



ESTIA air to water heatpumps 2021

Simplify your water-life ...

*Claus Wackerbauer
Product Manager*

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Technical Director*

ESTIA R410A & R32



ESTIA

- Line-up 2021 – meeting all market applications

RAS



















ESTIA

RAV

VRF

SMMS-u

USX

P nom. (kW)	4	6	8	11	14	16
ESTIA Serie 1 <u>All in One</u>  <i>New</i>	1-Ph 	1-Ph 	1-Ph 	1-Ph 	COMING SOON	COMING SOON
ESTIA Serie 1 <u>Split Hydrobox</u>  <i>New</i>	1-Ph 	1-Ph 	1-Ph 	1-Ph 	COMING SOON	COMING SOON
ESTIA Serie 5 <u>Standard</u> 				3-Ph 	1-Ph/ 3-Ph 	3-Ph 
ESTIA Serie 5 <u>Hi-Power</u> 			1-Ph/ 3-Ph 	1-Ph/ 3-Ph 	3-Ph 	















TOSHIBA

ESTIA R32



ESTIA

- Full Line-up

P nom. (kW)	4	6	8	11	14	16
ESTIA Serie 1 <u>All in One</u> 	1-Ph 	1-Ph 	1-Ph/ 3-Ph 	1-Ph/ 3-Ph 	1-Ph/ 3-Ph 	3-Ph 
ESTIA Serie 1 <u>Split Hydrobox</u> 	1-Ph 	1-Ph 	1-Ph/ 3-Ph 	1-Ph/ 3-Ph 	1-Ph/ 3-Ph 	3-Ph 

COMING SOON

- ✓ 3-phase: ESTIA 8, 11, 14, 16
- ✓ 1-phase: ESTIA 14

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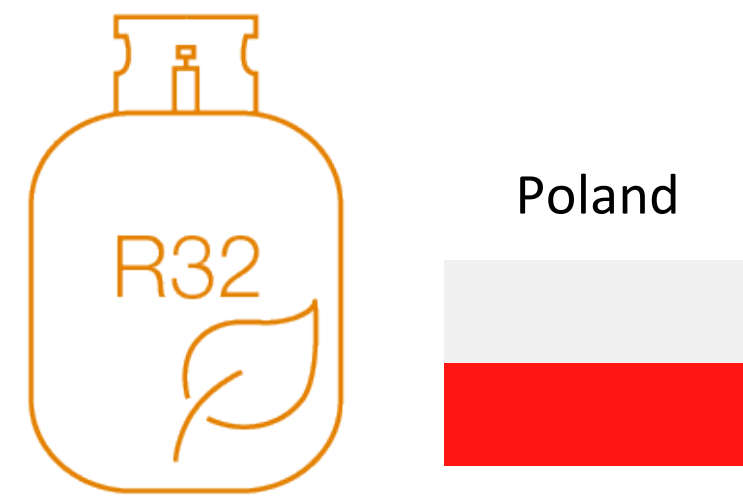
VRF

SMMS-u

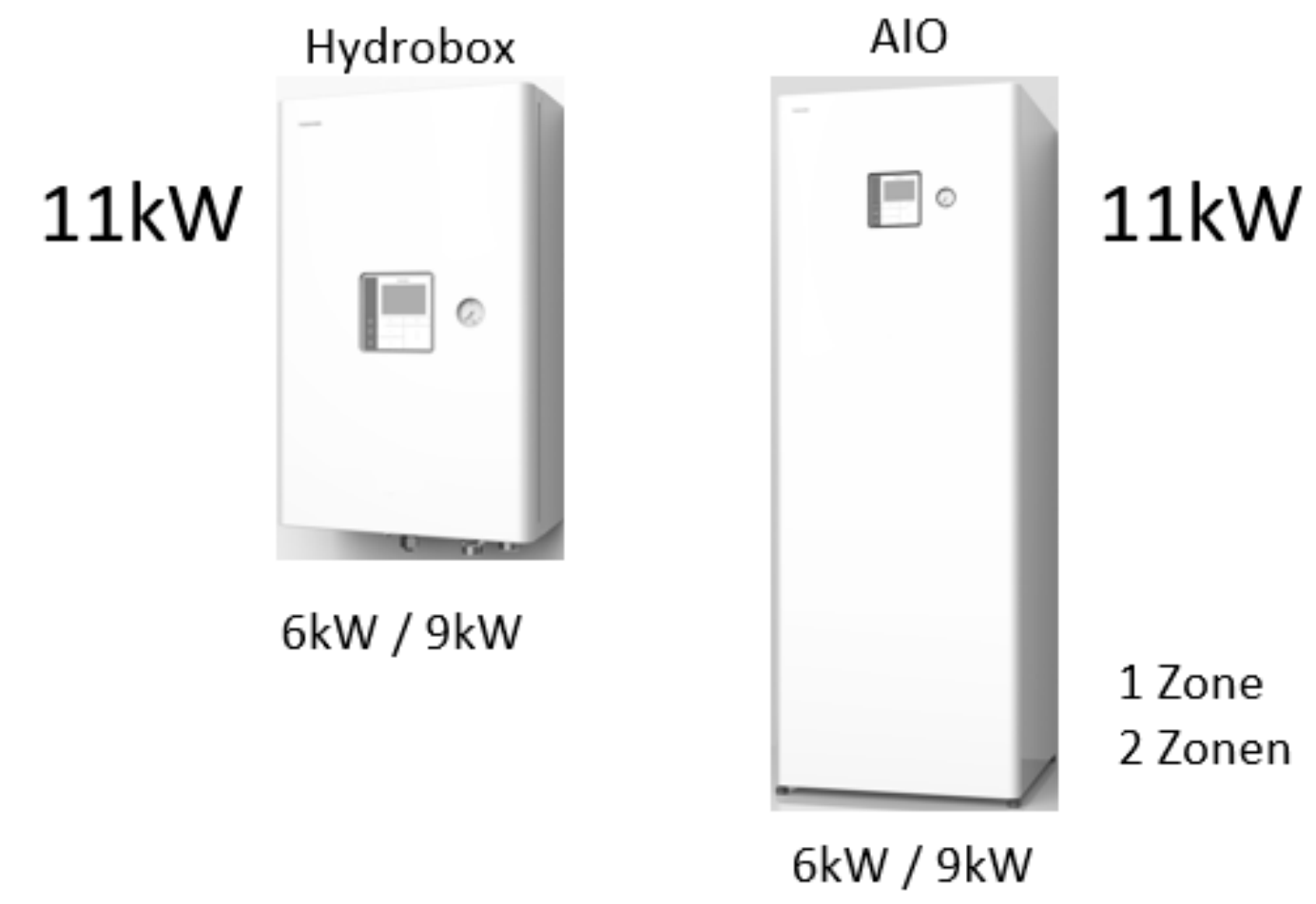
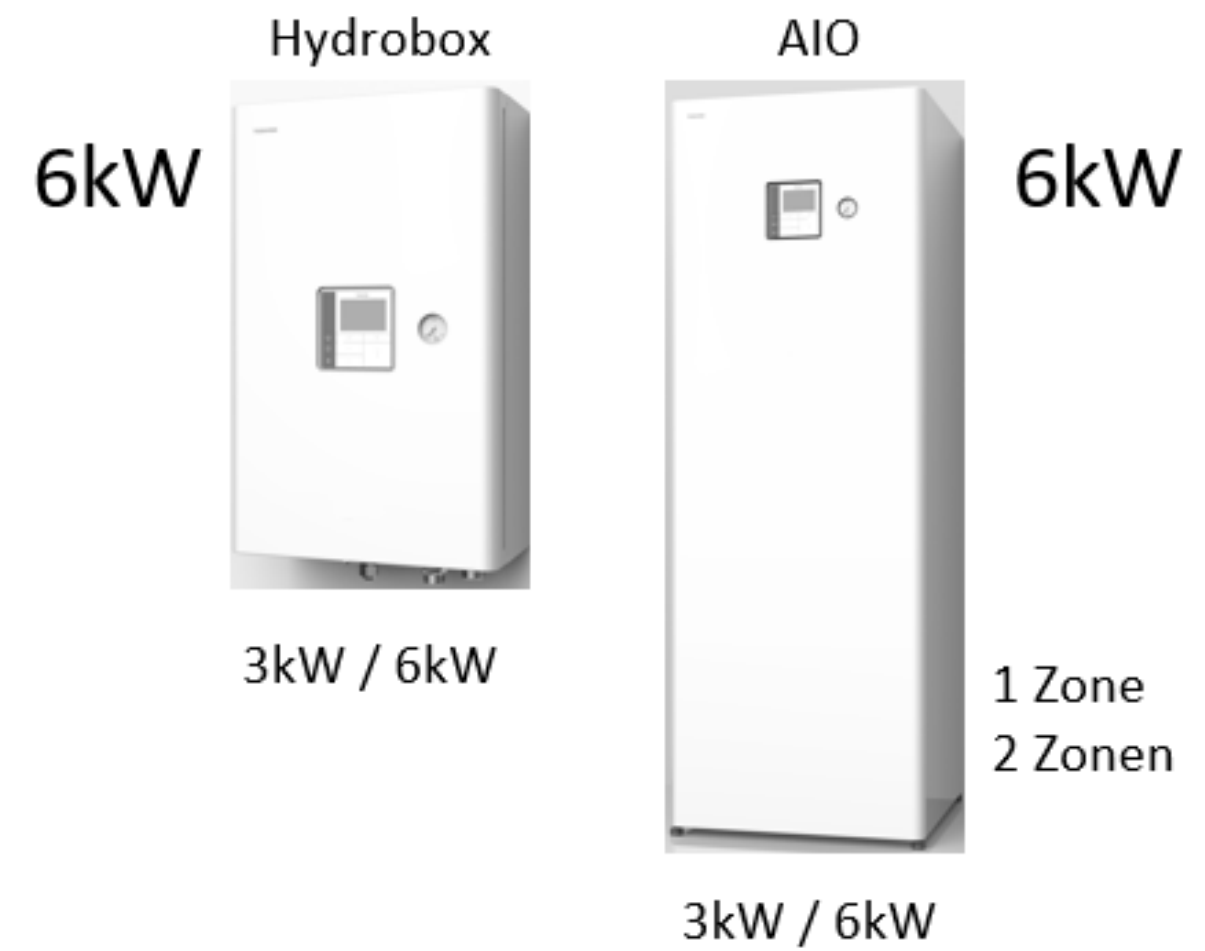
USX

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ESTIA R32 *New*



- New Line-up R32 – made in Europe



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ESTIA R32



Poland



- Types & Models

Outdoor unit	P nom. (h) kW	Power supply
HWT-401HW-E	4,00	1-Ph
HWT-601HW-E	6,00	1-Ph
HWT-801HW-E	8,00	1-Ph
HWT-1101HW-E	11,20	1-Ph
Hydrobox	Backup-heater / Zone	Fits to:
HWT-601XWHM3W-E	3 kW / 2 Zones	HWT-401, 601
HWT-601XWHT6W-E	6 kW / 2 Zones	HWT-401, 601
HWT-1101XWHT6W-E	6 kW / 2 Zones	HWT-801, 1101
HWT-1101XWHT9W-E	9 kW / 2 Zones	HWT-801, 1101
AIO – All In One		
HWT-601F21SM3W-E	3 kW / 1 Zone	HWT-401, 601
HWT-601F21ST6W-E	6 kW / 1 Zone	HWT-401, 601
HWT-1101F21ST6W-E	6 kW / 1 Zone	HWT-801, 1101
HWT-1101F21MT6W-E	6 kW / 2 Zones	HWT-801, 1101
HWT-1101F21ST9W-E	9 kW / 1 Zone	HWT-801, 1101
HWT-1101F21MT9W-E	9 kW / 2 Zones	HWT-801, 1101



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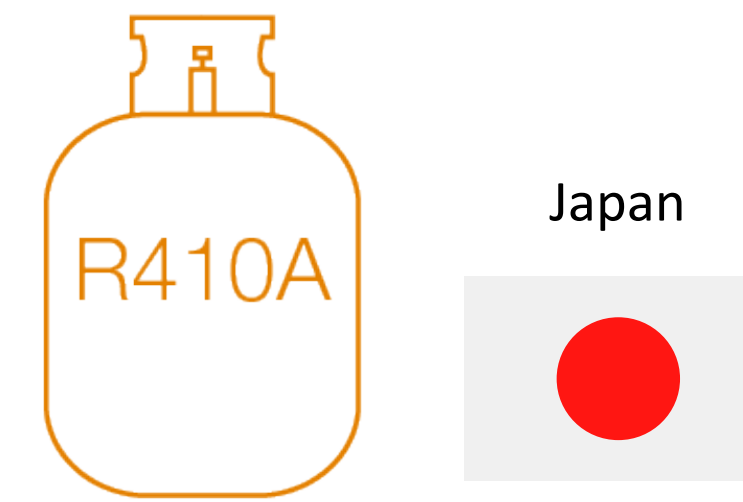
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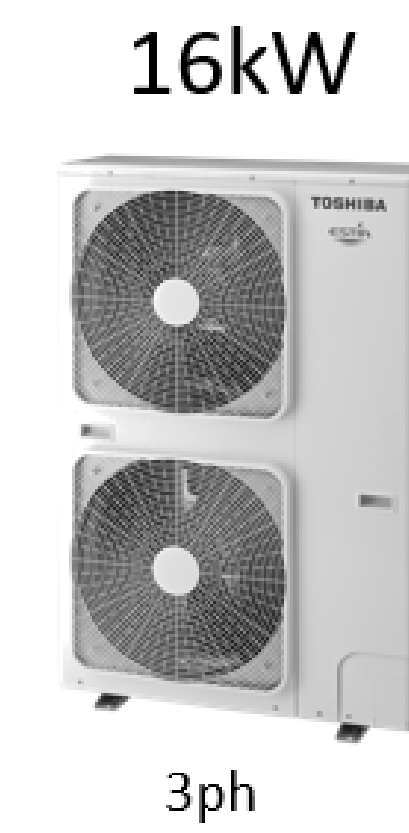
USX

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ESTIA R410A



- Line-up R410A, Split STANDARD – made in Japan

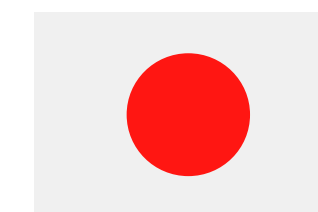


TOSHIBA

ESTIA Split Standard

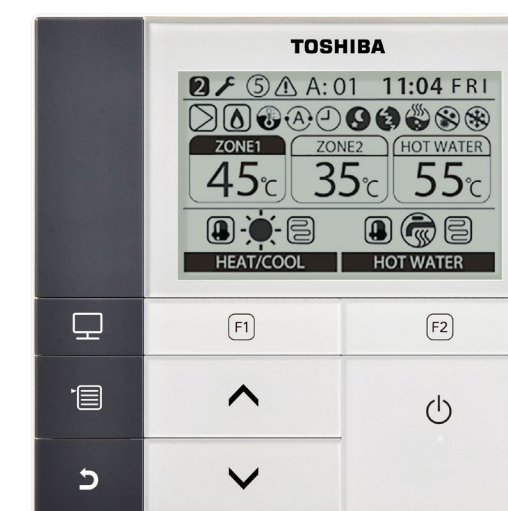


Japan



- Types & Models

Outdoor unit	P nom. (h) kW	Power supply
HWS-1105H8-E	11,20	3-ph
HWS-1405H(8)-E	14,00	1-ph (3-ph)
HWS-1605H8-E	16,00	3-ph
Hydrobox	BU-heater kW	Fits to:
HWS-1405XWH*-E	*M3/T6/T9	HWS 1105, 1405, 1605



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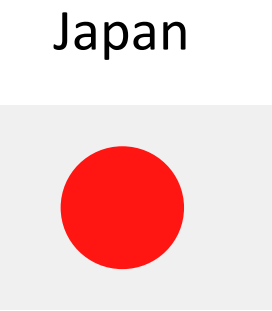
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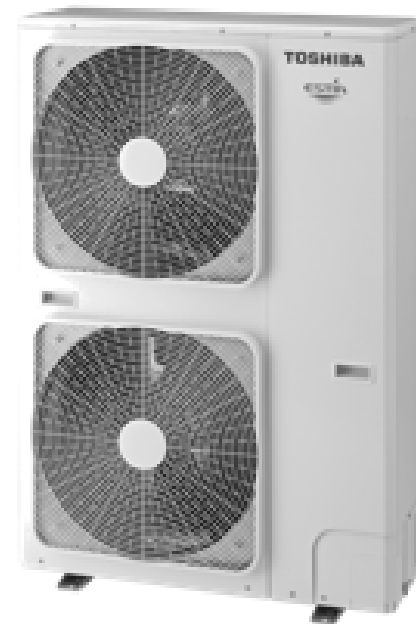
TOSHIBA

ESTIA R410A



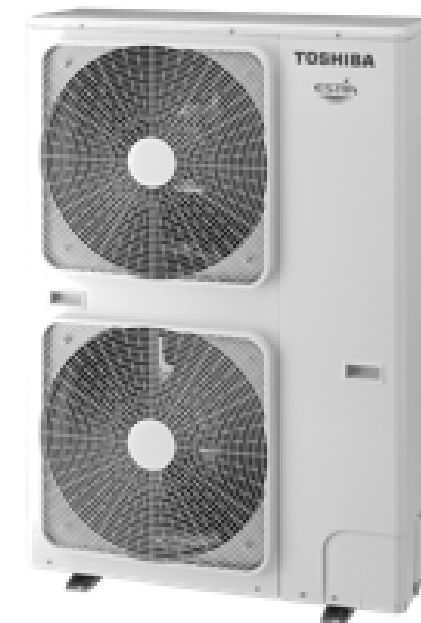
- Line-up R410A, Split HIPOWER – made in Japan

8kW



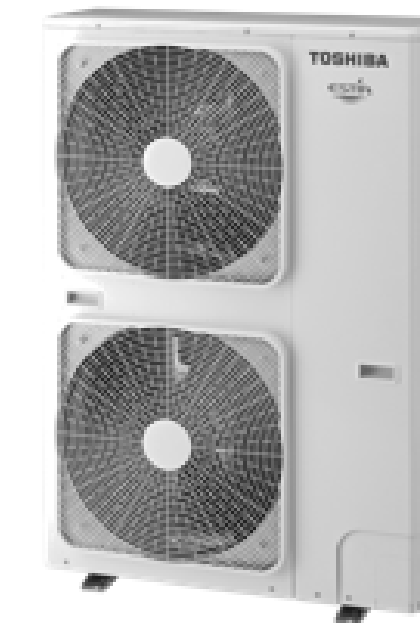
1ph / 3ph

11kW



1ph / 3ph

14kW



3ph

Hydrobox

8kW



3kW / 6kW / 9 kW

Hydrobox

11kW



3kW / 6kW / 9 kW

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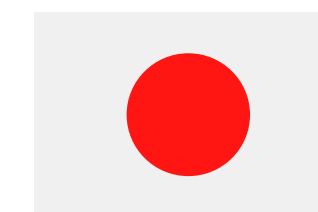
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ESTIA Split Hipower



Japan

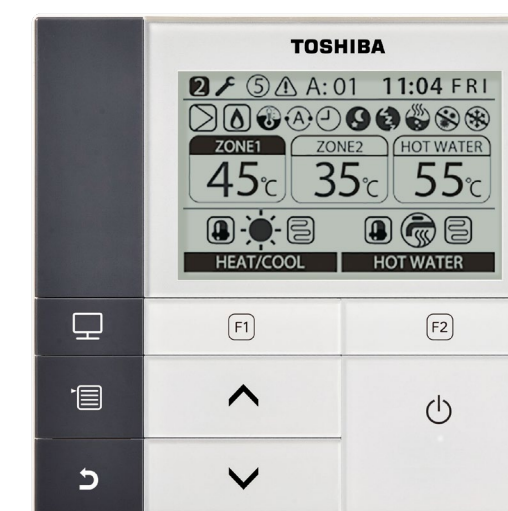


Types & Models

Outdoor unit	P nom. (h) kW	Power supply
HWS-P805H(8)R-E	8,00	1-ph (3-ph)
HWS-P1105H(8)R-E	11,20	1-ph (3-ph)
HWS-P1405H8R-E	14,00	3-ph
Hydrobox	BU-heater kW	Fits to:
HWS-P805XWH*-E	*M3/T6/T9	HWS-P805
HWS-P1105XWH*-E	*M3/T6/T9	HWS P1105, P1405



- ✓ Maximum supply temperature +60°C
- ✓ Minimum outdoor operation temp. -25°C
- ✓ Keeps nominal capacity down to -15°C OAT



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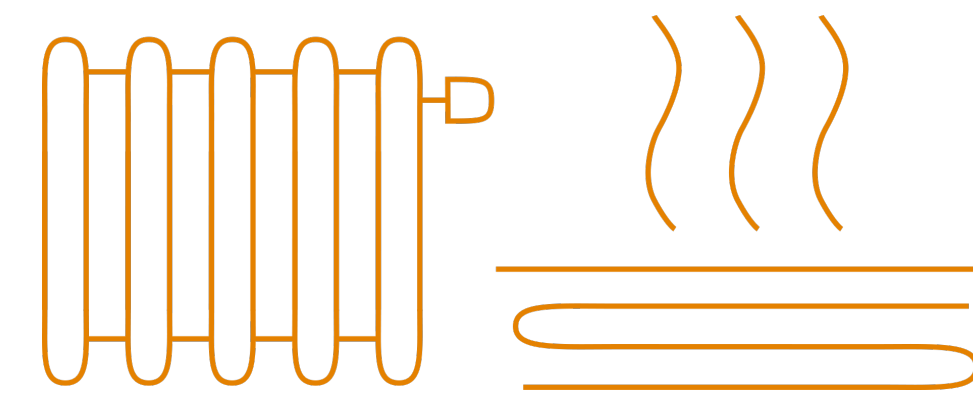
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ESTIA Split Hipower

- Differences R410A / R32



ESTIA R410A Standard Split	ESTIA R410A HiPower	ESTIA R32 Standard Split	ESTIA R32 All In One
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Min. outdoor temperature

all: -20°C

all: -25°C

401, 601: -20°C
801, 1101: -25°C

401, 601: -20°C
801, 1101: -25°C

Max. leaving water temp.

all: +55°C

all: +60°C

401, 601: +55°C
801, 1101: +65°C

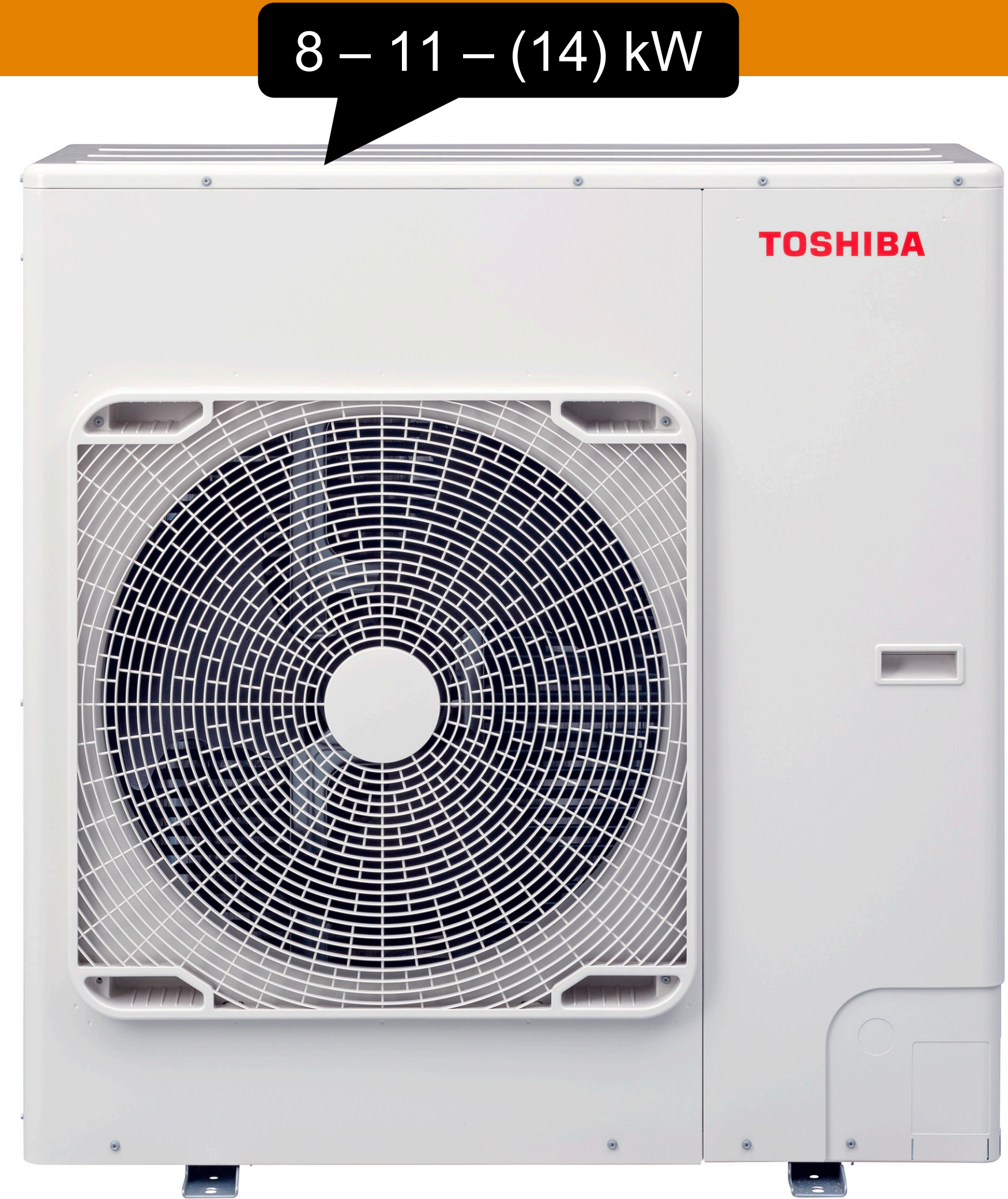
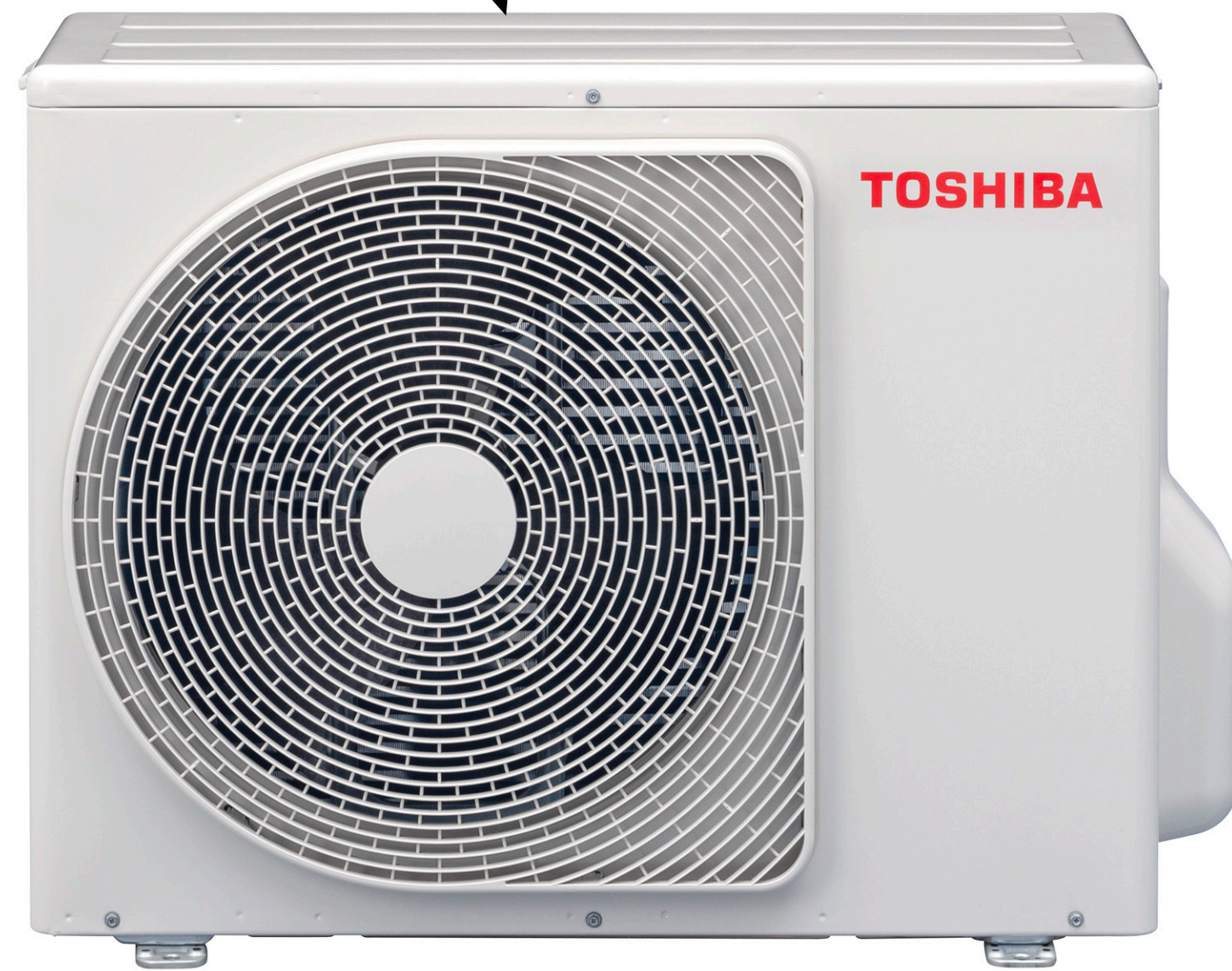
401, 601: +55°C
801, 1101: +65°C



ESTIA current line

Simplify your water-life ...

