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Summary of	Hynea Hybrid Duo Gaz	Reg. No.	012-016
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	Hynea Hybrid Duo Gaz		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	1.05 kg		

Model: Hynea Hybrid Duo Gaz 3

Configure model	
Model name	Hynea Hybrid Duo Gaz 3
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	2.80 kW
El input	0.66 kW
COP	4.25

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	53 dB(A)
Sound power level outdoor	58 dB(A)

EN 14825

	Low temperature
η_s	174 %
Prated	4.00 kW
SCOP	4.42
Tbiv	-7 °C
TOL	-10 °C
Pdh Tj = -7°C	3.70 kW
COP Tj = -7°C	2.60
Pdh Tj = +2°C	2.00 kW
COP Tj = +2°C	4.50
Pdh Tj = +7°C	1.50 kW
COP Tj = +7°C	5.70
Pdh Tj = 12°C	1.60 kW
COP Tj = 12°C	7.60
Pdh Tj = Tbiv	3.70 kW

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COP $T_j = T_{biv}$	2.60
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	3.50 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.50
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.90
WTOL	50 °C
P _{off}	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 Q _{he}	1912 kWh