

TOSHIBA

ESTiA

—
Energy savings
and sustainable
performances



RESIDENTIAL HEATING > AIR TO WATER HEAT PUMP > ESTIA



**ENERGY EFFICIENCY
& SUSTAINABILITY**

A+++  R32 refrigerant
with low environmental impact

The innovative ESTIA R32 range meets the increasing demand for alternatives to conventional heating solutions. A trend driven by growing awareness of the climate emergency and attractive government incentives to adopt more sustainable solutions.

Delivering high levels of appeal through its impressive capacity specifications for space heating and hot water production, this advanced air-to-water heat pump will also reduce energy bills compared to gas or oil boilers and electric heaters.

**GUARANTEED
COMFORT**

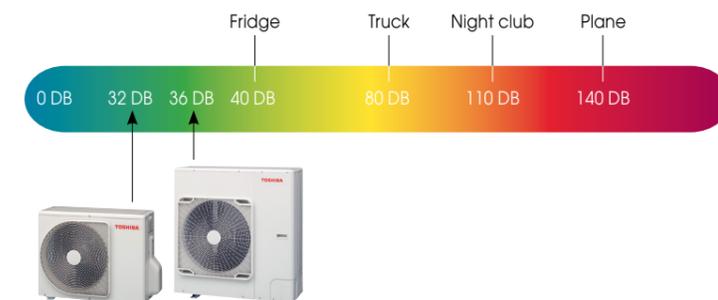
65°C  All year-round
hot water

With state-of-the-art liquid injection technology, Toshiba's new twin rotary compressor enables ESTIA R32 to supply water to heating networks at temperatures that guarantee year-round comfort. This is true even during exceptionally cold periods (65°C leaving water temperature for sizes 8 & 11kW).

For maximum well-being, ESTIA R32 also produces Domestic Hot Water even at exceptionally high outdoor temperatures (+43°C). 3, 6 or 9kW integrated back-up heater ensures additional Heating & DHW supply whenever needed.

**SILENT
OPERATIONS**

32dB(A)  Silent Mode operations
for your neighbours



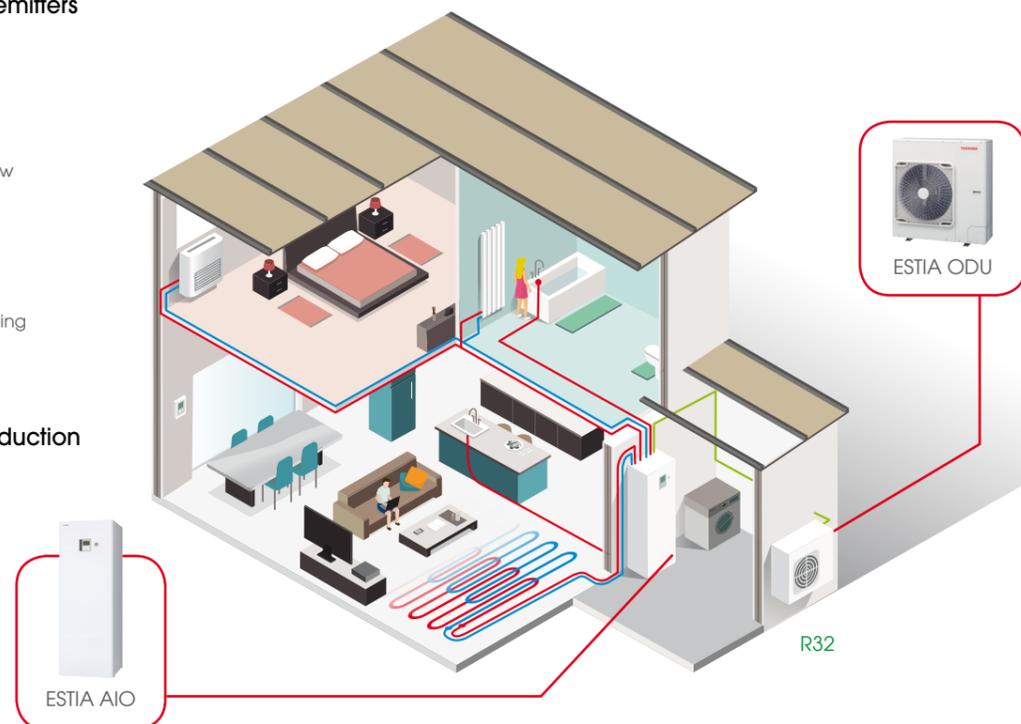
Sound pressure levels, in silent mode, at 5m from the outdoor unit, free field directivity 2 (32dB(A) for size 4kW).

