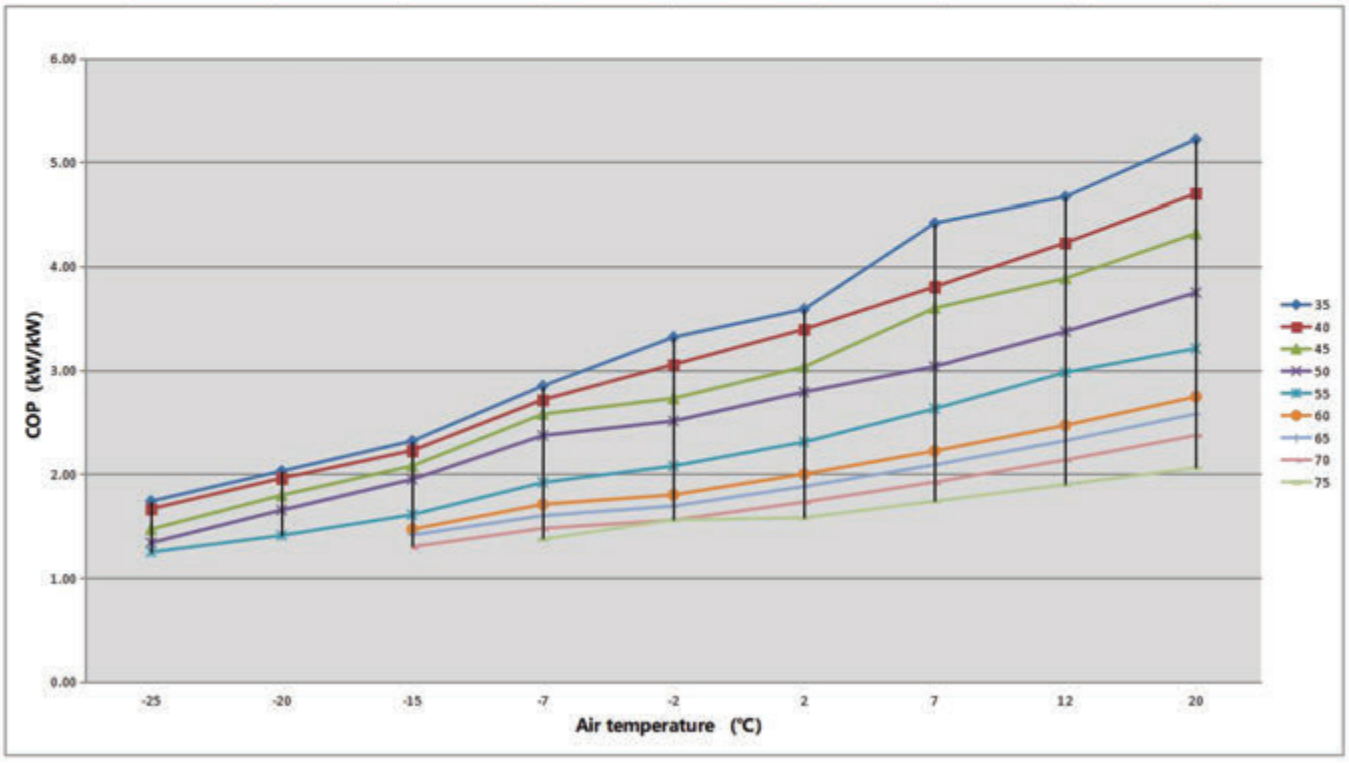
1 Kingsthorne Park, Livingston EH54 5DB
+44 (0)1506 901312

www.dalradatechnology.com
info@dalradatechnology.com

Specifications

DH290-15S COP

Heating Capacity at Different Conditions									
Model	DH290-15S								
Air temp ℃	COP （kW/kW）								
	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75
-25	1.74	1.67	1.47	1.34	1.25				
-20	2.03	1.96	1.80	1.65	1.41				
-15	2.32	2.23	2.08	1.95	1.61	1.47	1.41	1.30	
-7	2.85	2.72	2.58	2.37	1.92	1.71	1.60	1.48	1.37
-2	3.32	3.06	2.73	2.51	2.08	1.80	1.69	1.56	1.56
2	3.59	3.40	3.03	2.79	2.31	2.00	1.88	1.73	1.58
7	4.42	3.81	3.60	3.04	2.63	2.22	2.09	1.92	1.74
12	4.67	4.23	3.89	3.38	2.98	2.47	2.32	2.14	1.90
20	5.22	4.70	4.32	3.75	3.21	2.75	2.58	2.37	2.06



