Yutaki S80

Up to 80°C start temperature without electric heating element



Smart Cascade regulation

The Yutaki S80 range features a Smart Cascade cycle, (unique on the market), which automatically adjusts Heat Pump operation based on heating requirements. This way, when heating requirements are less (water temperature until 53°C), the Heat Pump only uses the R410A refrigerant. When the requirement increases (water temperature up to 80°C), the second cycle of R134A refrigerant is activated. This way, consumption is reduced to a minimum and comfort is always guaranteed. (Fig. 1)

Modularity to adapt to each client's needs

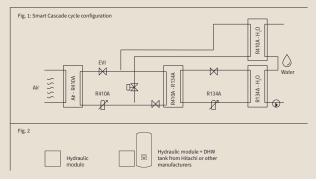
To meet all market requirements, the Yutaki S80 can add a separate tank of up to 3000L to meet domestic hot water requirements in multiresidence accommodation.

Constant heating all year round down to -25°C

This equipment heats water up to 80°C using renewable energy, including extreme temperatures down to -25°C.

Easy installation and maintenance

Its design means easy access to water and refrigerant connections and they are located in the upper part of the indoor unit.



Controls and controllers



Wired controller PC-ARFH1E

Pre-tax price: Not included



Wireless controller ATW-RTU-07

Pre-tax price:

Others*:

- 2nd zone kit with a 3-way valve and wall mounted circulator ATW-2TK-07
- Hi-Box AHP-SMB-01
- Hi Kumo gateway for Hi-Box ATW -TAG-02











