Subtype Heatmi Split 4kW / 6kW / 8kW / 10kW

Certificate Holder	Rotenso Sp. z o.o.
Address	ul. Szyb Walenty 16
ZIP	41-700
City	Ruda Śląska
Country	PL
Certification Body	BRE Global Limited
Subtype title	Heatmi Split 4kW / 6kW / 8kW / 10kW
Registration number	041-K078-01
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.65 kg
Certification Date	06.12.2023
Testing basis	Heat Pump Keymark Scheme Rules Rev 12
Testing laboratory	TÜV SÜD Certification and Testing Co., Ltd. Guangzhou Branch, CN

Model HES100X1o / HES100X13i	
Model name	HES100X1o / HES100X13i
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 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
Starting and operating test	passed

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	9.5 kW	9 kW
El input	1.98 kW	3 kW
COP	4.8	3

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	192 %	133 %
Prated	9.00 kW	8.00 kW
SCOP	4.87	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.90 kW	7.10 kW
COP Tj = -7°C	3.02	2.12
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.70 kW	4.20 kW
COP Tj = +2°C	4.62	3.22
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	3.30 kW	2.70 kW
COP Tj = +7°C	6.68	4.64
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.30 kW	2.30 kW
COP Tj = 12°C	8.97	6.86
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.90 kW	7.10 kW
COP Tj = Tbiv	3.02	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.60 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.40 kW	1.90 kW
Annual energy consumption Qhe	3791 kWh	4895 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	160 %	110 %
Prated	8.00 kW	7.00 kW
SCOP	4.07	2.82
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	5.20 kW	4.30 kW
COP Tj = -7°C	3.48	2.47
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.10 kW	2.60 kW
COP Tj = +2°C	4.99	3.26
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.10 kW	1.90 kW
COP Tj = +7°C	6.19	4.18
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	2.30 kW
COP Tj = 12°C	7.64	5.73

Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	6.40 kW	5.80 kW
COP Tj = Tbiv	2.57	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.90 kW	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.49	1.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	4.10 kW	4.30 kW
Annual energy consumption Qhe	4748 kWh	6270 kWh
Pdh Tj = -15°C (if TOL	6.40	5.80
COP Tj = -15°C (if TOL	2.57	1.84
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	256 %	174 %
Prated	9.00 kW	8.00 kW
SCOP	6.48	4.42
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.50 kW	7.80 kW
COP Tj = +2°C	3.73	2.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.70 kW	5.10 kW
COP Tj = +7°C	5.81	3.83
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	2.20 kW
COP Tj = 12°C	7.93	5.66
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	8.50 kW	7.80 kW
COP Tj = Tbiv	3.73	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.50 kW	7.80 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.73	2.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1756 kWh	2386 kWh

Model HES40X1o / HES60X1i		
Model name	HES40X1o / HES60X1i	
Application	Heating (medium temp)	
Units	Indoor, Outdoor	
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate	
Reversibility	Yes	
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	
Starting and operating test	passed	

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	7.4 kW
El input	1.6 kW	2.38 kW
COP	5	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	193 %	135 %
Prated	8.00 kW	7.00 kW
SCOP	4.89	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	6.10 kW
COP Tj = -7°C	3.07	2.07
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.40 kW	3.80 kW
COP Tj = +2°C	4.62	3.33
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.90 kW	2.50 kW
COP Tj = +7°C	6.70	4.53
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.30 kW	2.30 kW
COP Tj = 12°C	8.97	6.85
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	3.07	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.60 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.40 kW	0.90 kW
Annual energy consumption Qhe	3404 kWh	4205 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	159 %	111 %
Prated	7.00 kW	6.00 kW
SCOP	4.04	2.84
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.30 kW	3.80 kW
COP Tj = -7°C	3.58	2.39
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.70 kW	2.20 kW
COP Tj = +2°C	4.88	3.42
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.00 kW	1.90 kW
COP Tj = +7°C	5.61	4.22
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	2.30 kW
COP Tj = 12°C	6.82	6.18

Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.70 kW	4.80 kW
COP Tj = Tbiv	2.68	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.40 kW	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.65	1.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.60 kW	3.30 kW
Annual energy consumption Qhe	4328 kWh	5197 kWh
Pdh Tj = -15°C (if TOL	5.70	4.80
COP Tj = -15°C (if TOL	2.68	1.84
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	253 %	174 %
Prated	8.00 kW	8.00 kW
SCOP	6.41	4.42
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.90 kW	7.80 kW
COP Tj = +2°C	3.68	2.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.10 kW	5.10 kW
COP Tj = +7°C	5.86	3.83
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	2.20 kW
COP Tj = 12°C	7.71	5.66
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.90 kW	7.80 kW
COP Tj = Tbiv	3.68	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.90 kW	7.80 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.68	2.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1658 kWh	2386 kWh

