

Summary of	03. Yutaki S & S Combi 3.0HP	Reg. No.	041-K002-03
Certificate Holder			
Name	Johnson Controls-Hitachi AirConditioning Spa	ain	
Address	Ronda Shimizu, 1. Pol. Ind. Can Torrella	Zip	08233
City	Vacarisses, Barcelona	Country	Spain
Certification Body	BRE Energy & Communications Division	BRE Energy & Communications Division	
Name of testing laboratory	CEIS		
Subtype title	03. Yutaki S & S Combi 3.0HP		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	1.7 kg		



Model: RAS-3WHVNP RWM-3.0NE - 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
СОР	4.55	2.57
Indoor water flow rate	1.29 m³/h	0.80 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW



COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 kWh



Model: RAS-3WHVNP RWD-3.0NWE-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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
СОР	4.55	2.57
Indoor water flow rate	1.29 m³/h	0.80 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW





COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 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-3WHVNP RWD-3.0NWE-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	

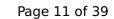
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
СОР	4.55	2.57
Indoor water flow rate	1.29 m³/h	0.80 m³/h



 $$\operatorname{\textit{Page}}\ 10$$ 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	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW





This information was generated by the HP KEYMARK database on 17 Dec 20		
COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 kWh

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\ 12$ of 39$$ 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-3WHVNP RWD-3.0NWE-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	

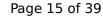
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
СОР	4.55	2.57
Indoor water flow rate	1.29 m³/h	0.80 m³/h



 $$\operatorname{\textit{Page}}\ 14$$ 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	64 dB(A)	64 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW





COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 kWh

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\ 16$$ 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-3WHVNP RWD-3.0NWE-260S-K - UK-Heating Only

General Data	
Power supply	1x230V 50Hz

Heating

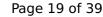
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	7.50 kW	7.50 kW	
El input	2.92 kW	2.08 kW	
СОР	4.55	2.57	
Indoor water flow rate	1.29 m³/h	0.80 m³/h	



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	37 dB(A)	37 dB(A)	
Sound power level outdoor	64 dB(A)	64 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW





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

COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 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-3WHVNP RWD-3.0NWSE-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

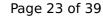
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
СОР	4.55	2.57
Indoor water flow rate	1.29 m³/h	0.80 m³/h



 $$\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	64 dB(A)	64 dB(A)

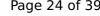
EN 14825		
	Low temperature	Medium temperature
η_{s}	165 %	125 %
Prated	7.00 kW	6.00 kW
SCOP	4.20	3.20
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW





COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3286 kWh	3724 kWh

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$ 24 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-3WHVNP RWM-3.0NE - 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	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
СОР	4.55	2.57
Indoor water flow rate	1.29 m³/h	0.80 m³/h



 $$\operatorname{\textit{Page}}\xspace$ 26 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	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	167 %	127 %
Prated	7.00 kW	6.00 kW
SCOP	4.25	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW



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

	-	
COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3242 kWh	3690 kWh



Model: RAS-3WHVNP RWD-3.0NWE-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	

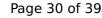
EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
СОР	4.55	2.57
Indoor water flow rate	1.29 m³/h	0.80 m³/h



 $$\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	64 dB(A)	64 dB(A)

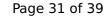
EN 14825		
	Low temperature	Medium temperature
η_{s}	167 %	127 %
Prated	7.00 kW	6.00 kW
SCOP	4.25	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW





COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3242 kWh	3690 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-3WHVNP RWD-3.0NWE-260S - with cooling kit

General Data	
Power supply 1x230V 50Hz	

Heating

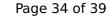
EN 14511-4		
Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed	
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed	
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	7.50 kW	7.50 kW
El input	2.92 kW	2.08 kW
СОР	4.55	2.57
Indoor water flow rate	1.29 m³/h	0.80 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	37 dB(A)	37 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	167 %	127 %
Prated	7.00 kW	6.00 kW
SCOP	4.25	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW

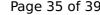




This information was generated by the HP RETMARK database on 17 Dec 202		
COP Tj = Tbiv	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW

COP IJ = IDIV	2.50	1.84
Pdh Tj = TOL	6.40 kW	4.30 kW
COP Tj = TOL	2.30	1.65
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	0.60 kW	1.50 kW
Annual energy consumption Qhe	3242 kWh	3690 kWh

Domestic Hot Water (DHW)





$$\operatorname{\textit{Page}}\ 35$$ 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-3WHVNP RWD-3.0NWSE-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		

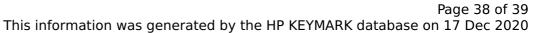
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	7.50 kW	7.50 kW	
El input	2.92 kW	2.08 kW	
СОР	4.55	2.57	
Indoor water flow rate	1.29 m³/h	0.80 m³/h	



 $$\operatorname{\textit{Page}}\xspace$ 37 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	64 dB(A)	64 dB(A)	

EN 14825		
	Low temperature	Medium temperature
η_{s}	167 %	127 %
Prated	7.00 kW	6.00 kW
SCOP	4.25	3.25
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.90 kW	5.10 kW
COP Tj = -7°C	2.50	1.84
Pdh Tj = +2°C	3.59 kW	3.10 kW
COP Tj = +2°C	4.40	3.20
Pdh Tj = +7°C	2.31 kW	2.00 kW
COP Tj = +7°C	5.35	4.45
Pdh Tj = 12°C	2.10 kW	2.30 kW
COP Tj = 12°C	6.15	5.96
Pdh Tj = Tbiv	5.90 kW	5.10 kW





COP Tj = Tbiv	2.50	1.84	
Pdh Tj = TOL	6.40 kW	4.30 kW	
COP Tj = TOL	2.30	1.65	
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	0.60 kW	1.50 kW	

3242 kWh

3690 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe





$$\operatorname{\textit{Page}}\ 39$$ 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	