TIMELESS DESIGN FOR FLEXIBLE SOLUTIONS

Space heating for any emitters

-  Under floor heating
-  Medium or low temperature radiators
-  Fan coils
Comfort cooling & heating

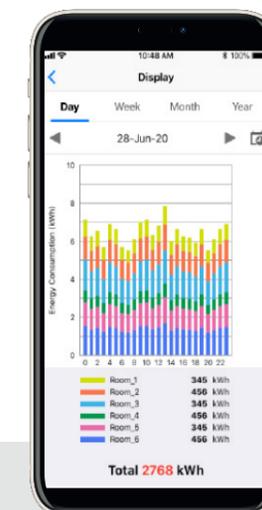
Domestic hot water production



SMART CONTROL, SMART LIFE

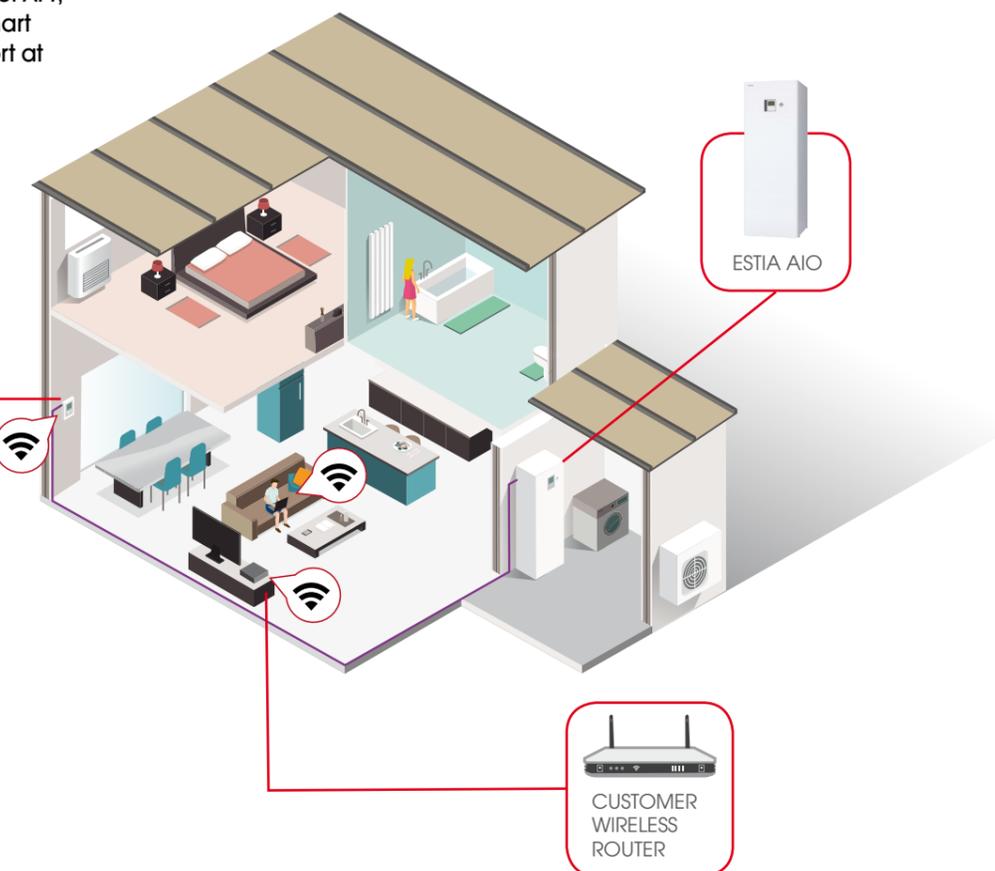


Covering one or two zones, ESTIA R32 remote control allows intuitive operation of functions such as silent mode, energy consumption display and scheduling. The auto-adaptive function offers optimum comfort in relation to outdoor temperature, contributing to minimize energy bills.



- Energy monitoring
- Smart speaker voice control functions compatible with Google Home Assistant & Amazon Alexa

With ESTIA R32 Wireless Interface & Toshiba Home AC Control APP, make your heat pump smart and enhance your comfort at home or away.