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Specifications

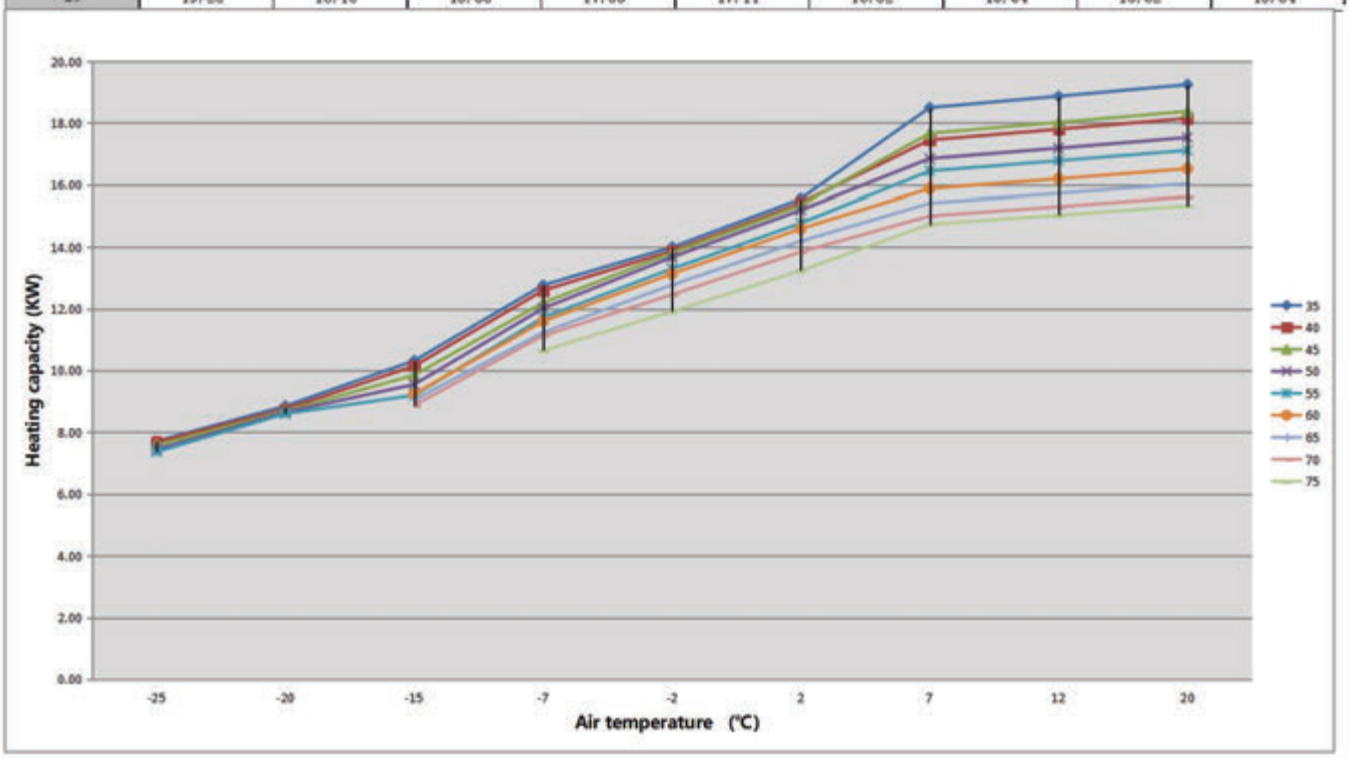
Dalrada Home DH290-18S

R290 Refrigerant/High Safety Performance/ErP A+++

Power Supply	V/Hz/Ph	220-240/50/1
Sound Pressure (1m)	dB(A)	42.4~51
Refrigerant	/	R290
ErP Level(35° C)	/	A+++
Cabinet Type	/	Weather-resistant pp+Galanizedsheet metal+ASA
Net Weight	kg	124
Net Dimension(L*D*H)	mm	1110×475×1355

DH290-18S Heating capacity

Heating Capacity at Different Conditions									
Model	DH290-18S								
Air temp ℃	Heating capacity (kW)								
	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75
-25	7.71	7.68	7.58	7.45	7.37				
-20	8.85	8.75	8.69	8.65	8.60				
-15	10.32	10.15	9.85	9.55	9.20	9.24	9.05	8.88	
-7	12.77	12.60	12.20	12.02	11.72	11.60	11.24	11.13	10.65
-2	14.00	13.88	13.82	13.68	13.30	13.14	12.78	12.47	11.92
2	15.56	15.42	15.35	15.20	14.78	14.60	14.20	13.85	13.24
7	18.50	17.45	17.67	16.85	16.45	15.88	15.42	15.01	14.74
12	18.87	17.80	18.02	17.19	16.78	16.20	15.73	15.31	15.03
20	19.25	18.15	18.38	17.53	17.11	16.52	16.04	15.62	15.34



