



# HP290

## MONOBLOC AIR SOURCE HEAT PUMP



Designed for the UK climate



364 days a year UK customer service



Low GWP R290 Refrigerant



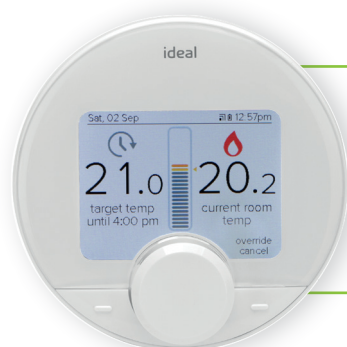
SCOP rating over 500%\*



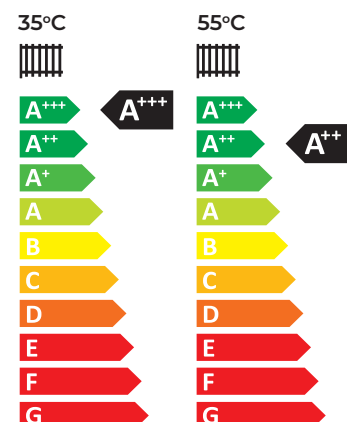
Hot water in sunshine, rain, ice and snow



Temperatures up to 75°C



HALO LITE RF



[idealheating.com](http://idealheating.com)

# HP290

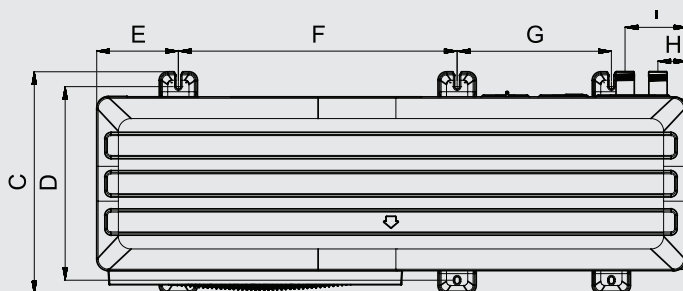
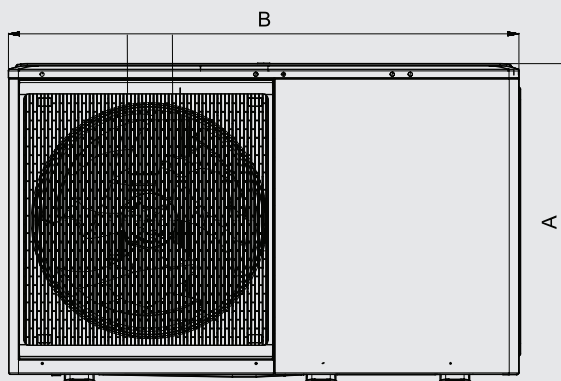
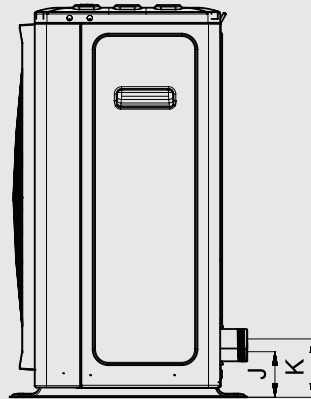
The HP290 monobloc heat pump offers a low-GWP refrigerant with high efficiencies.

The HP290 can provide efficient heating and hot water throughout the year by utilising our pre-plumbed and pre-wired cylinder. The system offers our users an aesthetically pleasing heating solution with a modern design and colour, and when paired with Halo Lite RF, a great user experience.

Our heat pumps are supported by our industry leading customer service and warranty team which is based in the UK and is open 364-days a year, providing customer service and technical support.

## DIMENSIONS

	4.5kW & 6kW	8kW - 14kW
A	717	865
B	1299	1385
C	426	523
D	375	456
E	121	192
F	644	656
G	379	363
H	71	68
I	161	145
J	91	100
K	91	129



## KEY FEATURES

- ✓ Low GWP R290 Refrigerant
- ✓ Highly efficient: SCOP over 500%\*
- ✓ Compatibility: radiator and underfloor heating systems
- ✓ Intuitive control: smart weather compensating controls
- ✓ Low carbon refrigerant: zero ozone depletion and low global warming potential
- ✓ Smart grid and solar PV compatible
- ✓ Monobloc technology enables easy installation and servicing
- ✓ Domestic hot water: hot, efficient and fast re-heat times with the ideal heat pump cylinder range
- ✓ Flow temperatures up to 75°C

