

## Subtype Hysae Hybrid

Certificate Holder	Groupe Atlantic
Address	Rue des Fondateurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	Hysae Hybrid
Registration number	012-017
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	1.05 kg
Certification Date	20.12.2016
Testing laboratory	Centro de Ensayos, Innovación y Servicios (CEIS), ES

## Model Hysae Hybrid 6012/28 VR

Model name	Hysae Hybrid 6012/28 VR
Application	Heating (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	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

### EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	2.96 kW	
El input	0.68 kW	
COP	4.34	

### EN 12102-1 | Average Climate

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

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	160 %	
Prated	4.40 kW	
SCOP	4.07	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	4.00 kW	
COP Tj = -7°C	2.60	
Cdh Tj = -7 °C		
Pdh Tj = +2°C	2.30 kW	
COP Tj = +2°C	3.80	
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.50 kW	
COP Tj = +7°C	6.10	

Cdh Tj = +7 °C	
Pdh Tj = 12°C	1.70 kW
COP Tj = 12°C	7.40
Cdh Tj = +12 °C	0.900
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	0.900
WTOL	50 °C
Poff	5 W
PTO	20 W
PSB	5 W
PCK	0 W
Supplementary Heater: Type of energy input	Gas
Supplementary Heater: PSUP	0.80 kW
Annual energy consumption Qhe	2233 kWh

## Model Hysae Hybrid 6012/35

Model name	Hysae Hybrid 6012/35
Application	Heating (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	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

### EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	2.96 kW	
El input	0.68 kW	
COP	4.34	

### EN 12102-1 | Average Climate

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

### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	160 %	
Prated	4.40 kW	
SCOP	4.07	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7°C	4.00 kW	
COP Tj = -7°C	2.60	
Cdh Tj = -7 °C		
Pdh Tj = +2°C	2.30 kW	
COP Tj = +2°C	3.80	
Cdh Tj = +2 °C		
Pdh Tj = +7°C	1.50 kW	
COP Tj = +7°C	6.10	

Cdh Tj = +7 °C	
Pdh Tj = 12°C	1.70 kW
COP Tj = 12°C	7.40
Cdh Tj = +12 °C	0.900
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	0.900
WTOL	50 °C
Poff	5 W
PTO	20 W
PSB	5 W
PCK	0 W
Supplementary Heater: Type of energy input	Gas
Supplementary Heater: PSUP	0.80 kW
Annual energy consumption Qhe	2233 kWh