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Summary of	Hysae Hybrid	Reg. No.	012-017
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	Hysae Hybrid		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.05 kg		
Certification Date	20.12.2016		

## Model: Hysae Hybrid 6012/28 VR

Configure model	
Model name	Hysae Hybrid 6012/28 VR
Application	Heating (low temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2	
	Low temperature
Heat output	2.96 kW
El input	0.68 kW
COP	4.34

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

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### EN 12102-1

	Low temperature
Sound power level indoor	47 dB(A)
Sound power level outdoor	58 dB(A)

### EN 14825

	Low temperature
$\eta_s$	160 %
Prated	4.00 kW
SCOP	4.07
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	4.00 kW
COP Tj = -7°C	2.60
Pdh Tj = +2°C	2.30 kW
COP Tj = +2°C	3.80
Pdh Tj = +7°C	1.50 kW
COP Tj = +7°C	6.10
Pdh Tj = 12°C	1.70 kW
COP Tj = 12°C	7.40
Cdh Tj = +12 °C	0.90

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Pdh Tj = Tbiv	4.00 kW
COP Tj = Tbiv	2.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.60 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90
WTOL	50 °C
Poff	5 W
PTO	20 W
PSB	5 W
PCK	0 W
Supplementary Heater: Type of energy input	Electricity
Supplementary Heater: PSUP	0.80 kW
Annual energy consumption Qhe	2233 kWh

## Model: Hysae Hybrid 6012/35

Configure model	
Model name	Hysae Hybrid 6012/35
Application	Heating (low temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

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