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Summary of	IDEAL HEATING Alféa Extensa A.I. 10	Reg. No.	012-SC0140-19
Certificate Holder			
Name	Groupe Atlantic		
Address	44 boulevard des Etats-Unis	Zip	85000
City	La Roche Sur Yon	Country	France
Certification Body	RISE CERT		
Subtype title	IDEAL HEATING Alféa Extensa A.I. 10		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.8 kg		
Certification Date	04.04.2020		

# Model: IDEAL HEATING Alféa Extensa A.I. 10

## Configure model

Model name	IDEAL HEATING Alféa Extensa A.I. 10
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

## General Data

Power supply	1x230V 50Hz
Phase-out Date	12.03.2024

## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	10.00 kW	7.00 kW
El input	2.49 kW	2.86 kW
COP	4.02	2.45

### EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	155 %	113 %
Prated	8.00 kW	8.00 kW
SCOP	3.95	2.90
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.50 kW	6.70 kW
COP Tj = -7°C	2.40	1.70
Pdh Tj = +2°C	4.50 kW	4.10 kW
COP Tj = +2°C	3.80	2.70
Pdh Tj = +7°C	3.50 kW	3.20 kW
COP Tj = +7°C	5.70	4.10
Pdh Tj = 12°C	4.00 kW	4.00 kW
COP Tj = 12°C	7.20	5.70

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Pdh Tj = Tbiv	7.50 kW	6.70 kW
COP Tj = Tbiv	2.40	1.70
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.00 kW	5.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.20	1.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	5 W	5 W
PTO	43 W	22 W
PSB	8 W	8 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	1.70 kW
Annual energy consumption Qhe	4415 kWh	5415 kWh