Yutaki S80

| | | | | FLUIDE R410A + R134A | |
|--|--|--|--|--|------------------------------|
| Model | | | YUTAKI S80 11KW | YUTAKI S80 14KW | YUTAKI S80 16KW |
| Heating perform | ances | | | | |
| Min/nom./max ca | pacity heating (7°c ext/35°c water) | kW | 11/15.2 | 14/16.7 | 16/17.8 |
| Nom./max capaci | ity heating (-7°c ext/35°c water) | kW | 9.7/10.6 | 11.5/12.2 | 12.1/13 |
| Nom./max capaci | ity heating (-7°c ext/45°c water) | kW | 11/12.5 | 14/14.5 | 16/16 |
| Nom./max capaci | ity heating (-7°c ext/55°c water) | kW | 11/12.5 | 14/14.5 | 16/16 |
| | on heating (7°C ext/35°C water) | kW | 2.2 | 2.97 | 3.5 |
| COP (7°c ext/35°c water) acc. to EN14511 | | | 5 | 4.71 | 4.57 |
| SCOP medium climate 35°c/55°c acc. to EN14825 | | | 4.75/3.63 | 4.43/3.35 | 3.88/3.23 |
| Seasonal energy efficiency heating ηs (35°C) Single/Three ⁽¹⁾ | | % | 189/188 | 177/176 | 155/154 |
| Seasonal energy efficiency heating ηs (55°C) Single/Three ⁽¹⁾ | | % | 138/137 | 135/135 | 127/127 |
| Energy class 35°c/55°c | | | A+++/A++ A++/A | | A++/A++ |
| Water output temperature range (heating mode) | | °C | 20/80 °C | | |
| Max. water output temperature | | °C | 80°c down to -20 °c ext | | |
| Hydraulic modules | | | RWH-4.0(V)NFE | RWH-5.0(V)NFE | RWH-6.0(V)NFE |
| Weight | | kg | 135/137 | 139/146 | 139/146 |
| Dimensions (HxW | xD) | mm | | 751 x 600 x 623 | |
| Sound pressure le | evel | dB(A) | 57 | 57 | 58 |
| Controller | | | | Not included | |
| | | | | | |
| Hydraulic specifi Expansion tank | cations | L | | 12 | |
| | | | 4 14 00 10 5 | ·- | 4.070.7570.0 |
| Water flow (min/r | | m³/h | 1/1.89/2.5 | 1.1/2.41/3.2 | 1.3/2.75/3.2 |
| Heating hydraulio (male-male valve | connections s supplied) | inch | | 1" 1/4 | |
| Minimum water v | olume for the installation | L | 40 | 50 | 50 |
| Refrigerant spec | ifications | | | | |
| Fluid | | | | R134A | |
| | charge pre-charged | kg | | 1.9 kg for 15m | |
| | charge pre-charged | Kg | | SCROLL | |
| Compressor | | | | SCROLL | |
| | | | | | |
| Electrical specifi | cations | | | | |
| | cations | | | 230V/1Ph/50Hz or 400V/3Ph/50Hz | |
| Electrical power SINGLE-PHASE | Max. current | A | 24 | 230V/1Ph/50Hz or 400V/3Ph/50Hz 28 | 31 |
| Electrical power | | A | 24 | | 31 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE | Max. current | A | 24 10 | 28 | 31 10 |
| Electrical power SINGLE-PHASE 230V | Max. current Cable diameter (mm²)/max. length (m) | | | 28 3 x 6 | |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) | | 10 | 28 3 x 6 10 5 x 2.5 | 10 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoor | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units | A | 10 RAS-4WH(V)NPE | 28 3 x 6 10 5 x 2.5 RAS-5WH(V)NPE | 10 RAS-6WH(V)NPE |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoo Pressure level at: | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) | A dB(A) | 10 RAS-4WH(V)NPE 49/61 | 28 3 x 6 10 5 x 2.5 RAS-SWH(V)NPE 50/63 | 10 RAS-6WH(V)NPE 50/64 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoo Pressure level at . | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) wr units Im/Acoustic pressure heating mode | dB(A) | 10 RAS-4WH(V)NPE | 28 3 x 6 10 5 x 2.5 RAS-SWH/VINPE 50/63 5400 | 10 RAS-6WH(V)NPE |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoo Pressure level at: Airflow Dimensions (H.x.) | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) wr units Im/Acoustic pressure heating mode | dB(A) m³/h mm | 10 RAS-4WH(V)NPE 49/61 | 28 3 x 6 10 5 x 2.5 RAS-SWHIVINPE 50/63 5400 1380 x 950 x 370 | 10 RAS-6WH(V)NPE 50/64 |
| 230V THREE-PHASE 400V Premium outdoo Pressure level at Airflow Dimensions (H x) Weight | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Lum/Acoustic pressure heating mode N x D) | dB(A) | 10 RAS-4WH(V)NPE 49/61 | 28 3 x 6 10 5 x 2.5 RAS-SWH/VINPE 50/63 5400 | 10 RAS-6WH(V)NPE 50/64 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoc Pressure level at Airflow Dimensions (H x) Weight Operating ranges | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Irm/Acoustic pressure heating mode W x D) Heating/DHW | dB(A) m³/h mm kg | 10 RAS-4WH(V)NPE 49/61 | 28 3 x 6 10 5 x 2.5 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 | 10 RAS-6WH(V)NPE 50/64 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoc Pressure level at Airflow Dimensions (H x) Weight Operating ranges Refrigerant spec | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) Vr units Lm/Acoustic pressure heating mode W x D) Heating/DHW ifications | dB(A) m³/h mm kg °C | 10 RAS-4WH(V)NPE 49/61 | 28 3 x 6 10 5 x 2.5 RAS-SWH/VIMPE 50/63 5400 1380 x 950 x 370 103 -25/+25 //-25/+35 | 10 RAS-6WH(V)NPE 50/64 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoc Pressure level at: Airflow Dimensions (H x V) Weight Operating ranges Refrigerant spec Refrigerant spec | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) Max current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode W x D) Heating/DHW Ifications Idiameter (Lid/gas) | A dB(A) m³/h mm kg °C | 10 RAS-4WH(V)NPE 49/61 | 28 3 x 6 10 5 x 2.5 RAS-SWH(VINPE 50/63 5400 1380 x 950 x 370 103 -25/+25/-25/-35 | 10 RAS-6WH(V)NPE 50/64 |
