

Subtype RASM-2VTW2E

Certificate Holder	Johnson Controls-Hitachi AirConditioning Spain
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella
ZIP	08233
City	Vacarisses, Barcelona
Country	ES
Certification Body	BRE Global Limited
Subtype title	RASM-2VTW2E
Registration number	041-K002-76
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.9 kg
Certification Date	05.09.2025
Testing basis	Heat Pump Keymark Scheme Rules Rev 15
Testing laboratory	Centro de Ensayos, Innovación y Servicios (CEIS), ES

Model RASM-2VTW2E & ATW-CBX-01 - Heating Only

Model name	RASM-2VTW2E & ATW-CBX-01 - Heating Only
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
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	4.00 kW	4.00 kW
El input	0.85 kW	1.33 kW
COP	4.70	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	127 %
Prated	4.00 kW	4.00 kW
SCOP	4.50	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.54 kW
COP Tj = -7°C	2.64	2.18
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.15 kW	2.15 kW
COP Tj = +2°C	4.66	3.12
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.89 kW	2.86 kW

COP Tj = +7°C	6.89	4.94
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.96 kW	2.80 kW
COP Tj = 12°C	9.27	7.28
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.54 kW
COP Tj = Tbiv	2.64	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.54 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.46 kW	0.46 kW
Annual energy consumption Qhe	1836 kWh	2539 kWh

Model RASM-2VTW2E & HWM-W2E - Heating Only

Model name	RASM-2VTW2E & HWM-W2E - Heating Only
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	4.00 kW	4.00 kW
El input	0.85 kW	1.33 kW
COP	4.70	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	127 %
Prated	4.00 kW	4.00 kW
SCOP	4.50	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.54 kW
COP Tj = -7°C	2.64	2.18
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.15 kW	2.15 kW
COP Tj = +2°C	4.66	3.12
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.89 kW	2.86 kW
COP Tj = +7°C	6.89	4.94
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.96 kW	2.80 kW
COP Tj = 12°C	9.27	7.28
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.54 kW
COP Tj = Tbiv	2.64	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.54 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.46 kW	0.46 kW
Annual energy consumption Qhe	1836 kWh	2539 kWh

Model RASM-2VTW2E & HWM-W2E-B - Heating Only

Model name	RASM-2VTW2E & HWM-W2E-B - Heating Only
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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	4.00 kW	4.00 kW
El input	0.85 kW	1.33 kW
COP	4.70	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	127 %
Prated	4.00 kW	4.00 kW
SCOP	4.50	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.54 kW
COP Tj = -7°C	2.64	2.18
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.15 kW	2.15 kW
COP Tj = +2°C	4.66	3.12
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	2.89 kW	2.86 kW
COP Tj = +7°C	6.89	4.94
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.96 kW	2.80 kW
COP Tj = 12°C	9.27	7.28
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.54 kW
COP Tj = Tbiv	2.64	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.54 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.46 kW	0.46 kW
Annual energy consumption Qhe	1836 kWh	2539 kWh

Model RASM-2VTW2E & HWD-W2E-220S(-K) - Heating Only

Model name	RASM-2VTW2E & HWD-W2E-220S(-K) - Heating Only
Application	Heating + DHW
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	130 %
COP	3.19
Heating up time	1:36 h:min
Standby power input	35.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	288 l

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	4 kW	4.00 kW
El input	0.85 kW	1.33 kW
COP	4.7	3.00

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	127 %

Prated	4.00 kW	4.00 kW
SCOP	4.50	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.54 kW
COP Tj = -7°C	2.64	2.18
Cdh Tj = -7 °C		0.900
Pdh Tj = +2°C	4.66 kW	2.15 kW
COP Tj = +2°C	2.89	3.12
Cdh Tj = +2 °C		0.900
Pdh Tj = +7°C	2.96 kW	2.86 kW
COP Tj = +7°C	9.27	4.94
Cdh Tj = +7 °C		0.900
Pdh Tj = 12°C	2.96 kW	2.80 kW
COP Tj = 12°C	9.27	7.28
Cdh Tj = +12 °C		0.900
Pdh Tj = Tbiv	3.54 kW	3.54 kW
COP Tj = Tbiv	2.64	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.54 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		0.900
WTOL	35 °C	75 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.46 kW	0.46 kW
Annual energy consumption Qhe	1836 kWh	2539 kWh