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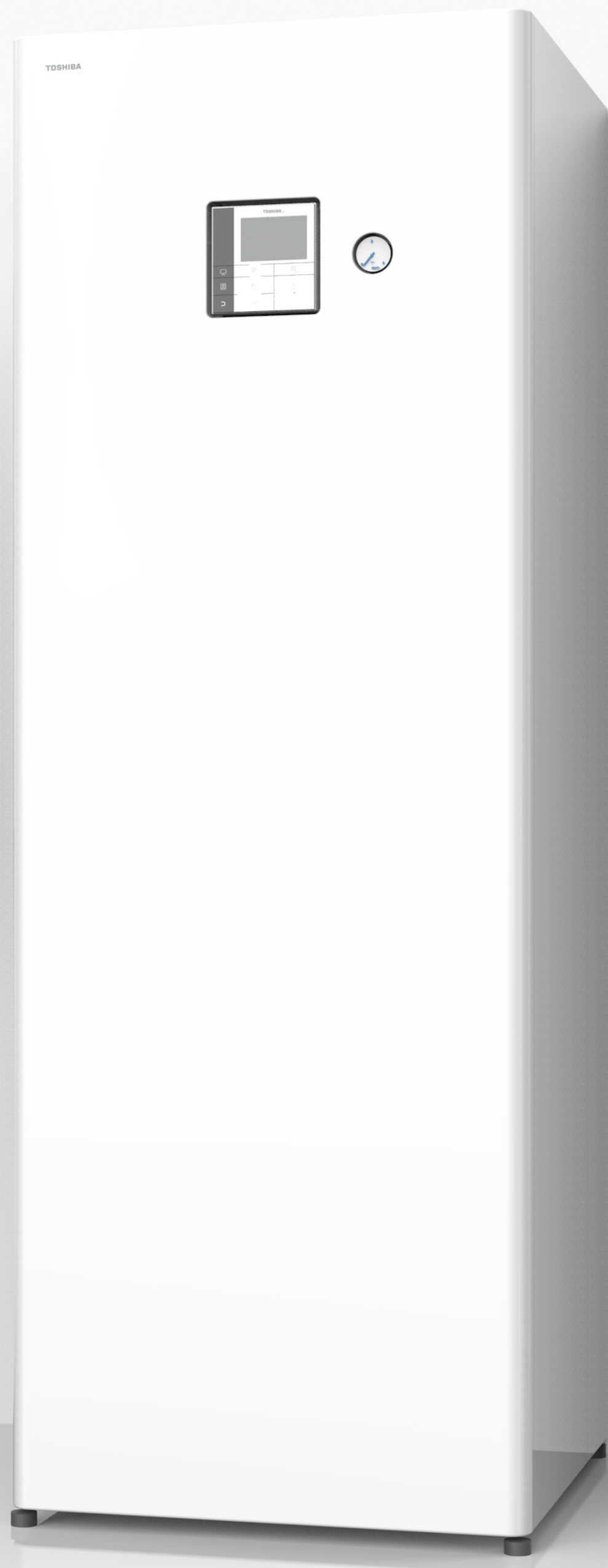
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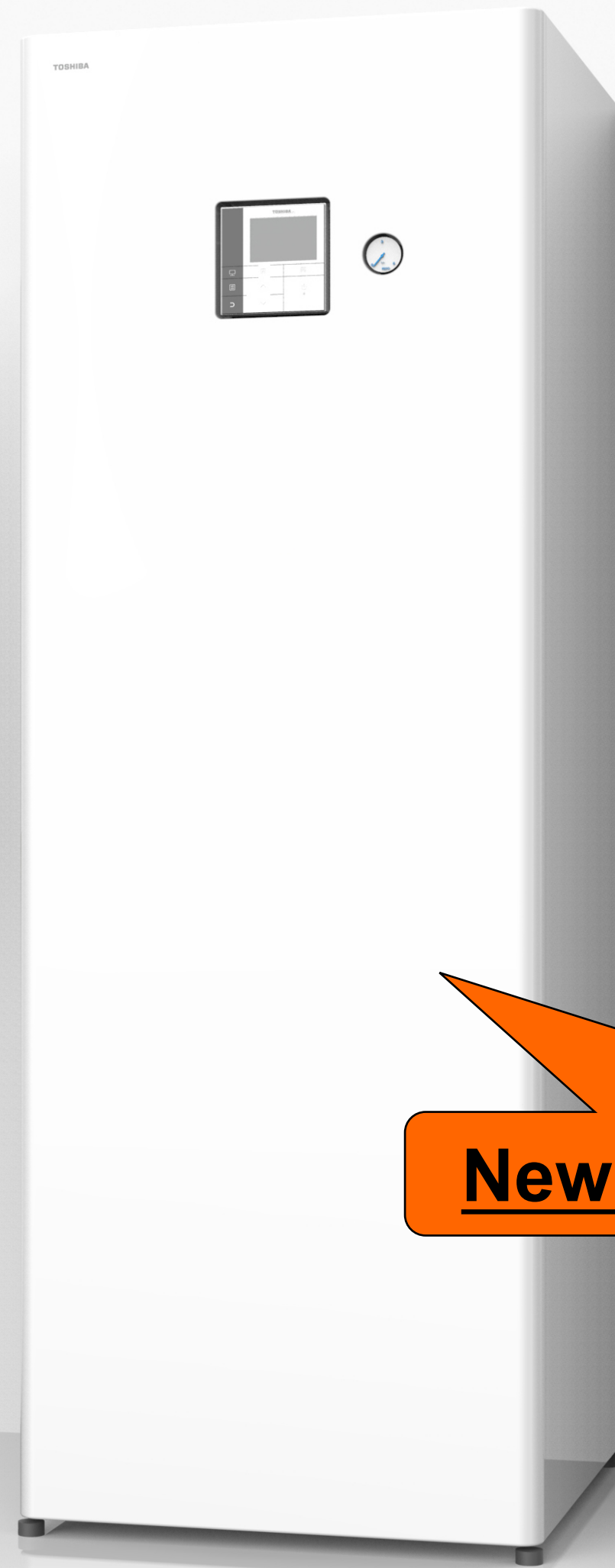
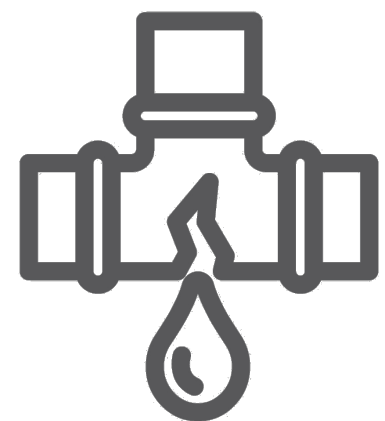
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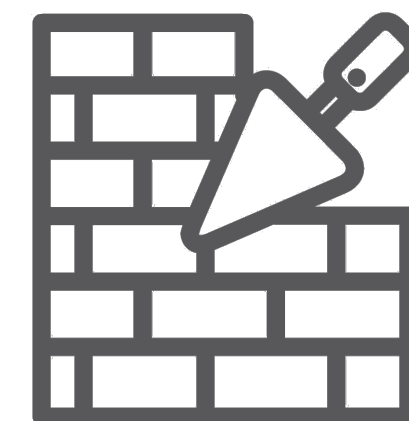
ESTIA R32

- New line-up for all market applications



Renovation market (ca. 60%)

New houses market (ca. 40%)



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ESTIA R32

- New All-In-One indoor unit – details

Easy maintenance with front access to all components

Hydronic circuits with pump
1 or 2 zones; factory fitted (8 und 11 kW)

DX brazed plate HEX
with high efficiency

210 Liter DHW tank

Easy installation:
Top connections for all piping

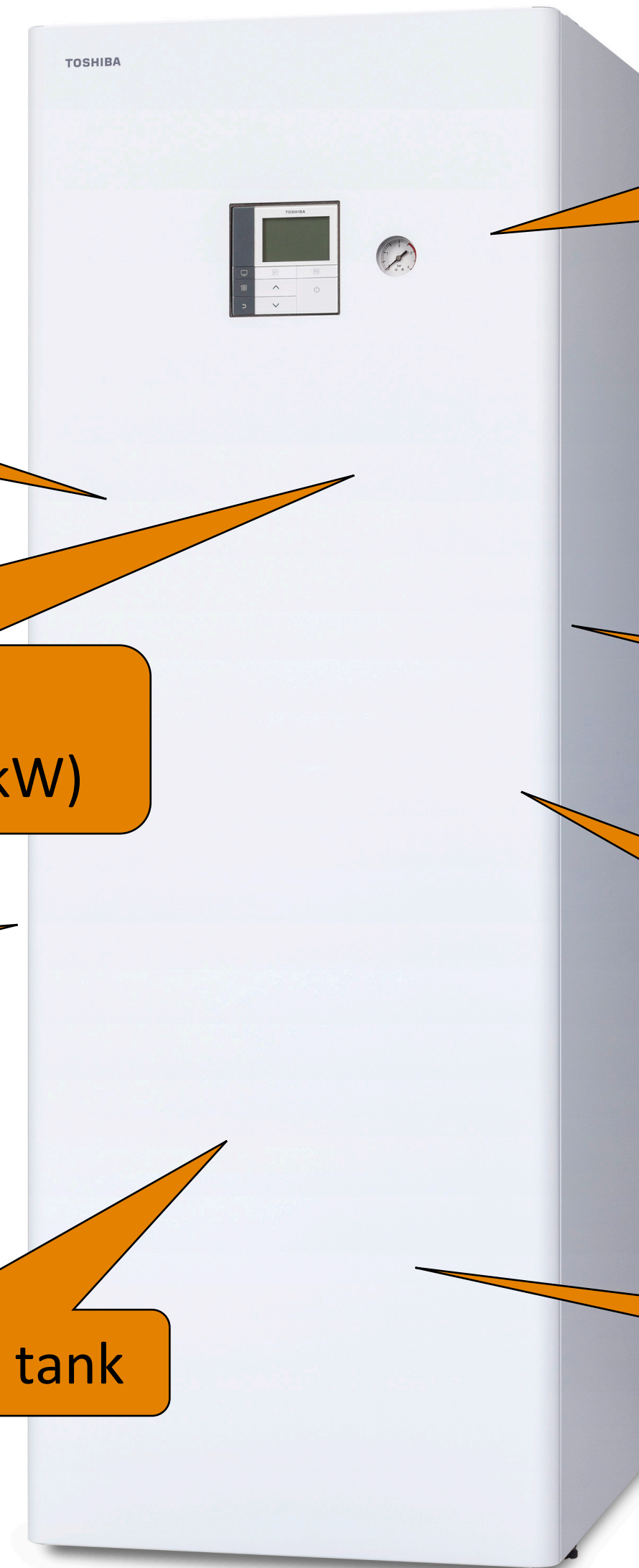
Toshiba ESTIA Remote Control
including new features

Easy commissioning & service
with front electrical box access

Backup heater with 3, 6 or 9 kW
+ expansion vessel

Water Flow-Sensor

compact dimensions
1700 x 600 x 670 mm (HxWxD)



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ESTIA R32

- New All-In-One indoor unit



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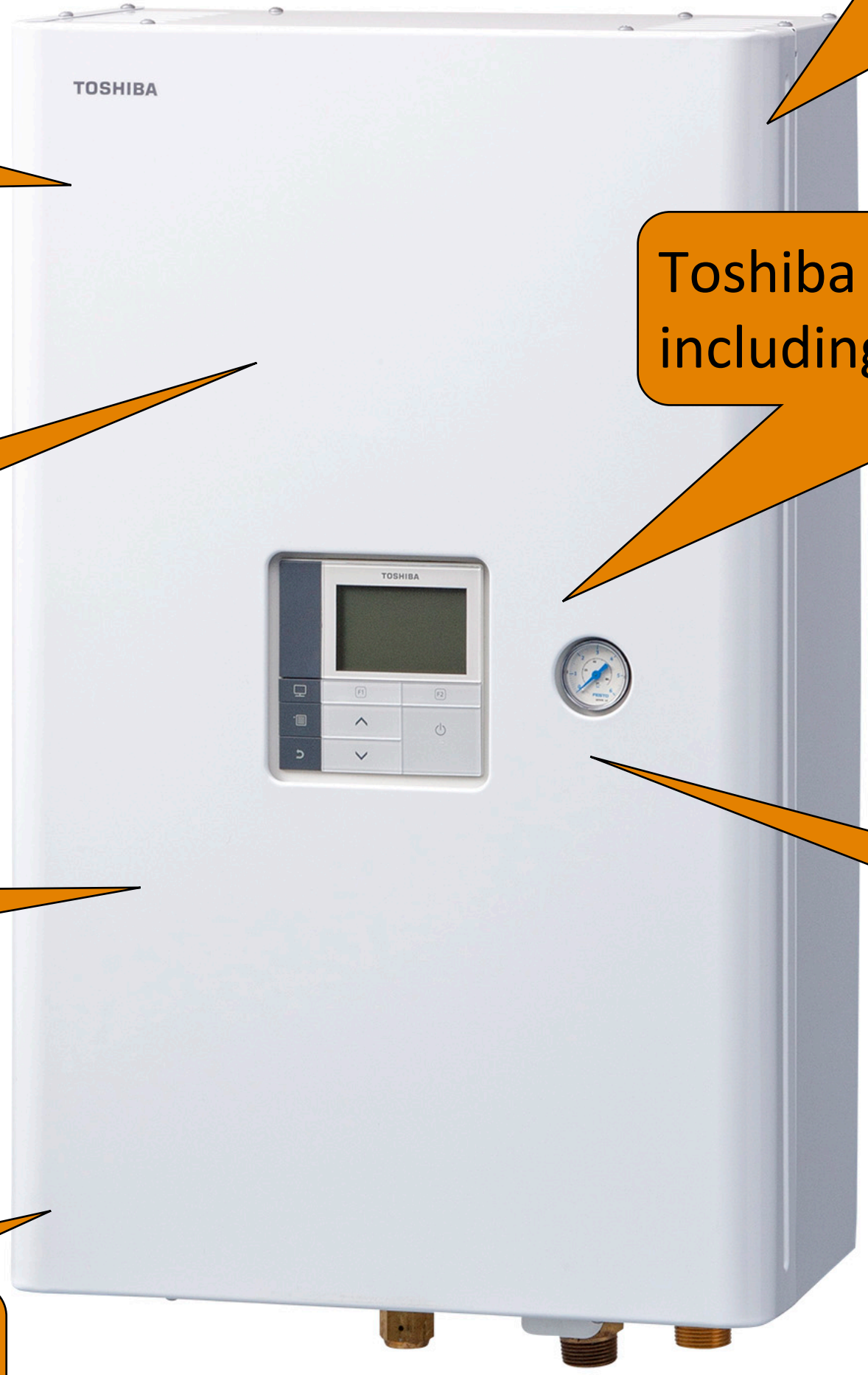
- New Hydrobox indoor unit – Details

electric box with new PCB design and layout

Compact dimensions
725 x 450 x 235 mm (HxWxD)

Lightweight! Only 27 kg
(-55% vs. Series 5 Hydrobox)

Pure white appearance
suitable for any interior



Backup heater with 3, 6 or 9 kW
+ expansion vessel

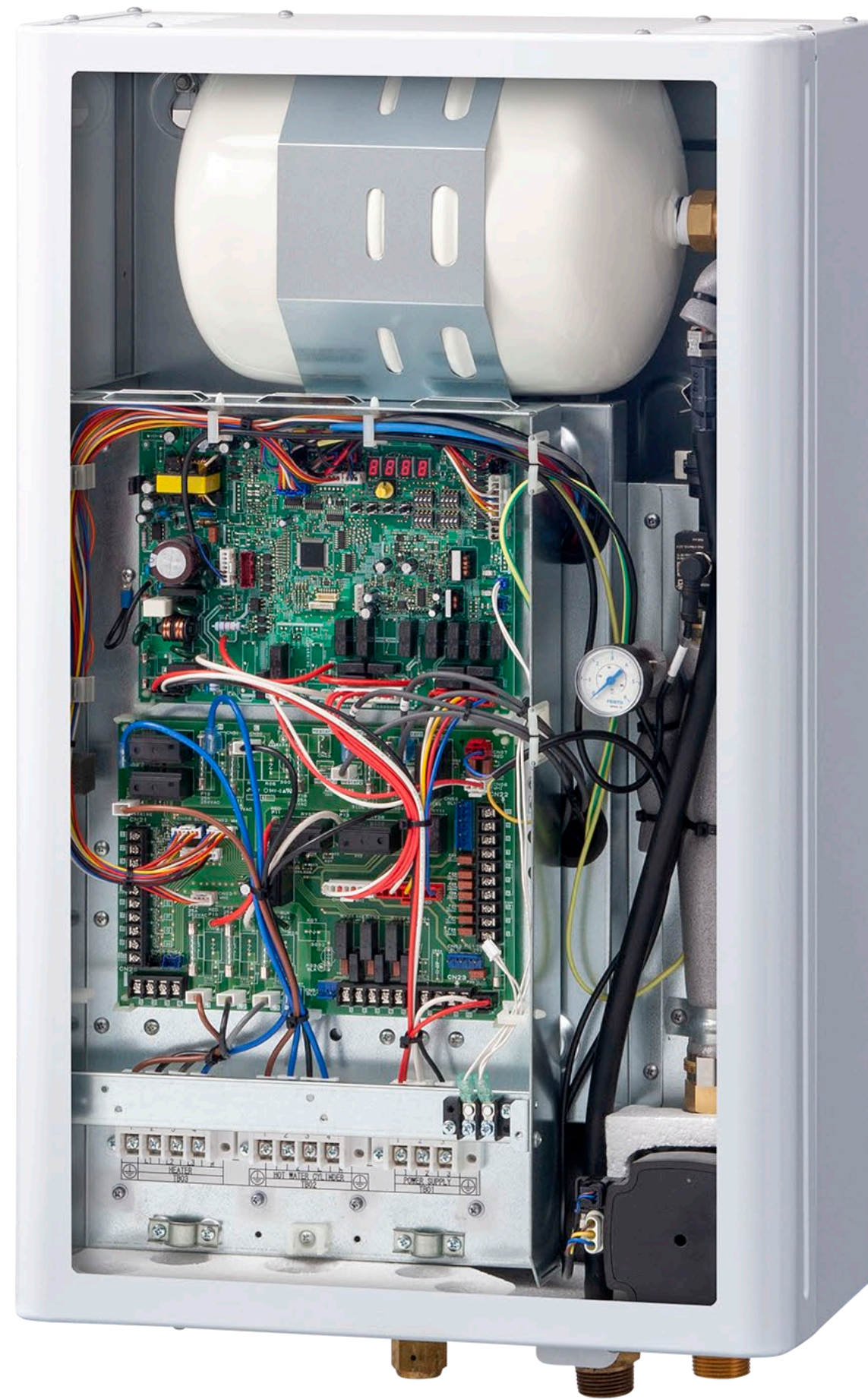
Toshiba ESTIA Remote Control
including new features

Easy maintenance and servicing
of all main components

TOSHIBA

ESTIA R32

- New Hydrobox indoor unit



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ESTIA R32

- Unique to new ESTIA system

AIO with 210 Liter
DHW tank

All In One with 2-Zone
control as a choice:
including pump, mixing valve
& all sensors

compact & lightweight indoor units

Also with R32 – fits to small
rooms:
Refrigerant amount below
minimum limit of 1,82 kg

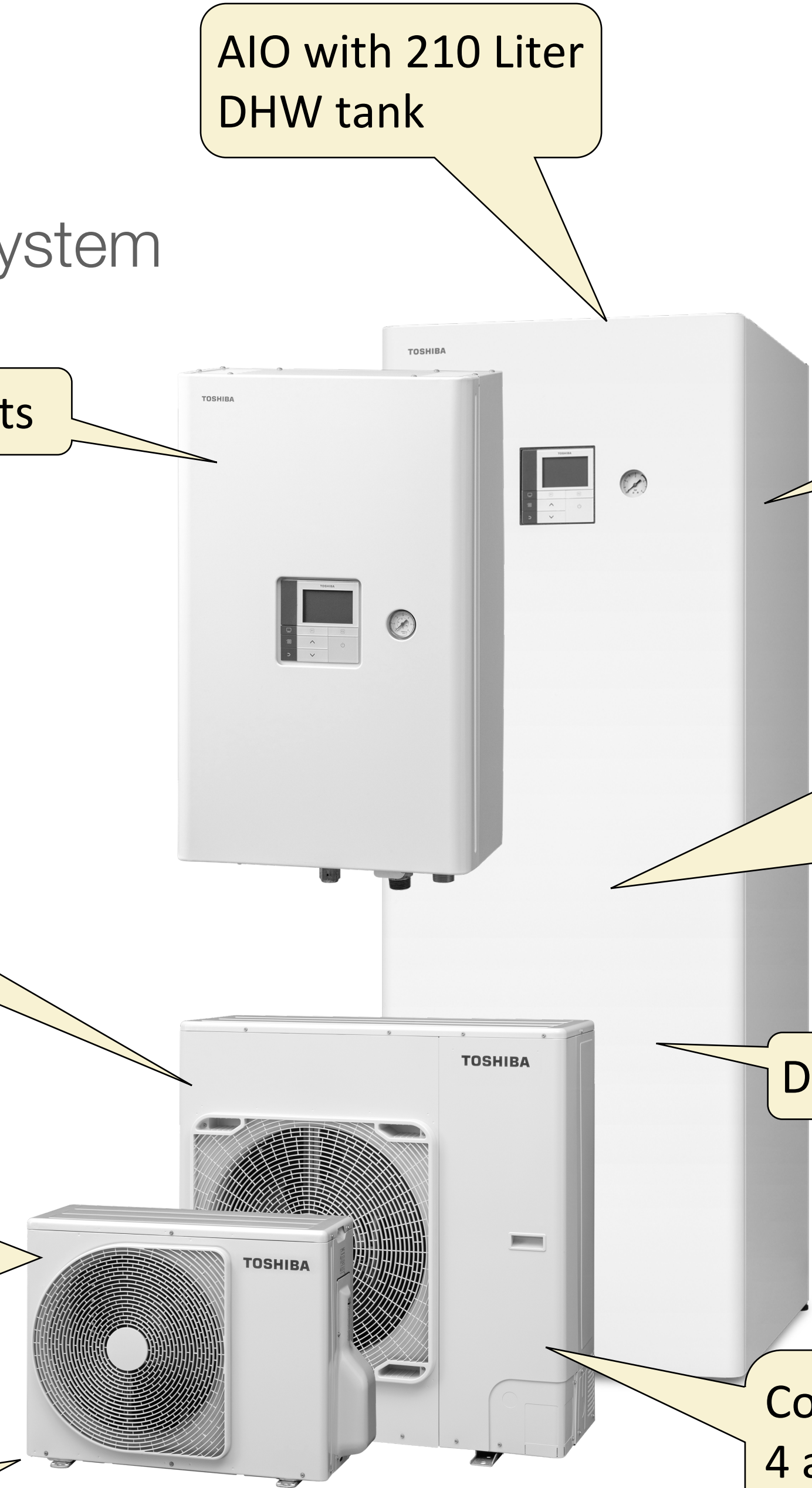
Liquid Injection Compressor
for highest LWT @ lowest
outdoor temperatures