| Electrical power SINGLE-PHASE 2300' THREE-PHASE 4000' Premium outdoor Pressure level at Airflow Dimensions (H x Weight Operating ranges Refrigerant spec Refrigerant pipe of Min max length/N | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode W x D) Heating/DHW filications Idiameter (Lia/gas) fax height difference | A dB(A) m³/h mm kg °C | 10 RAS-4WH(V)NPE 49/61 4800 | 28 3 x 6 10 5 x 2.5 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25/+25//-25/+35 | 10 RAS-6WH(V)NPE 50/64 6000 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoc Pressure level at. Airflow Dimensions (H x Neight) Operating ranges Refrigerant spec Refrigerant pipe c Min max length/N Initial charge of p | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) Wax Di Max. current Cable diameter (mm²)/max. length (m) Wax Di Max. current Wax Di Max. diameter (Lid/gas) | A dB(A) m³/h mm kg °C | 10 RAS-4WH(V)NPE 49/61 | 28 3 x 6 10 5 x 2.5 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25/+25//-25/+35 3/8" 5/8" 5 - 75/20 3.4 for 15r | 10 RAS-6WH(V)NPE 50/64 6000 |
| Electrical power SINGLE-PHASE 2300 THREE-PHASE 4000 Premium outdoo Pressure level at Airflow Dimensions (H x) Weight Operating ranges Refrigerant pipe (Min max length/M Initial charge of p Refrigerant | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode W x D) Heating/DHW filications Idiameter (Lia/gas) fax height difference | A dB(A) m³/h mm kg °C | 10 RAS-4WH(V)NPE 49/61 4800 | 28 3 x 6 10 5 x 2.5 RAS-SWH/VINPE 50/63 5400 1380 x 950 x 370 103 -25/+25 /l-25/+35 3/8" 5/8" 5 - 75/20 3.4 for 15r | 10 RAS-6WH(V)NPE 50/64 6000 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V THREE-PHASE 400V Pressure level at Airflow Dimensions (H x \ \text{Weight}\) Operating ranges Refrigerant spec Refrigerant pipe c Min max length/\(\)hintial charge of p Refrigerant Compressor | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) Max current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode W x D) Heating/DHW ifications Islameter (Liq/gas) Islameter (Liq/gas) Islameter (Additional charge re-charged refrigerant/Additional charge | A dB(A) m³/h mm kg °C | 10 RAS-4WH(V)NPE 49/61 4800 | 28 3 x 6 10 5 x 2.5 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25/+25//-25/+35 3/8" 5/8" 5 - 75/20 3.4 for 15r | 10 RAS-6WH(V)NPE 50/64 6000 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoor Pressure level at Airflow Dimensions (H x I Weight Coperating ranges Refrigerant spec Refrigerant spec Min max length/h initial charge of premium compressor Compressor Electrical specific | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) Max current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode W x D) Heating/DHW ifications Islameter (Liq/gas) Islameter (Liq/gas) Islameter (Additional charge re-charged refrigerant/Additional charge | A dB(A) m³/h mm kg °C | 10 RAS-4WH(V)NPE 49/61 4800 | 28 3 x 6 10 5 x 2.5 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25/+25 //-25/+35 3/8" 5/8" 5 - 75/20 3.4 for 15r R410A SCROLL | 10 RAS-6WH(V)NPE 50/64 6000 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoor Pressure level at Airflow Dimensions (H x I) Weight Operating ranges Refrigerant spec Refrigerant pipe c Min max length), initial charge of p Refrigerant Compressor Electrical specific Electrical specific Electrical specific Electrical specific Electrical specific Electrical spower | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) vr units Im/(Acoustic pressure heating mode W x D) Heating/DHW ffications diameter (Liq/gas) dax height difference re-charged refrigerant/Additional charge | A dB(A) m³/h mm kg °C inch m | 10 RAS-4WH(V)NPE 49/61 4800 | 28 3 x 6 10 5 x 2.5 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25/+25 //-25/+35 3/8" 5/8" 5 - 75/20 3.4 for 15r R410A SCROLL 230V/1Ph/s0Hz or 400V/3Ph/50Hz | 10 RAS-6WH(V)NPE 50/64 6000 |
| Electrical power SINOLE PHASE 230V THREE-PHASE 400V Premium outdoo Pressure level at Airflow Dimensions (H x Weight Operating ranges Refrigerant spec Min max length). Initial charge of premium outdoo Electrical specific | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode W x D) Heating/DHW Ifications Idiameter (Lid/gas) Id | A dB(A) m³/h mm kg °C | 10 RAS-4WH(V)NPE 49/61 4800 | 28 3 x 6 10 5 x 2.5 RAS-SWH/VINPE 50/63 5400 1380 x 950 x 370 103 -25/+25 /l-25/+35 3/8" 5/8" 5 - 75/20 3.4 for 15r R410A SCROLL 2301/1Ph/50Hz or 4001/3Ph/50Hz 30.5 | 10 RAS-6WH(V)NPE 50/64 6000 |
| Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoo Pressure level at Airflow Dimensions (H x x Weight Operating ranges Refrigerant spec Refrigerant pipe of Min max length), initial charge of premium compressions (H x x X x x x x x x x x x x x x x x x x | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Imi/Acoustic pressure heating mode N x D) Heating/DHW ffications Idiameter (Liq/gas) fax height difference re-charged refrigerant/Additional charge cations Max. current Cable diameter (mm²)/max. length (m) | A dB(A) m ³ /h mm kg °C inch m kg/g/m | 10 RAS-4WH(V)NPE 49/61 4800 | 28 3 x 6 10 5 x 2.5 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25/+25 /+25/+35 3/8" 5/8" 5 - 75/20 3.4 for 15r R410A SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 | 10 RAS-6WH(V)NPE 50/64 6000 |
| Electrical power SINOLE PHASE 230V THREE-PHASE 400V Premium outdoo Pressure level at Airflow Dimensions (H x Weight Operating ranges Refrigerant spec Min max length). Initial charge of premium outdoo Electrical specific | Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode W x D) Heating/DHW Ifications Idiameter (Lid/gas) Id | A dB(A) m³/h mm kg °C inch m | 10 RAS-4WHIVINPE 49/61 4800 3.3 for 15m/60 | 28 3 x 6 10 5 x 2.5 RAS-SWH/VINPE 50/63 5400 1380 x 950 x 370 103 -25/+25 /l-25/+35 3/8" 5/8" 5 - 75/20 3.4 for 15r R410A SCROLL 2301/1Ph/50Hz or 4001/3Ph/50Hz 30.5 | 10 RAS-6WH(V)NPE 50/64 6000 |

