

## 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 14511-2   Heating		
	Low temperature	Medium temperature
Heat output	16.33 kW	15.23 kW
El input	3.30 kW	4.52 kW
COP	4.94	3.37
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	3.70 kW	
Cooling capacity	12.41	
EER	3.35	
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
ηs	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

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.41 kW	
SEER	5.02	
Pdc Tj = 35°C	12.41 kW	
EER Tj = 35°C	3.35	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	9.77 kW	
EER Tj = 30°C	4.55	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	5.84 kW	
EER Tj = 25°C	5.87	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	3.36 kW	
EER Tj = 20°C	5.60	
Cdc Tj = 20 °C	0.963	
Poff	22 W	

PTO	0 W
PSB	28 W
PCK	0 W
Annual energy consumption Qce	1483 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 14511-2   Heating		
	Low temperature	Medium temperature
Heat output	18.72 kW	17.38 kW
El input	4.05 kW	5.32 kW
COP	4.62	3.27
EN 14511-2   Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	4.35 kW	
Cooling capacity	13.75	
EER	3.16	
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
ηs	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

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.75 kW	
SEER	5.04	
Pdc Tj = 35°C	13.75 kW	
EER Tj = 35°C	3.16	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	10.39 kW	
EER Tj = 30°C	4.65	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	6.90 kW	
EER Tj = 25°C	5.91	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	3.36 kW	
EER Tj = 20°C	5.56	
Cdc Tj = 20 °C	0.964	
Poff	22 W	

PTO	0 W
PSB	28 W
PCK	0 W
Annual energy consumption Qce	1635 kWh