Model HES60X1o / HES60X1i		
Model name	HES60X1o / HES60X1i	
Application	Heating (medium temp)	
Units	Indoor, Outdoor	
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate	
Reversibility	Yes	
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	
Starting and operating test	passed	

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	7.4 kW
El input	1.6 kW	2.38 kW
COP	5	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	193 %	135 %
Prated	8.00 kW	7.00 kW
SCOP	4.89	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	6.10 kW
COP Tj = -7°C	3.07	2.07
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.40 kW	3.80 kW
COP Tj = +2°C	4.62	3.33
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.90 kW	2.50 kW
COP Tj = +7°C	6.70	4.53
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.30 kW	2.30 kW
COP Tj = 12°C	8.97	6.85
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	3.07	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.60 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.40 kW	0.90 kW
Annual energy consumption Qhe	3404 kWh	4205 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	159 %	111 %
Prated	7.00 kW	6.00 kW
SCOP	4.04	2.84
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.30 kW	3.80 kW
COP Tj = -7°C	3.58	2.39
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.70 kW	2.20 kW
COP Tj = +2°C	4.88	3.42
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.00 kW	1.90 kW
COP Tj = +7°C	5.61	4.22
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	2.30 kW
COP Tj = 12°C	6.82	6.18

Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.70 kW	4.80 kW
COP Tj = Tbiv	2.68	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.40 kW	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.65	1.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.60 kW	3.30 kW
Annual energy consumption Qhe	4328 kWh	5197 kWh
Pdh Tj = -15°C (if TOL	5.70	4.80
COP Tj = -15°C (if TOL	2.68	1.84
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	253 %	174 %
Prated	8.00 kW	8.00 kW
SCOP	6.41	4.42
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.90 kW	7.80 kW
COP Tj = +2°C	3.68	2.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.10 kW	5.10 kW
COP Tj = +7°C	5.86	3.83
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	2.20 kW
COP Tj = 12°C	7.71	5.66
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.90 kW	7.80 kW
COP Tj = Tbiv	3.68	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.90 kW	7.80 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.68	2.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1658 kWh	2386 kWh

Model HES80X1o / HES80X13i	
Model name	HES80X1o / HES80X13i
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Colder, Warmer, Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data	
Power supply	3x400V 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
Starting and operating test	passed

EN 14511-2 | Heating		
	Low temperature	Medium temperature
Heat output	8 kW	7.4 kW
El input	1.6 kW	2.38 kW
COP	5	3.11

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	193 %	135 %
Prated	8.00 kW	7.00 kW
SCOP	4.89	3.44
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.10 kW	6.10 kW
COP Tj = -7°C	3.07	2.07
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	4.40 kW	3.80 kW
COP Tj = +2°C	4.62	3.33
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.90 kW	2.50 kW
COP Tj = +7°C	6.70	4.53
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.30 kW	2.30 kW
COP Tj = 12°C	8.97	6.85
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.10 kW	6.10 kW
COP Tj = Tbiv	3.07	2.07
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.60 kW	6.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.85
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.40 kW	0.90 kW
Annual energy consumption Qhe	3404 kWh	4205 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	159 %	111 %
Prated	7.00 kW	6.00 kW
SCOP	4.04	2.84
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	4.30 kW	3.80 kW
COP Tj = -7°C	3.58	2.39
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.70 kW	2.20 kW
COP Tj = +2°C	4.88	3.42
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.00 kW	1.90 kW
COP Tj = +7°C	5.61	4.22
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	2.30 kW
COP Tj = 12°C	6.82	6.18

Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.70 kW	4.80 kW
COP Tj = Tbiv	2.68	1.84
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.40 kW	2.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.65	1.18
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	3.60 kW	3.30 kW
Annual energy consumption Qhe	4328 kWh	5197 kWh
Pdh Tj = -15°C (if TOL	5.70	4.80
COP Tj = -15°C (if TOL	2.68	1.84
Cdh Tj = -15 °C	0.900	0.900

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	60 dB(A)	60 dB(A)

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	Low temperature	Medium temperature
ηs	253 %	174 %
Prated	8.00 kW	8.00 kW
SCOP	6.41	4.42
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	7.90 kW	7.80 kW
COP Tj = +2°C	3.68	2.30
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	5.10 kW	5.10 kW
COP Tj = +7°C	5.86	3.83
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	2.20 kW
COP Tj = 12°C	7.71	5.66
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	7.90 kW	7.80 kW
COP Tj = Tbiv	3.68	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	7.90 kW	7.80 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.68	2.30
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	65 °C	65 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	15 W	15 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1658 kWh	2386 kWh