[©] Seasonal energy efficiency with integrated controller(V) = single.

* For the 2/2.5/3HP models with R32, indoor units and outdoor units have different diameters of refrigerant gas pipes and refrigerant fluid pipes. Adapters are therefore supplied with the outdoor unit.

Yutaki S80 Combi

Yutaki S80 Combi

Up to 80°C start temperature without electric heating element for heating and DHW





Smart Cascade regulation

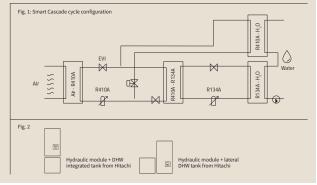
The Yutaki S80 range features a Smart Cascade cycle, (unique on the market), which automatically adjusts Heat Pump operation based on heating requirements. This way, when heating requirements are less (water temperature until 53°C), the Heat Pump only uses the R410A refrigerant. When the requirement increases (water temperature up to 80°C), the second cycle of R134A refrigerant is activated.
This way, consumption is reduced to a minimum and comfort is always guaranteed. (Fig. 1)

Constant heating all year round down to -25°C

This equipment heats water up to 80°C using renewable energy, including extreme temperatures down to -25°C.

Easy installation and maintenance

Its design means easy access to water and refrigerant connections and they are located in the upper part of the indoor unit.



Controls and controllers



Wired controller PC-ARFH1E

Pre-tax price: Included



Wireless controller ATW-RTU-07

Pre-tax price:

- 2nd zone kit with a 3-way valve and wall mounted circulator
- Hi-Box AHP-SMB-01
- Hi Kumo gateway for Hi-Box ATW -TAG-02