Digital IN/OUT as standard onboard

Silent Modes for quiet night
operation

Compact outdoor units:
4 and 6 kW only 63 x 80 x 30 cm (HxWxD)
8, 11, 14 kW only 105 x 101 x 37 cm (HxWxD)




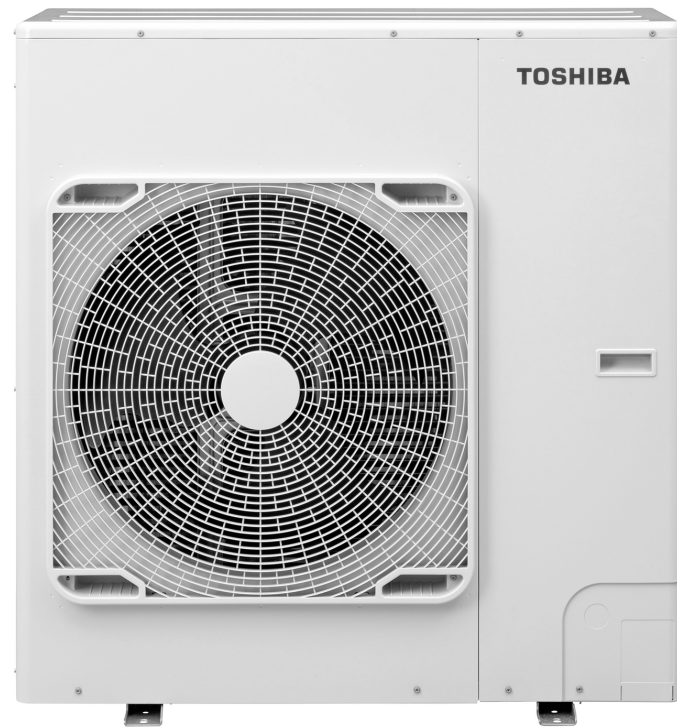
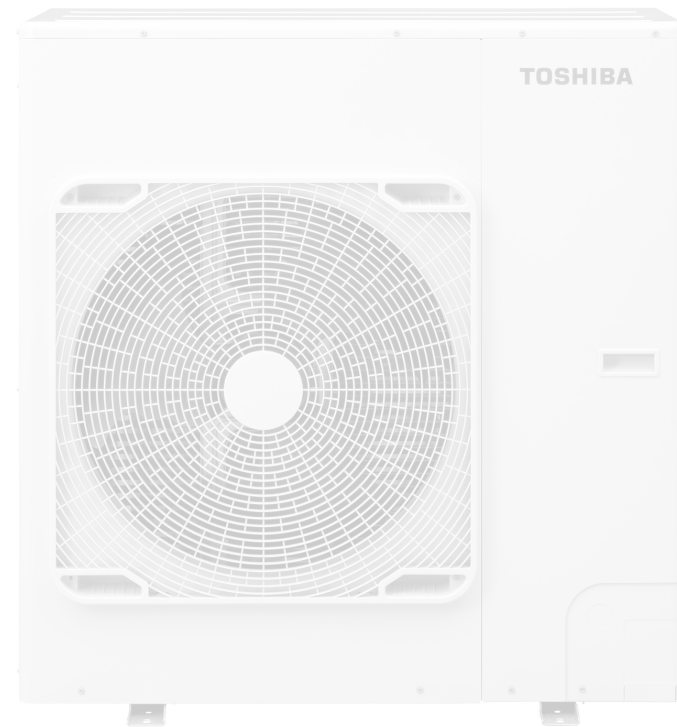
Twin-Rotary Compressor in all units



ESTIA R32

- Outdoor units 2021 – 2022

Split-outdoor units

Supply	1-Ph		1-Ph		3-Ph		3-Ph
P nom. (kW)	4	6	8	11	8	11	14 / 16
ESTIA Series 1 							



New ESTIA R32 outdoor unit chassis offer SILENT-operation

TOSHIBA

ESTIA R32

- 4 – 6 kW outdoor unit
- Compact with high capacity



	Höhe	Breite	Tiefe
Toshiba	630 mm	800 mm	300 mm
blue at	740 mm	884 mm	388 mm
red ed	880 mm	848 mm	330 mm

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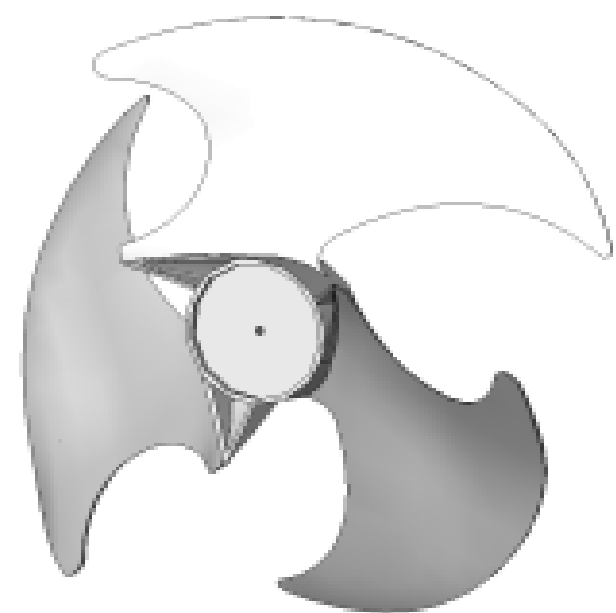
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TOSHIBA

ESTIA R32

- 4 – 6 kW outdoor unit



High efficiency fan propeller

- Highest air performance with the lowest energy consumption

Inverter compressor control

- Supplies all benefits from **TOSHIBA's proven DAISEIKAI series**



TOSHIBA DC-Twin-Rotary Compressor

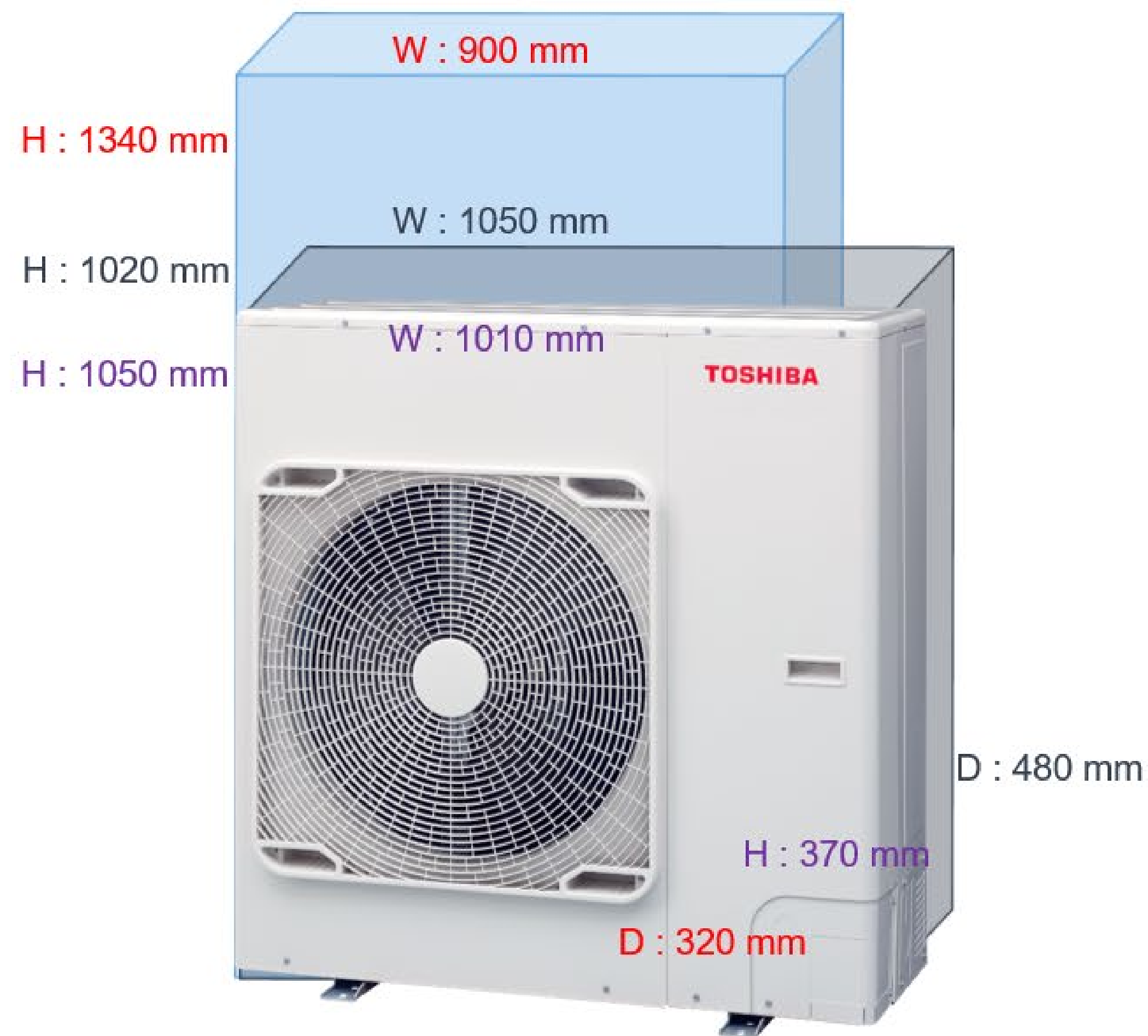
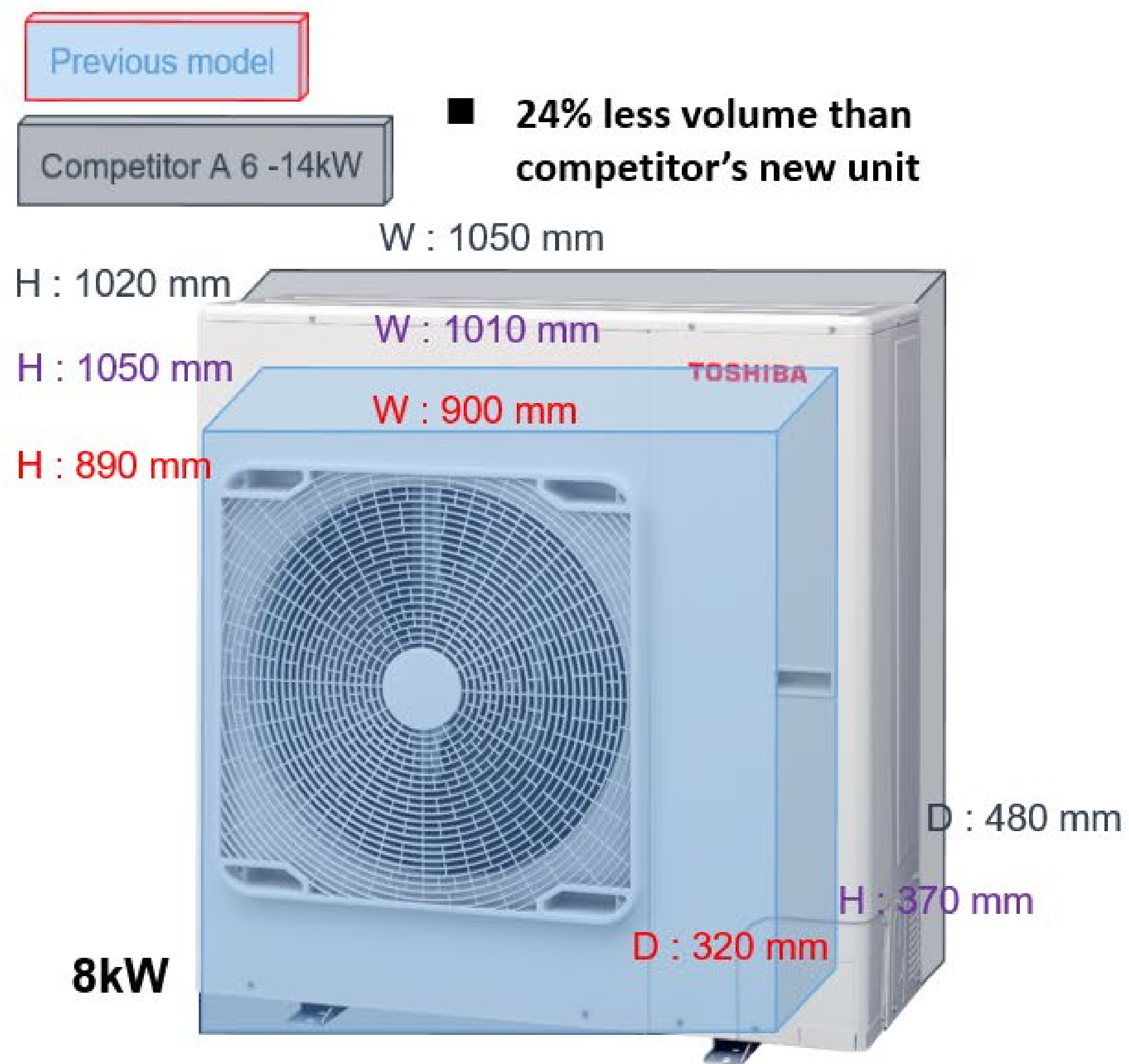
- Improved the efficiency via developed new motor and compression unit
- Improved system efficiency through less discharged oil in refrigeration circuit



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ESTIA R32

- 8 – 11 – 14 kW outdoor unit
- Compact with high capacity



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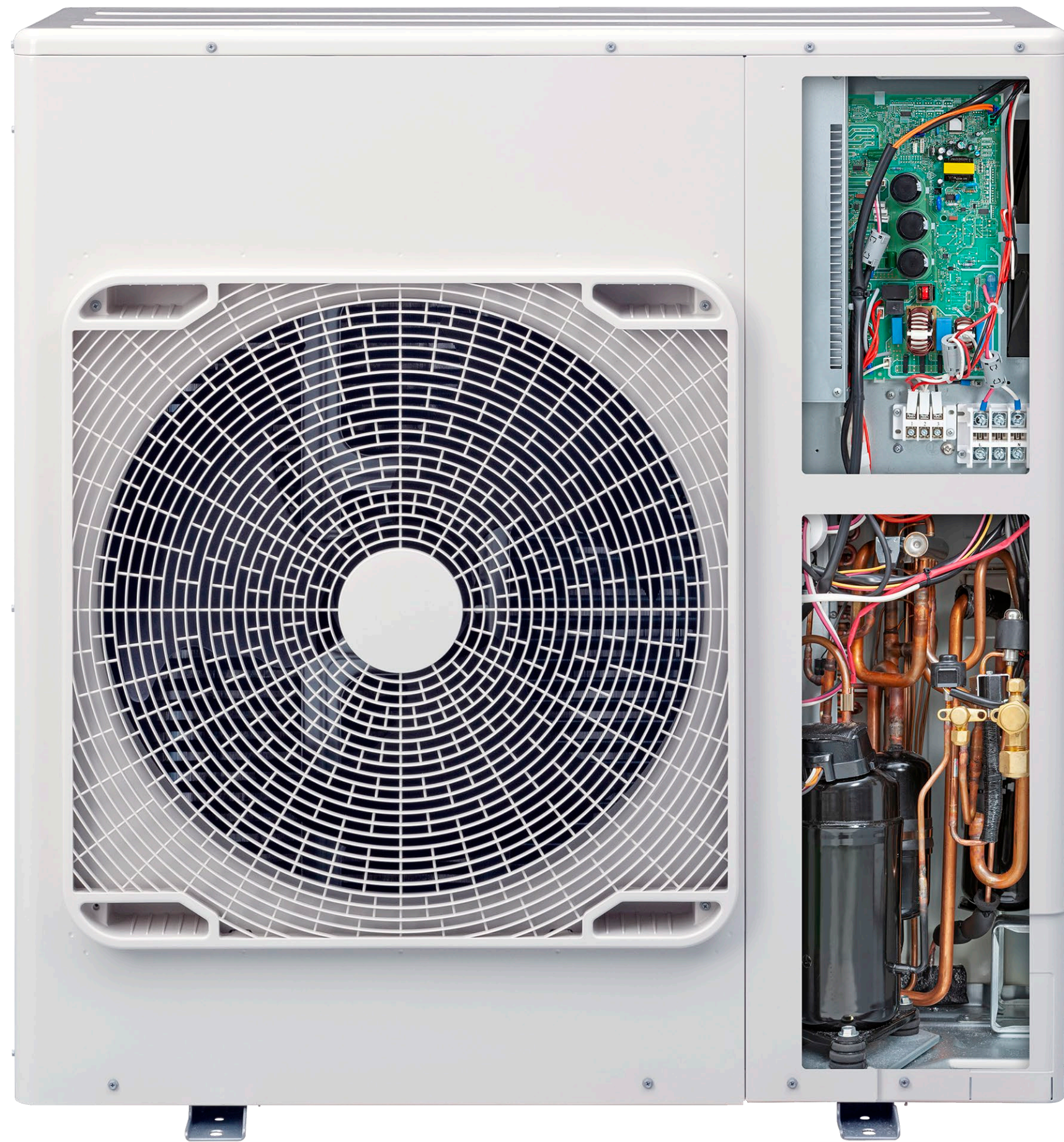
SMMS-u

USX

TOSHIBA

ESTIA R32

- 8 – 11 – 14 kW outdoor unit



USX

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RAV

ESTIA

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ESTIA R32

- 8 – 11 – 14 kW outdoor unit



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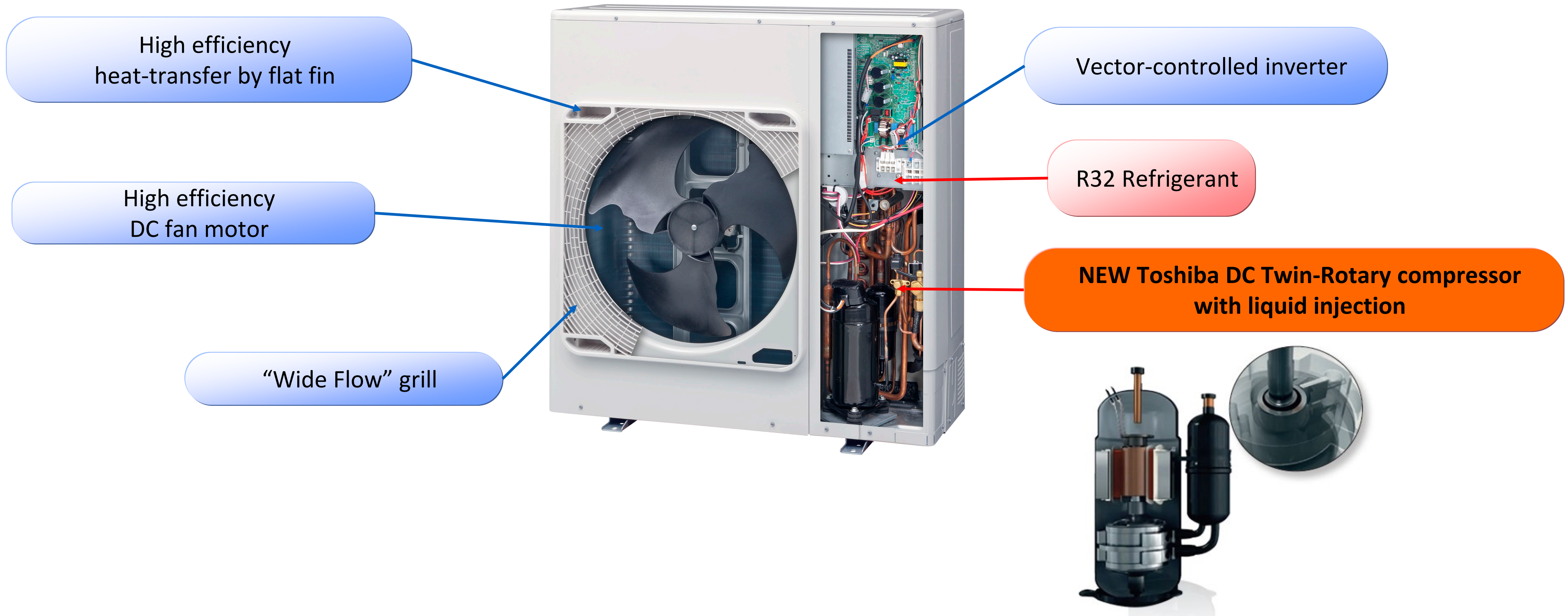
ESTIA

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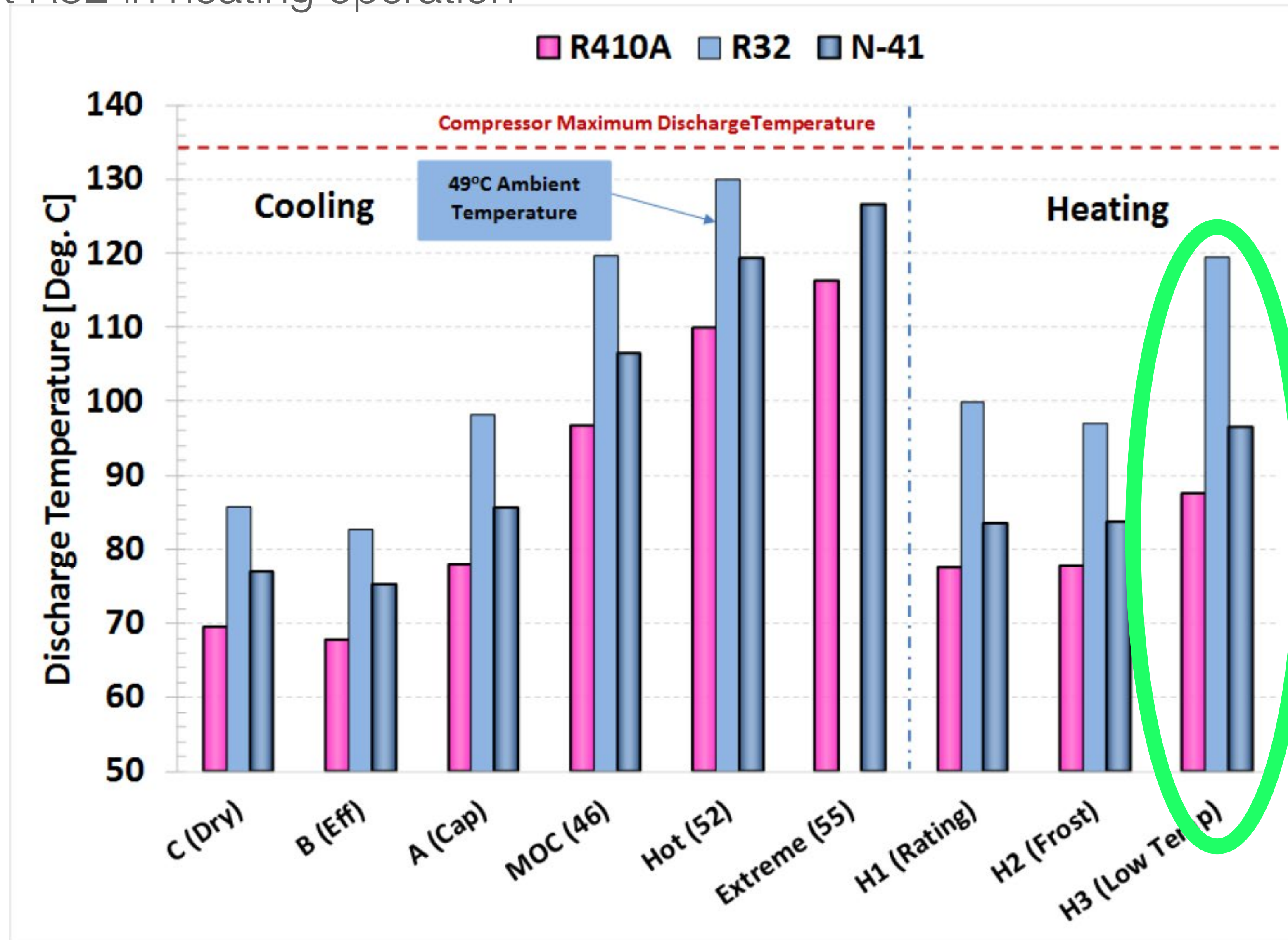
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ESTIA R32