EASY INSTALLATION

All-In-One Hydro

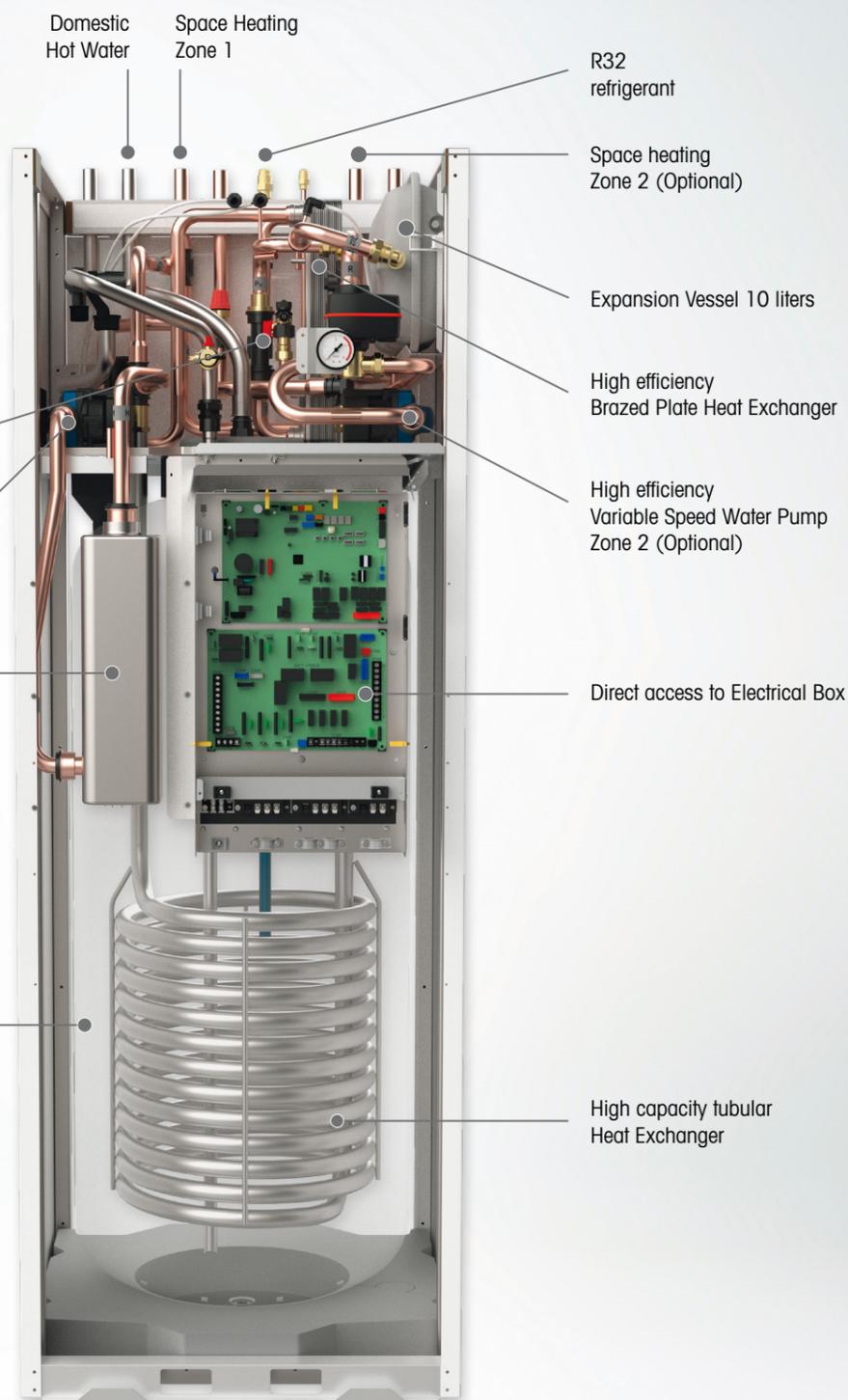
Elegant and compact design (H1700xW600xD670mm) for space heating & domestic hot water production to fit any interior.

