

## Subtype Alféa Excellia Tri 16

Certificate Holder	Groupe Atlantic
Address	44 boulevard des Etats-Unis
ZIP	85000
City	La Roche Sur Yon
Country	FR
Certification Body	RISE CERT
Subtype title	Alféa Excellia Tri 16
Registration number	012-005
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.5 kg
Certification Date	09.12.2022
Testing basis	EN 14511:2013; EN 16147:2011; EN 14825:2013; EN 12102:2013

## Model Alféa Excellia Tri 16

Model name	Alféa Excellia Tri 16
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	149 %	117 %
Prated	13.60 kW	13.00 kW
SCOP	3.80	3.00
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.40	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	7.00 kW
COP Tj = +2°C	3.60	2.90
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.30 kW	5.80 kW
COP Tj = +7°C	5.50	4.10
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.40 kW	7.10 kW
COP Tj = 12°C	7.20	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.40	1.80

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.60 kW	10.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	88 W	32 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	2.70 kW
Annual energy consumption Qhe	7408 kWh	9062 kWh

## Model Alféa Excellia A.I. Tri 16

Model name	Alféa Excellia A.I. Tri 16
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	149 %	117 %
Prated	13.60 kW	13.00 kW
SCOP	3.80	3.00
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.40	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	7.00 kW
COP Tj = +2°C	3.60	2.90
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.30 kW	5.80 kW
COP Tj = +7°C	5.50	4.10
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.40 kW	7.10 kW
COP Tj = 12°C	7.20	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.40	1.80

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.60 kW	10.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	88 W	32 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	2.70 kW
Annual energy consumption Qhe	7408 kWh	9062 kWh

## Model Alféa Excellia Duo Tri 16

Model name	Alféa Excellia Duo Tri 16
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	No

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	88 %
COP	2.30
Heating up time	0:46 h:min
Standby power input	40.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	250 l

## Model Alféa Excellia Duo A.I. Tri 16

Model name	Alféa Excellia Duo A.I. Tri 16
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	No

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	88 %
COP	2.30
Heating up time	0:46 h:min
Standby power input	40.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	250 l

## Model Hydrapac 16B25

Model name	Hydrapac 16B25
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	149 %	117 %
Prated	13.60 kW	13.00 kW
SCOP	3.80	3.00
Tbiv	-7 �C	-7 �C
TOL	-10 �C	-10 �C
Pdh Tj = -7�C	12.00 kW	11.50 kW
COP Tj = -7�C	2.40	1.80
Cdh Tj = -7 �C	0.900	0.900
Pdh Tj = +2�C	7.30 kW	7.00 kW
COP Tj = +2�C	3.60	2.90
Cdh Tj = +2 �C	0.900	0.900
Pdh Tj = +7�C	6.30 kW	5.80 kW
COP Tj = +7�C	5.50	4.10
Cdh Tj = +7 �C	0.900	0.900
Pdh Tj = 12�C	7.40 kW	7.10 kW
COP Tj = 12�C	7.20	5.50
Cdh Tj = +12 �C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.40	1.80



Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.70 kW	10.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	88 W	32 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	2.70 kW
Annual energy consumption Qhe	7408 kWh	9062 kWh

## Model Hydramax Gaz 16B25

Model name	Hydramax Gaz 16B25
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	149 %	117 %
Prated	13.60 kW	13.00 kW
SCOP	3.80	3.00
Tbiv	-7 �C	-7 �C
TOL	-10 �C	-10 �C
Pdh Tj = -7�C	12.00 kW	11.50 kW
COP Tj = -7�C	2.40	1.80
Cdh Tj = -7 �C	0.900	0.900
Pdh Tj = +2�C	7.30 kW	7.00 kW
COP Tj = +2�C	3.60	2.90
Cdh Tj = +2 �C	0.900	0.900
Pdh Tj = +7�C	6.30 kW	5.80 kW
COP Tj = +7�C	5.50	4.10
Cdh Tj = +7 �C	0.900	0.900
Pdh Tj = 12�C	7.40 kW	7.10 kW
COP Tj = 12�C	7.20	5.50
Cdh Tj = +12 �C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.40	1.80

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.70 kW	10.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 °C	60 °C
Poff	14 W	14 W
PTO	88 W	32 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	2.70 kW
Annual energy consumption Qhe	7408 kWh	9062 kWh

## Model Alféa Excellia Tri 16 BS

Model name	Alféa Excellia Tri 16 BS
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
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

### EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	149 %	117 %
Prated	13.60 kW	13.00 kW
SCOP	3.80	3.00
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.00 kW	11.50 kW
COP Tj = -7°C	2.40	1.80
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	7.30 kW	7.00 kW
COP Tj = +2°C	3.60	2.90
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	6.30 kW	5.80 kW
COP Tj = +7°C	5.50	4.10
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	7.40 kW	7.10 kW
COP Tj = 12°C	7.20	5.50
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	12.00 kW	11.50 kW
COP Tj = Tbiv	2.40	1.80

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.70 kW	10.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.30	1.60
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	60 �C	60 �C
Poff	14 W	14 W
PTO	88 W	32 W
PSB	17 W	17 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.00 kW	2.70 kW
Annual energy consumption Qhe	7408 kWh	9062 kWh