RWH-4.0(V)NFWE

RWH-6.0(V)NFWE







DHWS200S-2.7H2E



DHWS260S-2.7H2E





RAS-4WH(V)NPE RAS-5WH(V)NPE RAS-6WH(V)NPE

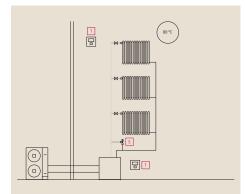
Yutaki S80 Combi

| | | | YUTAKI S80 COMBI 11KW | YUTAKI S80 COMBI 14KW | YUTAKI S80 COMBI 16KW |
|--|--|---|---|--|--|
| Model | | | . S .AM 300 COMBI IIM | TO TAKE 300 COMBI TAKE | . O IANI 300 COMBI 10NW |
| Heating perform | ances | | | | |
| | pacity heating (7°c ext/35°c water) | kW | 11/15.2 | 14/16.7 | 16/17.8 |
| | ity heating (-7°c ext/35°c water) | kW | 9.7/10.6 | 11.5/12.2 | 12.1/13 |
| | ty heating (-7°c ext/55°c water) | kW | 11/12.5 | 14/14.5 | 16/16 |
| | on heating (7°C ext/35°C water) | kW | 2.2 | 2.97 | 3.5 |
| COP (7°c ext/35°c | water) acc. to EN14511 | | 5 | 4.71 | 4.57 |
| SCOP medium cli | mate 35°c/55°c acc. to EN14825 | | 4.75/3.63 | 4.43/3.35 | 3.88/3.23 |
| Seasonal energy | efficiency heating ηs (35°C) Single/Three(1) | % | 189/188 | 177/176 | 155/154 |
| Soasonal onormy | efficiency heating ηs (55°C) Single/Three(1) | % | 138/137 | 135/135 | 127/127 |
| Energy class 35°c | | 70 | | +/A++ | A++/A++ |
| | | °C | ATT | 20/80 °C | ATTIATT |
| Water output temperature range (heating mode) Max. water output temperature | | °C | 20/80 °C 80°c down to -20 °c ext | | |
| max. water outpu | t temperature | | | SO C GOWN TO 25 CCAL | |
| DHW performane | ces | | | | |
| Seasonal energy (200L cycle L/260 | efficiency nwh | % | | 130/134 | |
| | | 70 | | | |
| DHW energy class | | | | A+ | |
| water output tem | perature range (DHW mode) | °C | | 30/75 °C | |
| Hydraulic modul | es | | RWH-4.0VNFWE + DWHS(200/260)S-2.7H2E | RWH-5.0VNFWE + DWHS(200/260)S-2.7H2E | RWH-6.0VNFWE + DWHS(200/260)S-2.7H2E |
| | | lea | 135/137 | 139/146 | 139/146 |
| | se hydraulic module weight | kg | 130/13/ | | 139/146 |
| DHW tank weight (200L/260L) | | kg | | 62/81 | |
| | xD) with integrated DHW tank 200L /260L | mm | | 1980 x 600 x 648 //2289 x 600 x 648 | |
| Sound pressure le | | dB(A) | | 57 200 2/01 (Striples striples | 58 |
| DHW tank volume Controller | e/DHW tank material | L | | 200 or 260 L/Stainless steel Included | |
| Cuntroller | | | | included | |
| Hydraulic specifi | cations | | | | |
| Expansion tank | | L | | 12 | |
| | nom/max) | m³/h | 1/1.89/2.5 | 1.1/2.41/3.2 | 1.2/2.75/3.2 |
| Water flow (min/nom/max) | | | | | |
| Hydraulic connections Heating (Male/male valves supplied) | | | | | |
| (Male/male valve: | s supplied) | inch | | 1"1/4 female | |
| Male/male valve: Hydraulic connec Minimum water v Refrigerant spec | s supplied) tions DHW olume for the installation | inch inch L | 40 | 3/4" male 50 | 50 |
| (Male/male valve: Hydraulic connec Minimum water v Refrigerant spec Fluid Initial refrigerant | s supplied) tions DHW olume for the installation | inch | 40 | 3/4" male 50 R134A 1.9 kg for 15m | 50 |
| (Male/male valve: Hydraulic connec Minimum water v Refrigerant spec Fluid Initial refrigerant | s supplied) titions DHW olume for the installation | inch L | 40 | 3/4" male 50 R134A | 50 |
| (Male/male valve: Hydraulic connec Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor | s supplied) tions DHW olume for the installation ffications charge pre-charged | inch L | 40 | 3/4" male 50 R134A 1.9 kg for 15m | 50 |
| (Male/male valve: Hydraulic connect Minimum water v Refrigerant spect Fluid Initial refrigerant Compressor Electrical specifi | s supplied) tions DHW olume for the installation ffications charge pre-charged | inch L | 40 | 3/4" male 50 R134A 1.9 kg for 15m | 50 |
| (Male/male valve Hydraulic connec Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specifi Electrical power | s supplied) tions DHW olume for the installation ffications charge pre-charged | inch L | 40 | 3/4" maile 50 R134A 1.9 kg for 15m SCROLL | 50 |
| (Male/male valve: Hydraulic connect Minimum water v Refrigerant spect Fluid Initial refrigerant Compressor Electrical specifi | supplied) tions DHW olume for the installation ffications charge pre-charged | inch L kg | 40 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz | 50 |
| (Male/male valve Hydraulic connec Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specifi Electrical power SINGLE-PHASE 230V THRFF-PHASF | supplied) tions DHW olume for the installation ffications tharge pre-charged cations Max. current | inch L kg | | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 | 50 |
| (Male/male valve Hydraulic connec Hydraulic connec Fluid Initial refrigerant Compressor Electrical specific Electrical power SINGLE-PHASE 230V | supplied) fittins DHW olume for the installation ffications charge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) | inch L kg | | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 | |
| (Male/male valve Hydraulic connec Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specifi Electrical power SINGLE-PHASE 230V THREE-PHASE 400V | supplied) tions DHW olume for the installation ffications charge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) | inch L kg | 5x3 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 | 16 5 × 2.5/16 |
| (Male/male valve: Hydraulic connec Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specifi Electrical power SINGLE-PHASE 230V THREE-PHASE 400V | supplied) tions DHW olume for the installation iffications charge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max current Cable diameter (mm²)/max. length (m) | kg A | 5x2 RAS-4WH(V)NPE | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 RAS-SWH(V)NPE | 16 5×2.5/16 RAS-GWH(V)NPE |
| (Male/male valve Hydraulic connec Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specifi Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoc Pressure level at | supplied) tions DHW olume for the installation ffications charge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) | inch L kg kg A A dB(A) | 5x2 RAS-4WH(V)NPE 49/61 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 RAS-SWH(V)NPE 50/63 | 16 5 x 2.5/16 RAS-GWI(V)NPE 50/64 |
| (Male/male valve- hydraulic connec Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specific Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoc Pressure level at Airflow | supplied) tions DHW olume for the installation ffications tharge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. Current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode | kg A A A dB(A) m³/h | 5x2 RAS-4WH(V)NPE | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 1.5/16 RAS-SWH/VINPE 50/63 5400 | 16 5×2.5/16 RAS-GWH(V)NPE |
