Subtype ACP 10/12

Certificate Holder	Climer
Address	Carr. Córdoba - Málaga, Km. 77
ZIP	14900
City	Córdoba
Country	ES
Certification Body	ICIM S.p.A.
Subtype title	ACP 10/12
Registration number	ICIM-PDC-000202
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	2.5 kg
Certification Date	30.08.2023
Testing basis	HP KEYMARK certification scheme rules rev. no. 7

Model ACP12	
Model name	ACP12
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	1x230V 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	11.80 kW	11.37 kW
El input	2.73 kW	4.10 kW
COP	4.32	2.78

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.79 kW	
Cooling capacity	8.51	
EER	3.05	

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	176 %	131 %
Prated	10.00 kW	10.00 kW
SCOP	4.47	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C

Pdh Tj = -7°C	8.90 kW	8.50 kW
COP Tj = -7°C	2.88	2.08
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.40 kW	5.20 kW
COP Tj = +2°C	4.31	3.35
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.30 kW	4.20 kW
COP Tj = +7°C	5.82	4.24
Cdh Tj = +7 °C	0.974	0.981
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	7.81	5.31
Cdh Tj = +12 °C	0.969	0.979
Pdh Tj = Tbiv	8.90 kW	8.50 kW
COP Tj = Tbiv	2.88	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.20 kW	1.30 kW
Annual energy consumption Qhe	4630 kWh	5941 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.51 kW	
SEER	4.43	
Pdc Tj = 35°C	8.51 kW	
EER Tj = 35°C	3.05	
Pdc Tj = 30°C	6.28 kW	
EER Tj = 30°C	4.03	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	3.98 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	0.978	
Pdc Tj = 20°C	4.23 kW	
EER Tj = 20°C	6.32	
Cdc Tj = 20 °C	0.972	
Poff	22 W	
PTO	0 W	

PSB	28 W
PCK	0 W
Annual energy consumption Qce	1153 kWh

Model ACP10	
Model name	ACP10
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	1x230V 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	10.10 kW	9.73 kW
El input	2.28 kW	3.50 kW
COP	4.43	2.78

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.39 kW	
Cooling capacity	7.53	
EER	3.15	

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	178 %	135 %
Prated	9.00 kW	9.00 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C

Pdh Tj = -7°C	8.30 kW	8.10 kW
COP Tj = -7°C	2.93	2.13
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.30 kW	5.20 kW
COP Tj = +2°C	4.32	3.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.20 kW	4.10 kW
COP Tj = +7°C	6.01	4.30
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	8.08	6.36
Cdh Tj = +12 °C	0.969	0.975
Pdh Tj = Tbiv	8.30 kW	8.10 kW
COP Tj = Tbiv	2.93	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.30 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.70 kW	0.90 kW
Annual energy consumption Qhe	4293 kWh	5462 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.53 kW	
SEER	4.34	
Pdc Tj = 35°C	7.53 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	5.49 kW	
EER Tj = 30°C	3.92	
Cdc Tj = 30 °C	0.986	
Pdc Tj = 25°C	3.56 kW	
EER Tj = 25°C	4.46	
Cdc Tj = 25 °C	0.976	
Pdc Tj = 20°C	4.35 kW	
EER Tj = 20°C	6.36	
Cdc Tj = 20 °C	0.972	
Poff	22 W	
PTO	0 W	

PSB	28 W
PCK	0 W
Annual energy consumption Qce	1040 kWh

Model ACP10T	
Model name	ACP10T
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	10.10 kW	9.73 kW
El input	2.28 kW	3.50 kW
COP	4.43	2.78

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.39 kW	
Cooling capacity	7.53	
EER	3.15	

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	178 %	135 %
Prated	9.00 kW	9.00 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C

Pdh Tj = -7°C	8.30 kW	8.10 kW
COP Tj = -7°C	2.93	2.13
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.30 kW	5.20 kW
COP Tj = +2°C	4.32	3.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.20 kW	4.10 kW
COP Tj = +7°C	6.01	4.30
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	8.08	6.36
Cdh Tj = +12 °C	0.969	0.975
Pdh Tj = Tbiv	8.30 kW	8.10 kW
COP Tj = Tbiv	2.93	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.30 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.70 kW	0.90 kW
Annual energy consumption Qhe	4293 kWh	5462 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	7.53 kW	
SEER	4.34	
Pdc Tj = 35°C	7.53 kW	
EER Tj = 35°C	3.15	
Pdc Tj = 30°C	5.49 kW	
EER Tj = 30°C	3.92	
Cdc Tj = 30 °C	0.986	
Pdc Tj = 25°C	3.56 kW	
EER Tj = 25°C	4.46	
Cdc Tj = 25 °C	0.976	
Pdc Tj = 20°C	4.35 kW	
EER Tj = 20°C	6.36	
Cdc Tj = 20 °C	0.972	
Poff	22 W	
PTO	0 W	

