

Subtype AHP70-50

Certificate Holder	GUILLOT INDUSTRIES SAS - Groupe ATLANTIC
Address	1, Route de Fleurville
ZIP	01190
City	Ponte De Vaux
Country	FR
Certification Body	ICIM S.p.A.
Subtype title	AHP70-50
Registration number	ICIM-PDC-000255
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	3.5 kg
Certification Date	13.04.2024
Testing basis	V12

Model APTAE AHP70-50 (brand ATLANTIC); ECOMOD 290 HT AHP70-50 (brand IDEAL); TYNEHAM 290 HT AHP70-50 (brand HAMWORTHY); IZEA AHP70-50 (brand ACV); APTAE AHP70-50 (brand YGNIS)

Model name	APTAE AHP70-50 (brand ATLANTIC); ECOMOD 290 HT AHP70-50 (brand IDEAL); TYNEHAM 290 HT AHP70-50 (brand HAMWORTHY); IZEA AHP70-50 (brand ACV); APTAE AHP70-50 (brand YGNIS)
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	50.10 kW	47.90 kW
El input	11.90 kW	16.50 kW
COP	4.21	2.90

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	11.00 kW	
Cooling capacity	34.10	
EER	3.10	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	75 dB(A)	75 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	165 %	132 %
Prated	43.00 kW	44.00 kW

SCOP	4.20	3.36
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	38.00 kW	39.20 kW
COP Tj = -7°C	2.53	1.93
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	25.20 kW	23.90 kW
COP Tj = +2°C	3.90	3.19
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	20.10 kW	19.40 kW
COP Tj = +7°C	6.27	4.87
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	23.10 kW	22.40 kW
COP Tj = 12°C	7.32	6.16
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	38.00 kW	39.20 kW
COP Tj = Tbiv	2.53	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	34.60 kW	34.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.65
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	78 °C	78 °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	n/a	n/a
Supplementary Heater: PSUP	8.40 kW	9.30 kW
Annual energy consumption Qhe	21106 kWh	27218 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	34.10 kW	
SEER	4.81	
Pdc Tj = 35°C	34.10 kW	
EER Tj = 35°C	3.10	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	23.80 kW	
EER Tj = 30°C	4.10	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	16.20 kW	
EER Tj = 25°C	5.24	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	16.60 kW	

EER $T_j = 20^{\circ}\text{C}$	6.12
Cdc $T_j = 20^{\circ}\text{C}$	1.000
P _{off}	22 W
PTO	0 W
PSB	28 W
PCK	0 W
Annual energy consumption Q _{ce}	4252 kWh