

## Subtype Air/water HP R290 Monobloc outdoor unit 230V 15kW + 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 15kW + Air/water/tank 6-15 kW Monobloc indoor unit
Registration number	007-DQ0211
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.5 kg
Certification Date	20.06.2025
Testing basis	European KEYMARK Scheme for Heat Pumps (v15)
Testing laboratory	KIWA, NL

## Model ES M15 R290 1PH + ES M250L ST

Model name	ES M15 R290 1PH + 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	XL
Efficiency $\eta_{DHW}$	118 %
COP	2.94
Heating up time	1:57 h:min
Standby power input	51.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	248 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	8.55 kW	10.17 kW
El input	1.72 kW	3.33 kW
COP	4.97	3.05

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	179 %	141 %
Prated	12.89 kW	11.10 kW

SCOP	4.54	3.61
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.40 kW	9.82 kW
COP Tj = -7°C	3.07	2.16
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	6.90 kW	6.32 kW
COP Tj = +2°C	4.33	3.71
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.14 kW	5.78 kW
COP Tj = +7°C	6.41	4.86
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	6.69 kW	6.49 kW
COP Tj = 12°C	7.64	6.09
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	11.40 kW	9.82 kW
COP Tj = Tbiv	3.07	2.16
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.66 kW	8.98 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	1.95
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	70 °C	70 °C
Poff	16 W	16 W
PTO	16 W	16 W
PSB	16 W	16 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.23 kW	2.12 kW
Annual energy consumption Qhe	5860 kWh	6355 kWh

## Model ES M15 R290 1PH + ES M250L ST UK

Model name	ES M15 R290 1PH + 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

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Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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