



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



HP290

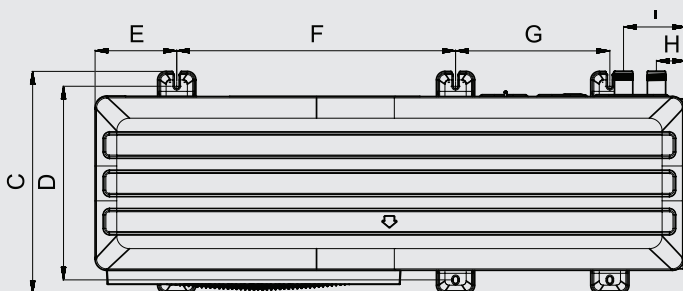
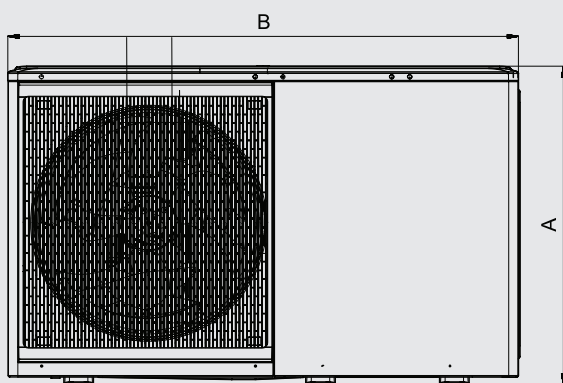
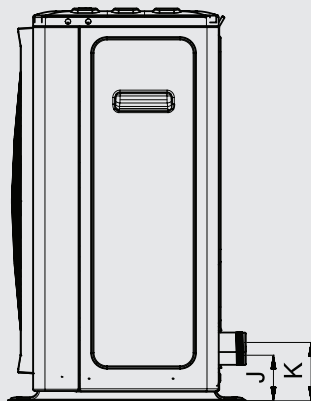
The HP290 monobloc heat pump offers a low-GWP refrigerant with high efficiencies.

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 ² | 2.5mm ² | 2.5mm ² | 4mm ² | 6mm ² | 6mm ² |
| | 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 ³) | 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



New Build Design Enquiries

design.enquiries@idealheating.com



Training

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