

CAELIO DHW HP

Domestic Hot Water Heat Pump



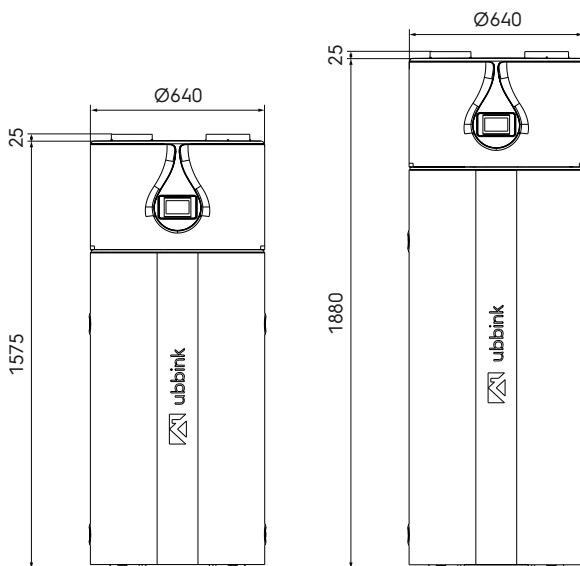
Introduction

The Caelio DHW Heat Pump is a quiet, efficient solution for domestic hot water. Using the eco-efficient refrigerant R290, it offers high performance in a compact design. It draws air from indoors or outdoors, operating efficiently even at -5°C. When connected to a PV system, it stores solar energy as hot water. Available in 200L and 300L, it's a reliable, low-impact choice for any home.

Features and benefits

- Whisper-quiet operation
Runs at just 35 dB(A) for a peaceful home environment.
- Eco-efficient refrigerant
Uses R290 with zero ODP and ultra-low GWP.
- High efficiency, low impact
COP up to 3,91 with just 150g of refrigerant.
- Intuitive touch control
Easy-to-use screen for full control and visibility.

Product dimensions



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Key specifications summary

The performance data refer to new appliances with clean heat exchangers.

| Parameter | DHW HP 200 | DHW HP 300 |
|----------------------------------------------------------------------------------------|------------------------------|-----------------|
| General | | |
| Trademark | Ubbink | |
| Model name | DHW HP 200 | DHW HP 300 |
| Appliance type | Domestic Hot Water Heat Pump | |
| Gross weight / Net weight | 113 kg / 96 kg | 129 kg / 111 kg |
| Net dimensions (LxWxH) | 640x640x1600 mm | 640x640x1905 mm |
| Shipping dimensions (LxWxH) | 720x720x1760 mm | 720x720x2070 mm |
| Hydraulics | | |
| Nominal volume | 200 L | 300 L |
| Connections | 3/4" | |
| Water temperature with heat pump maximum | 65 °C | |
| Water temperature with heating element maximum | 75 °C | |
| Refrigeration circuit | | |
| Type of refrigerant | R290 | |
| General performance data | | |
| Water heating energy efficiency class (according to (EU) No 812/2013 ANNEX II Table 1) | A+ | |
| Volume at 1 meter LpA | 38 dB(A) | 35 dB(A) |
| Load profile (14°C/20°C) | L | XL |
| Coefficient of performance (14°C/20°C) | 3,53 | 3,91 |
| Maximum volume of mixed water at 40°C (14°C/20°C) | 276 L | 367 L |

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Detailed technical specifications

The performance data refer to new appliances with clean heat exchangers.

| Parameter | DHW HP 200 | DHW HP 300 |
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| Appliance type | Domestic Hot Water Heat Pump | |
| Gross weight / Net weight | 113 kg / 96 kg | 129 kg / 111 kg |
| Net dimensions (LxWxH) | 640x640x1600 mm | 640x640x1905 mm |
| Shipping dimensions (LxWxH) | 720x720x1760 mm | 720x720x2070 mm |
| Hydraulics | | |
| Water storage material | Enamelled steel | |
| Nominal volume | 200 L | 300 L |
| Cold water / Hot water connection | G3/4" INT | |
| Circulation connection | G3/4" INT | |
| Drain connection | G3/4" INT | |
| Condensate connection | 19 mm (3/4") | |
| Water temperature with heat pump maximum | 65 °C | |
| Water temperature with heating element maximum | 75 °C | |
| Application limits | | |
| Safety temperature cut-out | 85 °C | |
| Max. pressure water tank | 7 bar | |
| Ambient temperature minimum/maximum | -5/+43 °C | |
| Temperature air heat source minimum/maximum | -5/+43 °C | |
| Minimum volume of installation room (recirculation mode) | 15 m ³ | |
| Electrical data | | |
| Power supply: Voltage | 220-240 V | |
| Power supply: Frequency | 50 Hz | |
| Maximum starting current of the device | 8,5 A | |
| Maximum operating current, without start-up phase | 9,6 A | |
| Maximum power consumption, without start-up phase | 2200 W | |
| Power of heating element | 1500 W | |
| Protection class IP | IP X1 | |