Electronic Water Flow Sensor for accurate water flow control

High efficiency Variable Speed Water Pump Zone 1

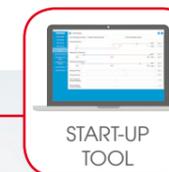
Back-up Electric Heater 3, 6 or 9kW

Hot Water Cylinder Enameled steel 210 liters



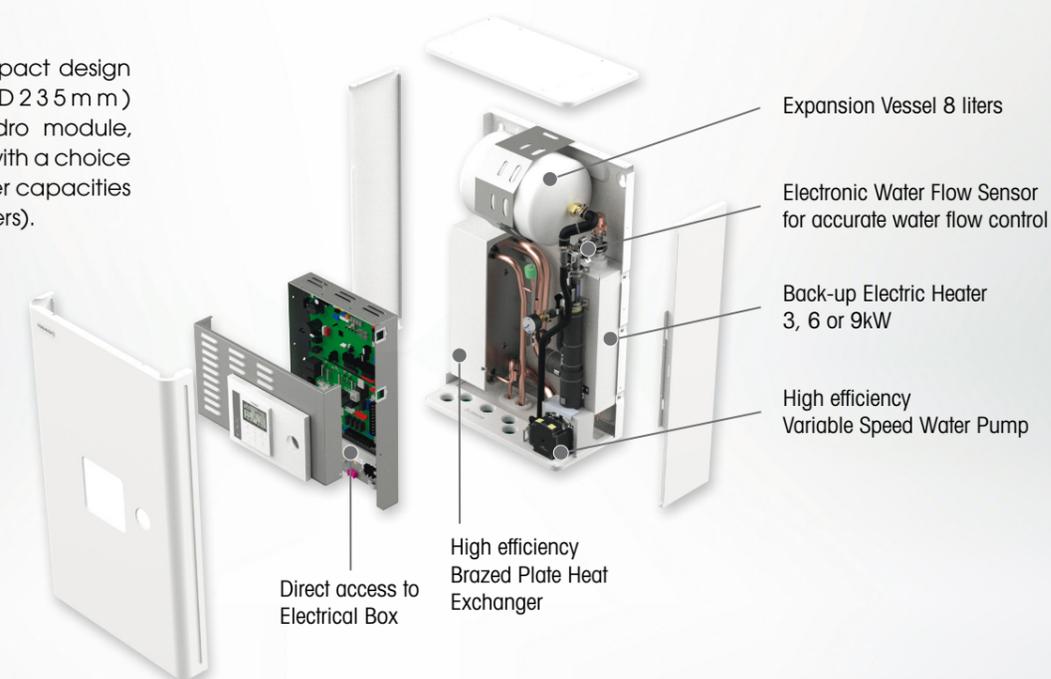
EASY COMMISSIONING

- Ultra compact Hydro modules with all components accessible from front panel.
- Easy wiring and connections.
- All-In-One indoor floor standing unit offers all water & refrigerant connections from the top.
- Wall Mounted indoor unit offers all connections from bottom.
- High efficiency components: brazed plate heat exchangers, electronic water flow control, variable speed pumps.
- Start-up tool for quick & easy commissioning.



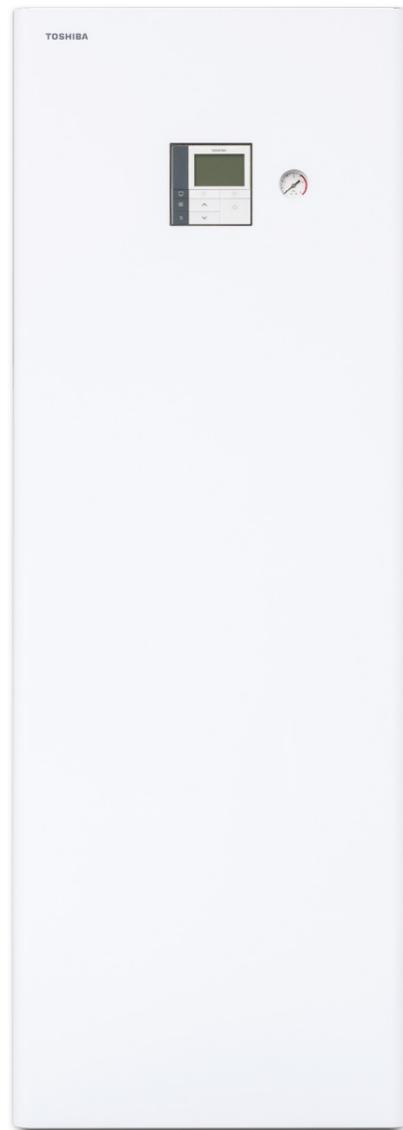
Wall Mounted Hydro Unit

Elegant and compact design (H720 x W450 x D235 mm) wall-mounted hydro module, to be combined with a choice of external cylinder capacities (150, 200 or 300 liters).



