

Subtype Hynéa Hybrid Duo RE+

Certificate Holder	Groupe Atlantic
Address	Rue des Fondeurs BP 64
ZIP	59660
City	Merville
Country	FR
Certification Body	RISE CERT
Subtype title	Hynéa Hybrid Duo RE+
Registration number	012-016
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	1.05 kg
Certification Date	20.12.2016
Testing basis	EN 14511-3:2007, EN 14511-3:2007/AC:2008, document "Référentiel de Certification NF 414":2011, clause 2.2.4., EN 12102:2008.
Testing laboratory	Centro de Ensayos, Innovación y Servicios (CEIS), ES

Model Hynéa Hybrid Duo RE+

Model name	Hynéa Hybrid Duo RE+
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	2.80 kW	
El input	0.66 kW	
COP	4.25	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	
Sound power level outdoor	58 dB(A)	

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	174 %	
Prated	4.10 kW	
SCOP	4.42	
Tbiv	-7 °C	
TOL	-10 °C	
Pdh Tj = -7 °C	3.70 kW	
COP Tj = -7 °C	2.60	
Cdh Tj = -7 °C		
Pdh Tj = +2 °C	2.00 kW	
COP Tj = +2 °C	4.50	
Cdh Tj = +2 °C		
Pdh Tj = +7 °C	1.50 kW	
COP Tj = +7 °C	5.70	

Cdh Tj = +7 °C	
Pdh Tj = 12°C	1.60 kW
COP Tj = 12°C	7.60
Cdh Tj = +12 °C	
Pdh Tj = Tbiv	3.70 kW
COP Tj = Tbiv	2.60
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50
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	Electricity
Supplementary Heater: PSUP	0.60 kW
Annual energy consumption Qhe	1912 kWh