| (Male/male value yalue) Minimum water v Refrigerant spec. Fluid Initial refrigerant Compressor Electrical specifi Electrical specifi Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Pressure level at Airflow Dimensions (H x I) | supplied) tions DHW olume for the installation ffications tharge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. Current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode | kg A A dB(A) m³/h mm | 5x2 RAS-4WH(V)NPE 49/61 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 | 16 5 x 2.5/16 RAS-GWH(V)NPE 50/64 |
| (Male/male value hydraulic connec Minimum water v Refrigerant spec Fluid initial refrigerant Compressor Electrical specific Electrical power SINGLE 3PHASE 23PHASE 400V Premium outdoo Premium ou | supplied) tions DHW olume for the installation ffications charge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Irm/Acoustic pressure heating mode W x D) | kg A A dB(A) m ¹ /h mm kg | 5x2 RAS-4WH(V)NPE 49/61 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 | 16 5 x 2.5/16 RAS-GWI(V)NPE 50/64 |
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| (Male/male valve typiraulic connect Minimum water v Refrigerant spec Fluid initial refrigerant Compressor Electrical specific Electrical specific Electrical specific Electrical specific Electrical program THEEE-PHASE 2300 THEEE-PHASE 2300 THEEE-PHASE 2400 THEEE-PHASE 2500 THEEE | supplied) tions DHW olume for the installation ffications charge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Irm/Acoustic pressure heating mode W x D) Heating/DHW | kg A A dB(A) m ¹ /h mm kg | 5x2 RAS-4WH(V)NPE 49/61 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 | 16 5 x 2.5/16 RAS-GWH(V)NPE 50/64 |
| Male/male valve Hydraulic conner Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specific Electrical specific SINGLE PHASE 230V THREE PHASE 400V Premium outdoc Pressure level at Airlindw Dimensions (H x 1 Weight Operating ranges Refrigerant specc | supplied) tions DHW olume for the installation ffications tharge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. Current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode Wx D) Heating/DHW ffications | kg A A dB(A) m³/h mm kg °C | 5x2 RAS-4WH(V)NPE 49/61 | 3/4" male 50 R134A 1.5 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 2.5/16 RAS-SWH/UNPE 50/63 5400 1380 x 950 x 370 103 -25-+25 //-25-+35 | 16 5 x 2.5/16 RAS-GWH(V)NPE 50/64 |
| (Malo/male valve Hydraulic conner Minimum water v Refrigerant spec Fluid initial refrigerant spec Fluid initial refrigerant Compressor Electrical specific Electrical power SINOLE PHASE 2007 THREE-PHASE 4007 Pressure level at Airflow Dimensions (H x V Weight) Coperating ranges Refrigerant spec Refrigerant spec Refrigerant pipe c | supplied) tions DHW olume for the installation ifications tharge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) wr units tm/Acoustic pressure heating mode N x D) Heating/DHW ifications liameter (Lig/gas) | inch L kg A A A A A A A M³/h mm kg °C L inch | 5x2 RAS-4WH(V)NPE 49/61 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 2.5/16 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25-+25 //-25-+35 | 16 5 x 2.5/16 RAS-GWH(V)NPE 50/64 |
| (Male/male valve tydraulic conne Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specifi Electrical power SINGLE PHASE 230V THREE PHASE 400V Premium outdoc Pressure level at Airlflow Premium outdoc Pressure level at Weight Openiessors (H x V Weight Openiessors (H x V Weight Openies | supplied) tions DHW olume for the installation fifications cations Max. current Cable diameter (mm²)/max. length (m) Hax. current Cable diameter (mm²)/max. length (m) Figure (min (min (min (min (min (min (min (min | inch L kg A A A A dB(A) m²/h mm kg °C inch m | 5x2 RAS-4WH(V)NPE 49/61 4800 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 RAS-SWH(V)NPE 50/63 5400 1380 x 950 y 370 103 -25-+25 //-25-+35 | 16 5 x 2.5/16 RAS-6WH(V)NPE 50/64 6000 |
| (Malo/male valve typdraulic connec Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specifi Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoc Pressure level at Airlflow Dimensions (H x V Weight Operating ranges Refrigerant pipe c Min max length/h | supplied) tions DHW olume for the installation ifications tharge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) wr units tm/Acoustic pressure heating mode N x D) Heating/DHW ifications liameter (Lig/gas) | inch L kg A A A A A A A M³/h mm kg °C L inch | 5x2 RAS-4WH(V)NPE 49/61 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/S0Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 1.5/16 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25-+25 //-25-+35 3/8" 5/8" 5 - 75/20 3.4 for 15 | 16 5 x 2.5/16 RAS-6WH(V)NPE 50/64 6000 |
| (Malo/malo valve hydraulic conner hydraulic conner Electrical specific Electrical specific | supplied) tions DHW olume for the installation fifications cations Max. current Cable diameter (mm²)/max. length (m) Hax. current Cable diameter (mm²)/max. length (m) Figure (min (min (min (min (min (min (min (min | inch L kg A A A A dB(A) m²/h mm kg °C inch m | 5x2 RAS-4WH(V)NPE 49/61 4800 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 2.5/16 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25-+25 //-25-+35 3/8" 5/-75/20 3.4 for 15 R410A | 16 5 x 2.5/16 RAS-6WH(V)NPE 50/64 6000 |
| (Malo/malo valve hydraulic conner hydraulic conner Electrical specific Electrical specific | supplied) tions DHW olume for the installation fifications cations Max. current Cable diameter (mm²)/max. length (m) Hax. current Cable diameter (mm²)/max. length (m) Figure (min (min (min (min (min (min (min (min | inch L kg A A A A dB(A) m²/h mm kg °C inch m | 5x2 RAS-4WH(V)NPE 49/61 4800 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/S0Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 1.5/16 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25-+25 //-25-+35 3/8" 5/8" 5 - 75/20 3.4 for 15 | 16 5 x 2.5/16 RAS-6WH(V)NPE 50/64 6000 |