PSB	28 W
PCK	0 W
Annual energy consumption Qce	1040 kWh

Model ACP12T		
Model name	ACP12T	
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	11.80 kW	11.37 kW
El input	2.73 kW	4.10 kW
COP	4.32	2.78
EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.79 kW	
Cooling capacity	8.51	
EER	3.05	
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	176 %	131 %
Prated	10.00 kW	10.00 kW
SCOP	4.47	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C

Pdh Tj = -7°C	8.90 kW	8.50 kW
COP Tj = -7°C	2.88	2.08
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.40 kW	5.20 kW
COP Tj = +2°C	4.31	3.35
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.30 kW	4.20 kW
COP Tj = +7°C	5.82	4.24
Cdh Tj = +7 °C	0.974	0.981
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	7.81	5.31
Cdh Tj = +12 °C	0.969	0.979
Pdh Tj = Tbiv	8.90 kW	8.50 kW
COP Tj = Tbiv	2.88	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.20 kW	1.30 kW
Annual energy consumption Qhe	4630 kWh	5941 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.51 kW	
SEER	4.43	
Pdc Tj = 35°C	8.51 kW	
EER Tj = 35°C	3.05	
Pdc Tj = 30°C	6.28 kW	
EER Tj = 30°C	4.03	
Cdc Tj = 30 °C	0.988	
Pdc Tj = 25°C	3.98 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	0.978	
Pdc Tj = 20°C	4.23 kW	
EER Tj = 20°C	6.32	
Cdc Tj = 20 °C	0.972	
Poff	22 W	
PTO	0 W	

PSB	28 W
PCK	0 W
Annual energy consumption Qce	1153 kWh

Model ACP12-LN	
Model name	ACP12-LN
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	1x230V 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	7.35 kW	7.08 kW
El input	1.52 kW	2.28 kW
COP	4.84	3.11

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.79 kW	
Cooling capacity	8.51	
EER	3.05	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	180 %	135 %
Prated	10.00 kW	10.00 kW
SCOP	4.58	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C

Pdh Tj = -7°C	8.70 kW	8.40 kW
COP Tj = -7°C	2.90	2.09
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.30 kW	5.20 kW
COP Tj = +2°C	4.42	3.44
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.30 kW	4.20 kW
COP Tj = +7°C	6.14	4.47
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.80 kW	4.80 kW
COP Tj = 12°C	8.00	5.44
Cdh Tj = +12 °C	0.969	0.978
Pdh Tj = Tbiv	8.70 kW	8.40 kW
COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.40 kW	8.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.60 kW	1.70 kW
Annual energy consumption Qhe	4453 kWh	5709 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.51 kW	
SEER	4.43	
Pdc Tj = 35°C	8.51 kW	
EER Tj = 35°C	3.05	
Pdc Tj = 30°C	6.28 kW	
EER Tj = 30°C	4.03	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	3.98 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	0.988	
Pdc Tj = 20°C	4.23 kW	
EER Tj = 20°C	6.32	
Cdc Tj = 20 °C	0.972	
Poff	22 W	
PTO	0 W	

PSB	28 W
PCK	0 W
Annual energy consumption Qce	1153 kWh

Model ACP12T-LN	
Model name	ACP12T-LN
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	7.35 kW	7.08 kW
El input	1.52 kW	2.28 kW
COP	4.84	3.11

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.79 kW	
Cooling capacity	8.51	
EER	3.05	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	53 dB(A)	53 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	180 %	135 %
Prated	10.00 kW	10.00 kW
SCOP	4.58	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C

Pdh Tj = -7°C	8.70 kW	8.40 kW
COP Tj = -7°C	2.90	2.09
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.30 kW	5.20 kW
COP Tj = +2°C	4.42	3.44
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.30 kW	4.20 kW
COP Tj = +7°C	6.14	4.47
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.80 kW	4.80 kW
COP Tj = 12°C	8.00	5.44
Cdh Tj = +12 °C	0.969	0.978
Pdh Tj = Tbiv	8.70 kW	8.40 kW
COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.40 kW	8.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.60 kW	1.70 kW
Annual energy consumption Qhe	4453 kWh	5709 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	8.51 kW	
SEER	4.43	
Pdc Tj = 35°C	8.51 kW	
EER Tj = 35°C	3.05	
Pdc Tj = 30°C	6.28 kW	
EER Tj = 30°C	4.03	
Cdc Tj = 30 °C	0.988	
Pdc Tj = 25°C	3.98 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	0.978	
Pdc Tj = 20°C	4.23 kW	
EER Tj = 20°C	6.32	
Cdc Tj = 20 °C	0.972	
Poff	22 W	
PTO	0 W	

PSB	28 W
PCK	0 W
Annual energy consumption Qce	1153 kWh