- Refrigerant R32 in heating operation



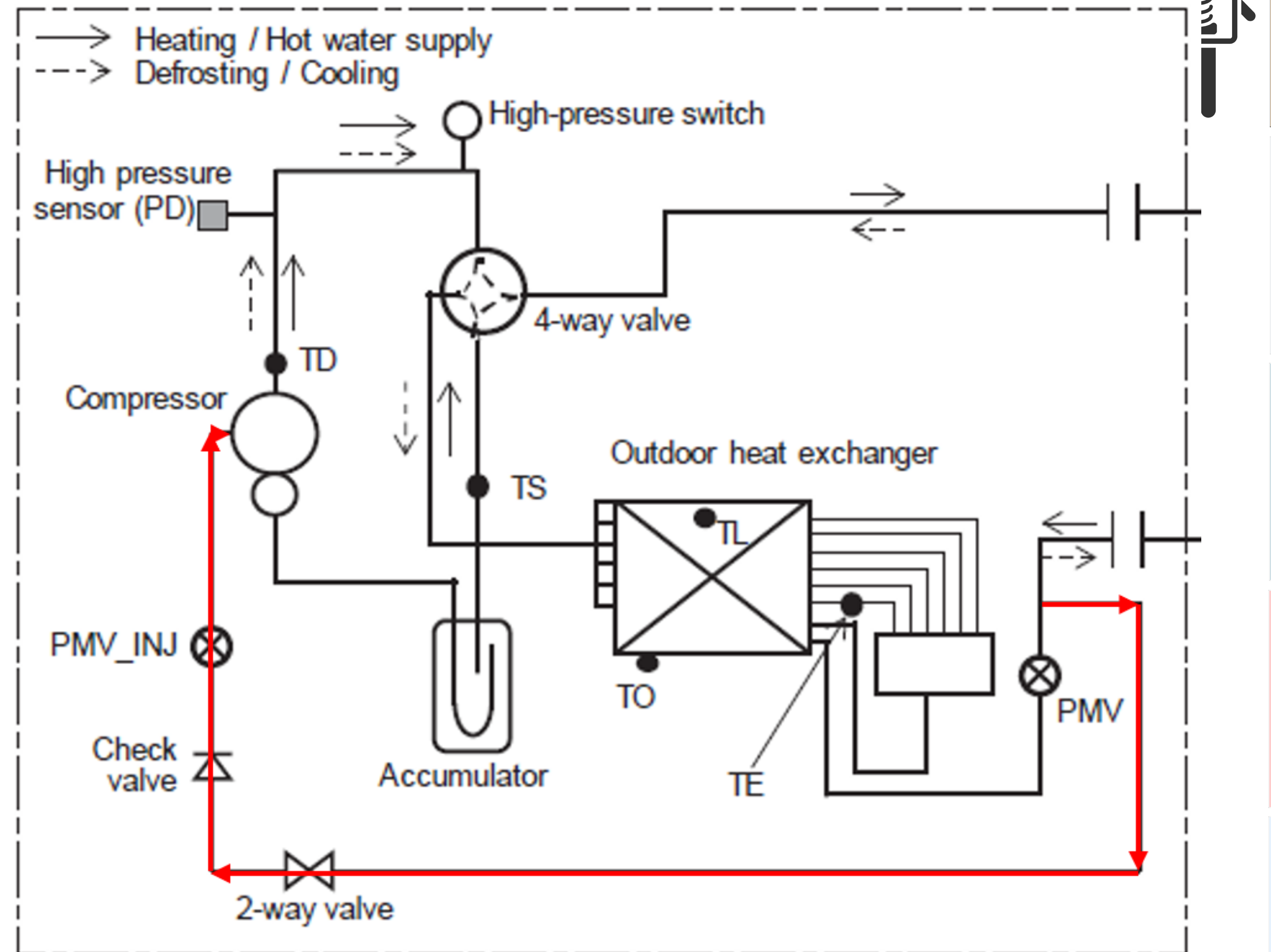
ESTIA R32

- R32 in heating operation : **LIQUID INJECTION**



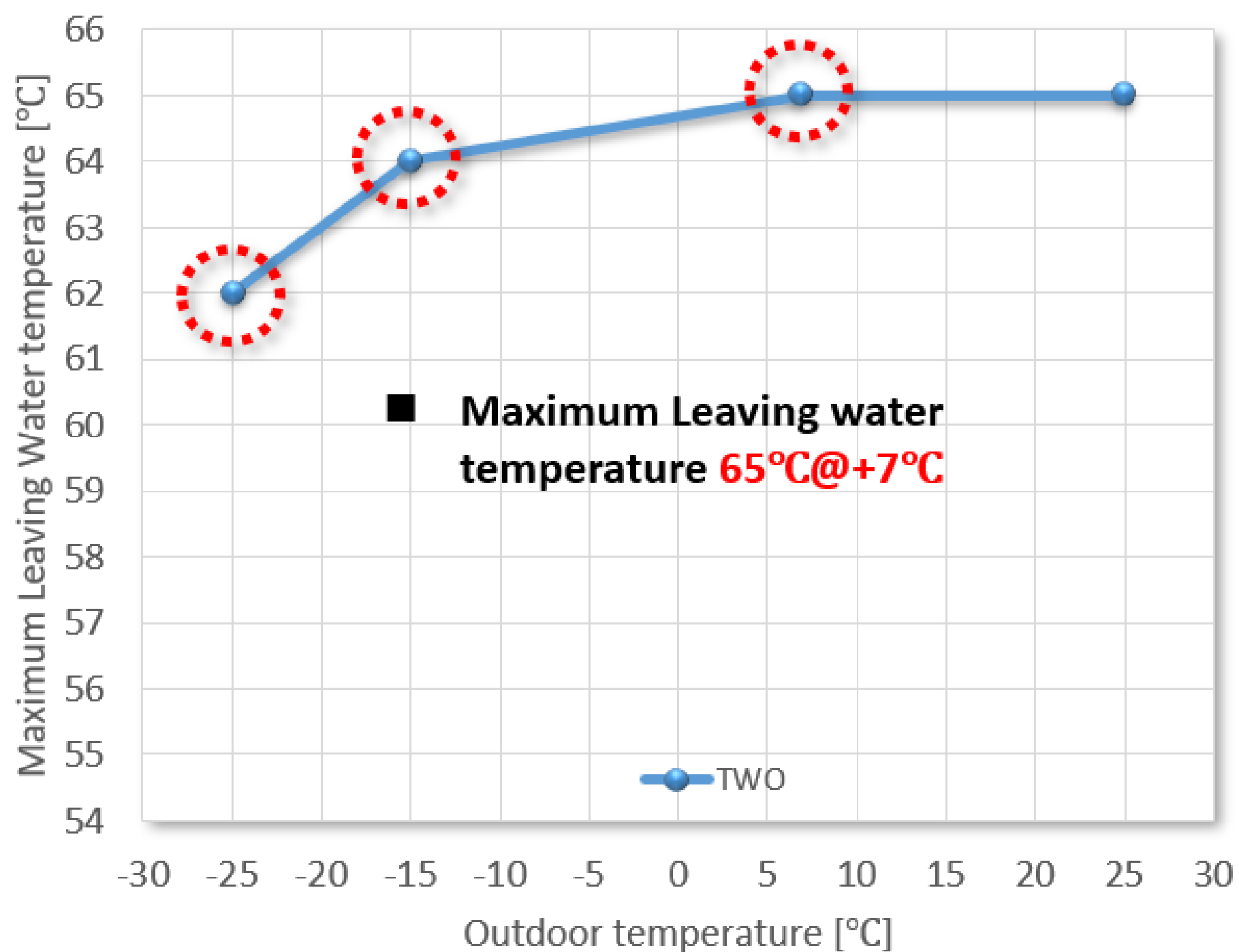
Refrigerant vapor or two-phase refrigerant is injected during the compression process via one or more injection ports on a single-stage compressor – thus dividing the compression into several stages.

- ✓ Expanding the operation range @ low outdoor temperatures
- ✓ Increases the maximum achievable leaving water temperature

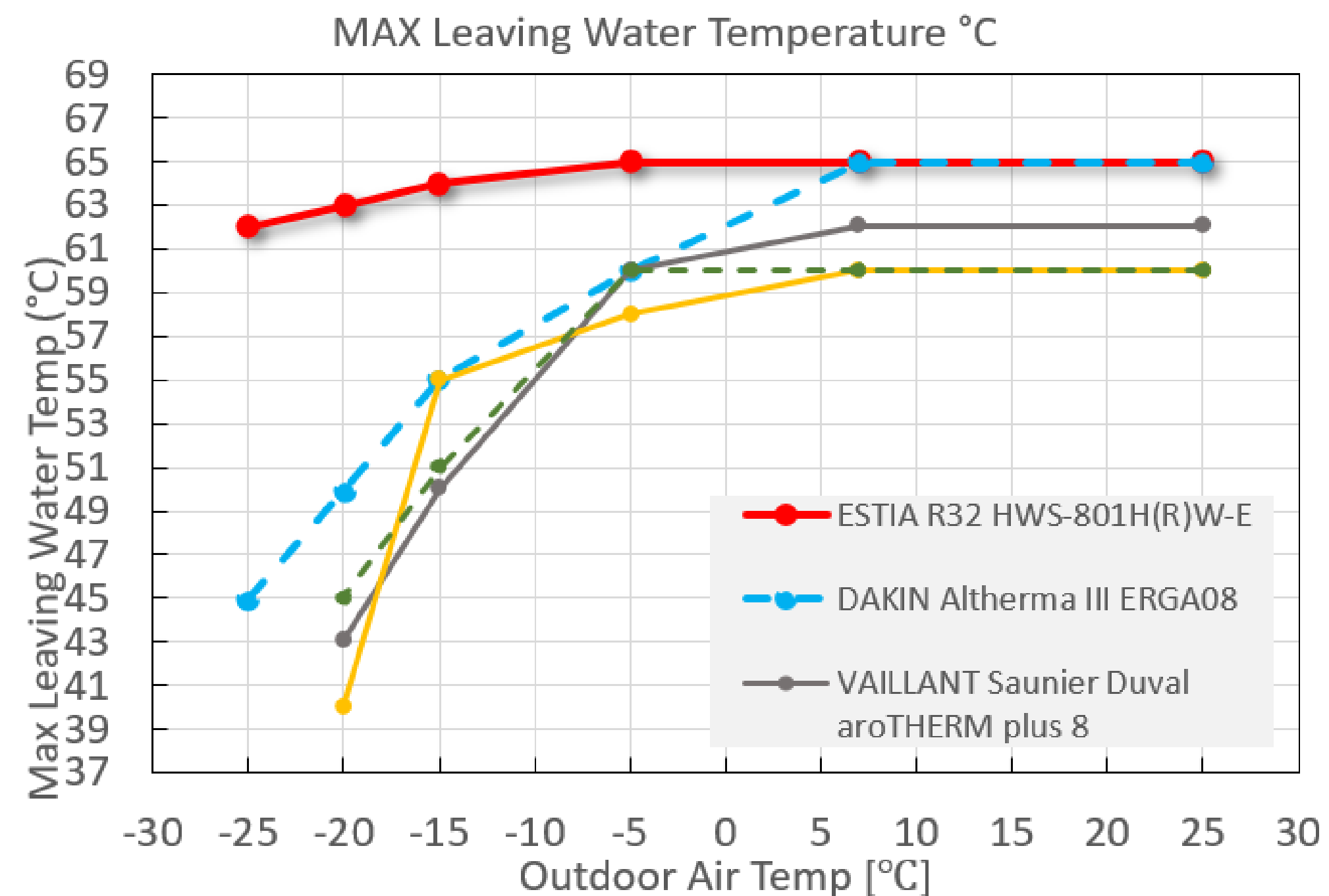


ESTIA R32

- High leaving water temperature @ low ambient conditions
- LWT +62°C @ OAT -25°C due to liquid injection compressor (from size 8)



8 & 11kW



ESTIA R32

■ User Interface

ESTIA RC Main features
Auto mode
Schedule timer
Night setback
Summer time setting
Schedule setting
Floor drying
Service mode
Alarm history
Service monitor



Quiet mode

preventing nuisance noise at night, by reducing the sound level of the outdoor unit down to -7 dB(A)



Night mode

automatically reducing the water temperature at night



Boost function

whenever you need domestic hot water quickly



Anti-bacteria control

regularly increases the temperature in the domestic hot water tank to 75°C for 30 minutes



Frost protection

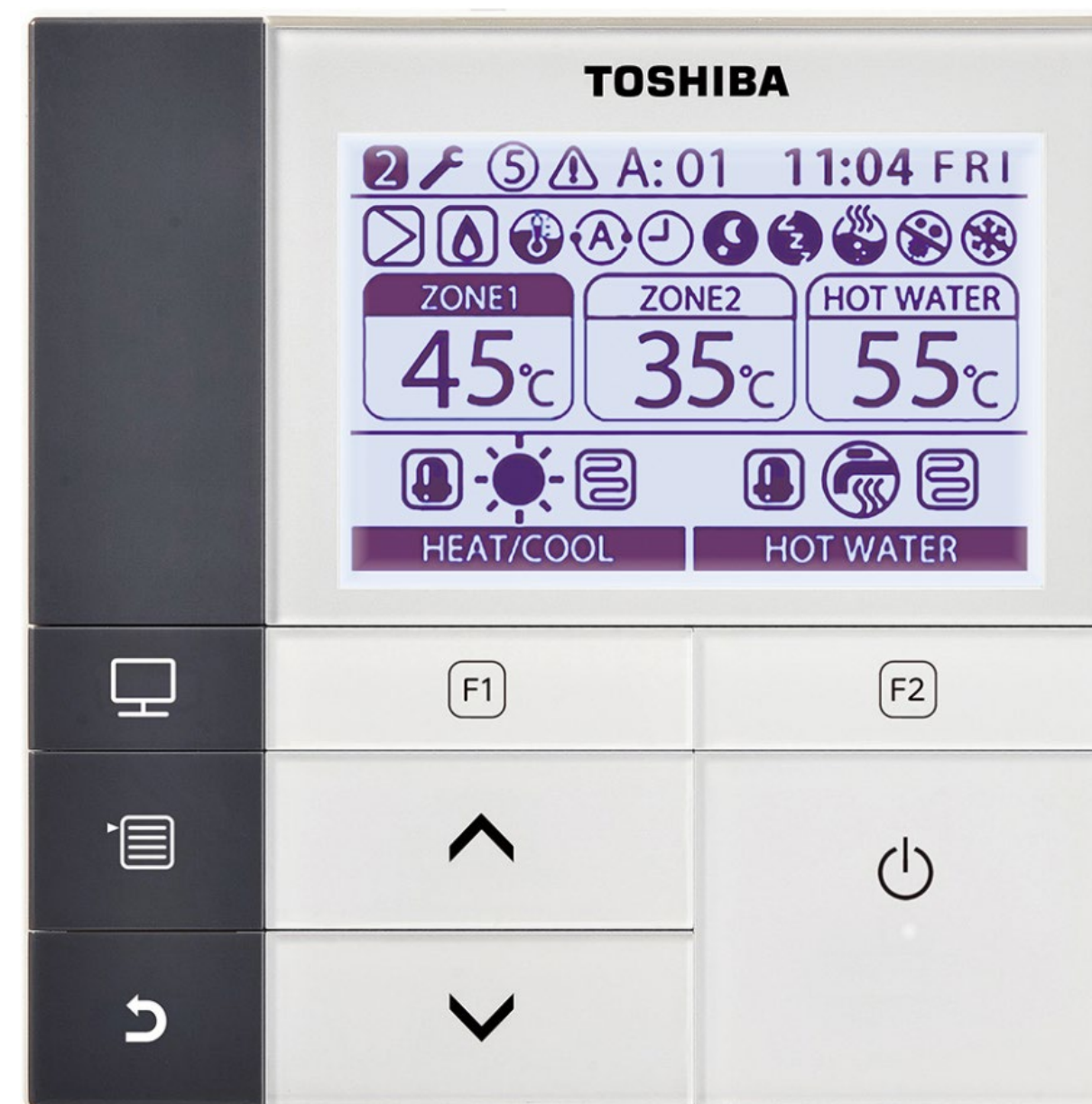
ensuring a minimum temperature is maintained at all times to prevent freezing

ESTIA R32

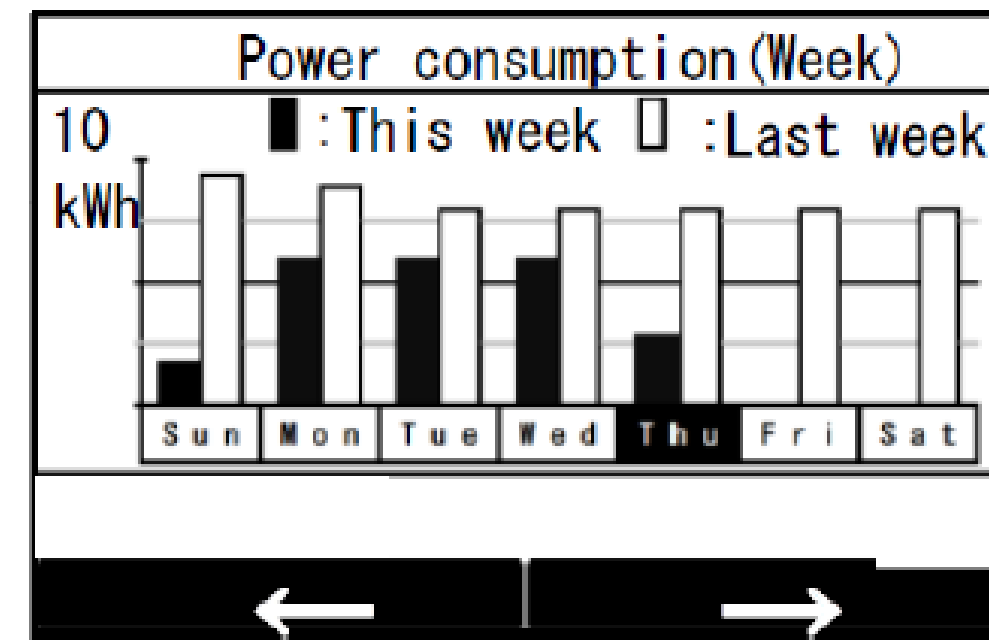
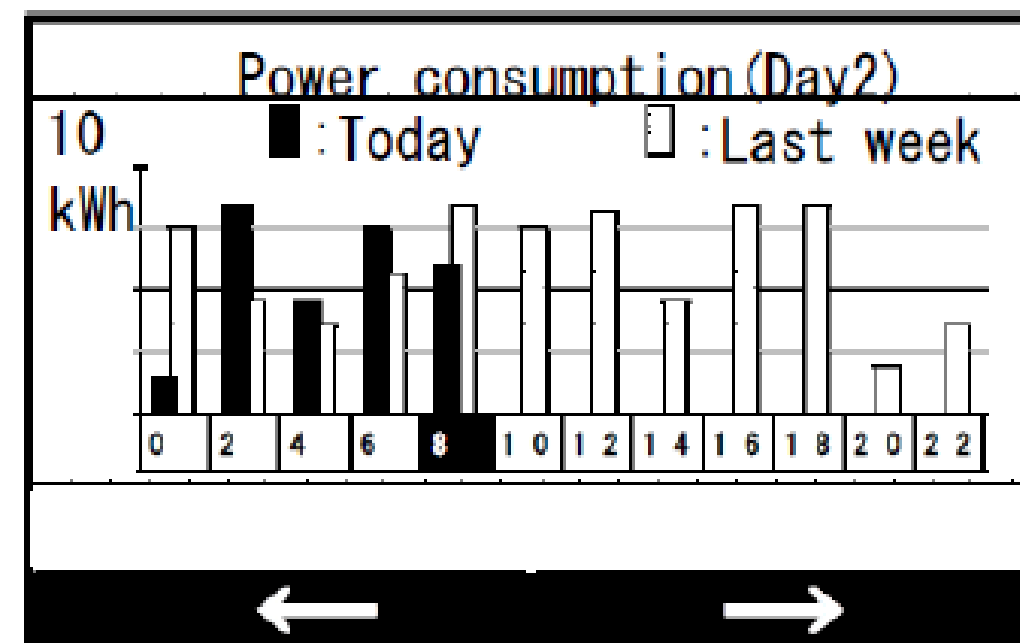
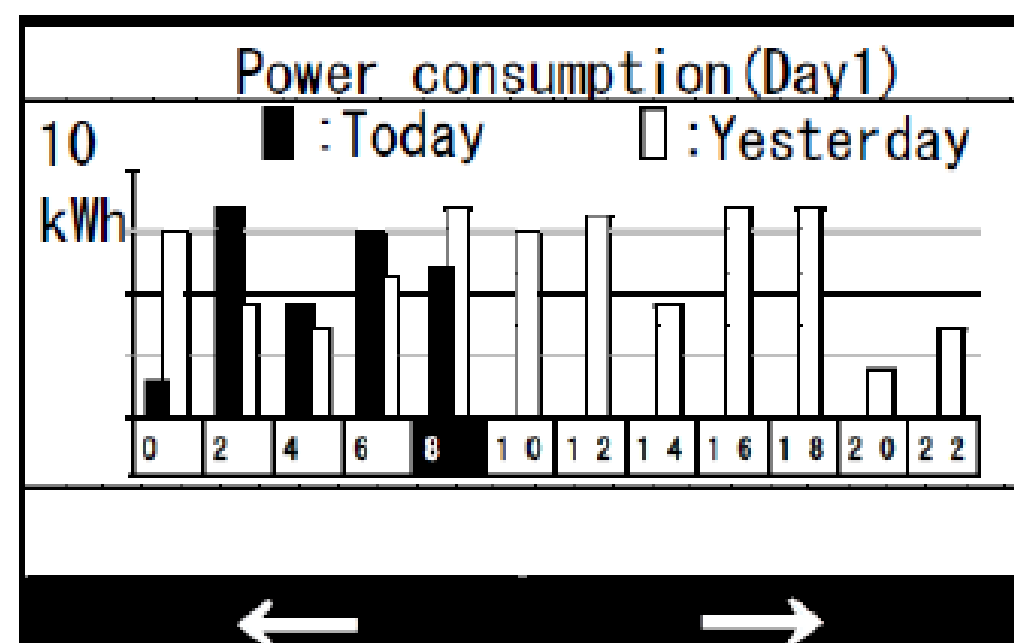
- User Interface

- New ESTIA R32 remote Control with 15 languages:

- | | |
|-----------|---------|
| English | Dutch |
| Portugese | French |
| Finnish | Polish |
| German | Czech |
| Danish | Spanish |
| Hungarian | Italian |
| Croatian | Turkish |
| Slovenian | |

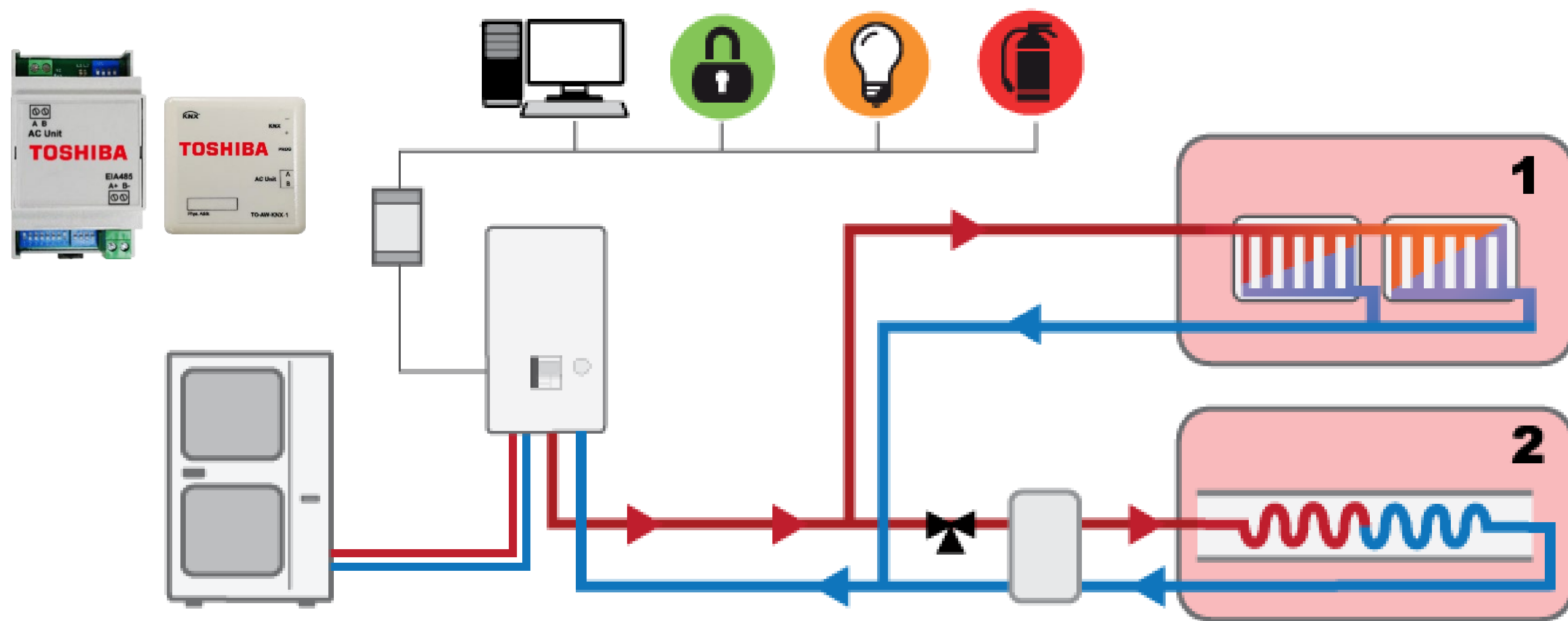


- New ESTIA R32 Remote Control with power consumption display:



ESTIA R32

- Connectivity
- Modbus® & KNX optional:



- 2nd RC cannot be connected together with Modbus®/KNX interface.
- Modbus®/ KNX interface can be connected to series 4 and series 5

* Modbus® is a registered trademark of Schneider E.

- SG-Ready functionality:



"Smart Grid Ready" allows the Electricity Supplier to automatically control the operating change the electrical load on the network.

