

Subtype 07. Yutaki S & S Combi 4.0HP (tri)

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	07. Yutaki S & S Combi 4.0HP (tri)
Registration number	041-K002-07
Heat Pump Type	Outdoor Air/Water
Refrigerant	R1234yf
Mass of Refrigerant	3.4 kg
Testing basis	HP Keymark Scheme Rules Rev 07

Model RAS-4WHNPE RWM-4.0NE - Heating Only (tri)

Model name	RAS-4WHNPE RWM-4.0NE - Heating Only (tri)
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	135 %
Prated	11.00 kW	10.00 kW
SCOP	4.72	3.45
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = -7°C	2.74	1.80
Pdh Tj = +2°C	5.84 kW	5.23 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.52 kW
COP Tj = +7°C	5.80	4.80
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	5.80
Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.30 kW
Annual energy consumption Qhe	4736 kWh	5837 kWh

Model RAS-4WHNPE RWD-4.0NWE-200S - Heating Only (tri)

Model name	RAS-4WHNPE RWD-4.0NWE-200S - Heating Only (tri)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	130 %
COP	3.25
Heating up time	1:23 h:min
Standby power input	49.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l

Model RAS-4WHNPE RWD-4.0NWE-260S - Heating Only (tri)

Model name	RAS-4WHNPE RWD-4.0NWE-260S - Heating Only (tri)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	134 %
COP	3.35
Heating up time	1:44 h:min
Standby power input	51.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

Model RAS-4WHNPE RWD-4.0NWE-200S-K - UK- Heating Only (tri)

Model name	RAS-4WHNPE RWD-4.0NWE-200S-K - UK- Heating Only (tri)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	130 %
COP	3.25
Heating up time	1:23 h:min
Standby power input	49.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l

Model RAS-4WHNPE RWD-4.0NWE-260S-K - UK- Heating Only (tri)

Model name	RAS-4WHNPE RWD-4.0NWE-260S-K - UK- Heating Only (tri)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	134 %
COP	3.35
Heating up time	1:44 h:min
Standby power input	51.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

Model RAS-4WHNPE RWD-4.0NWSE-260S - Solar - Heating Only (tri)

Model name	RAS-4WHNPE RWD-4.0NWSE-260S - Solar - Heating Only (tri)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	134 %
COP	3.35
Heating up time	1:44 h:min
Standby power input	51.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

Model RAS-4WHNPE RWM-4.0NE - with cooling kit (tri)

Model name	RAS-4WHNPE RWM-4.0NE - with cooling kit (tri)
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
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

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	189 %	137 %
Prated	11.00 kW	10.00 kW
SCOP	4.80	3.50
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.60 kW	8.60 kW
COP Tj = -7°C	2.74	1.80
Pdh Tj = +2°C	5.84 kW	5.23 kW
COP Tj = +2°C	5.20	3.60
Pdh Tj = +7°C	3.76 kW	3.52 kW
COP Tj = +7°C	5.80	4.80
Pdh Tj = 12°C	3.70 kW	3.60 kW
COP Tj = 12°C	6.40	5.80
Pdh Tj = Tbiv	9.60 kW	8.60 kW
COP Tj = Tbiv	2.74	1.80
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.50 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.65	1.70

Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.90	0.90
WTOL	55 °C	55 °C
Poff	19 W	19 W
PTO	0 W	0 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.50 kW	2.30 kW
Annual energy consumption Qhe	4666 kWh	5767 kWh

Model RAS-4WHNPE RWD-4.0NWE-200S - with cooling kit (tri)

Model name	RAS-4WHNPE RWD-4.0NWE-200S - with cooling kit (tri)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	L
Efficiency η_{DHW}	130 %
COP	3.25
Heating up time	1:23 h:min
Standby power input	49.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	263 l

Model RAS-4WHNPE RWD-4.0NWE-260S - with cooling kit (tri)

Model name	RAS-4WHNPE RWD-4.0NWE-260S - with cooling kit (tri)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	134 %
COP	3.35
Heating up time	1:44 h:min
Standby power input	51.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l

Model RAS-4WHNPE RWD-4.0NWSE-260S - Solar - with cooling kit (tri)

Model name	RAS-4WHNPE RWD-4.0NWSE-260S - Solar - with cooling kit (tri)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	Yes

Outdoor Air/Water

EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	134 %
COP	3.35
Heating up time	1:44 h:min
Standby power input	51.0 W
Reference hot water temperature	54.0 °C
Mixed water at 40°C	350 l