Solamander HT

High Temperature R290 Air-to-Water Heat Pump

Efficient space heating and domestic hot water for radiator retrofits and new-build hydronic systems.

AVAILABLE MODELS

6 kW | 9 kW | 12 kW | 16 kW

All models supplied by Devex Systems operate on 220–240 V single-phase power.

UP TO 75°C HOT WATER | **NATURAL R290** | **HIGH QUALITY COMPONENTS** | **SMART MODULATION** | **IDEAL FOR RETROFITS**

Heating performance

Specification	6 kW	9 kW	12 kW	16 kW
Heating capacity – A7/W35	6.27 kW	9.15 kW	12.15 kW	16.17 kW
Power input – A7/W35	1.36 kW	2.00 kW	2.63 kW	3.54 kW
COP – A7/W35	4.62	4.58	4.62	4.57
SCOP – 35°C application	4.71	4.89	4.81	4.77
Maximum water temperature	75°C	75°C	75°C	75°C

Performance data is based on EN 14511 and EN 14825 testing. A7/W35 represents 7°C outdoor air temperature and 30/35°C entering/leaving water temperatures.

Acoustic performance

Specification	6 kW	9 kW	12 kW	16 kW
Sound pressure at 1 m – A7/W35	36.7 dB(A)	44.7 dB(A)	42.4 dB(A)	54.4 dB(A)

Sound pressure is the corrected average measured at 1 m in a hemi-anechoic test environment. Tested in accordance with EN 12102-1:2022 and EN ISO 3744:2010.

Hydraulic and refrigerant data

Hydraulic / refrigerant	6 kW	9 kW	12 kW	16 kW
Minimum water flow	7 L/min	10 L/min	14 L/min	18 L/min
Recommended minimum system volume	60 L	90 L	120 L	160 L
Water connection	G1 / DN25	G1 / DN25	G1 / DN25	G1 / DN25
Refrigerant	R290	R290	R290	R290

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INSTALLATION & PRODUCT DATA

Electrical	6 kW	9 kW	12 kW	16 kW
Power supply	220–240 V 1 Ph, 50 Hz	220–240 V 1 Ph, 50 Hz	220–240 V 1 Ph, 50 Hz	220–240 V 1 Ph, 50 Hz
Maximum current	12 A	17 A	22 A	32 A
Recommended circuit protection	16 A	25 A	32 A	40 A
Minimum cable size*	2.5 mm^2	2.5 mm^2	4 mm^2	6 mm^2

*Indicative only. Final cable sizing and circuit protection must be determined by a licensed electrician for the installation conditions and applicable requirements.

Physical data	6 kW	9 kW	12 kW	16 kW
Dimensions – W × D × H	976 × 450 × 690 mm	1106 × 445 × 835 mm	1106 × 450 × 1135 mm	1110 × 450 × 1600 mm
Net weight	80 kg	82 kg	125 kg	175 kg
Fan arrangement	Single	Single	Single	Dual

Operating limits	Range / status
Outdoor temperature – heating	-25°C to 45°C
Outdoor temperature – cooling	+15°C to 45°C
Outdoor temperature – DHW	-25°C to 45°C
Leaving-water temperature – heating	10°C to 75°C
Leaving-water temperature – cooling	6°C to 30°C
DHW setpoint range	10°C to 70°C

STANDARD FUNCTIONS

- DC inverter compressor
- Smart output modulation
- Weather compensation
- Heating, cooling and DHW modes
- Automatic defrost and Freeze-protection control
- Remote internet access
- Auxiliary-heater control

SUITABLE APPLICATIONS

- Radiator retrofits
- Hydronic underfloor heating
- Domestic hot water
- New-build hydronic systems
- Buffer-tank systems
- Cascade installations
- Solar/PV-integrated capability

IMPORTANT: Product selection must be based on a project-specific heat-loss calculation and required water temperature. Actual capacity and efficiency vary with outdoor temperature, water temperature, water flow and system design. Specifications are subject to change without notice.