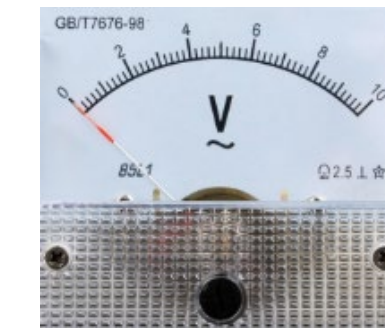
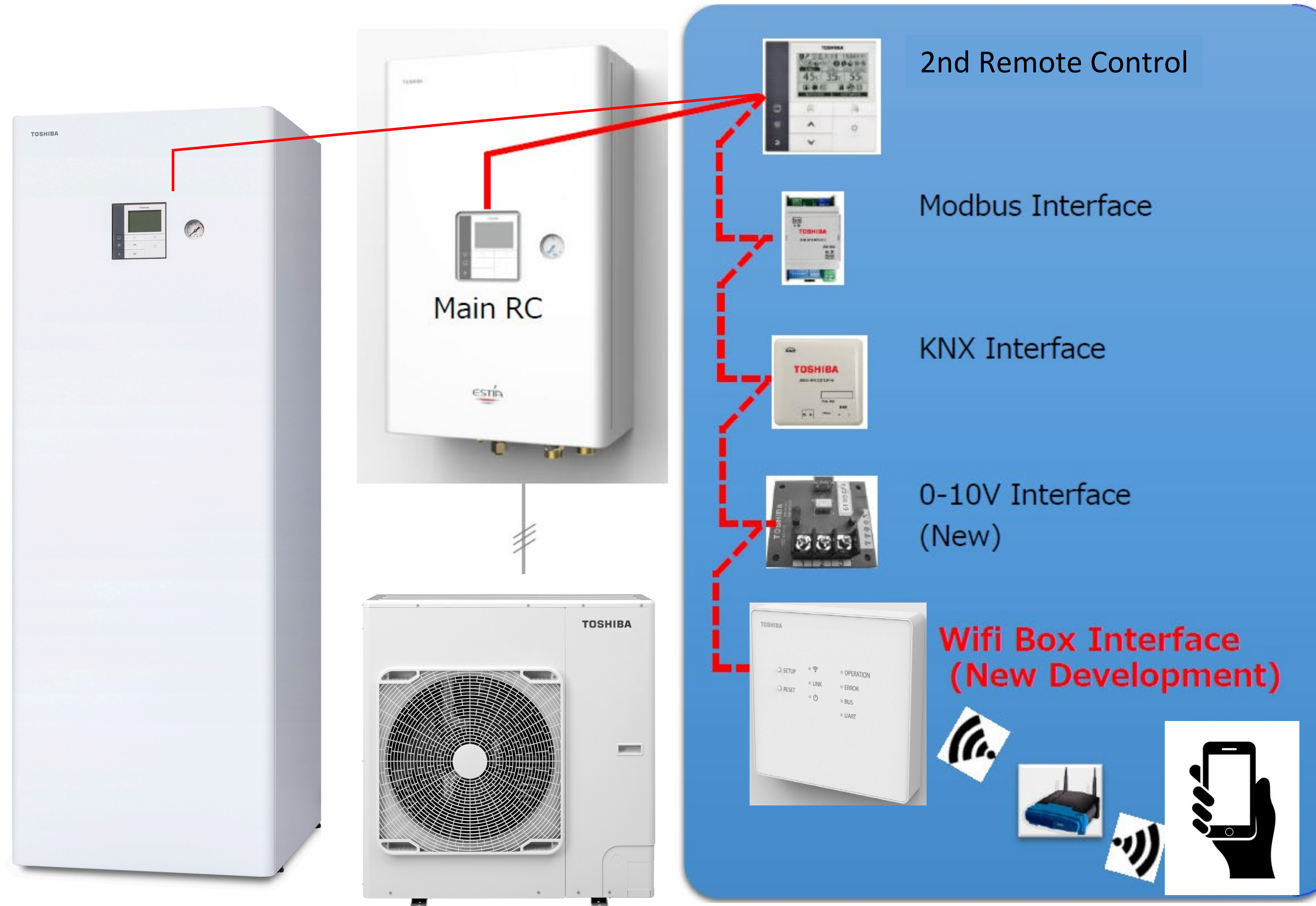
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ESTIA R32

- Control options



or:



TOSHIBA

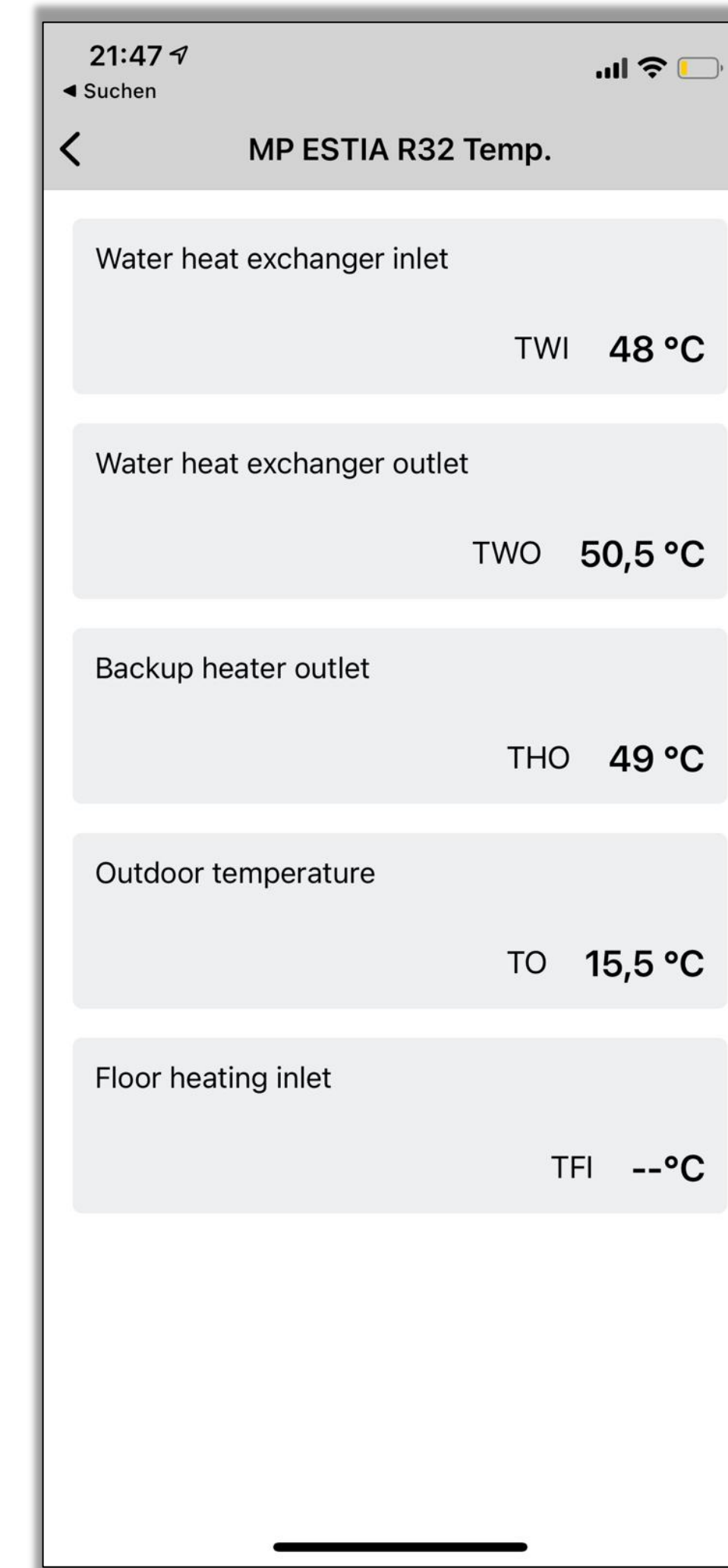
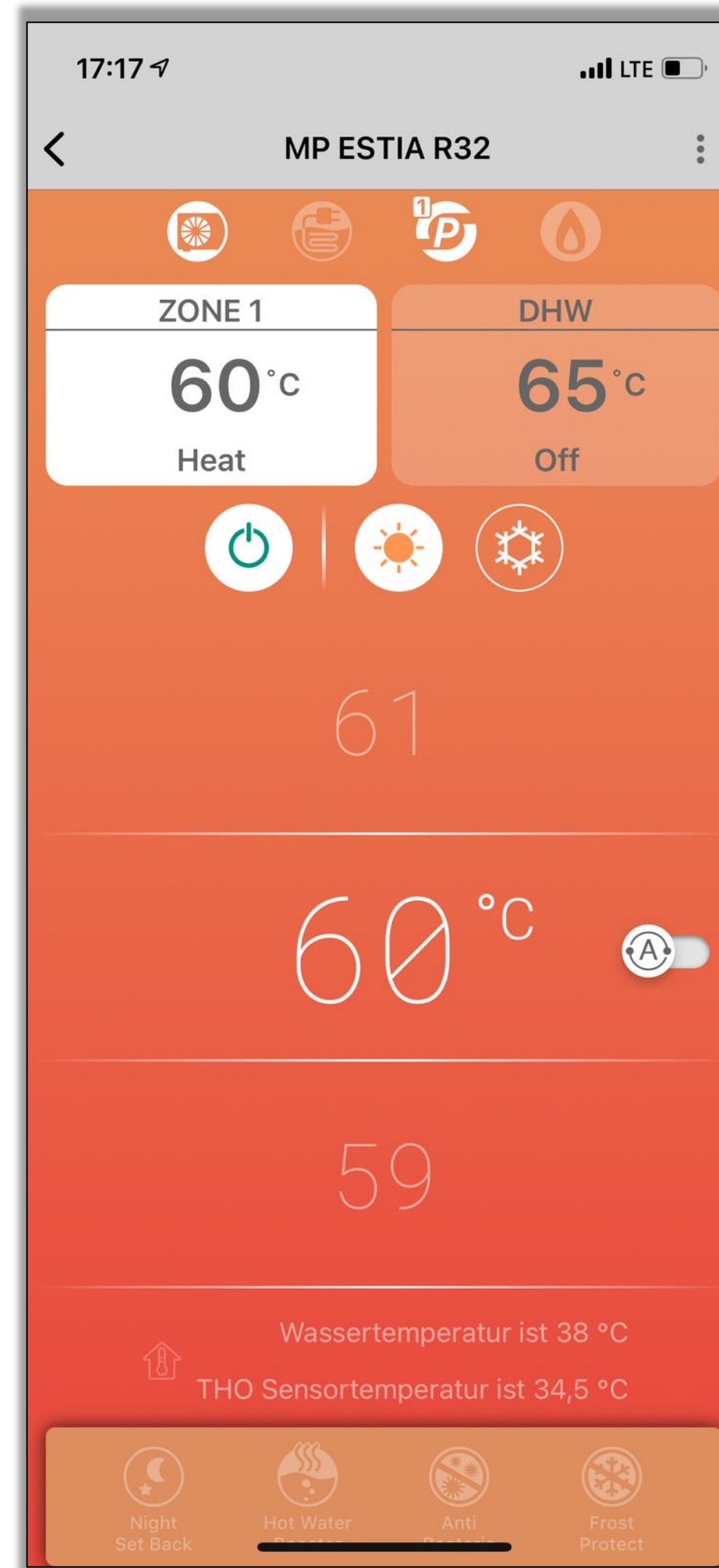
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-  Control: via *Toshiba Home AC Control*



Smart device application

- iOS 9.0 or later iPhone & iPad
- Android 5.0 or later Adroid phone & Android pad



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ESTIA R32

- WiFi Interface: the product

R32 Estia WiFi Interface
HWS-IWF0010UP-E

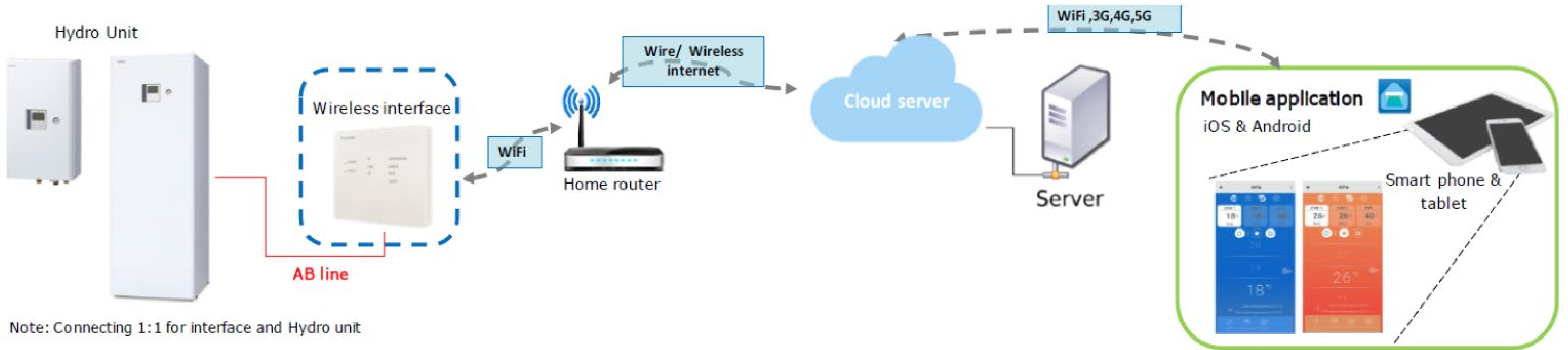


via A/B remote bus



ESTIA R32

- WiFi Interface: system overview



Note: Connecting 1:1 for interface and Hydro unit

ESTIA R32

- WiFi Interface: features & specifications



Wireless adapter Specification	
Dimension(WxLxH)	: 28mm x 120mm x 120mm
Connector length	: Max. from Hydro unit 50m.
Net Weight	: 0.13 kg.
Operating Temperature	: 0-50°C
Power input	: from Hydro unit via AB line
Power consumption	: 0.6W
Body Material	: ABS (Acrylonitrile Butadiene Styrene) (Flame retardant grade: UL94-HB)
Wi-Fi bands	: 2.4 GHz
Radio protocol	: IEEE 802.11b/g/n

Control and connection
Connecting 1 interface per 1 Hydro unit
1 Hydro unit can be controlled by 5 user name
1 User can control up to 10 units of AC and ESTIA.
All Hydro unit can be divided up to 2 Space Heating Zones and 1 Domestic Hot Water (DWH)

Features	
Detail Control <ul style="list-style-type: none"> -On/Off control -Operation mode, Cool, Heat, Auto, Hot water -Leaving Water Temperature setting for both Space Heating Zone 1 & Zone 2, and DHW -Individual weekly schedule setting -All ESTIA On/Off control -All ESTIA weekly schedule setting -Night Set Back setting -Hot Water Booster activation -Anti Bacteria activation -Frost Protect activation, for holiday period 	Display and Others <ul style="list-style-type: none"> -Unit operation display -Electrical heater operation display (Heater of "Hydro unit" and "Hot water tank unit") -Hydro unit's pump operation display (Pump of "Hydro unit" and "Additional") -Boiler operation display -THO sensor temperature display (Outlet water temperature after back-up heater) - Water temperature sensor display (TWO sensor for water temperature outlet after heat exchanger) -Auto update. -Multi language -Signal Error code

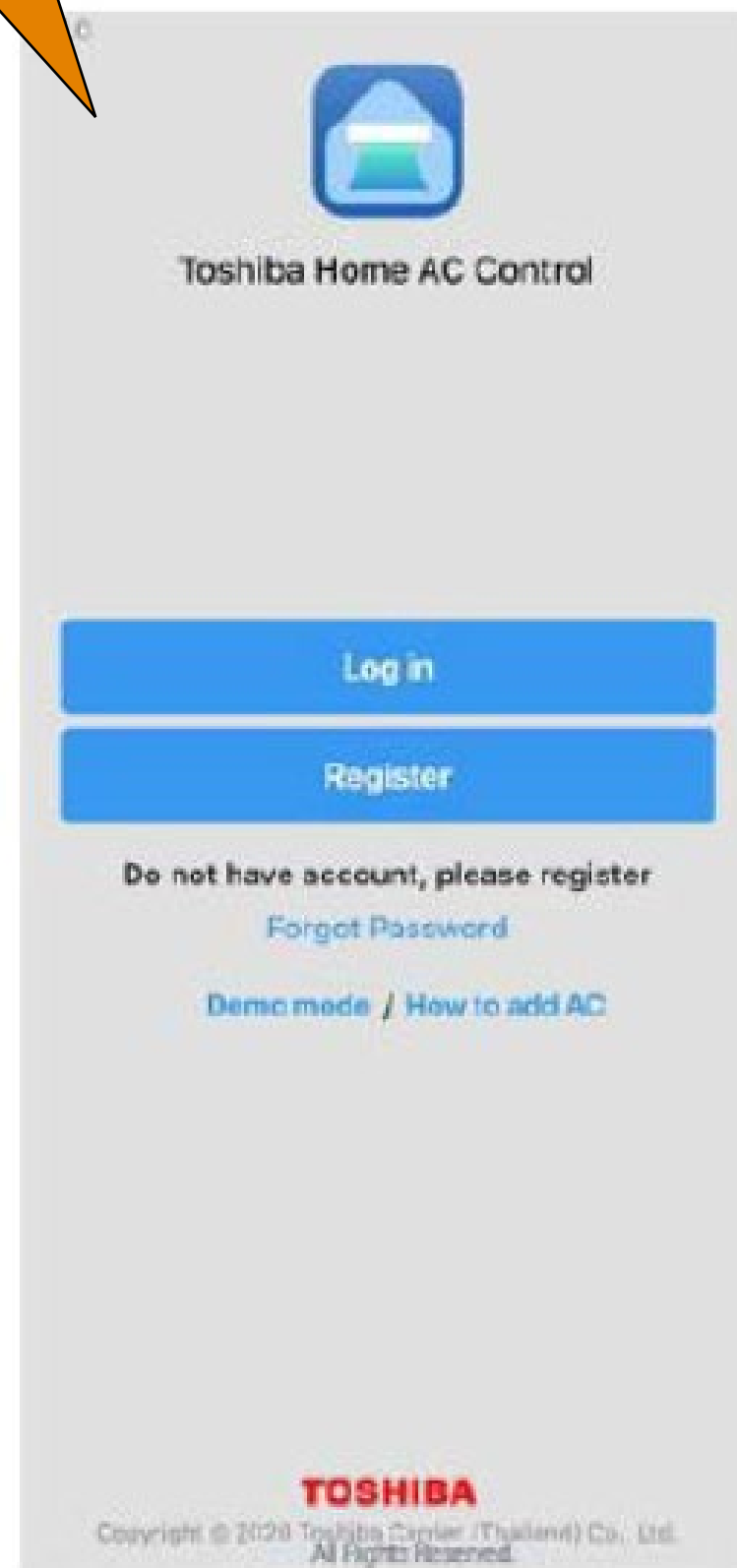
ESTIA R32



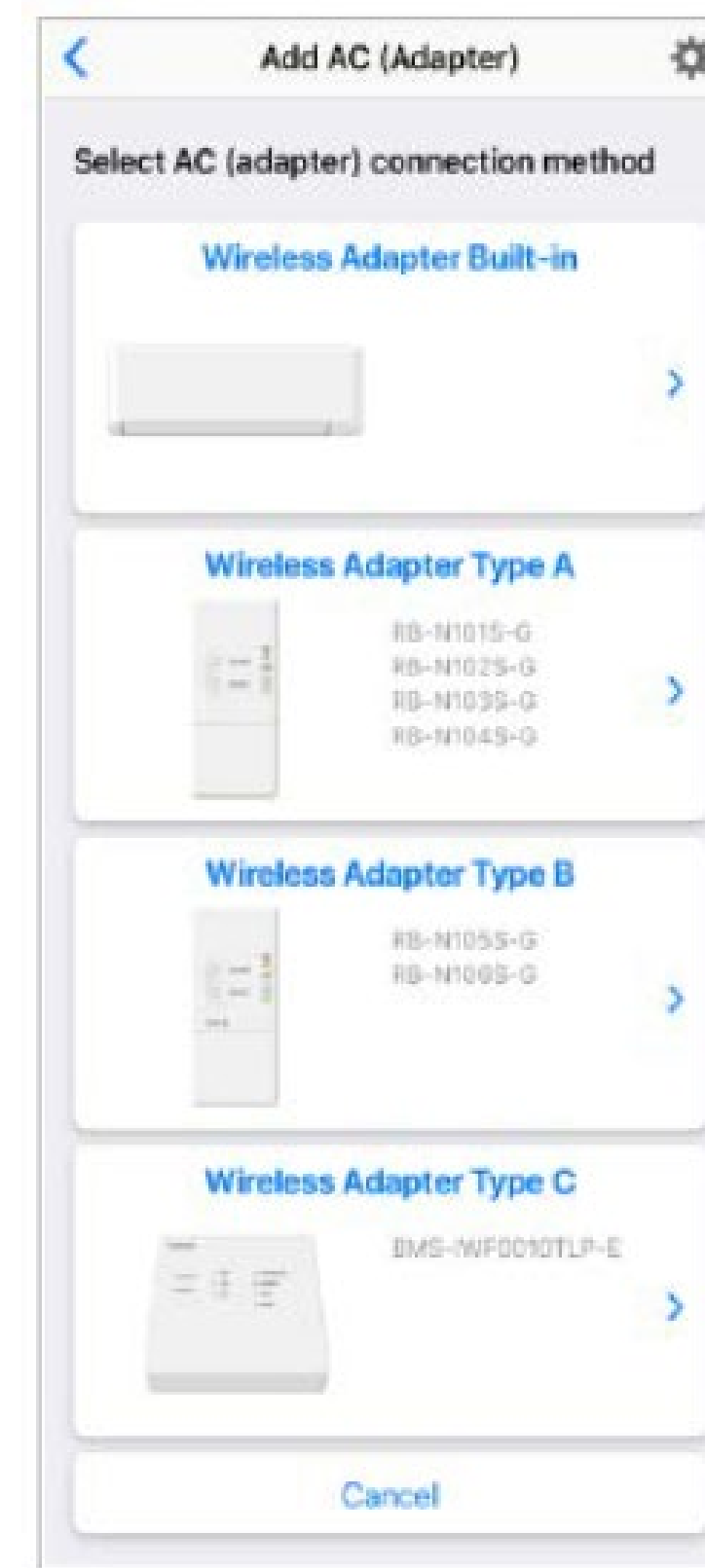
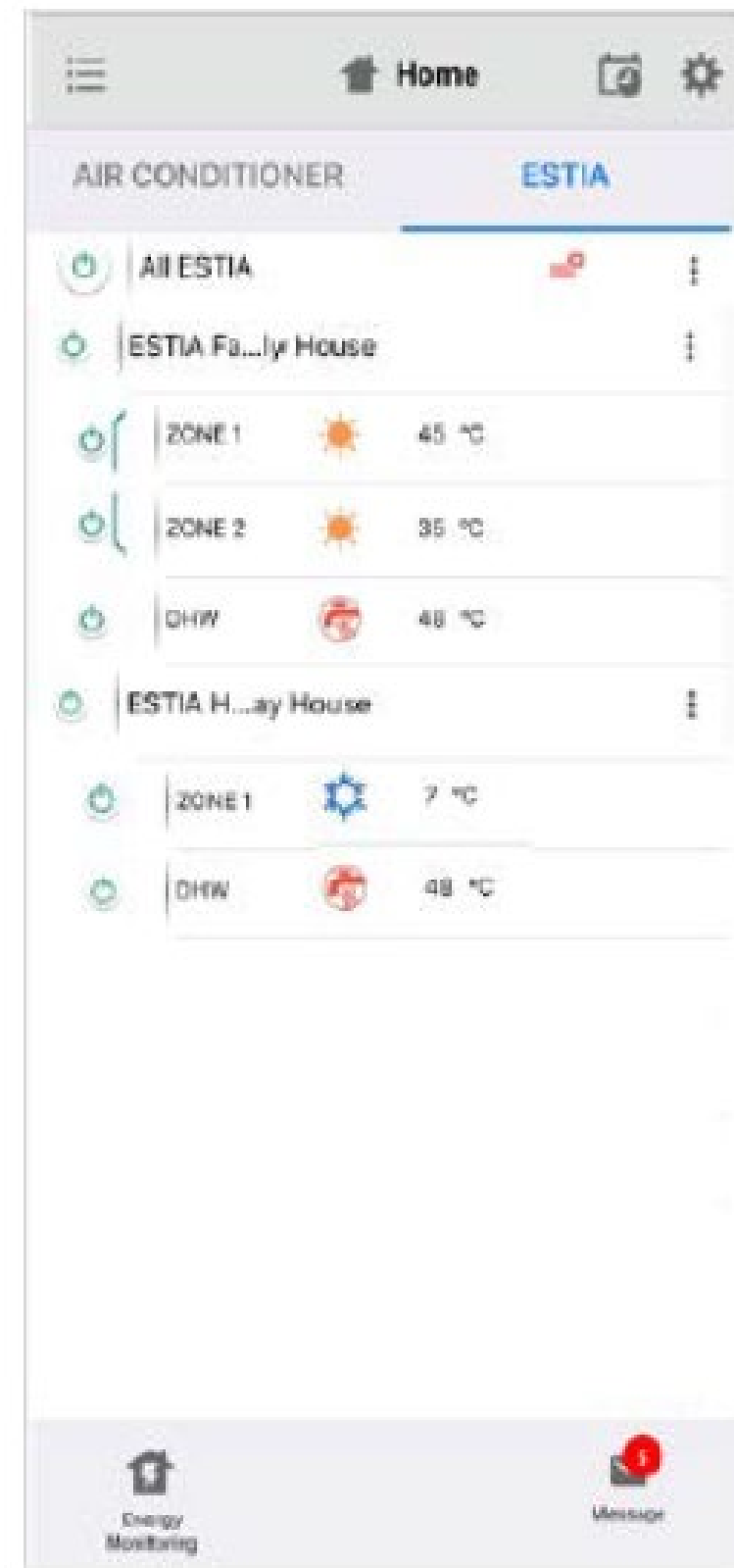
- WiFi Interface: APP control