# Technical Specification

		HP290 4.5kW	HP290 6kW	HP290 8kW	HP290 10kW	HP290 12kW	HP290 14kW
Ideal Product Code		241486	241487	241488	241489	241490	241491
MCS Certified		Yes	Yes	Yes	Yes	Yes	Yes
PCDB Index Number	Flow Temp 35°C	107965	107973	107981	107989	107997	108005
	Flow Temp 45°C	107964	107972	107980	107988	107996	108004
	Flow Temp 55°C	107963	107971	107979	107987	107995	108003
ENA Connect Direct Reference		IDEAL 10018/V1/A1	IDEAL /10019/V1/A1	IDEAL /10020/V1/A2	IDEAL /10021/V1/A2	IDEAL /10022/V1/A2	IDEAL /10023/V1/A2
Heat Pump Space Heating [35°C]*	ErP Rating	A+++	A+++	A+++	A+++	A+++	A+++
	ηs	199	192	199	183	182	180
	SCOP (EN14825)	5.07	4.89	5.07	4.67	4.63	4.59
Heat Pump Space Heating [55°C]*	ErP Rating	A++	A++	A++	A++	A++	A++
	ηs	148	149	149	141	141	139
	SCOP (EN14825)	3.79	3.82	3.82	3.62	3.61	3.57
Sound Power Level (EN 12102 - 1)	dB(A)	56	58	61	65	65	69
Hydraulic Info	Pipework Connection Sizes	1" BSP	1" BSP	1 1/4" BSP	1 1/4" BSP	1 1/4" BSP	1 1/4" BSP
	Design Flow Rate (L/min)	12.8	15.2	23	30.7	33.4	35.3
	Minimum Flow Rate (L/min)	6.7	6.7	6.7	11.7	11.7	11.7
	Available primary pump head (m)	9	9	8.2	6.9	6.4	6.1
	Minimum Open System Volume (L)	25	25	25	40	40	40
Electrical Info	Electrical Supply	230V 50Hz/1~	230V 50Hz/1~	230V 50Hz/1~	230V 50Hz/1~	230V 50Hz/1~	230V 50Hz/1~
	Maximum Current (A)	12	13.5	17.5	25	26.5	28
	Fuse Size (A)	20	20	25	32	32	32
	Fuse Type	Type C	Type C	Type C	Type C	Type C	Type C
	RCD Type	F or B	F or B	F or B	F or B	F or B	F or B
	Minimum ODU Power Cable	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	4mm <sup>2</sup>	6mm <sup>2</sup>	6mm <sup>2</sup>
	Control Box Power and Comms Cable	Earth Shielded CAT 5					
Dimensions Outdoor Unit (mm)	Width	1299	1299	1385	1385	1385	1385
	Depth	351	351	413	413	413	413
	Height	717	717	865	865	865	865
	Volume (m <sup>3</sup> )	0.327	0.327	0.495	0.495	0.495	0.495
	Weight (kg)	90	90	117	135	135	135
Refrigerant Charge (kg)*	R290	0.7	0.7	1.1	1.25	1.25	1.25

\*1. Performance data in accordance with EN14825:2016, EN 12102-1:2022, EN 14511:2018. Actual performance may differ relative to the specific design and environmental conditions.  
 2. Primary "available" pump head after appliance losses at design flow rate. Based on pure water circulation. For Glycol, please refer to the Logic Air installation manual.  
 3. Minimum open system volume required for defrost cycles. Radiators with TRVs or underfloor heating manifolds with actuators cannot be counted toward open system volume.

# Capacity Charts

Flow Temp	Outdoor Temp	Output Capacity (kW)					
		HP290 4.5 kW	HP290 6 kW	HP290 8 kW	HP290 10 kW	HP290 12 kW	HP290 14 kW
40°C	-1°C	4.35	5.58	8.02	10.18	11.22	12.75
	-2°C	4.29	5.45	7.98	10.27	11.15	12.64
	-3°C	4.34	5.49	7.95	10.21	11.25	12.61
	-4°C	4.4	5.52	7.92	10.15	11.35	12.59
	-5°C	4.45	5.56	7.89	10.09	11.45	12.56
45°C	-1°C	4.41	5.61	7.68	10.88	11.55	12.92
	-2°C	4.36	5.47	7.65	10.71	11.72	12.66
	-3°C	4.41	5.46	7.65	10.64	11.67	12.63
	-4°C	4.46	5.44	7.64	10.56	11.63	12.59
	-5°C	4.51	5.43	7.64	10.49	11.58	12.56
50°C	-1°C	4.49	5.53	7.95	10.9	11.84	12.97
	-2°C	4.43	5.37	7.86	10.78	11.75	12.78
	-3°C	4.46	5.34	7.79	10.61	11.61	12.61
	-4°C	4.48	5.32	7.72	10.44	11.47	12.45
	-5°C	4.51	5.29	7.65	10.27	11.33	12.28
55°C	-1°C	4.54	5.31	8.01	10.8	11.74	12.6
	-2°C	4.46	5.28	8.01	10.69	11.64	12.28
	-3°C	4.49	5.24	7.9	10.54	11.47	12.14
	-4°C	4.52	5.21	7.78	10.39	11.29	11.99
	-5°C	4.55	5.17	7.67	10.24	11.12	11.85
60°C	-1°C	4.43	5.48	7.74	10.52	11.35	11.73
	-2°C	4.44	5.29	7.46	10.44	11.17	11.54
	-3°C	4.49	5.24	7.46	10.34	11	11.49
	-4°C	4.53	5.2	7.46	10.25	10.82	11.44
	-5°C	4.58	5.15	7.46	10.15	10.65	11.39



**Customer Service**  
**01482 498660**

**Technical Help Line**  
**01482 498663**

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