

	<u>_</u>		
Summary of	01. Yutaki S & S Combi 2.0HP	Reg. No.	041-K002-01
Certificate Holder			
Name	Johnson Controls-Hitachi AirConditioning Sp	ain	
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella	Zip	08233
City	Vacarisses, Barcelona	Country	Spain
Certification Body	BRE Energy & Communications Division		
Name of testing laboratory	CEIS		
Subtype title	01. Yutaki S & S Combi 2.0HP		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1.4 kg		



Model: RAS-2WHVNP RWM-2.0NE - Heating Only

General Data	
Power supply	1x230V 50Hz

Heating

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	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	3.00
Indoor water flow rate	0.77 m³/h	0.46 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	189 %	137 %
Prated	4.00 kW	4.00 kW
SCOP	4.80	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	5.20	3.73
Pdh Tj = +7°C	1.70 kW	1.60 kW
COP Tj = +7°C	6.05	4.40
Pdh Tj = 12°C	1.75 kW	1.60 kW
COP Tj = 12°C	6.25	5.00
Pdh Tj = Tbiv	3.54 kW	3.50 kW



COP Tj = Tbiv	3.20	2.30
Pdh Tj = TOL	4.00 kW	3.10 kW
COP Tj = TOL	2.75	1.90
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
РТО	o w	o w
PSB	11 W	11 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1719 kWh	2358 kWh



Model: RAS-2WHVNP RWD-2.0NWE-200S - Heating Only

General Data	
Power supply	1x230V 50Hz

Heating

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	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	3.00
Indoor water flow rate	0.77 m³/h	0.46 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	189 %	137 %
Prated	4.00 kW	4.00 kW
SCOP	4.80	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	5.20	3.73
Pdh Tj = +7°C	1.70 kW	1.60 kW
COP Tj = +7°C	6.05	4.40
Pdh Tj = 12°C	1.75 kW	1.60 kW
COP Tj = 12°C	6.25	5.00
Pdh Tj = Tbiv	3.54 kW	3.50 kW





COP Tj = Tbiv	3.20	2.30
Pdh Tj = TOL	4.00 kW	3.10 kW
COP Tj = TOL	2.75	1.90
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
РТО	o w	0 W
PSB	11 W	11 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1719 kWh	2358 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	1:43 h:min	
Standby power input	37.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	263 I	



Model: RAS-2WHVNP RWD-2.0NWE-260S - Heating Only

General Data	
Power supply	1x230V 50Hz

Heating

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	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	3.00
Indoor water flow rate	0.77 m³/h	0.46 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	189 %	137 %
Prated	4.00 kW	4.00 kW
SCOP	4.80	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	5.20	3.73
Pdh Tj = +7°C	1.70 kW	1.60 kW
COP Tj = +7°C	6.05	4.40
Pdh Tj = 12°C	1.75 kW	1.60 kW
COP Tj = 12°C	6.25	5.00
Pdh Tj = Tbiv	3.54 kW	3.50 kW





This information was generated by the Fit RETF with database of 17 Bee 2020			
COP Tj = Tbiv	3.20	2.30	
Pdh Tj = TOL	4.00 kW	3.10 kW	
COP Tj = TOL	2.75	1.90	
Cdh	0.90	0.90	
WTOL	55 °C	55 °C	
Poff	11 W	11 W	
РТО	o w	o w	
PSB	11 W	11 W	
PCK	0 W	0 W	
Supplementary Heater: Type of energy input	electricity	electricity	
Supplementary Heater: PSUP	0.00 kW	0.90 kW	

1719 kWh

2358 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe





 $$\operatorname{\textit{Page}}\ 12$ of 39$$ This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	136 %	
СОР	3.40	
Heating up time	2:10 h:min	
Standby power input	41.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	350 I	



Model: RAS-2WHVNP RWD-2.0NWE-200S-K - UK-Heating Only

General Data	
Power supply 1x230V 50Hz	

Heating

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	

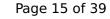
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	3.00
Indoor water flow rate	0.77 m³/h	0.46 m³/h



 $$\operatorname{\textit{Page}}\ 14$$ of 39 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	37 dB(A)	37 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	189 %	137 %
Prated	4.00 kW	4.00 kW
SCOP	4.80	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	5.20	3.73
Pdh Tj = +7°C	1.70 kW	1.60 kW
COP Tj = +7°C	6.05	4.40
Pdh Tj = 12°C	1.75 kW	1.60 kW
COP Tj = 12°C	6.25	5.00
Pdh Tj = Tbiv	3.54 kW	3.50 kW





