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Summary of	Thermastage Silent Combi TSC14/ TOC14RIYF	Reg. No.	012-C700096
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	Thermastage Silent Combi TSC14/ TOC14RIYF		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	3.8 kg		
Certification Date	22.12.2020		
Testing basis	HP Keymark Scheme 2018		

## Model: Silent Combi TSC14/ TOC14RIYF

Configure model	
Model name	Silent Combi TSC14/ TOC14RIYF
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	15.10 kW	13.46 kW
El input	3.48 kW	4.75 kW
COP	4.34	2.83

EN 14511-4	
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	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	164 %	130 %
Prated	17.00 kW	16.00 kW
SCOP	4.18	3.33
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	15.40 kW	14.20 kW
COP Tj = -7°C	2.90	2.12
Pdh Tj = +2°C	9.40 kW	8.60 kW
COP Tj = +2°C	4.19	3.30
Pdh Tj = +7°C	6.70 kW	6.40 kW
COP Tj = +7°C	5.13	4.21
Pdh Tj = 12°C	8.00 kW	7.60 kW
COP Tj = 12°C	6.83	6.02
Pdh Tj = Tbiv	15.40 kW	14.20 kW

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COP $T_j = T_{biv}$	2.90	2.12
$P_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	14.70 kW	13.30 kW
COP $T_j = TOL$ or COP $T_j = T_{designh}$ if $TOL < T_{designh}$	2.62	1.88
$C_{dh} T_j = TOL$ or $P_{dh} T_j = T_{designh}$ if $TOL < T_{designh}$	0.93	0.97
WTOL	60 °C	60 °C
P <sub>off</sub>	16 W	16 W
PTO	96 W	43 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.70 kW	2.70 kW
Annual energy consumption Q <sub>he</sub>	8606 kWh	9915 kWh