

Subtype HYBRID REVOLUTION 30 EXR

Certificate Holder	Fonderie Sime S.p.A.
Address	Via Garbo, 27
ZIP	37045
City	Legnago (VR)
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	HYBRID REVOLUTION 30 EXR
Registration number	ICIM-PDC-000338
Heat Pump Type	Hybrid Exhaust Air/Water
Refrigerant	R290
Mass of Refrigerant	0.15 kg
Certification Date	13.06.2024
Testing laboratory	IMQ S.p.A., IT

Model HYBRID REVOLUTION 30 EXR

Model name	HYBRID REVOLUTION 30 EXR
Application	Heating (medium temp)
Units	Indoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	n/a
Off-peak product	n/a

Hybrid Exhaust Air/Water

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	2.24 kW	2.25 kW
El input	0.51 kW	0.81 kW
COP	4.38	2.78

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	220 %	151 %
Prated	2.24 kW	2.25 kW
SCOP	5.58	3.84
Tbiv	-7 °C	-7 °C
TOL	-7 °C	-7 °C
Pdh Tj = -7°C	2.55 kW	2.39 kW
COP Tj = -7°C	4.24	2.91
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	1.46 kW	1.36 kW
COP Tj = +2°C	5.79	3.75
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	0.92 kW	0.95 kW
COP Tj = +7°C	6.63	4.75

Cdh Tj = +7 °C	0.950	0.970
Pdh Tj = 12°C	0.78 kW	0.72 kW
COP Tj = 12°C	6.98	5.36
Cdh Tj = +12 °C	0.940	0.950
Pdh Tj = Tbiv	2.55 kW	2.39 kW
COP Tj = Tbiv	4.24	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.74 kW	4.01 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.38	2.19
WTOL	35 °C	55 °C
Poff	6 W	6 W
PTO	6 W	6 W
PSB	6 W	6 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Gas	Gas
Supplementary Heater: PSUP	2.07 kW	2.08 kW
Annual energy consumption Qhe	1066 kWh	1453 kWh