LogIn / Home



Registration process



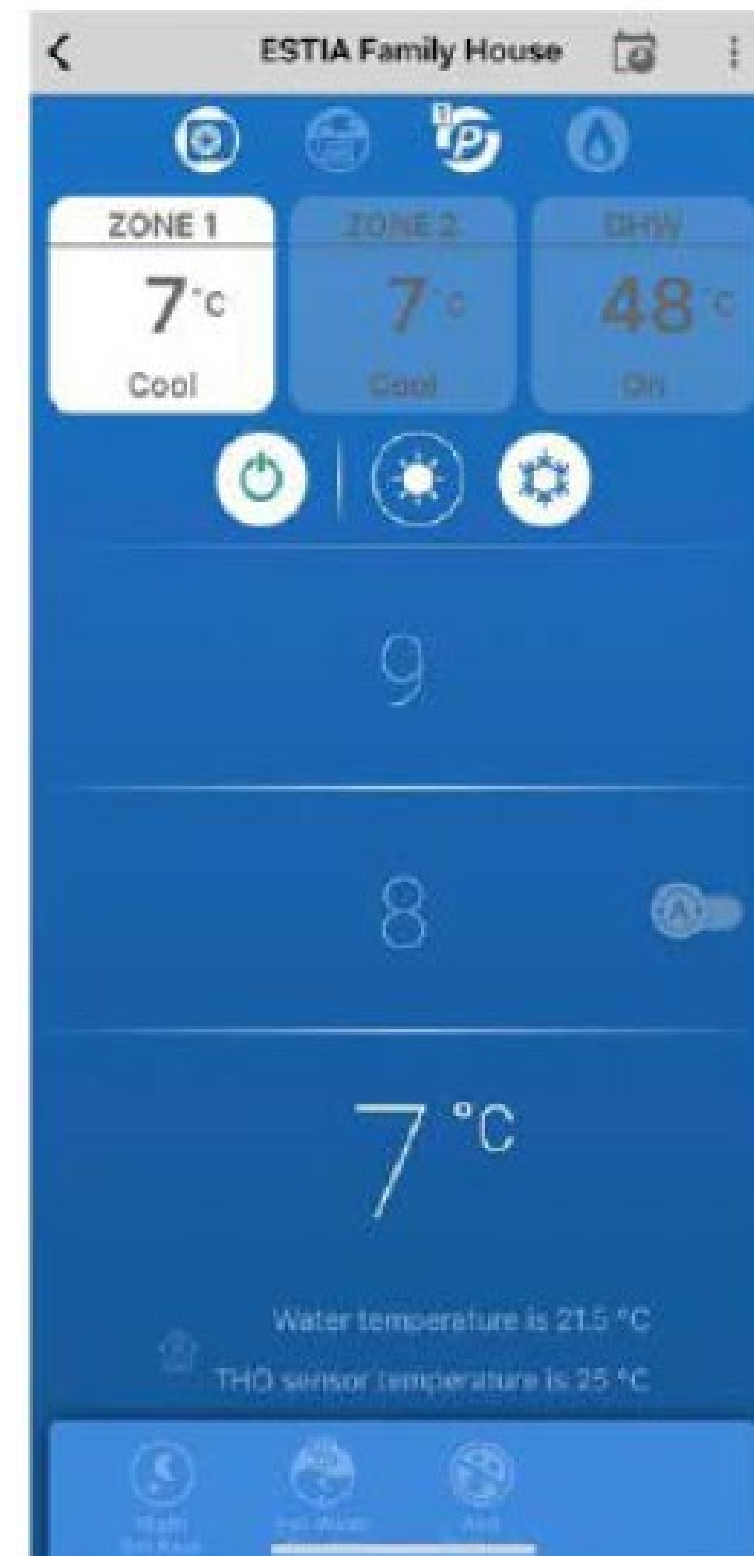
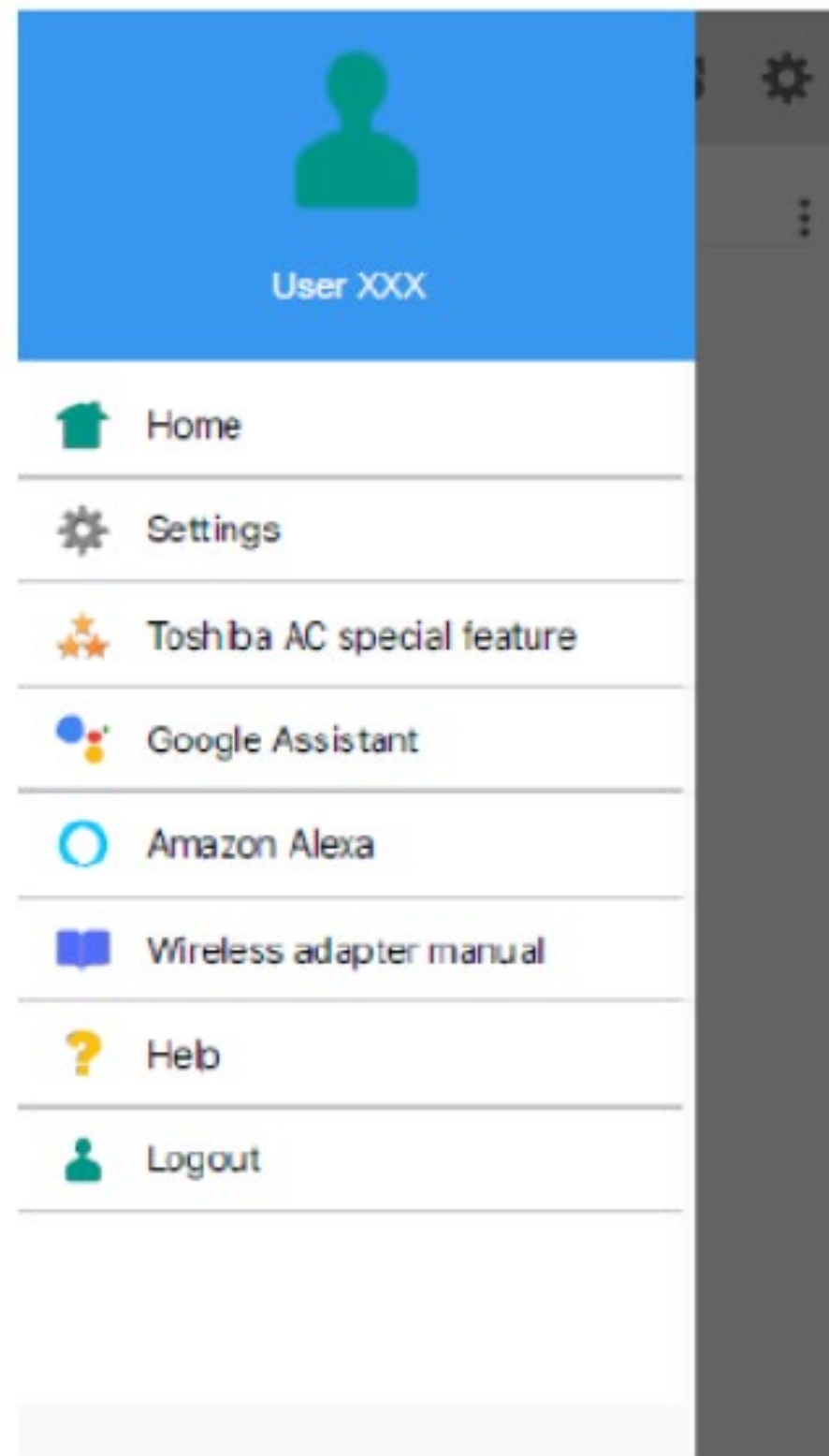
ESTIA R32



- WiFi Interface: APP control

Menue /
general settings

Operation Modes:
cool – heat – hot water

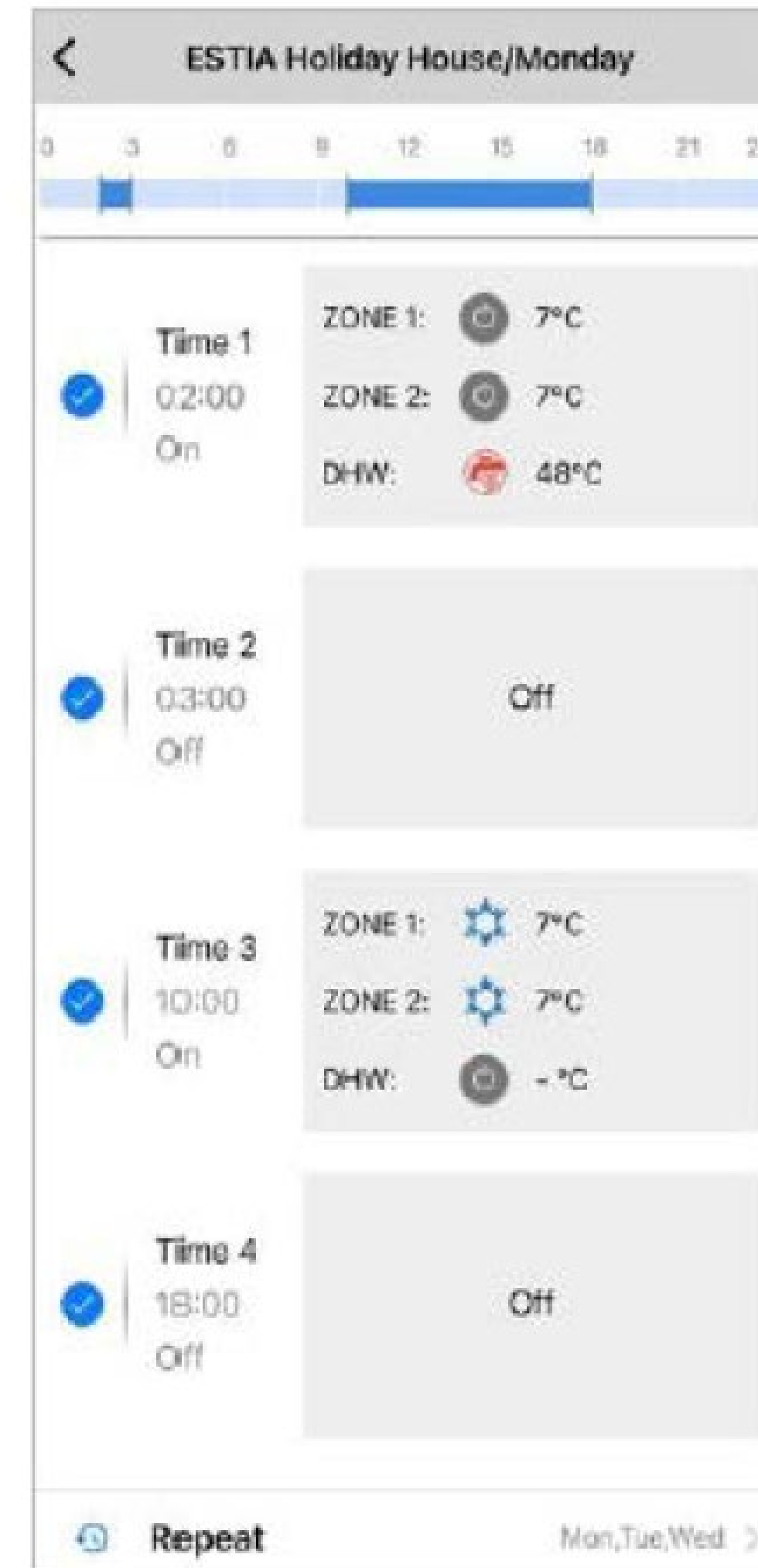


ESTIA R32



- WiFi Interface: APP control

Weekly schedule



ESTIA R32

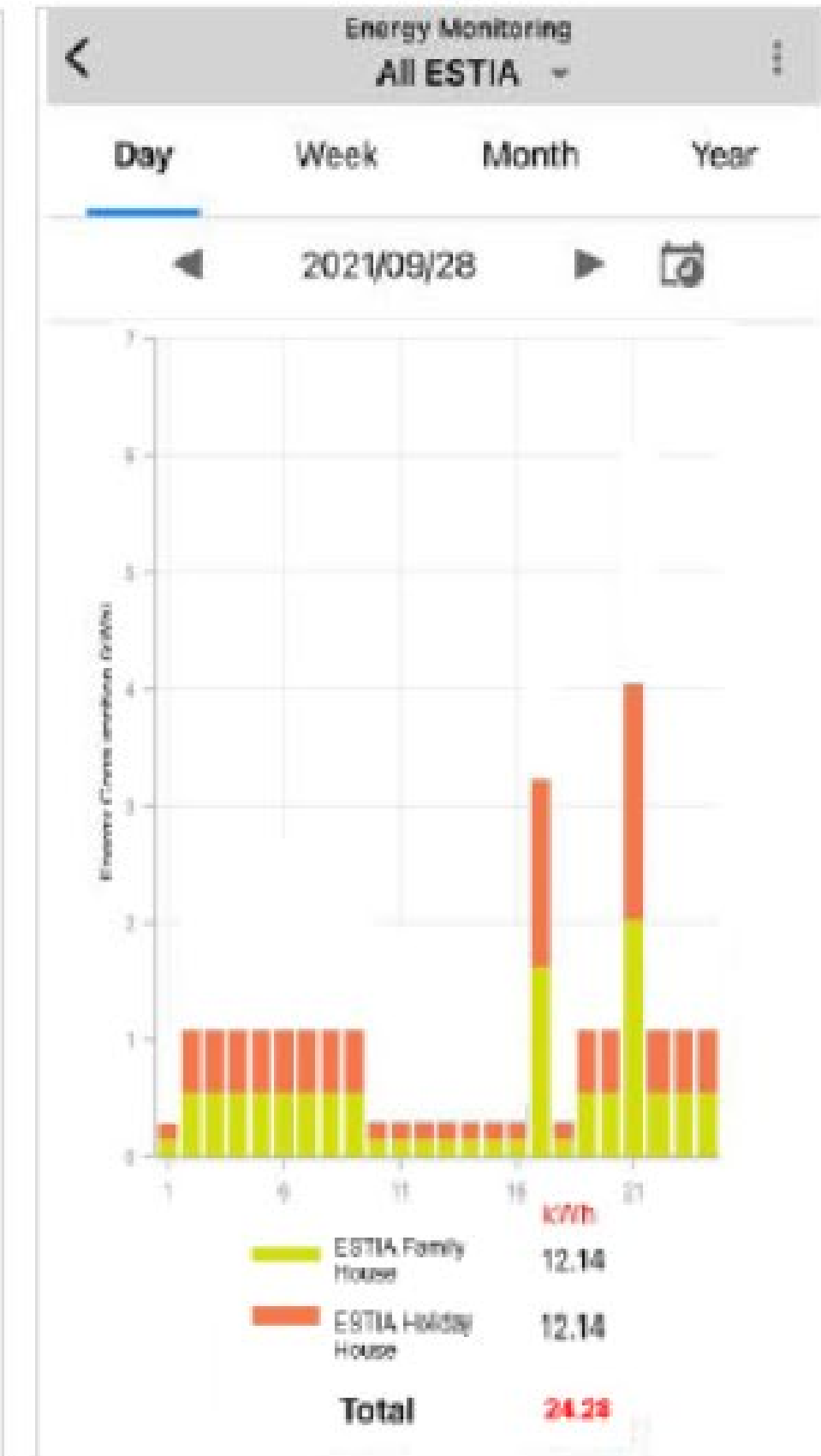
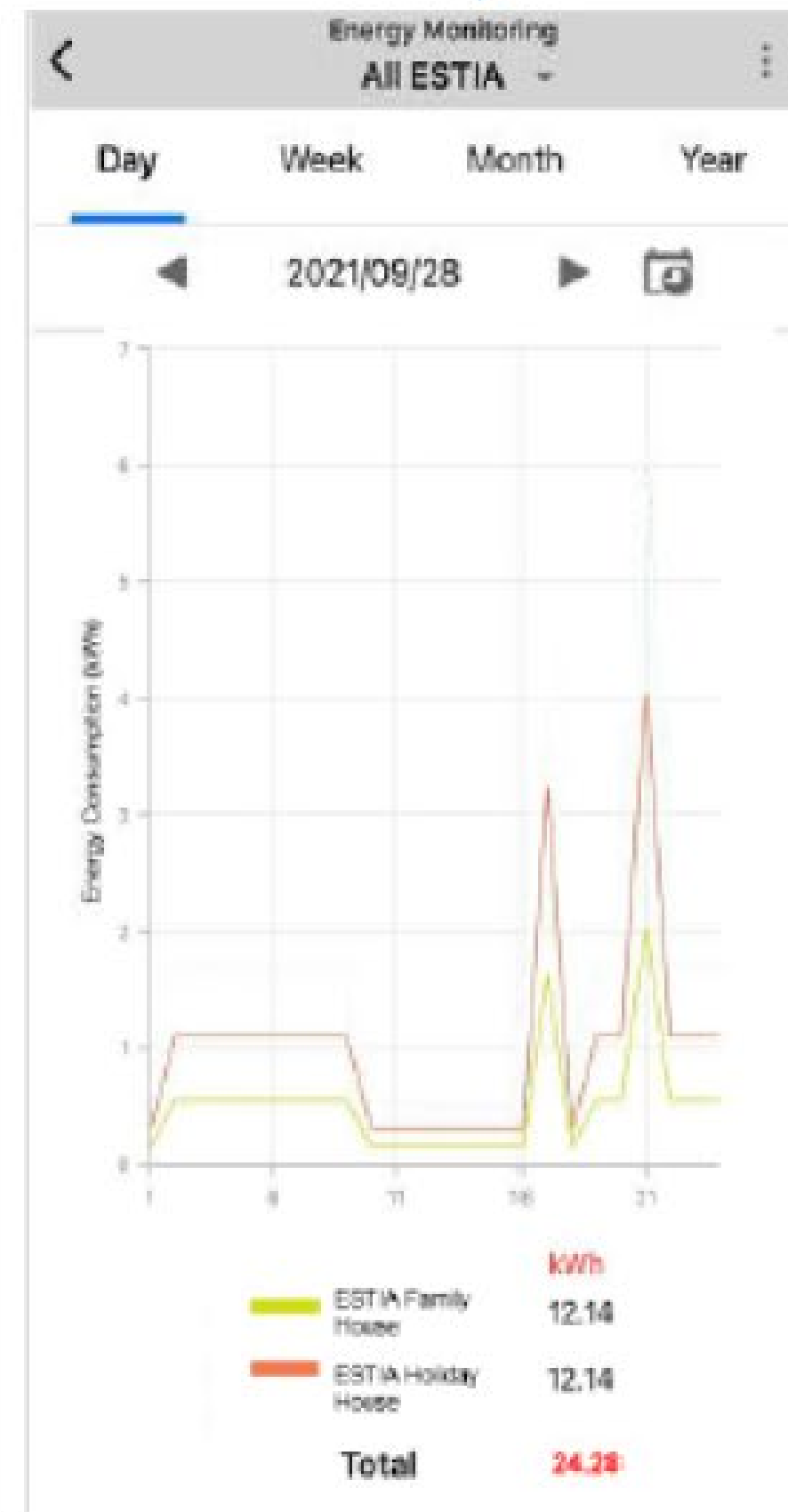
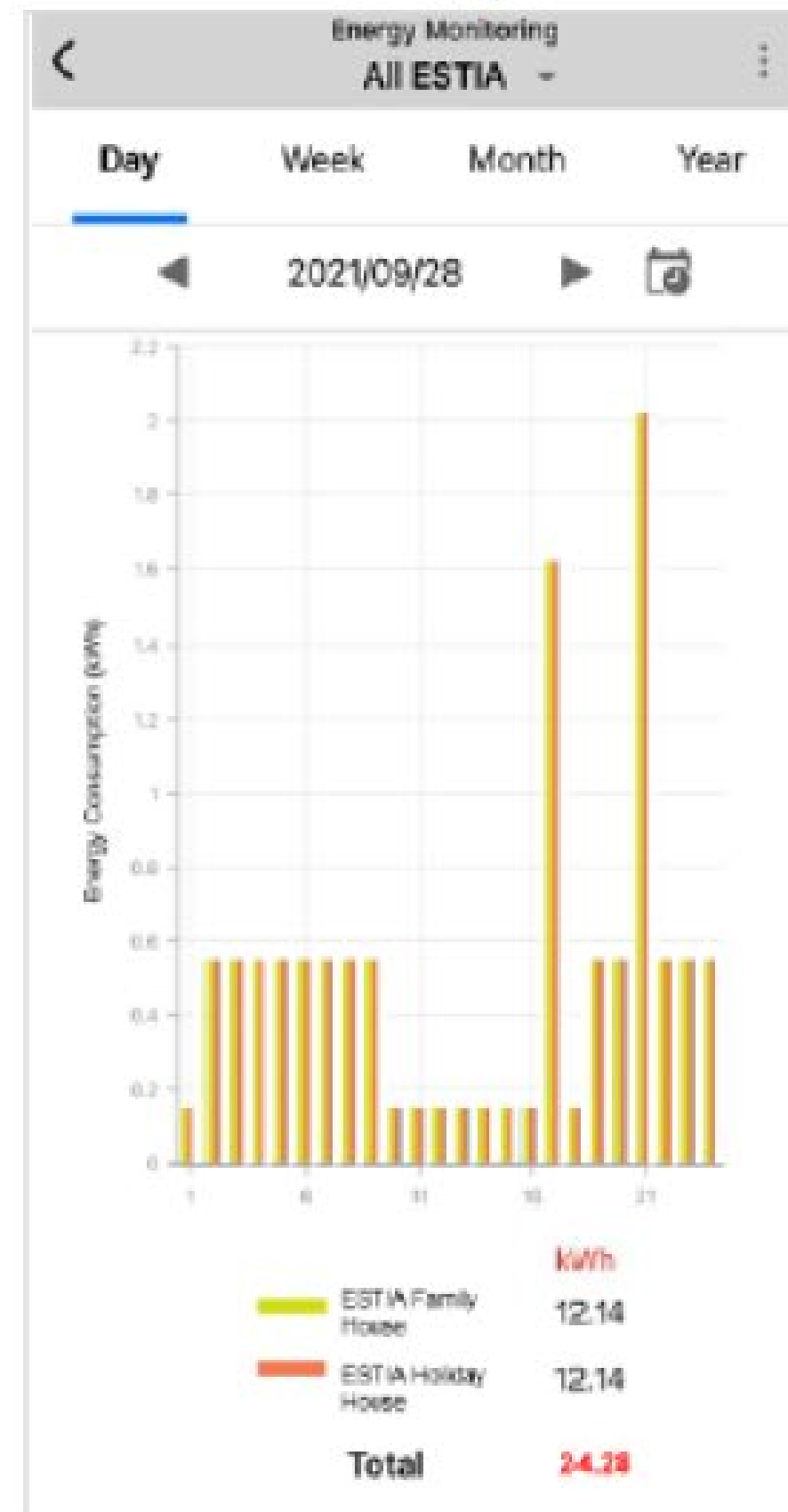
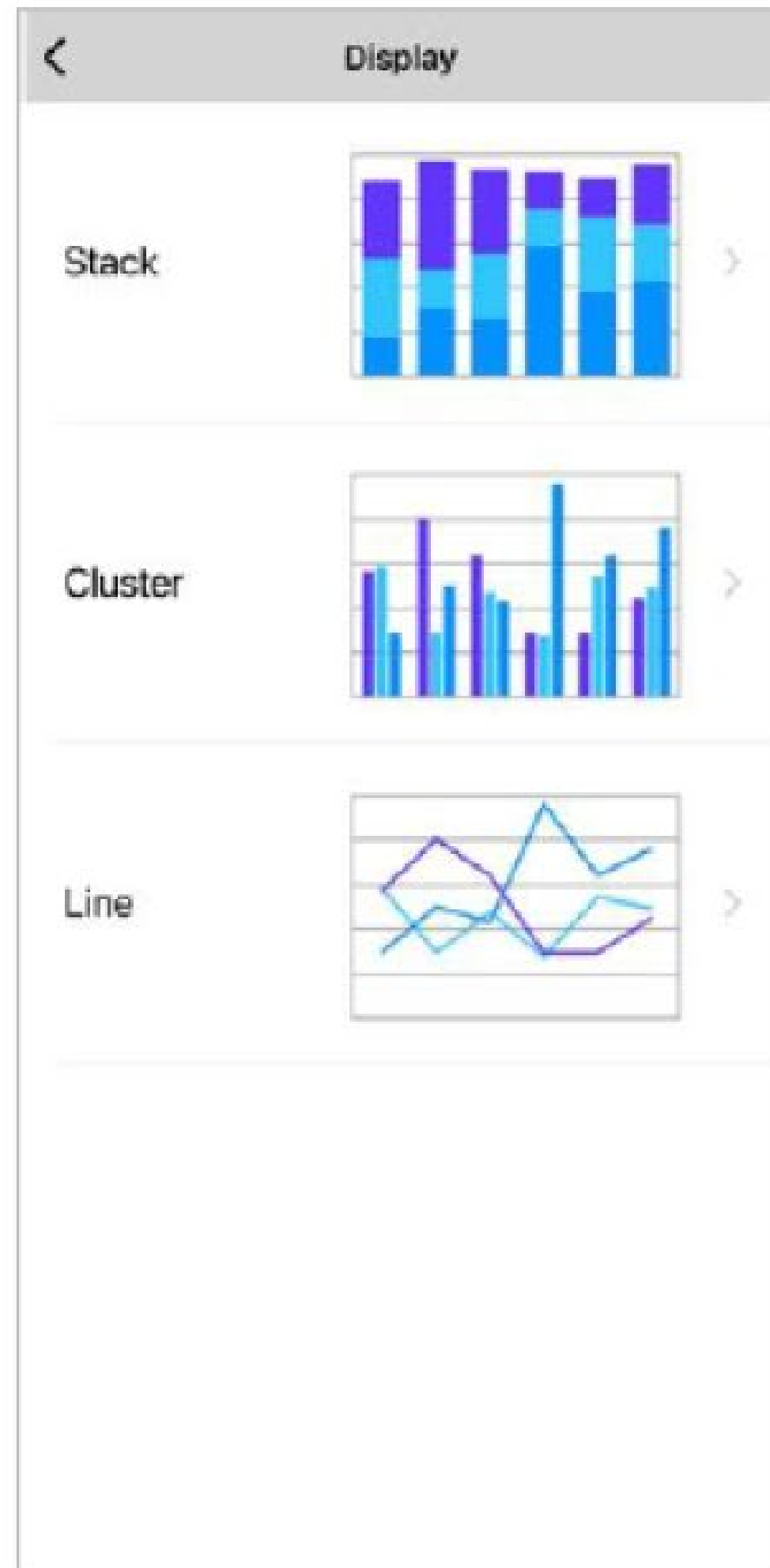
- WiFi Interface: APP control