This information was ge	enerated by the HP KEYM	ARK database on 17 Dec 2020
COP Tj = Tbiv	3.20	2.30
Pdh Tj = TOL	4.00 kW	3.10 kW
COP Tj = TOL	2.75	1.90
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
РТО	0 W	0 W
PSB	11 W	11 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW

1719 kWh

2358 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe





 $$\operatorname{\textit{Page}}\ 16$$ of 39 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	132 %	
СОР	3.30	
Heating up time	1:43 h:min	
Standby power input	37.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	263 I	

Model: RAS-2WHVNP RWD-2.0NWE-260S-K - UK-Heating Only

General Data	
Power supply	1x230V 50Hz

Heating

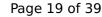
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.30 kW	4.30 kW	
El input	0.82 kW	1.43 kW	
СОР	5.25	3.00	
Indoor water flow rate	0.77 m³/h	0.46 m³/h	



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	37 dB(A)	37 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	189 %	137 %
Prated	4.00 kW	4.00 kW
SCOP	4.80	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	5.20	3.73
Pdh Tj = +7°C	1.70 kW	1.60 kW
COP Tj = +7°C	6.05	4.40
Pdh Tj = 12°C	1.75 kW	1.60 kW
COP Tj = 12°C	6.25	5.00
Pdh Tj = Tbiv	3.54 kW	3.50 kW





This information was	generated by the	ne HP KEYMARK	database on 1	7 Dec 2020

COP Tj = Tbiv	3.20	2.30
Pdh Tj = TOL	4.00 kW	3.10 kW
COP Tj = TOL	2.75	1.90
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
РТО	o w	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1719 kWh	2358 kWh

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$ 20 of 39 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	136 %	
СОР	3.40	
Heating up time	2:10 h:min	
Standby power input	41.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	350 I	



Model: RAS-2WHVNP RWD-2.0NWSE-260S - Solar - Heating Only

General Data	
Power supply	1x230V 50Hz

Heating

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

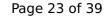
EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	3.00
Indoor water flow rate	0.77 m³/h	0.46 m³/h



 $$\operatorname{\textit{Page}}\xspace$ 22 of 39 This information was generated by the HP KEYMARK database on 17 Dec 2020

	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

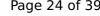
EN 14825		
	Low temperature	Medium temperature
η_{s}	189 %	137 %
Prated	4.00 kW	4.00 kW
SCOP	4.80	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	5.20	3.73
Pdh Tj = +7°C	1.70 kW	1.60 kW
COP Tj = +7°C	6.05	4.40
Pdh Tj = 12°C	1.75 kW	1.60 kW
COP Tj = 12°C	6.25	5.00
Pdh Tj = Tbiv	3.54 kW	3.50 kW





COP Tj = Tbiv	3.20	2.30
Pdh Tj = TOL	4.00 kW	3.10 kW
COP Tj = TOL	2.75	1.90
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
РТО	0 W	o w
PSB	11 W	11 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1719 kWh	2358 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	XL
Efficiency ηDHW	136 %
СОР	3.40
Heating up time	2:10 h:min
Standby power input	41.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 I



Model: RAS-2WHVNP RWM-2.0NE - with cooling kit

General Data	
Power supply	1x230V 50Hz

Heating

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

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	3.00
Indoor water flow rate	0.77 m³/h	0.46 m³/h



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	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	194 %	140 %
Prated	4.00 kW	4.00 kW
SCOP	4.93	3.58
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	5.20	3.73
Pdh Tj = +7°C	1.70 kW	1.60 kW
COP Tj = +7°C	6.05	4.40
Pdh Tj = 12°C	1.75 kW	1.60 kW
COP Tj = 12°C	6.25	5.00
Pdh Tj = Tbiv	3.54 kW	3.50 kW



$$\operatorname{\textit{Page}}\xspace$ 27 of 39 This information was generated by the HP KEYMARK database on 17 Dec 2020

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COP Tj = Tbiv	3.20	2.30
Pdh Tj = TOL	4.00 kW	3.10 kW
COP Tj = TOL	2.75	1.90
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
РТО	o w	o w
PSB	11 W	11 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1675 kWh	2314 kWh