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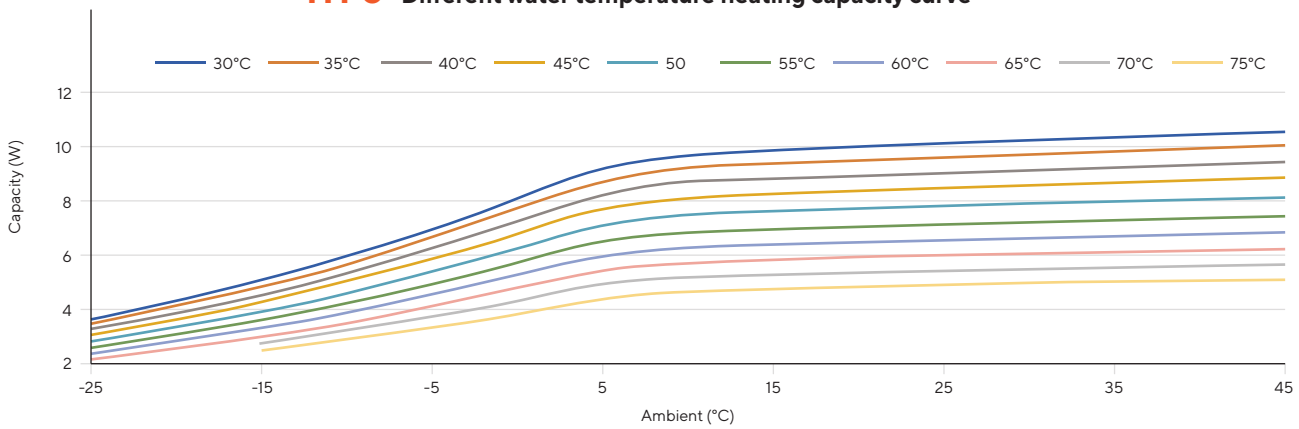
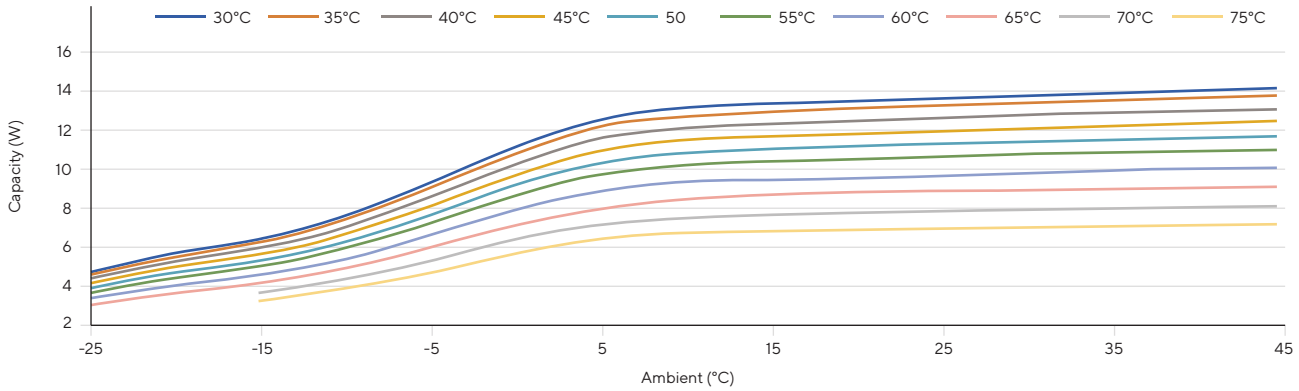
MAXIMUM HEATING CAPACITY

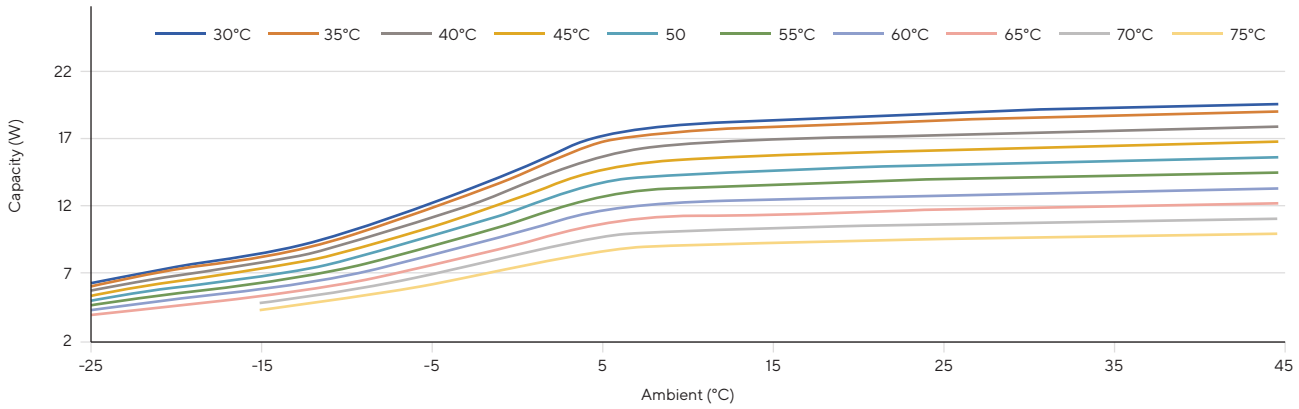
HT 6 Different water temperature heating capacity curve