Energy Monitoring



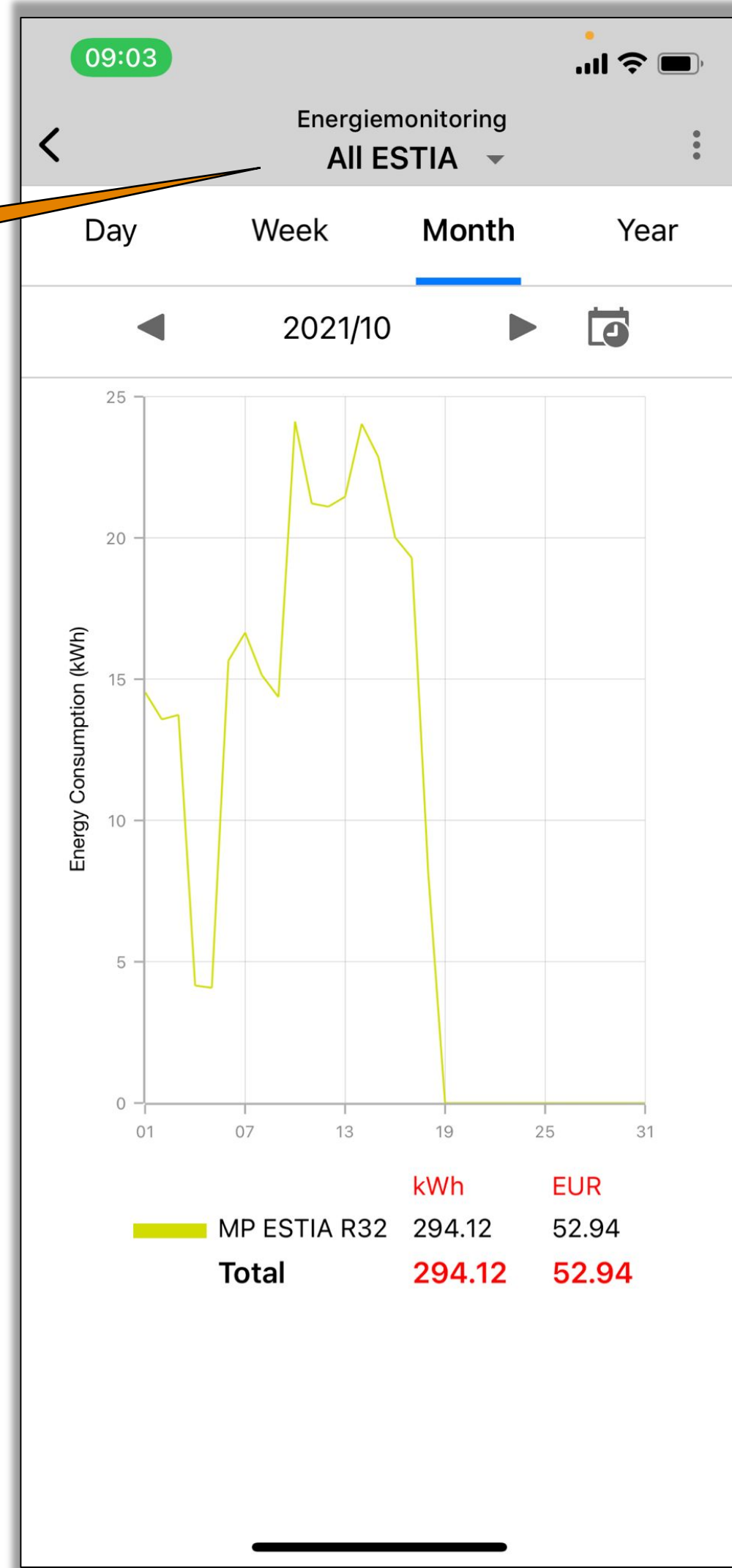
➤ Users can select suitable Energy Monitoring display



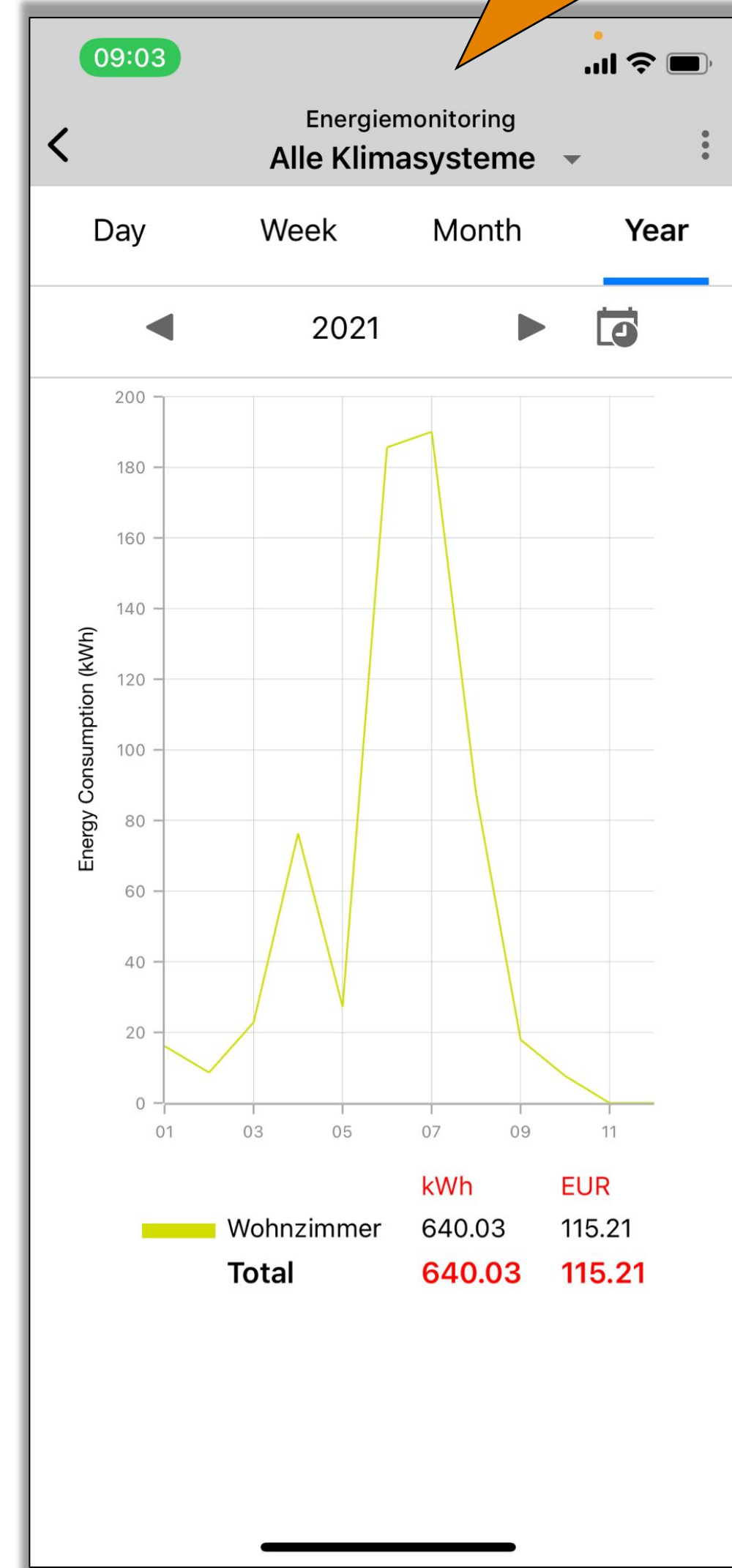
ESTIA R32

- Control: via *Toshiba Home AC Control*

Check ESTIA energy data



Check all systems energy data



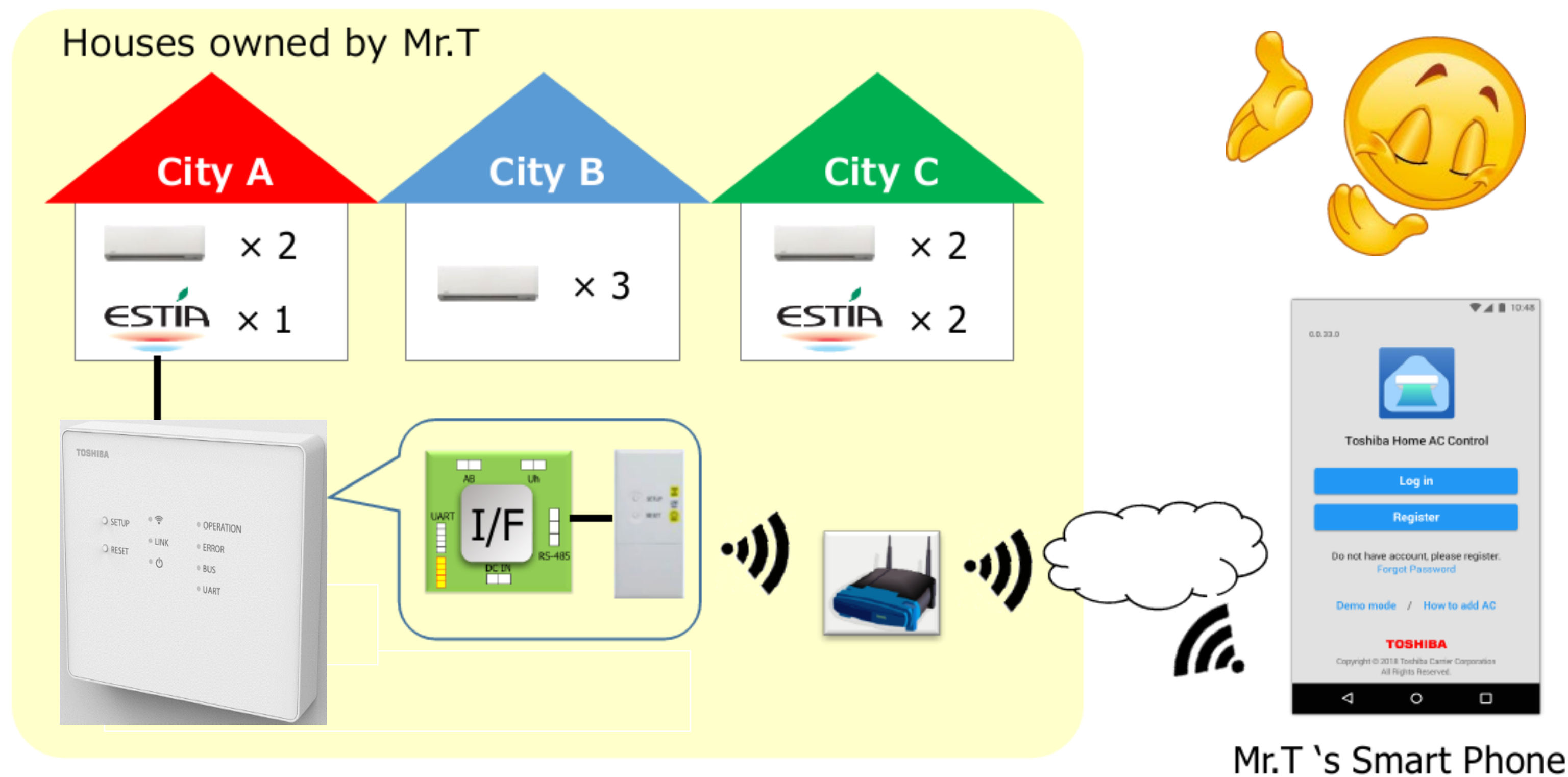
ESTIA R32

- WiFi Solutions

Extend "Toshiba Home AC control" APP other IDU's: ESTIA, RAV, VRF

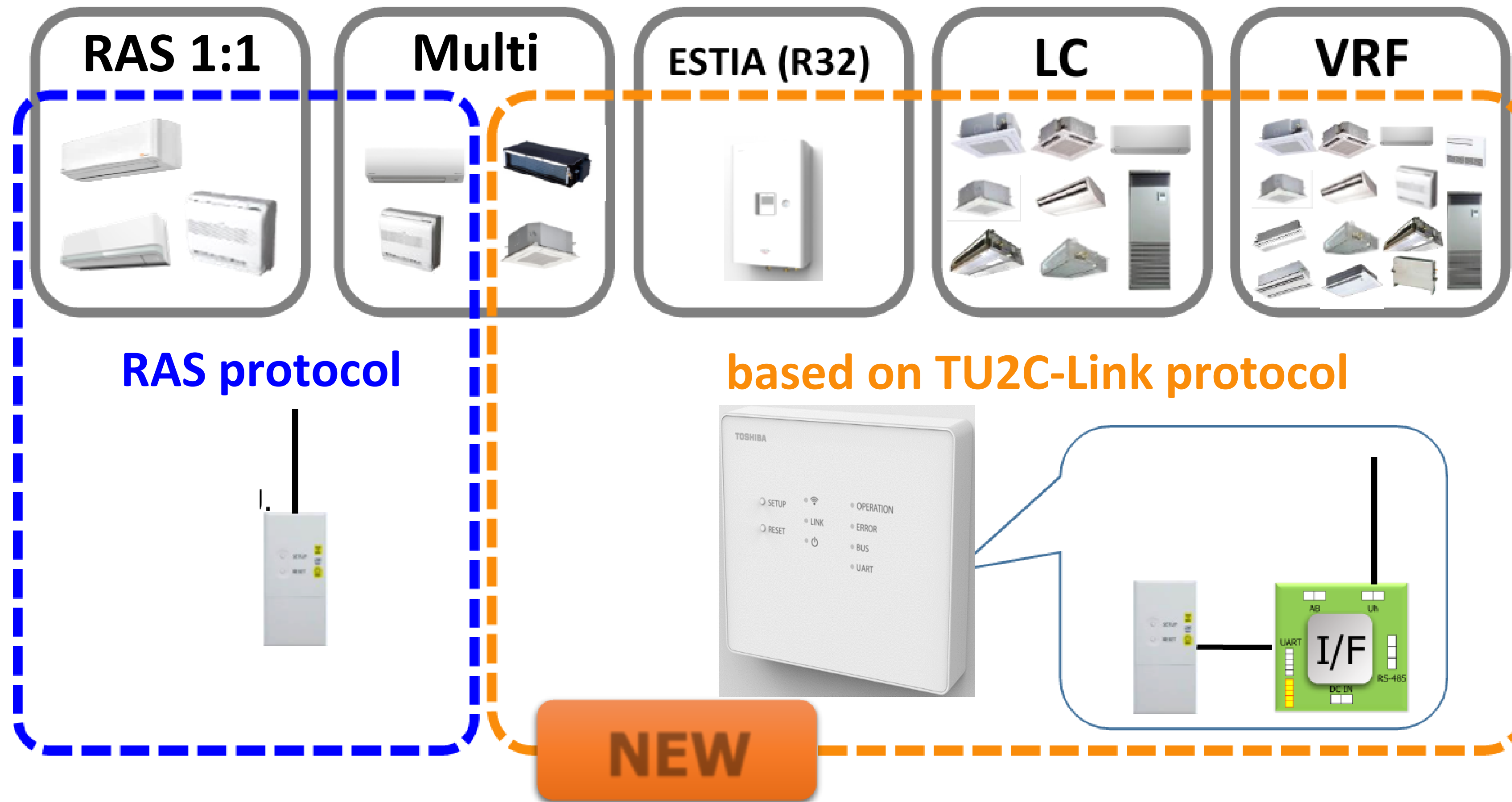
Multiple systems at different locations shall be controlled with same application/ID.

1:1 connection with Hydro unit or standard indoor units



ESTIA R32

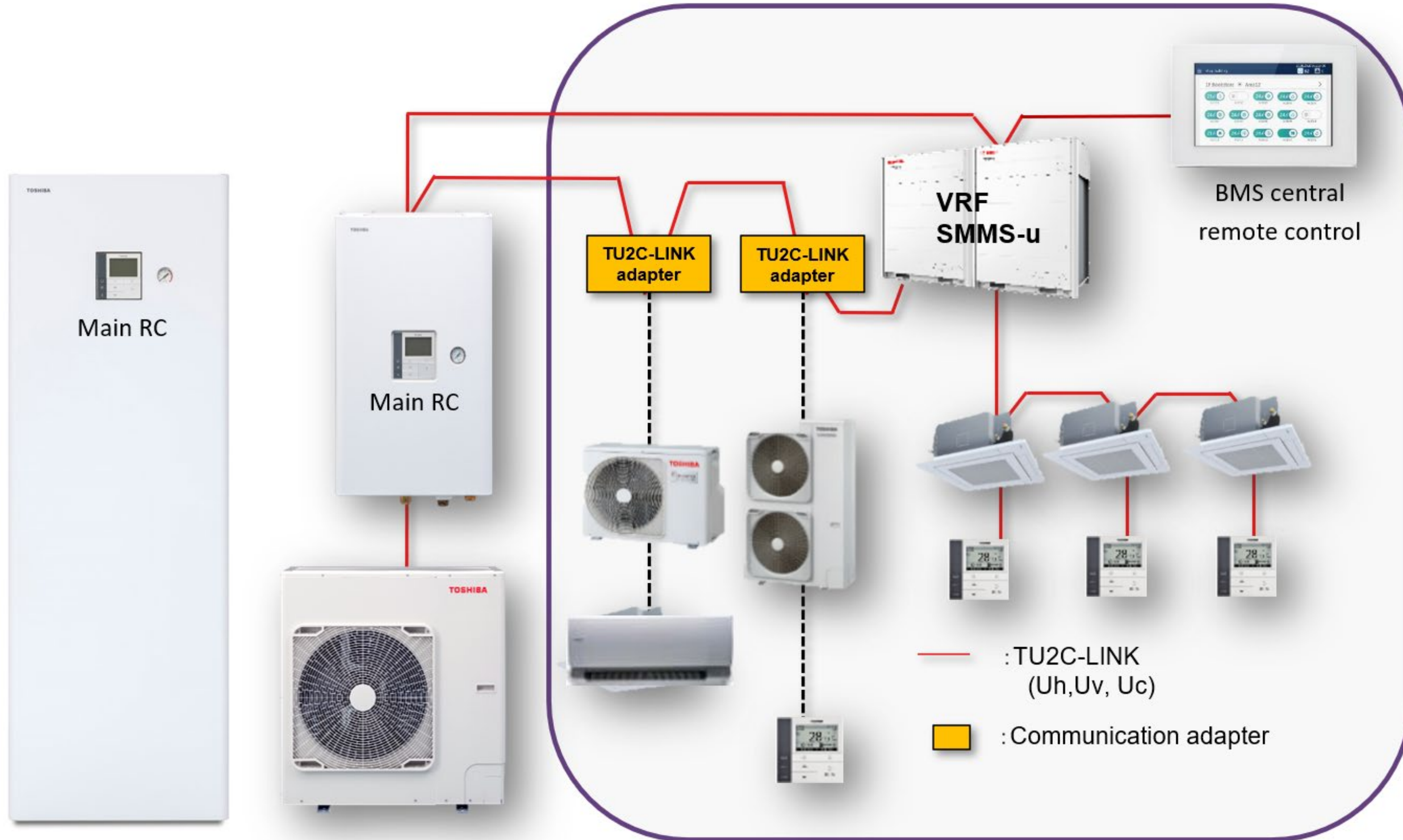
- WiFi Solutions: cross-segment control!



Power is supplied via the indoor unit

ESTIA R32

- Controls Solutions: cross-segment control!



ESTIA R32

- Waterpumps: variable speed!

Option 1: Variable speed control

- Set DN6A6 = 1 (default)
 - 0 = fixed speed control
 - 1 = variable speed control
- Set DN6A7 for pump speed control correction
 - 0 (default) = 100%
 - 1 = 90%
 - 2 = 75%
 - 3 = 50%

Option 2: Fixed speed control

- Set DN6A6 = 0
 - 0 = fixed speed control
 - 1 = variable speed control
- Set DNA0 for required pump speed:
 - 0 (default) = 100%
 - 1 = 90%
 - 2 = 80%
 - 3 = 70%
 - 4 = 60%
 - 5 = 50%

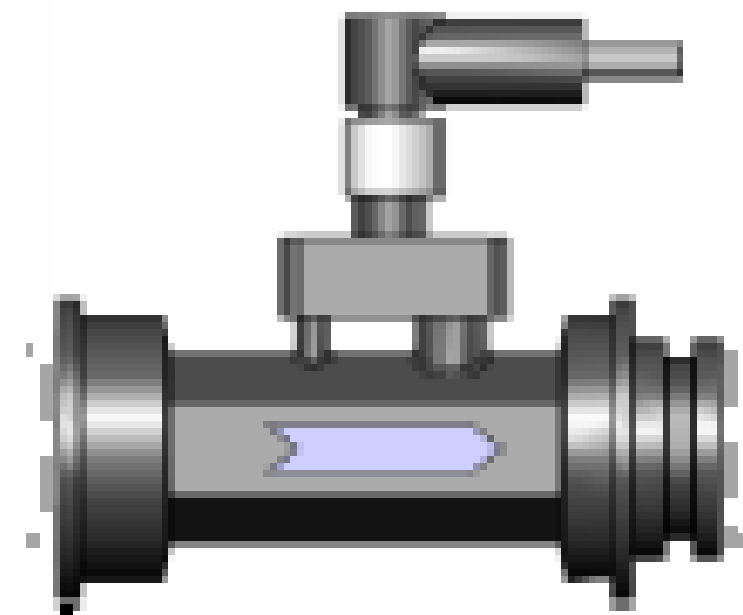


- 230V ~ 50/60Hz
- Current_{1/1} min. = 0.05A
- Current_{1/1} max. = 0.58A / 1.0MPa
- P1 Min. = 2W
- P1 Max. = 60W
- EEL = ≤ 0.20
- P_{L.avg} = ≤ 28W
- IP rating = IPX4D

TOSHIBA

ESTIA R32

- Flow-Sensor



Hydrobox & AIO indoor unit
use a flow sensor

- ✓ The flow sensor enables the water flow to be adjusted depending on the load and temperature conditions.
- ✓ Knowing the flow rate allows the optimal speed of the pump to be set.
- ✓ The variable flow pump control improves energy efficiency and increases the leaving water temperature (up to 65°C)



RAS

ESTIA

RAV

VRF

SMMS-u

USX

ESTIA R32

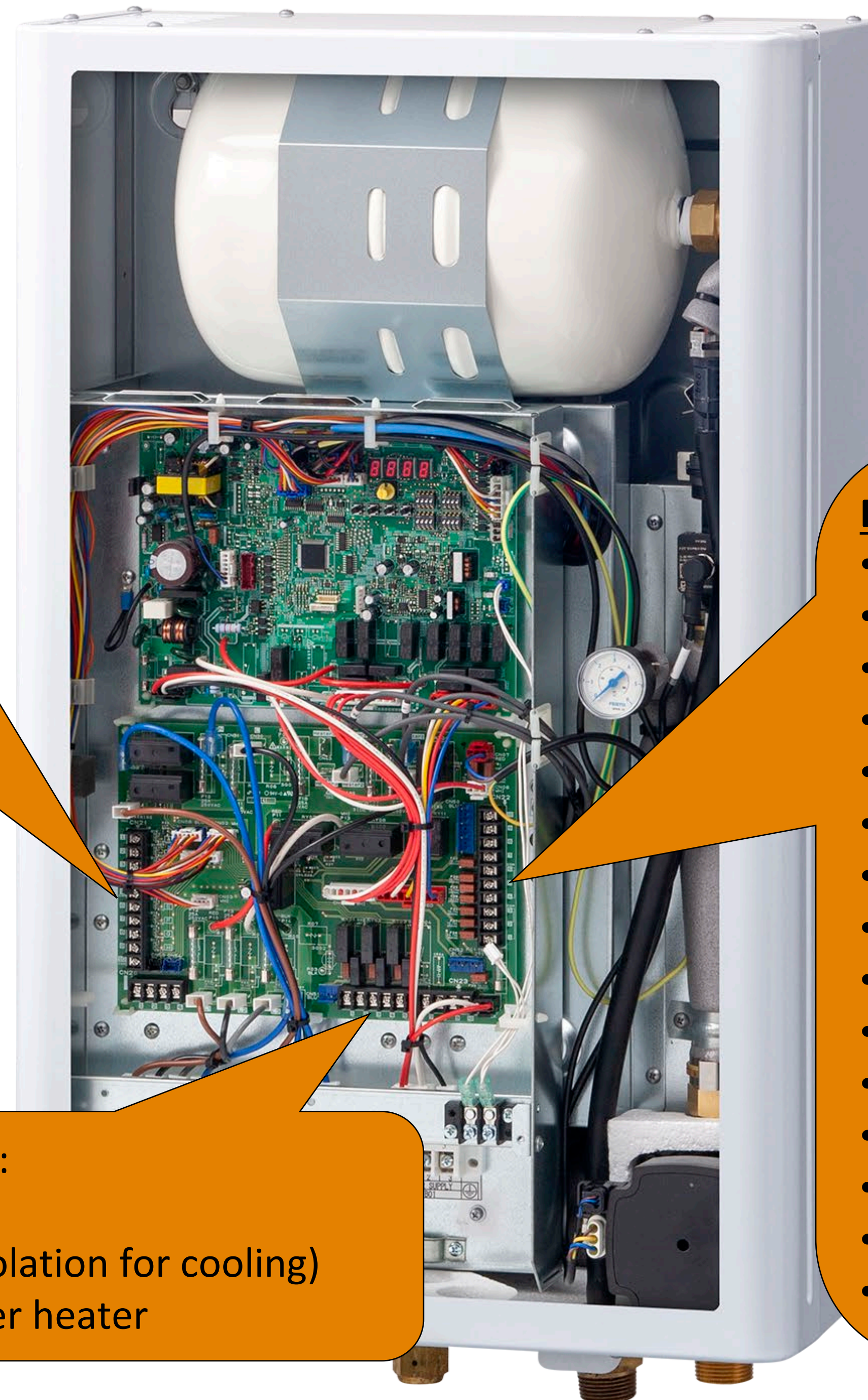
- Digital IN/OUT: on board!