Model: RAS-2WHVNP RWD-2.0NWE-200S - with cooling kit

General Data	
Power supply 1x230V 50Hz	

Heating

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	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	3.00
Indoor water flow rate	0.77 m³/h	0.46 m³/h



 $$\operatorname{\textit{Page}}\xspace$ 29 of 39 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	61 dB(A)	61 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	194 %	140 %
Prated	4.00 kW	4.00 kW
SCOP	4.93	3.58
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	5.20	3.73
Pdh Tj = +7°C	1.70 kW	1.60 kW
COP Tj = +7°C	6.05	4.40
Pdh Tj = 12°C	1.75 kW	1.60 kW
COP Tj = 12°C	6.25	5.00
Pdh Tj = Tbiv	3.54 kW	3.50 kW

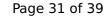




This information was	generated by th	e HP KEYMARK	database on	17 Dec 2	020

COP Tj = Tbiv	3.20	2.30
Pdh Tj = TOL	4.00 kW	3.10 kW
COP Tj = TOL	2.75	1.90
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
РТО	0 W	o w
PSB	11 W	11 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1675 kWh	2314 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	132 %
СОР	3.30
Heating up time	1:43 h:min
Standby power input	37.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 I



Model: RAS-2WHVNP RWD-2.0NWE-260S - with cooling kit

General Data	
Power supply 1x230V 50Hz	

Heating

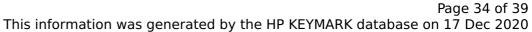
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	4.30 kW	4.30 kW
El input	0.82 kW	1.43 kW
СОР	5.25	3.00
Indoor water flow rate	0.77 m³/h	0.46 m³/h



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	37 dB(A)	37 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	194 %	140 %
Prated	4.00 kW	4.00 kW
SCOP	4.93	3.58
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	5.20	3.73
Pdh Tj = +7°C	1.70 kW	1.60 kW
COP Tj = +7°C	6.05	4.40
Pdh Tj = 12°C	1.75 kW	1.60 kW
COP Tj = 12°C	6.25	5.00
Pdh Tj = Tbiv	3.54 kW	3.50 kW





This information was generated by the in NETT with addasse on 17 Dec 202			
COP Tj = Tbiv	3.20	2.30	
Pdh Tj = TOL	4.00 kW	3.10 kW	
COP Tj = TOL	2.75	1.90	
Cdh	0.90	0.90	
WTOL	55 °C	55 °C	
Poff	11 W	11 W	
РТО	0 W	0 W	
PSB	11 W	11 W	
PCK	0 W	o w	
Supplementary Heater: Type of energy input	electricity	electricity	

0.00 kW

1675 kWh

0.90 kW

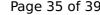
2314 kWh

Domestic Hot Water (DHW)

Average Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe





$$\operatorname{\textit{Page}}\ 35$$ of 39 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	136 %	
СОР	3.40	
Heating up time	2:10 h:min	
Standby power input	41.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	350 I	



Model: RAS-2WHVNP RWD-2.0NWSE-260S - Solar - with cooling kit

General Data		
Power supply	1x230V 50Hz	

Heating

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	

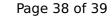
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	4.30 kW	4.30 kW	
El input	0.82 kW	1.43 kW	
СОР	5.25	3.00	
Indoor water flow rate	0.77 m³/h	0.46 m³/h	



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EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	37 dB(A)	37 dB(A)	
Sound power level outdoor	61 dB(A)	61 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	194 %	140 %
Prated	4.00 kW	4.00 kW
SCOP	4.93	3.58
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.54 kW	3.50 kW
COP Tj = -7°C	3.20	2.30
Pdh Tj = +2°C	2.15 kW	2.10 kW
COP Tj = +2°C	5.20	3.73
Pdh Tj = +7°C	1.70 kW	1.60 kW
COP Tj = +7°C	6.05	4.40
Pdh Tj = 12°C	1.75 kW	1.60 kW
COP Tj = 12°C	6.25	5.00
Pdh Tj = Tbiv	3.54 kW	3.50 kW





COP Tj = Tbiv	3.20	2.30
Pdh Tj = TOL	4.00 kW	3.10 kW
COP Tj = TOL	2.75	1.90
Cdh	0.90	0.90
WTOL	55 °C	55 °C
Poff	11 W	11 W
РТО	0 W	0 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.90 kW
Annual energy consumption Qhe	1675 kWh	2314 kWh

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	XL	
Efficiency ηDHW	136 %	
СОР	3.40	
Heating up time	2:10 h:min	
Standby power input	41.0 W	
Reference hot water temperature	54.0 °C	
Mixed water at 40°C	350 I	