CEN heat pump KEYMARK

Subtype Air/water HP R290 Monobloc outdoor unit 230V 12kW + Air/water/tank 6-15 kW Monobloc indoor unit

Certificate Holder	ES Heat Pumps AB
Address	Metallgatan 2
ZIP	441 32
City	Alingsås
Country	SE
Certification Body	Kiwa Nederland B.V.
Subtype title	Air/water HP R290 Monobloc outdoor unit 230V 12kW + Air/water/tank 6-15 kW Monobloc indoor unit
Registration number	007-DQ0207
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 kg
Certification Date	20.06.2025
Testing basis	European KEYMARK Scheme for Heat Pumps (v15)
Testing laboratory	KIWA, NL

This information was generated by the HP KEYMARK database on 25.09.2025

CEN heat pump KEYMARK

Model ES M12 R290 + ES M250L ST

Model name	ES M12 R290 + ES M250L ST
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency ηDHW	123 %
COP	2.90
Heating up time	2:24 h:min
Standby power input	39.0 W
Reference hot water temperature	48.1 °C
Mixed water at 40°C	240 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	6.83 kW	7.55 kW
El input	1.36 kW	2.37 kW
COP	5.04	3.18

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	191 %	155 %
Prated	9.19 kW	8.80 kW

This information was generated by the HP KEYMARK database on 25.09.2025

CEN heat pump KEYMARK

SCOP	4.85	3.94
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.13 kW	7.78 kW
COP Tj = -7°C	3.12	3.22
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.02 kW	4.71 kW
COP Tj = +2°C	4.85	3.72
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.40 kW	4.13 kW
COP Tj = +7°C	6.50	4.99
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	5.09 kW	4.95 kW
COP Tj = 12°C	8.18	6.62
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.13 kW	7.78 kW
COP Tj = Tbiv	3.12	3.22
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.61 kW	6.97 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.95	2.15
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	14 W	14 W
PTO	14 W	14 W
PSB	14 W	14 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.58 kW	1.83 kW
Annual energy consumption Qhe	3914 kWh	4613 kWh

This information was generated by the HP KEYMARK database on 25.09.2025

CEN heat pump KEYMARK

Model ES M12 R290 + ES M250L ST UK

Model name	ES M12 R290 + ES M250L ST UK
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
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COP	2.90
Heating up time	2:24 h:min
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Mixed water at 40°C	240 l

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Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	6.83 kW	7.55 kW
El input	1.36 kW	2.37 kW
COP	5.04	3.18

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Average Climate

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COP Tj = -7°C	3.12	3.22
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	5.02 kW	4.71 kW
COP Tj = +2°C	4.85	3.72
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	4.40 kW	4.13 kW
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Supplementary Heater: PSUP	1.58 kW	1.83 kW
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Model HP 12kW R290 + HP M250L ST

Model name	HP 12kW R290 + HP M250L ST
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
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CEN heat pump KEYMARK

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Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency ηDHW	123 %
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