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Summary of	Alféa Excellia HP A.I. Tri 17	Reg. No.	012-SC0307-18
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	Alféa Excellia HP A.I. Tri 17		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.8 kg		

## Model: Alféa Excellia HP A.I. Tri 17

Configure model	
Model name	Alféa Excellia HP A.I. Tri 17
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	17.11 kW	15.53 kW
El input	4.08 kW	5.52 kW
COP	4.19	2.81

### Average Climate

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	161 %	130 %
Prated	18.00 kW	17.00 kW
SCOP	4.11	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	16.00 kW	15.00 kW
COP Tj = -7°C	2.82	2.10
Pdh Tj = +2°C	9.70 kW	9.00 kW
COP Tj = +2°C	4.13	3.32
Pdh Tj = +7°C	6.80 kW	6.30 kW
COP Tj = +7°C	5.01	4.23
Pdh Tj = 12°C	8.00 kW	7.70 kW
COP Tj = 12°C	6.64	5.95
Pdh Tj = Tbiv	16.00 kW	15.00 kW

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COP $T_j = T_{biv}$	2.82	2.10
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	14.80 kW	12.40 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.61	1.76
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.92	0.97
WTOL	60 °C	60 °C
P <sub>off</sub>	16 W	16 W
PTO	97 W	49 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.10 kW	4.10 kW
Annual energy consumption $Q_{he}$	9059 kWh	10232 kWh

## Model: Alféa Excellia HP Duo A.I. Tri 17

Configure model	
Model name	Alféa Excellia HP Duo A.I. Tri 17
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	17.11 kW	15.53 kW
El input	4.08 kW	5.52 kW
COP	4.19	2.81

### Average Climate

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$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	14.80 kW	12.40 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.61	1.76
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.92	0.97
WTOL	60 °C	60 °C
P <sub>off</sub>	16 W	16 W
PTO	97 W	49 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.10 kW	4.10 kW
Annual energy consumption Q <sub>he</sub>	9059 kWh	10232 kWh

## Domestic Hot Water (DHW)

### Average Climate

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<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	109 %
COP	2.56
Heating up time	00:54 h:min
Standby power input	48.0 W
Reference hot water temperature	54.2 °C
Mixed water at 40°C	250 l