

Subtype i-290 0115-0118

Certificate Holder	Advantix S.p.A.
Address	Via San Giuseppe Lavoratore, 24
ZIP	37040
City	Arcole Verona
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	i-290 0115-0118
Registration number	ICIM-PDC-000210
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.27 kg
Certification Date	31.08.2023
Testing basis	V12

Model i-290 0115

Model name	i-290 0115
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	191 %	149 %
Prated	14.60 kW	13.50 kW
SCOP	4.85	3.79
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.90 kW	11.90 kW
COP Tj = -7°C	2.93	2.30
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.30 kW	7.40 kW
COP Tj = +2°C	4.79	3.67
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.10 kW	6.00 kW
COP Tj = +7°C	6.45	4.91
Cdh Tj = +7 °C	0.977	0.982
Pdh Tj = 12°C	5.50 kW	7.10 kW
COP Tj = 12°C	8.11	7.67
Cdh Tj = +12 °C	0.969	0.976
Pdh Tj = Tbiv	12.90 kW	11.90 kW
COP Tj = Tbiv	2.93	2.30

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.00 kW	11.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	2.13
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	68 °C	68 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.60 kW	2.50 kW
Annual energy consumption Qhe	6233 kWh	7347 kWh

Model i-290 0118

Model name	i-290 0118
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor 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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	188 %	146 %
Prated	15.00 kW	14.00 kW
SCOP	4.76	3.73
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.30 kW	12.40 kW
COP Tj = -7°C	2.86	2.26
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.30 kW	7.60 kW
COP Tj = +2°C	4.76	3.63
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.00 kW	6.00 kW
COP Tj = +7°C	6.28	4.93
Cdh Tj = +7 °C	0.977	0.982
Pdh Tj = 12°C	5.50 kW	6.80 kW
COP Tj = 12°C	7.84	6.72
Cdh Tj = +12 °C	0.969	0.978
Pdh Tj = Tbiv	13.30 kW	12.40 kW
COP Tj = Tbiv	2.86	2.26

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.40 kW	11.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.57	2.10
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	68 °C	68 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.60 kW	2.40 kW
Annual energy consumption Qhe	6496 kWh	7751 kWh