| (Male/male valve typiralize come Minimum water v Refrigerant spec Fluid initial refrigerant Compressor Electrical specific Electrical specific Minimum surface Pressure level at Arifolw Dimensions (H x 1 Weight Operating ranges Refrigerant spec Refrigerant pipe c Minimum length/h Initial charge of p Refrigerant Pressure Refrigerant Pressure Refrigerant Pressure Refrigerant Pressure Pressure Refrigerant Pressure Refrigerant Pressure Pressure Pressure Pressure Refrigerant Pressure | supplied) tions DHW olume for the installation ifications tharge pre-charged cations Max. current Cable diameter (mm²/max. length (m) Max. Current Cable diameter (mm²)/max. length (m) wr units Im/Acoustic pressure heating mode W x D) Heating/DHW ifications Idiameter (Liq/gas) dax height difference re-charged refrigerant/Additional charge | inch L kg A A A A dB(A) m²/h mm kg °C inch m | 5x2 RAS-4WH(V)NPE 49/61 4800 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 2.5/16 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25-+25 //-25-+35 3/8" 5/-75/20 3.4 for 15 R410A | 16 5 x 2.5/16 RAS-6WH(V)NPE 50/64 6000 |
| (Male/male valve typiralize (Longe Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specific Electrical power SINGLE PHASE 2007 THREE-PHASE 400V Premium outdoo Pressure level at Airllow Dimensions (H x V Weight Operating ranges Refrigerant pipe c Minimax length/h initial registry Initial registry Minimax length/h Initial registry Initial registry I | supplied) tions DHW olume for the installation ifications tharge pre-charged cations Max. current Cable diameter (mm²/max. length (m) Max. Current Cable diameter (mm²)/max. length (m) wr units Im/Acoustic pressure heating mode W x D) Heating/DHW ifications Idiameter (Liq/gas) dax height difference re-charged refrigerant/Additional charge | inch L kg A A A A dB(A) m²/h mm kg °C inch m | 5x2 RAS-4WH(V)NPE 49/61 4800 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 50/63 5400 1380 x 950 y 370 103 -25+25 //-25+35 3/6" 5/8" 5 - 75/20 3.4 for 15 R410A SCROLL | 16 5 x 2.5/16 RAS-6WH(V)NPE 50/64 6000 |
| Male/male valve Hydraulic conne Minimum water v Refrigerant spec Fluid Initial refrigerant Compressor Electrical specific Electrical specific Electrical power SINGLE-PHASE 230V THREE-PHASE 400V Premium outdoc Pressure level at Alfridow Dimensions (H x) Weight Operating ranges Refrigerant spec Refrigerant pipe c Min max length, bit initial charge of p Refrigerant Compressor Electrical specific Elect | supplied) tions DHW olume for the installation ffications tharge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Im/Acoustic pressure heating mode W x D) Heating/DHW ffications liameter (Lid/gas) tax height difference re-charged refrigerant/Additional charge | inch L kg A A A A A A A A A A A A A A A A A A A | 5x2 RAS-4WH(V)NPE 49/61 4800 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/S0Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 2.5/16 RAS-SWH/VINPE 50/63 5400 1380 x 950 x 370 103 -25-425 //-25-435 3/8" 5/8" 5 - 75/20 3.4 for 15 R410A SCROLL 230V/1Ph/S0Hz or 400V/3Ph/50Hz | 16 5 x 2.5/16 RAS-6WH(V)NPE 50/64 6000 |
| (Malo/malo valve Hydraulic conner Minimum water v Refrigerant spec Fluid initial refrigerant spec Fluid initial refrigerant Compressor Electrical specific Electrical power SINOLE PHASE ADD THREE-PHASE ADD T | supplied) tions DHW olume for the installation ifications tharge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) wr units tm/Acoustic pressure heating mode Wx X D) Heating/DHW ifications diameter (Liq/gas) dax height difference re-charged refrigerant/Additional charge cations Max. current | inch L kg A A A A dB(A) m²/h mm kg °C inch m | 5x2 RAS-4WH(V)NPE 49/61 4800 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 2.5/16 RAS-5WH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25-+25 //-25-+35 3/8" 5 - 75/20 3.4 for 15 R410A SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 | 16 5 x 2.5/16 RAS-6WH(V)NPE 50/64 6000 |
| (Malo/male valve Hydraulic conner Minimum water v Refrigerant spec Fluid initial refrigerant spec Fluid initial refrigerant Compressor Electrical specific Electrical specific Electrical power THREE-PHASE 230V 230V 230V 240V 240V 240V 240V 240V 240V 240V 24 | supplied) tions DHW olume for the installation ffications charge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²/max. length (m) Max. current Cable diameter (mm²/max. length (m) Fruints Im/Acoustic pressure heating mode W x D) Heating/DHW ffications Jiameter (Liq/gas) Jiameter (Liq/gas) Jiameter (Liq/gas) Jiameter (maya/max. length (m) Max. current Cable diameter (mm²/max. length (m) | kg A A dB(A) m²/h mm kg °C lnch m kg/g/m | 5 x 2 RAS-4WH(V)NPE 49/61 4800 3.3 for 15m/60 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 .5/16 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25-+25 //-25-+35 3/8" 5/8" 5 - 75/20 3.4 for 15 R410A SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 | 16 5 x 2.5/16 RAS-6WH(V)NPE 50/64 6000 |
| (Malo/malo valve Hydraulic conner Minimum water v Refrigerant spec Fluid initial refrigerant spec Fluid initial refrigerant Compressor Electrical specific Electrical | supplied) tions DHW olume for the installation fifications tharge pre-charged cations Max. current Cable diameter (mm²²/max. length (m) Max. Current Cable diameter (mm²²/max. length (m) re units Im/Acoustic pressure heating mode Nx D) Heating/DHW fifications Jiameter (Lu(gas) Jiameter (Lu(gas) Jiameter (Lu(gas) Atax height difference re-charged refrigerant/Additional charge cations Max. current Cable diameter (mm²²/max. length (m) Max. current Cable diameter (mm²²/max. length (m) Max. current Max. current Max. current | inch L kg A A A A A A A MP/h mm kg °C inch m kg/g/m | 5 x 2 RAS-4WH(V)NPE 49/61 4800 3.3 for 15m/60 | 3/4" male 50 R134A 1.5 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 2.5/16 RAS-SWH/VINPE 50/63 5400 1330 x 950 x 370 103 -25-+25 //-25-+35 3/8" 5/8" 5 - 75/20 3.4 for 15 R410A SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 | 16 5 x 2.5/16 RAS-GWH(V)NPE 50/64 6000 |
| (Malo/male valve Hydraulic conner Minimum water v Refrigerant spec Fluid initial refrigerant spec Fluid initial refrigerant Compressor Electrical specific Electrical specific Electrical power THREE-PHASE 230V 230V 230V 240V 240V 240V 240V 240V 240V 240V 24 | supplied) tions DHW olume for the installation ffications charge pre-charged cations Max. current Cable diameter (mm²)/max. length (m) Max. current Cable diameter (mm²)/max. length (m) or units Lim/Acoustic pressure heating mode N x D) Heating/DHW ffications Max. current Cable diameter (mm²)/max length (m) Max. current Cable diameter (mm²)/max. length (m) | kg A A dB(A) m²/h mm kg °C lnch m kg/g/m | 5 x 2 RAS-4WH(V)NPE 49/61 4800 3.3 for 15m/60 | 3/4" male 50 R134A 1.9 kg for 15m SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 14 .5/16 RAS-SWH(V)NPE 50/63 5400 1380 x 950 x 370 103 -25-+25 //-25-+35 3/8" 5/8" 5 - 75/20 3.4 for 15 R410A SCROLL 230V/1Ph/50Hz or 400V/3Ph/50Hz 30.5 3 x 6/30 | 16 5 x 2.5/16 RAS-6WH(V)NPE 50/64 6000 |