ULTIMATE HOME COMFORT EXPERIENCE

Comfort in
Space heating



A+++
SCOP up to **4.63**
COP up to **5.20**



A+
COP DHW up to **3.21**



High leaving water temperature
65°C @+7°C for ODU 8&11kW
62°C @-25°C for ODU 8&11kW
outside air temperature



Outdoor unit noise levels
32&36dB(A) for ODU 4&6kW
36&40dB(A) for ODU 8&11kW
in silent mode at 5m



Wall mounted hydro unit
29dB(A)
All-In-One at 1m
31dB(A)



| | AIO INTEGRATED TANK | WALL MOUNTED + EXTERNAL TANK |
|--------------|---------------------|------------------------------|
| Volume | 210L | 150L-210L-300L |
| Energy class | A+ | A to A+ |
| COP dhw | up to 3.21 | up to 2.93 |

Production of Domestic Hot Water

ESTIA R32 offers an All-In-One hydro module for heating and domestic hot water production, with an integrated tank 210 liters. This elegant solution for new-build properties has a compact footprint - a mere 600x670mm - to fit any interior.

For renovation projects that would require the replacement of a gas boiler, ESTIA R32 is also available with a wall-mounted hydro module offering a large choice of external cylinder capacities for domestic hot water (150, 210 or 300 liters).



Comfort in Cooling

All ESTIA R32 units are reversible units as standard from factory (Insulated pipes + condensate drain pan) offering comfort cooling in summertime if requested by end users.

High coefficient of performance in cooling mode with EER up to 4.37 @ Air 35°C / Water 18°C (Or underfloor cooling).

TOSHIBA RELIABILITY

Innovation, efficiency, high reliability, energy savings, respect for the environment. These powerful values are at the heart of everything we do at Toshiba. For over 50 years, Toshiba has been providing its clients with the guaranteed precision and expertise of flawless Japanese quality.

Toshiba products are designed to perform and engineered to perfection. The Toshiba twin-rotary compressor uses Toshiba advanced technology to ensure best in class performance with low energy consumption.

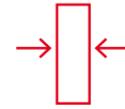


A TECHNOLOGY AS INNOVATIVE AS DISCREET



This image is used for illustration purpose. Actual installation may vary.

A UNIT FOR ANY TYPE OF INTERIOR



This image is used for illustration purpose. Actual installation may vary.

SYSTEMS - Performance data

| Outdoor unit | | | HWT- | 401HW-E | 601HW-E | 801H(R)W-E | 1105H(R)W-E | |
|-------------------------------------|--|--------|----------|-------------------|--------------|-------------------|-------------------|-------|
| Wall mounted Hydro unit combination | | Air T° | Water T° | HWT- 601XWH**W-E | 601XWH**W-E | 1101XWH**W-E | 1101XWH**W-E | |
| AIO Hydro unit combination | | Air T° | Water T° | HWT- 601F21S**W-E | 601F21S**W-E | 1101F21(S/M)**W-E | 1101F21(S/M)**W-E | |
| Under floor heating | Energy Efficiency Class - Average Climate - Low LWT | | 35°C | A+++ | A+++ | A+++ | A+++ | |
| | SCOP- Average Climate - Low LWT | | 35°C | 4.53 | 4.58 | 4.63 | 4.55 | |
| | Max heating capacity | +7°C | 35°C | kW | 7.25 | 7.25 | 11.9 | 13.24 |
| | Nominal heating capacity | +7°C | 35°C | kW | 4.00 | 6.00 | 8.00 | 11.00 |
| | COP | +7°C | 35°C | W/W | 5.20 | 4.80 | 5.19 | 4.60 |
| | Max heating capacity | -7°C | 35°C | kW | 4.80 | 6.06 | 8.11 | 9.10 |
| Radiators heating & DHW | Energy Efficiency Class - Average Climate - Medium LWT | | 55°C | A++ | A++ | A++ | A++ | |
| | SCOP - Average Climate - Medium LWT | | 55°C | 3.45 | 3.37 | 3.63 | 3.62 | |
| | Max heating capacity | +7°C | 45°C | kW | 6.97 | 6.97 | 11.75 | 12.41 |
| | Max heating capacity | -7°C | 45°C | kW | 4.48 | 5.80 | 8.00 | 8.44 |
| | Max heating capacity | +7°C | 55°C | kW | 6.51 | 7.53 | 9.96 | 10.17 |
| | Max heating capacity | -7°C | 55°C | kW | 4.31 | 5.42 | 7.35 | 7.72 |
| Cooling | Max heating capacity | -10°C | 55°C | kW | - | - | 7.00 | 7.38 |
| | Max cooling capacity | 35°C | 18/23°C | kW | 5.28 | 6.28 | 7.64 | 10.21 |
| | EER | | | W/W | 4.65 | 4.13 | 3.93 | 3.39 |