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| Parameter | DHW HP 200 | DHW HP 300 |
|----------------------------------------------------------------------------------------|-----------------------|------------|
| Length of mains connection cable approximately | 1,75 m | |
| Refrigeration circuit | | |
| Type of refrigerant | R290 | |
| Mass of the refrigerant charge | 150 g | |
| Maximum refrigerant pressure | 3,2 MPa | |
| Ventilation | | |
| Nominal volume flows | 300 m ³ /h | |
| Maximum allowed flow resistance | 20 Pa | |
| Duct connection dimensions | 160 mm | |
| General performance data | | |
| Water heating energy efficiency class (according to (EU) No 812/2013 ANNEX II Table 1) | A+ | |
| Volume at 1 meter LpA | 38 dB(A) | 35 dB(A) |
| Volume LwA | 53 dB(A) | 50 dB(A) |

| Performance (Heat source 7°C, Ambient 20°C) | DHW HP 200 | DHW HP 300 |
|-------------------------------------------------------------|------------|------------|
| Heating up | | |
| Load profile | L | XL |
| Heating up time (h:min) | 7:51 | 10:21 |
| Electrical energy consumption during the heating phase | 2,94 kWh | 3,83 kWh |
| Standby | | |
| Power consumption in standby mode | 30 W | 41 W |
| Total usable energy during the load profile | 11,70 kWh | 19,27 kWh |
| Total electrical energy consumption during the load profile | 5,45 kWh | 5,64 kWh |
| Daily electrical energy consumption | 3,77 kWh | 5,59 kWh |
| Coefficient of performance | 3,09 | 3,41 |
| Energy efficiency when heating the water | 129% | 142% |
| Annual electrical energy consumption | 792 kWh/a | 1178 kWh/a |
| Reference hot water temperature | 54,1 °C | 53,7 °C |
| Maximum volume of mixed water at 40°C | 278 L | 376 L |
| Nominal heat output | 1,23 kW | 1,26 kW |

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| Performance (Heat source 14°C, Ambient 20°C) | DHW HP 200 | DHW HP 300 |
|-------------------------------------------------------------|------------|------------|
| Heating up | | |
| Load profile | L | XL |
| Heating up time (h:min) | 6:10 | 8:34 |
| Electrical energy consumption during the heating phase | 2,35 kWh | 3,19 kWh |
| Standby | | |
| Power consumption in standby mode | 22 W | 33 W |
| Total usable energy during the load profile | 11,51 kWh | 19,34 kWh |
| Total electrical energy consumption during the load profile | 3,26 kWh | 4,94 kWh |
| Daily electrical energy consumption | 3,30 kWh | 4,87 kWh |
| Coefficient of performance | 3,53 | 3,91 |
| Energy efficiency when heating the water | 147% | 163% |
| Annual electrical energy consumption | 698 kWh/a | 1030 kWh/a |
| Reference hot water temperature | 53,7 °C | 53,0 °C |
| Maximum volume of mixed water at 40°C | 276 L | 367 L |

| Performance (Heat source 2°C, Ambient 20°C) | DHW HP 200 | DHW HP 300 |
|-------------------------------------------------------------|------------|------------|
| Heating up | | |
| Load profile | L | XL |
| Heating up time (h:min) | 12:33 | 16:29 |
| Electrical energy consumption during the heating phase | 4,30 kWh | 5,35 kWh |
| Standby | | |
| Power consumption in standby mode | 56 W | 60 W |
| Total usable energy during the load profile | 11,74 kWh | 19,22 kWh |
| Total electrical energy consumption during the load profile | 4,95 kWh | 6,99 kWh |
| Daily electrical energy consumption | 4,91 kWh | 6,93 kWh |
| Coefficient of performance | 2,37 | 2,75 |
| Energy efficiency when heating the water | 101% | 115,5% |
| Annual electrical energy consumption | 1010 kWh | 1450 kWh |
| Reference hot water temperature | 54,4 °C | 53,1 °C |

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| Performance (Heat source 2°C, Ambient 20°C) | DHW HP 200 | DHW HP 300 |
|------------------------------------------------|------------|------------|
| Maximum volume of mixed water at 40°C | 288 L | 371 L |

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