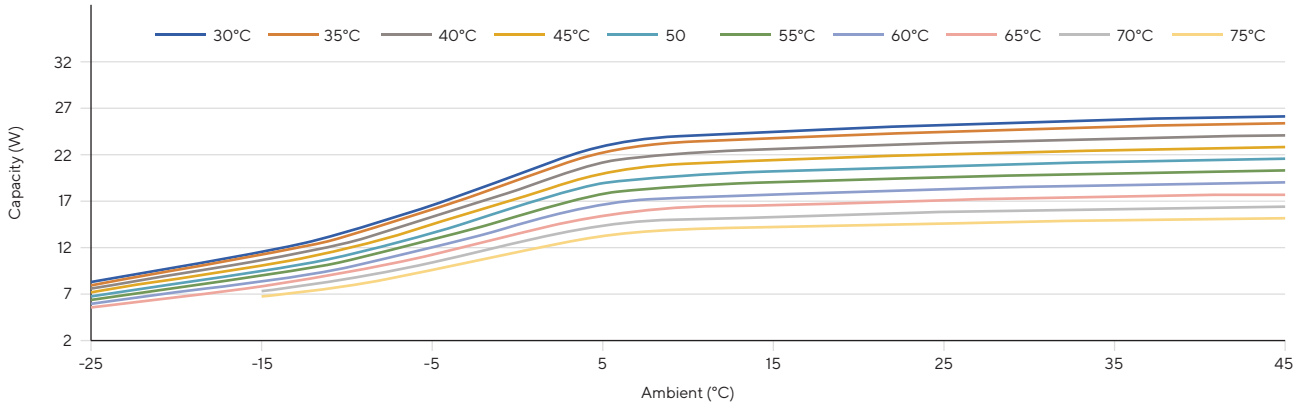
HT 9 Different water temperature heating capacity curve



HT 12 Different water temperature heating capacity curve



HT 16 Different water temperature heating capacity curve



Devex systems®

1800 636 091 | info@devexsystems.com.au | devexsystems.com.au

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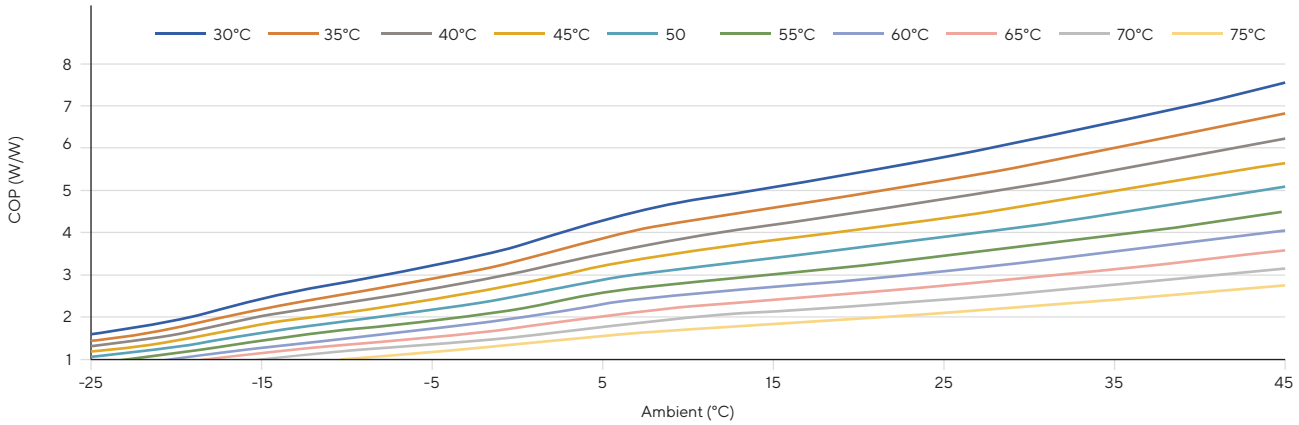
COP CURVES FOR HEATING OPERATION