Model RASM-2VTW2E & ATW-CBX-01 - With Cooling Kit

Model name	RASM-2VTW2E & ATW-CBX-01 - With Cooling Kit
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
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	4.00 kW	4.00 kW
El input	0.85 kW	1.33 kW
COP	4.70	3.00

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.44 kW	0.92 kW
Cooling capacity	4.00	4.00
EER	2.78	4.34

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	182 %	130 %
Prated	4.00 kW	4.00 kW
SCOP	4.62	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	3.54 kW	3.54 kW
COP Tj = -7°C	2.64	2.18
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.15 kW	2.15 kW
COP Tj = +2°C	4.66	3.12
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.89 kW	2.86 kW
COP Tj = +7°C	6.89	4.94
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.96 kW	2.80 kW
COP Tj = 12°C	9.27	7.28
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.54 kW
COP Tj = Tbiv	2.64	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.54 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.46 kW	0.46 kW
Annual energy consumption Qhe	1788 kWh	2492 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	4.00 kW
SEER	3.45	4.76
Pdc Tj = 35°C	4.00 kW	4.00 kW
EER Tj = 35°C	2.78	4.34
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	3.00 kW	3.00 kW
EER Tj = 30°C	3.42	4.80
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.80 kW	2.80 kW
EER Tj = 25°C	3.91	5.55
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.76 kW	3.26 kW
EER Tj = 20°C	4.74	6.57
Cdc Tj = 20 °C	0.900	0.900
Poff	13 W	13 W

PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Annual energy consumption Qce	696 kWh	504 kWh

Model RASM-2VTW2E & HWM-W2E - With Cooling Kit

Model name	RASM-2VTW2E & HWM-W2E - With Cooling Kit
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
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	4.00 kW	4.00 kW
El input	0.85 kW	1.33 kW
COP	4.70	3.00

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.44 kW	0.92 kW
Cooling capacity	4.00	4.00
EER	2.78	4.34

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	182 %	130 %
Prated	4.00 kW	4.00 kW
SCOP	4.62	3.32
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.54 kW
COP Tj = -7°C	2.64	2.18
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.15 kW	2.15 kW
COP Tj = +2°C	4.66	3.12
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.89 kW	2.86 kW
COP Tj = +7°C	6.89	4.94
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.96 kW	2.80 kW
COP Tj = 12°C	9.27	7.28
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.54 kW
COP Tj = Tbiv	2.64	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.54 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.46 kW	0.46 kW
Annual energy consumption Qhe	1788 kWh	2492 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	4.00 kW
SEER	3.45	4.76
Pdc Tj = 35°C	4.00 kW	4.00 kW
EER Tj = 35°C	2.78	4.34
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	3.00 kW	3.00 kW
EER Tj = 30°C	3.42	4.80
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.80 kW	2.80 kW
EER Tj = 25°C	3.91	5.55
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.76 kW	3.26 kW
EER Tj = 20°C	4.74	6.57
Cdc Tj = 20 °C	0.900	0.900

Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Annual energy consumption Qce	696 kWh	504 kWh

Model RASM-2VTW2E & HWM-W2E-B - With Cooling Kit

Model name	RASM-2VTW2E & HWM-W2E-B - With Cooling Kit
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
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	4.00 kW	4.00 kW
El input	0.85 kW	1.33 kW
COP	4.70	3.00

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.44 kW	0.92 kW
Cooling capacity	4.00	4.00
EER	2.78	4.34