Max capacities are shown at peak value during operation, at max compressor operating range in accordance with EN14511
Nominal capacities are given at water delta T° 5°C and rated compressor operating frequency in accordance with EN14511

(1) Noise pressure levels EN 12102 at 5m, open field directivity 2

Physical data

| Outdoor unit | HWT- | 401HW-E | 601HW-E | 801H(R)W-E | 1105H(R)W-E |
|--|---------|----------------|-------------|-------------------------------|---------------|
| Dimensions (HxWxD) | mm | 630x800x300 | 630x800x300 | 1050x1010x370 | 1050x1010x370 |
| Weight | kg | | 42 | | 75 |
| Sound power level (Rated) H/C | dB(A) | 59/60 | 62/61 | 63/62 | 64/62 |
| Sound pressure level (Rated) H/C at 5m (1) | dB(A) | 37/38 | 40/39 | 41/40 | 42/40 |
| Sound pressure level (Silent Mode) H/C at 5m (1) | dB(A) | 32/33 | 36/35 | 36/37 | 40/38 |
| Compressor type | | DC Twin rotary | | DC Twin rotary with injection | |
| Refrigerant / Charge amount (kg) | | R32 / 0.9 | | R32 / 1.25 | |
| Flare connections (gas-liquid) | | 4/8" - 2/8" | | 5/8" - 2/8" | |
| Operating range in space heating | °C | -20~25 | | -25~25 | |
| Operating range Domestic hot water | °C | -20~43 | | -25~43 | |
| Operating range in cooling mode | °C | | | 10~43 | |
| Power supply | V-ph-Hz | | | 220/240-1-50 | |

Physical data

| Wall Mounted Hydro unit | HWT- | 601XWHM3W-E | 601XWHT6W-E | 1101XWHM3W-E | 1101XWHT6W-E | 1101XWHT9W-E |
|---|---------|--------------|---------------|--------------|---------------|---------------|
| Leaving water temperature (without electrical heater) | °C | 20 ~ 55°C | 20 ~ 55°C | 20 ~ 65°C | 20 ~ 65°C | 20 ~ 65°C |
| Electric back up heater capacity | kW | 3.0 | 6.0 | 3.0 | 6.0 | 9.0 |
| Electric back up heater supply | V-ph-Hz | 220~240-1-50 | 380~415-3N-50 | 220~240-1-50 | 380~415-3N-50 | 380~415-3N-50 |
| Maximum current | A | 13 | 13x2 | 13 | 13x2 | 13x3 |
| Dimensions (HxWxD) | mm | 720x450x235 | | | | |
| Weight | Kg | 27 | | | | |
| Sound pressure level at 1m | dB(A) | 29 | | | | |

Physical data

| All-In-One Hydro unit | HWT- | 601F21SM3W-E | 601F21ST6W-E | 1101F21(S/M)M3W-E | 1101F21(S/M)T6W-E | 1101F21(S/M)T9W-E |
|--|---------|--------------|---------------|-------------------|-------------------|-------------------|
| Water volume | L | 210 | | | | |
| Tank Material | | Enamelled | | | | |
| Maximum water pressure | bar | 6 | | | | |
| Sound pressure level at 1m (1 zone / 2 zone) | dB(A) | 31/32 | | | | |
| DHW Energy Efficiency Class | | A+ | | A+ | | |
| DHW ETA _{wh} (η _{wh}) - Average Climate | % | 136 | | 130 | | |
| COP at Air7°C (EN16147) | | 3.21 | | 3.12 | | |
| Heating time | Hrs | 01h36 | | 01h05 | | |
| Leaving water temperature (without electrical heater) | °C | 20 ~ 55°C | | 20 ~ 65°C | | |
| Electric back up heater capacity | kW | 3.0 | 6.0 | 3.0 | 6.0 | 9.0 |
| Electric back up heater supply | V-ph-Hz | 220~240-1-50 | 380~415-3N-50 | 220~240-1-50 | 380~415-3N-50 | |
| Maximum current | A | 13 | 13x2 | 13 | 13x2 | 13x3 |
| Dimensions (HxWxD) | mm | 1700x600x670 | | | | |
| Weight (1 zone / 2 zone) | Kg | 157/162 | | | | |



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