HT 6 Heating COP at different leaving-water temperatures



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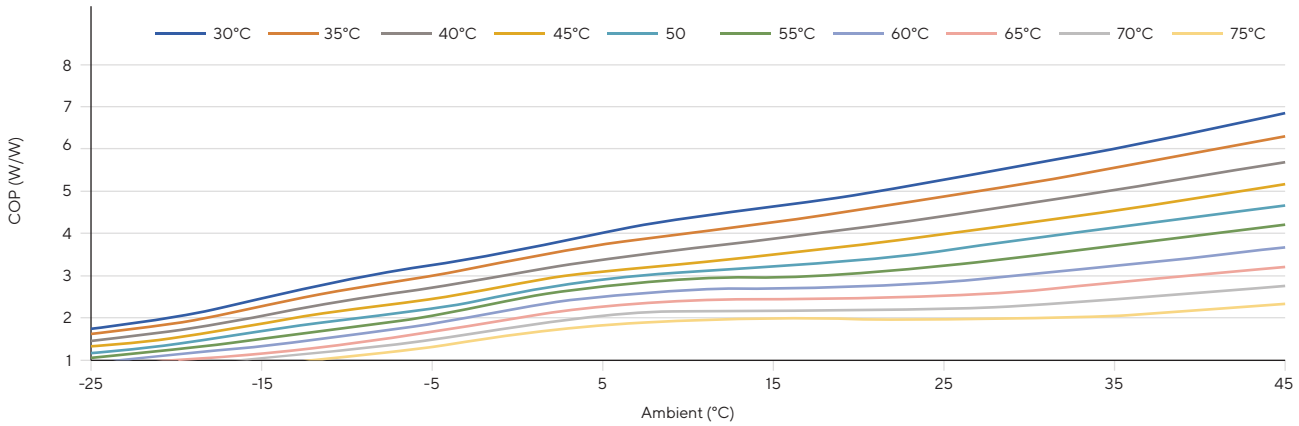

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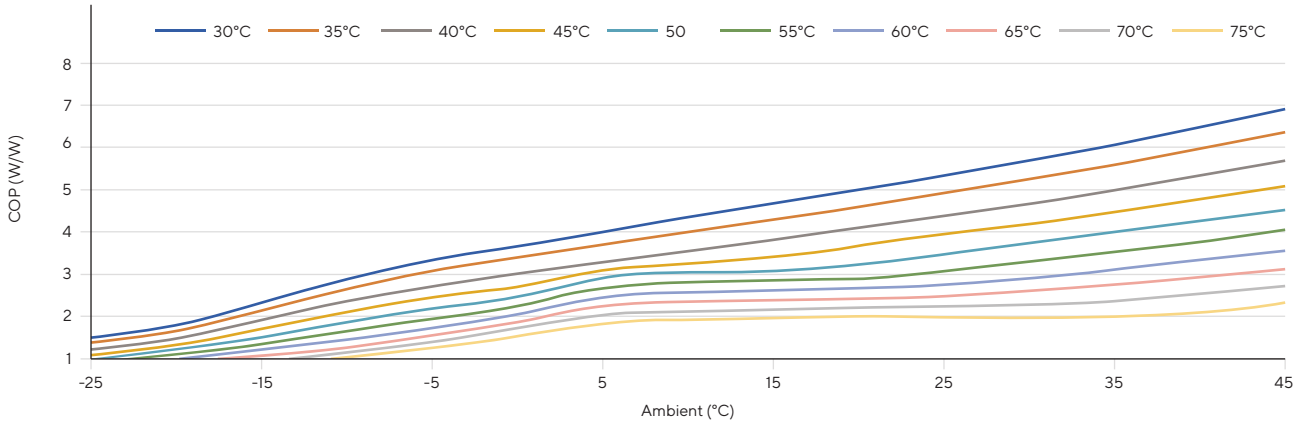
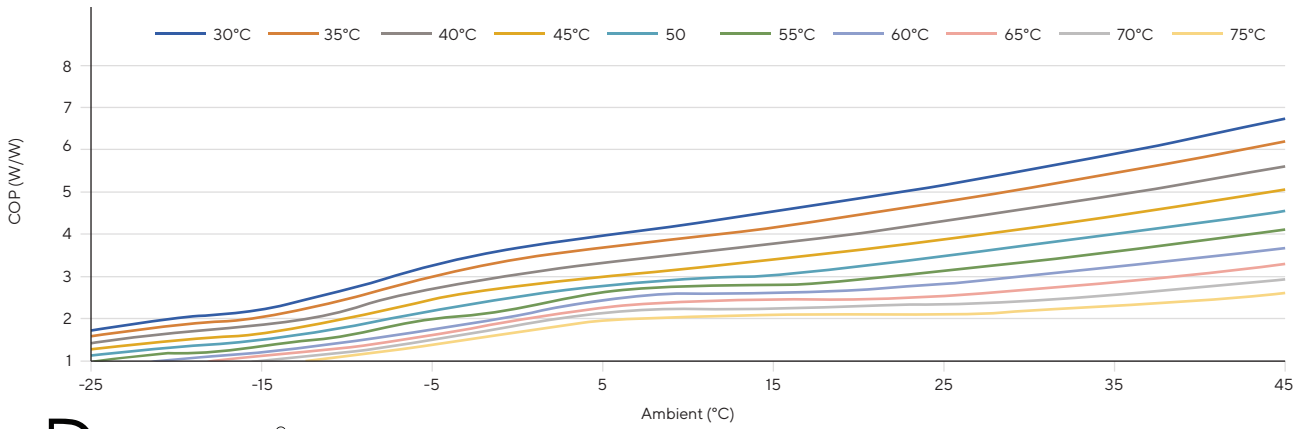
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