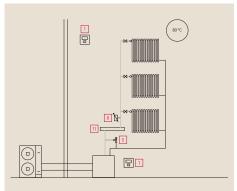
[©] Seasonal energy efficiency with integrated controller(V) = single.
*For the 2/2.5/3HP models with R32, indoor units and outdoor units have different diameters of refrigerant gas pipes and refrigerant fluid pipes. Adapters are therefore supplied with the outdoor unit.

Safety valve Air release valve 3-way valve for the tank Filter valve valves Expansion tank ErP pump Pressure release valve

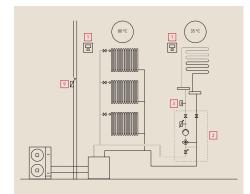
Hydraulic configurations Yutaki S80 and S80 Combi



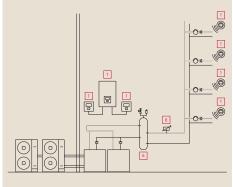
Boiler replacement Heating 1 circuit



Boiler replacement Heating 1 circuit



Boiler replacement Heating 2 circuits



Boiler replacement Cascade: individual central heating application

Its flexible design enables a variety of installation and pipe connection options.

- Hydraulic module
- Hydraulic module + Hitachi domestic hot water tank, integrated.
- Hydraulic module + Hitachi domestic hot water tank, lateral.
- Hydraulic module + domestic hot water tank from other manufacturers.