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	182 %	130 %
Prated	4.00 kW	4.00 kW
SCOP	4.62	3.32
Tbiv	-7 °C	-7 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.54 kW
COP Tj = -7°C	2.64	2.18
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.15 kW	2.15 kW
COP Tj = +2°C	4.66	3.12
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.89 kW	2.86 kW
COP Tj = +7°C	6.89	4.94
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.96 kW	2.80 kW
COP Tj = 12°C	9.27	7.28
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	3.54 kW	3.54 kW
COP Tj = Tbiv	2.64	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.54 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	75 °C	75 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.46 kW	0.46 kW
Annual energy consumption Qhe	1788 kWh	2492 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	4.00 kW
SEER	3.45	4.76
Pdc Tj = 35°C	4.00 kW	4.00 kW
EER Tj = 35°C	2.78	4.34
Cdc Tj = 35 °C	0.900	0.900
Pdc Tj = 30°C	3.00 kW	3.00 kW
EER Tj = 30°C	3.42	4.80
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.80 kW	2.80 kW
EER Tj = 25°C	3.91	5.55
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.76 kW	3.26 kW
EER Tj = 20°C	4.74	6.57
Cdc Tj = 20 °C	0.900	0.900

Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Annual energy consumption Qce	696 kWh	504 kWh

Model RASM-2VTW2E & HWD-W2E-220S(-K) - With Cooling Kit

Model name	RASM-2VTW2E & HWD-W2E-220S(-K) - With Cooling Kit
Application	Heating + DHW
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	130 %
COP	3.19
Heating up time	1:36 h:min
Standby power input	35.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	288 l

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	4 kW	4.00 kW
El input	0.85 kW	1.33 kW
COP	4.7	3.00

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.44 kW	0.92 kW
Cooling capacity	4.00	4.00
EER	2.78	4.34

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	41 dB(A)	41 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	130 %
Prated	4.00 kW	4.00 kW
SCOP	4.50	3.32
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.54 kW
COP Tj = -7°C	2.64	2.18
Cdh Tj = -7 °C		0.900
Pdh Tj = +2°C	4.66 kW	2.15 kW
COP Tj = +2°C	2.89	3.12
Cdh Tj = +2 °C		0.900
Pdh Tj = +7°C	2.96 kW	2.86 kW
COP Tj = +7°C	9.27	4.94
Cdh Tj = +7 °C		0.900
Pdh Tj = 12°C	2.96 kW	2.80 kW
COP Tj = 12°C	9.27	7.28
Cdh Tj = +12 °C		0.900
Pdh Tj = Tbiv	3.54 kW	3.54 kW
COP Tj = Tbiv	2.64	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.54 kW	3.54 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		0.900
WTOL	35 °C	75 °C
Poff	13 W	13 W
PTO	13 W	13 W
PSB	13 W	13 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	Electricity
Supplementary Heater: PSUP	0.46 kW	0.46 kW
Annual energy consumption Qhe	1836 kWh	2492 kWh

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	+7°C/+12°C	+18°C/+23°C
Pdesignc	4.00 kW	4.00 kW
SEER	3.45	4.76
Pdc Tj = 35°C	4.00 kW	4.00 kW
EER Tj = 35°C	2.78	4.34
Cdc Tj = 35 °C	0.900	0.900

Pdc Tj = 30°C	3.00 kW	3.00 kW
EER Tj = 30°C	3.42	4.80
Cdc Tj = 30 °C	0.900	0.900
Pdc Tj = 25°C	2.80 kW	2.80 kW
EER Tj = 25°C	3.91	5.55
Cdc Tj = 25 °C	0.900	0.900
Pdc Tj = 20°C	2.76 kW	3.26 kW
EER Tj = 20°C	4.74	6.57
Cdc Tj = 20 °C	0.900	0.900
Poff	13 W	13 W
PTO	0 W	0 W
PSB	13 W	13 W
PCK	0 W	0 W
Annual energy consumption Qce	696 kWh	504 kWh