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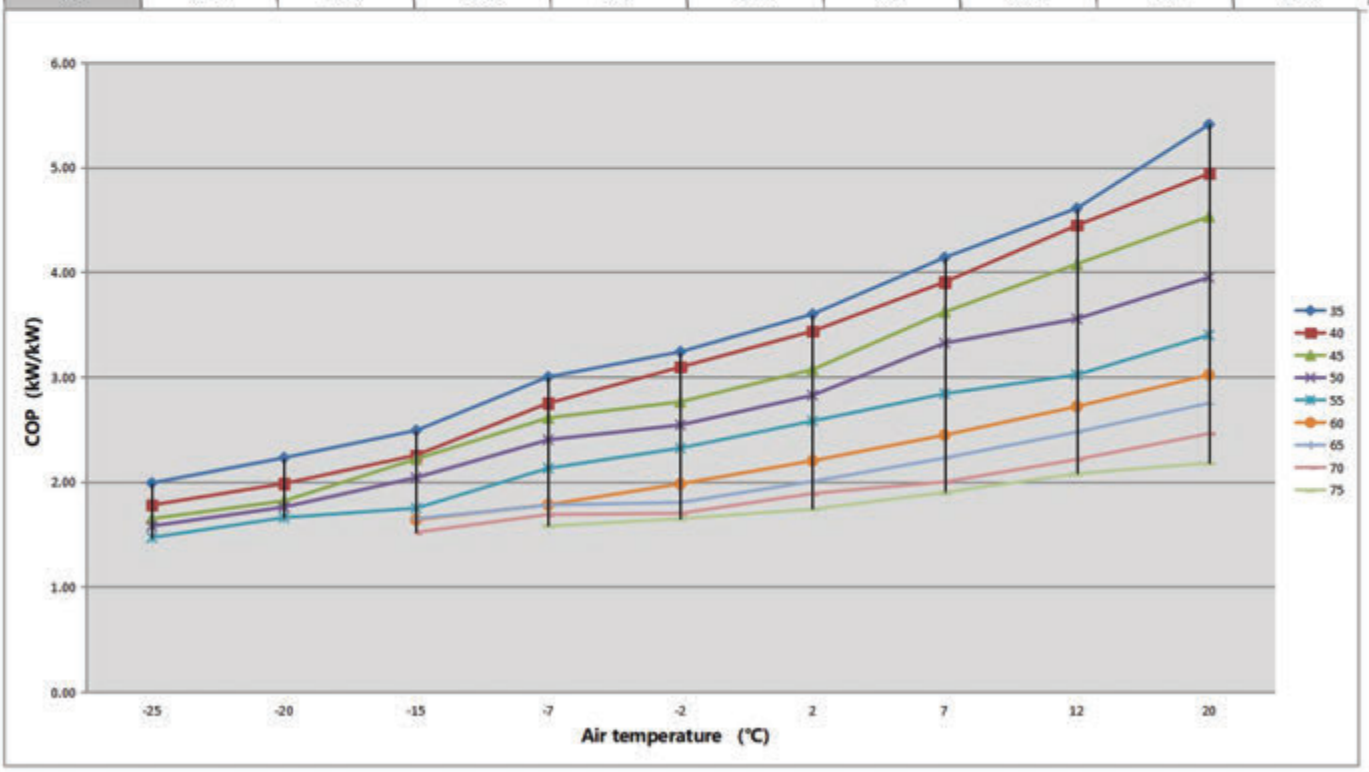
Specifications

DH290-18S COP

Heating Capacity at Different Conditions

Model	DH290-18S								
Air temp ℃	COP （kW/kW）								
	30/35	35/40	40/45	45/50	50/55	55/60	60/65	65/70	70/75
-25	1.99	1.78	1.65	1.58	1.47				
-20	2.23	1.98	1.82	1.76	1.66				
-15	2.49	2.25	2.22	2.04	1.75	1.64	1.65	1.52	
-7	3.00	2.75	2.61	2.40	2.13	1.78	1.78	1.69	1.58
-2	3.24	3.09	2.76	2.54	2.32	1.98	1.80	1.70	1.65
2	3.60	3.44	3.07	2.82	2.58	2.20	2.00	1.89	1.74
7	4.14	3.91	3.62	3.32	2.84	2.45	2.23	2.00	1.90
12	4.61	4.45	4.08	3.56	3.02	2.72	2.48	2.21	2.08
20	5.41	4.94	4.53	3.95	3.40	3.02	2.75	2.46	2.18



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