Digital Inputs:

- External room thermostat - heating
- External room thermostat - cooling
- DHW cylinder thermostat
- Heating / cooling mode selection
- Heating / cooling mode ON/OFF
- DHW mode ON/OFF
- Custom (DNB6)
- Custom (DNB6)

230VAC Outputs:

- External pump
- 2 way valve (isolation for cooling)
- External booster heater



Digital Outputs:

- Custom (DN6CA)
- Custom (DN6CB)
- Custom (DN6CC)
- Custom (DN6CD)
- Outputs available:
- Alarm output
- Compressor operation
- Defrost operation
- Boiler control ON
- Safety/protection control running
- Back up heater ON
- DHW cylinder ON
- Heating operation ON
- Cooling operation ON
- DHW operation ON



ESTIA R32

- Monitoring: all sensor values on 2 display pages!

Press [↑] / [↓] button to select **SENSOR INFORMATION** on the FIELD SETTING MENU screen, then press [F2]



Select display number:

- Display 1 is Hydro Unit sensor
- Display 2 is Outdoor Unit sensor



Sensor information(1/2)	
TC 30°C	LPS 1.2MPa
TWI 30°C	TTW 45°C
TWO 35°C	TFI 30°C
THO 35°C	RT 20°C
WF 23.0 L/min	MIX 10step
RETURN	

Sensor information(2/2)	
TO 16°C	CMP 90Hz
TD 80°C	FAN1 600rpm
TE 12°C	
TS 15°C	PMV 250pls
CT 15.0A	HPS 4.0MPa
RETURN	

ESTIA R32

- Commissioning made easy : the Startup Tool software!

Allows system parameters to be set without using the local remote control.

Is onnected to the ESTIA system via the existing DynaKit hardware.

Compatible with all ESTIA R32 systems



Allows you to set the most important system parameters in the office.

The pre-created setting file can be sent to the installer e.g. by e-mail.

Will be uploaded to the ESTIA on site

ESTIA R32

- Commissioning made easy : the Startup Tool software!

➤ What is the Start-Up-Tool?

A software for commissioning the new ESTIA R32 system



➤ What do I need to use the StartUp Tool?

- Laptop PC
- DynaKit 6
- Startup-Tool Software

➤ What are the benefits of using the tool?

- Reduced commissioning time
- All system parameters can be preset and then uploaded to the ESTIA system when the technician is on site

ESTIA R32

- Commissioning made easy : the Startup Tool software!



The image displays three overlapping screenshots of the Toshiba Start-Up Tool for ESTIA software interface. The first screenshot shows the 'Basic Setting' screen with fields for Project Name (Testia), Customer Name, Type (Wall Mount), Model Name, and Remote Controller Language (German). The second screenshot shows the 'Zone Setting' screen with Zone1 and Zone2 Operation toggles set to ON, and fields for Mixing Valve Control Time and Drive Time. The third screenshot shows the 'DHW Setting' screen with DHW Operation set to ON, DHW Temp Setting (40°C to 60°C), DHW HP ON Temp (38°C), DHW HP OFF Temp (52°C), DHW Cylinder Heater Setting (OFF), 3 Way Valve Type (2 wire spring return valve), and Priority mode Hot water supply / Heating switching Temperature (-10°C).

ESTIA R32

- Commissioning made easy : the Startup Tool software!



Start-Up Tool for ESTIA

TOSHIBA

- Basic Setting
- Zone Setting
- DHW Setting
- Other Setting
- Temperature Setting
- Auto Curve Setting
- SILENT MODE / NIGHT SETBACK SETTING
- Anti Bacteria
- Floor Dry Setting
- Schedule Setting

Boiler ON

Boiler Position After 3

Boiler / HP changeover Temp

Start-Up Tool for ESTIA

TOSHIBA

- Basic Setting
- Zone Setting
- DHW Setting
- Other Setting
- Temperature Setting
- Auto Curve Setting
- SILENT MODE / NIGHT SETBACK SETTING
- Anti Bacteria
- Floor Dry Setting
- Schedule Setting

Temperature Control Method Water Temperature Control

Room Control Start Temp Setting

Heating Zone1 Temperature 20 °C

Heating Zone2 Temperature 20 °C

Cooling Temperature 7 °C

Start-Up Tool for ESTIA

TOSHIBA

- Basic Setting
- Zone Setting
- DHW Setting
- Other Setting
- Temperature Setting
- Auto Curve Setting
- SILENT MODE / NIGHT SETBACK SETTING
- Anti Bacteria
- Floor Dry Setting
- Schedule Setting

ZONE 1 ZONE 2

Leaving Water Temperature [°C]

Outdoor Temperature [°C]

Auto Curve Setting - ZONE 1

- Heating Auto Setting Temp Shift: 0
- Water Temperature A at Outside Temperature T0: 40
- Outside Temperature T1: -10
- Water Temperature B at Outside Temperature T1: 35
- Water Temperature C at Outside Temperature T2: 30
- Outside Temperature T3: 10
- Water Temperature D at Outside Temperature T3: 25
- Water Temperature E at Outside Temperature +20°C: 20
- Outside Temperature T0: -20

ESTIA R32

- Commissioning made easy : the Startup Tool software!

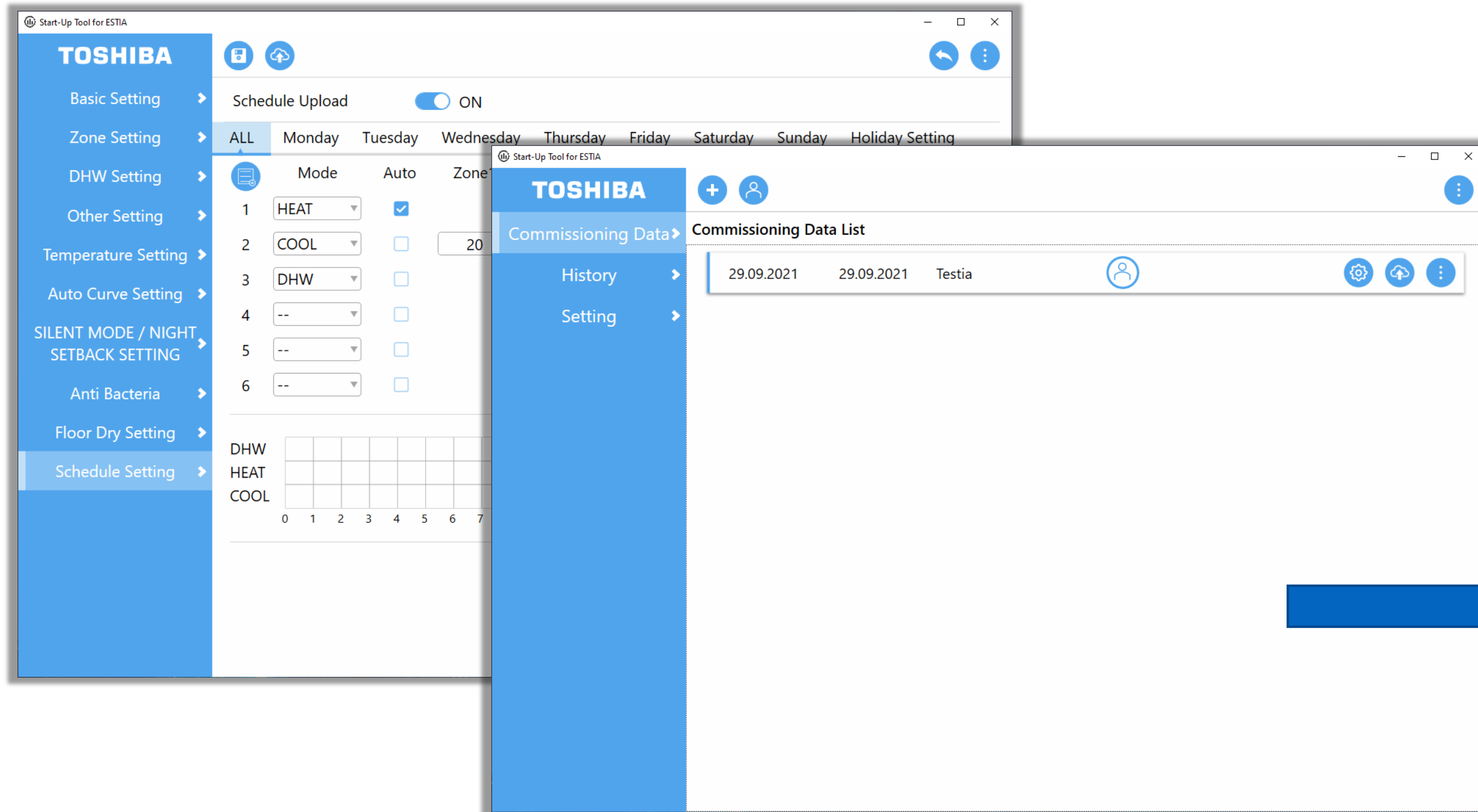


The software interface consists of three overlapping windows:

- Top-Left Window:** Displays the 'SILENT MODE / NIGHT SETBACK SETTING' menu. The 'Silent Mode Setting' is turned ON. Other settings include 'Silent Mode Start Time', 'Silent Mode End Time', 'Night Setback Setting' (ON), 'Night Setback Start Time', 'Night Setback End Time', 'Setback Temperature', and 'Night Setback Zone Selection'.
- Middle Window:** Shows the 'Start Time' setting, which is currently set to 21 hours.
- Bottom-Right Window:** Shows the 'Floor Dry Setting' menu with a graph of temperature over 50 days. The graph shows a temperature profile that starts at 20°C, rises to 55°C by day 20, stays at 55°C until day 30, then drops to 20°C by day 50. The settings panel for 'Floor Dry Setting' includes:
 - Maximum: 55
 - Start & End Temp Setting: 20
 - Keep days operating at max: 10
 - Upslope: Days of continuation: 3, Temperature difference: 5
 - Downslope: Days of continuation: 3, Temperature difference: 5
 - Automatic axis adjustment: checked

ESTIA R32

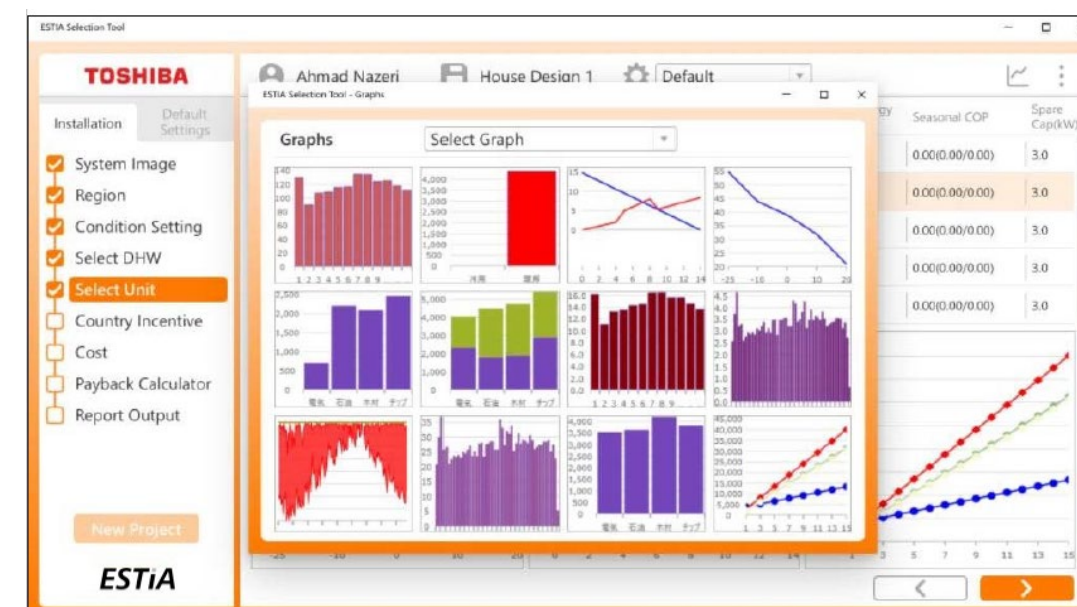
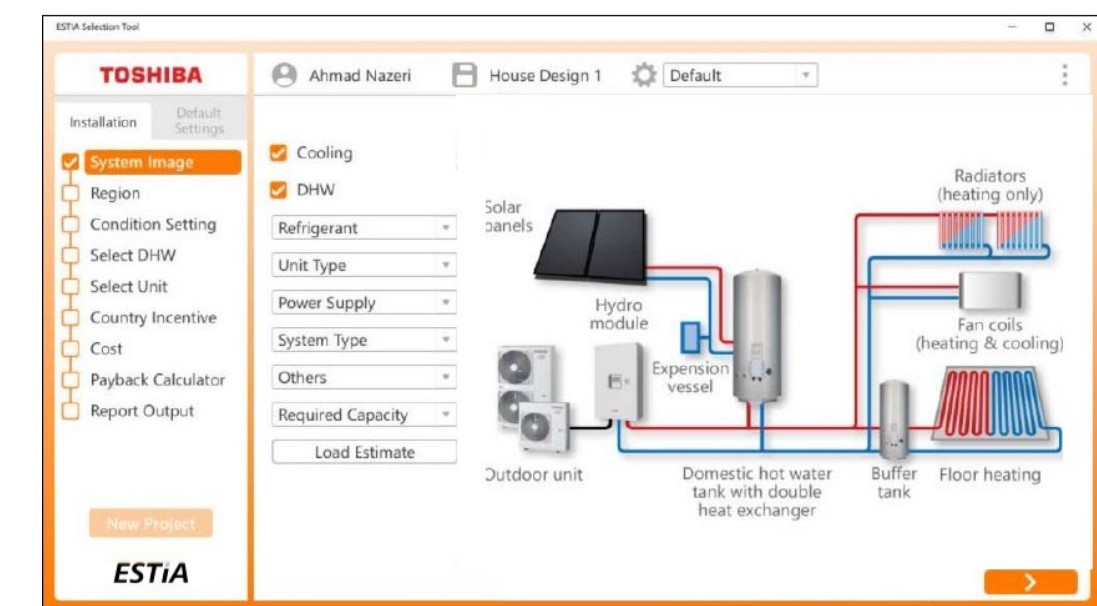
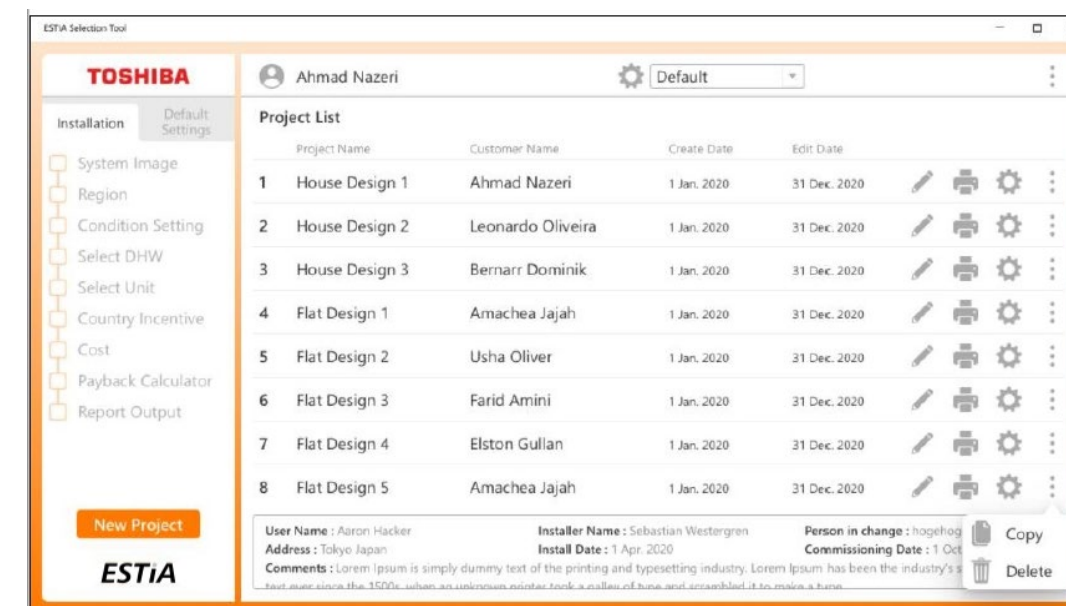
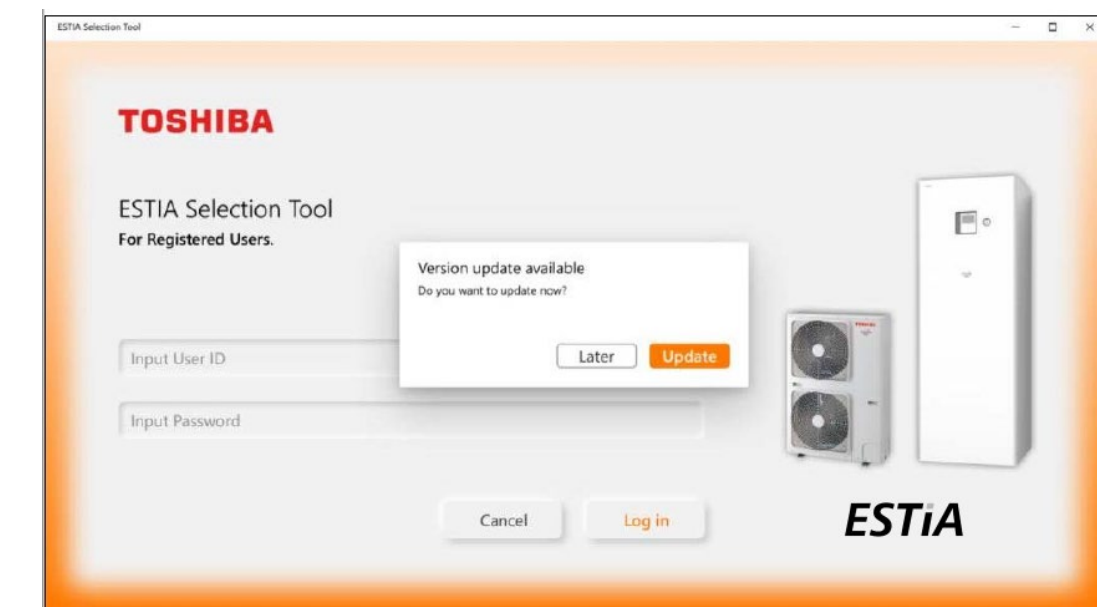
- Commissioning made easy : the Startup Tool software!



ESTIA R32

- NEW sales support / selection software

- New Features
- New GUI and user friendly selection flow
- Online update and user management
- New report design
- ESTIA System Selection supports:
 - 1) Load calculation (Simple and Detailed)
 - 2) DHW Daily pattern
 - 3) Incentive calculation
 - 4) Comparison with other heating system
 - 5) Running cost saving
 - 6) SCOP and SEER as reference

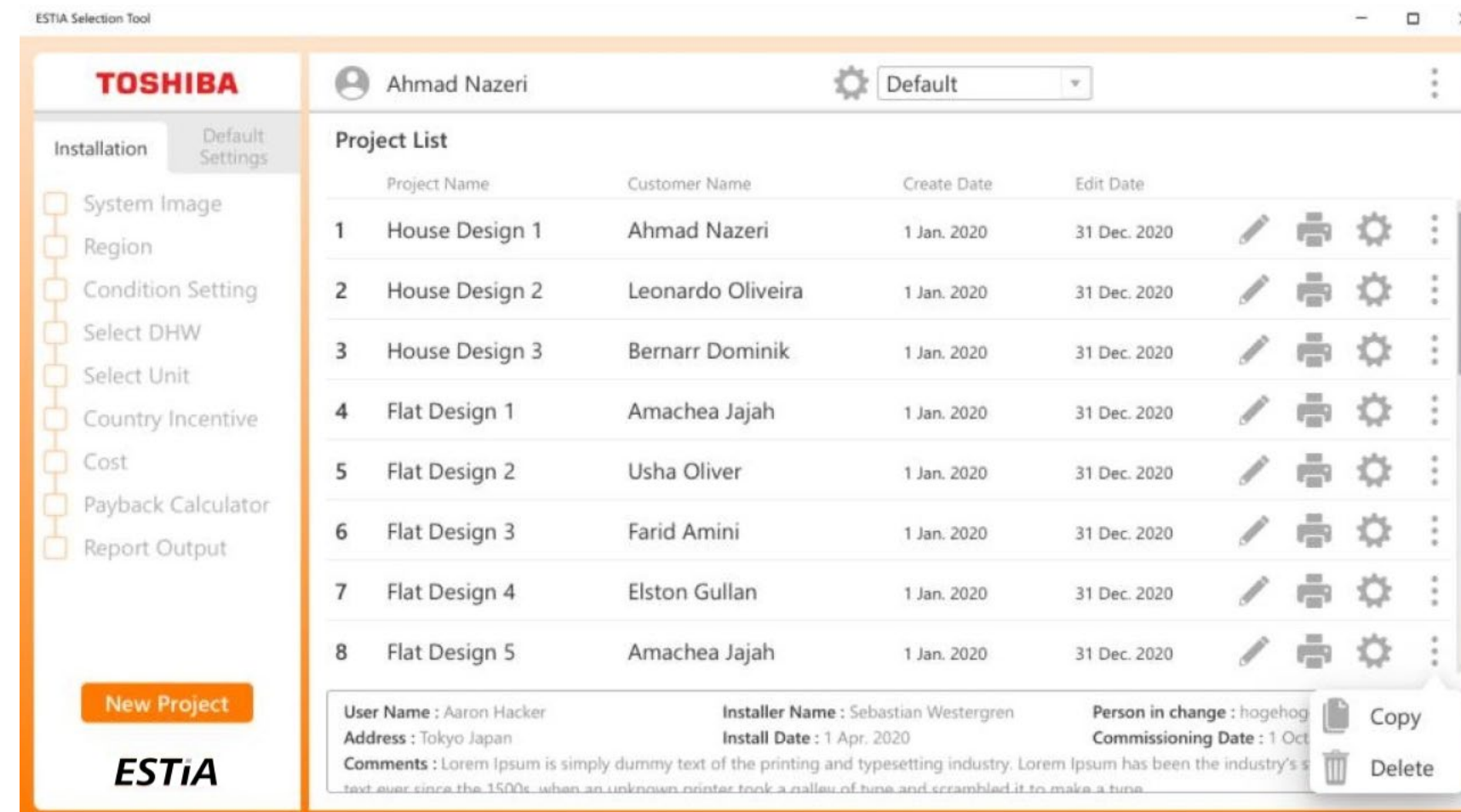


ESTIA R32

- NEW sales support / selection software

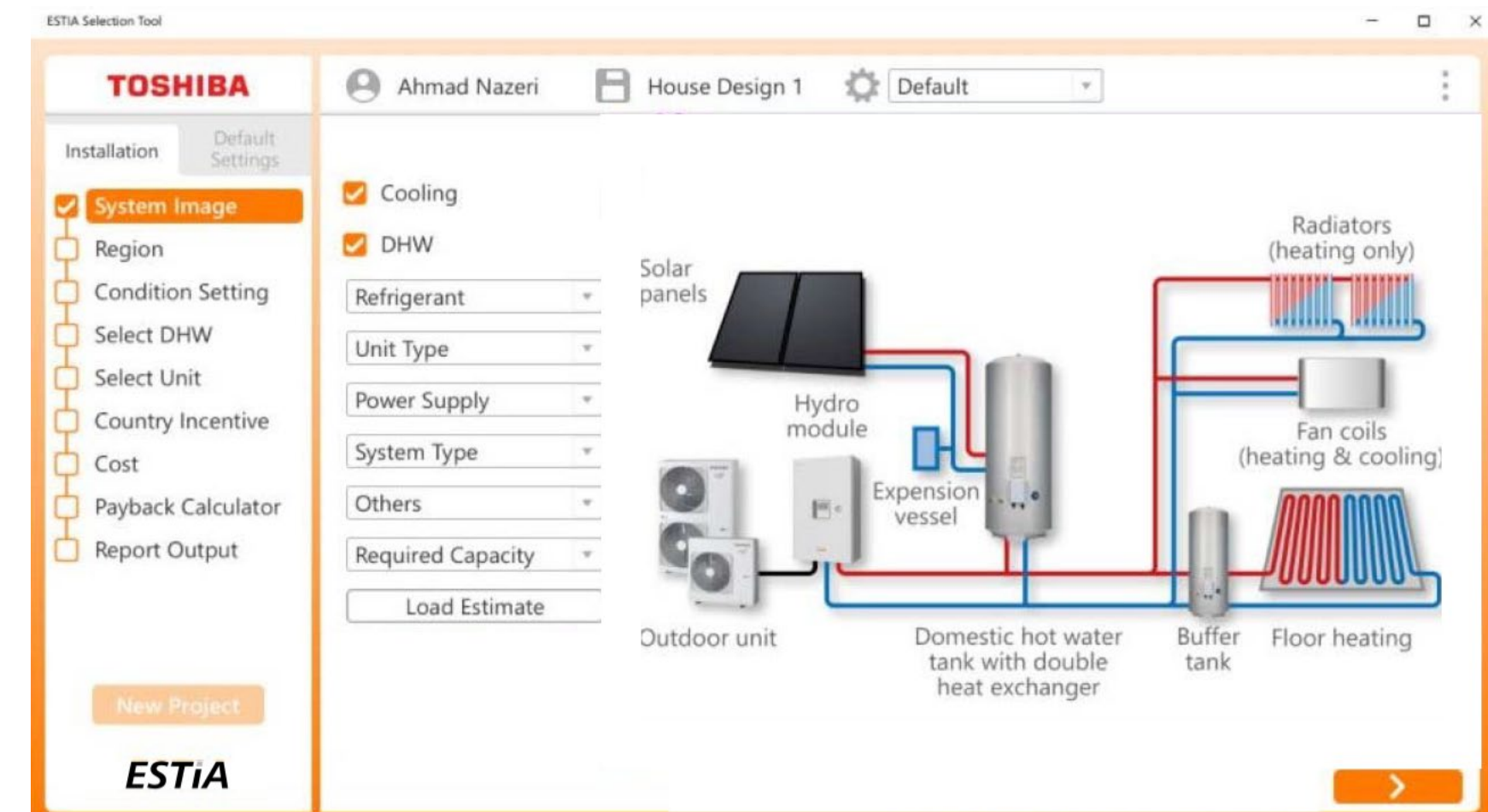


New Selection tool (local-not web based)
New user friendly interface



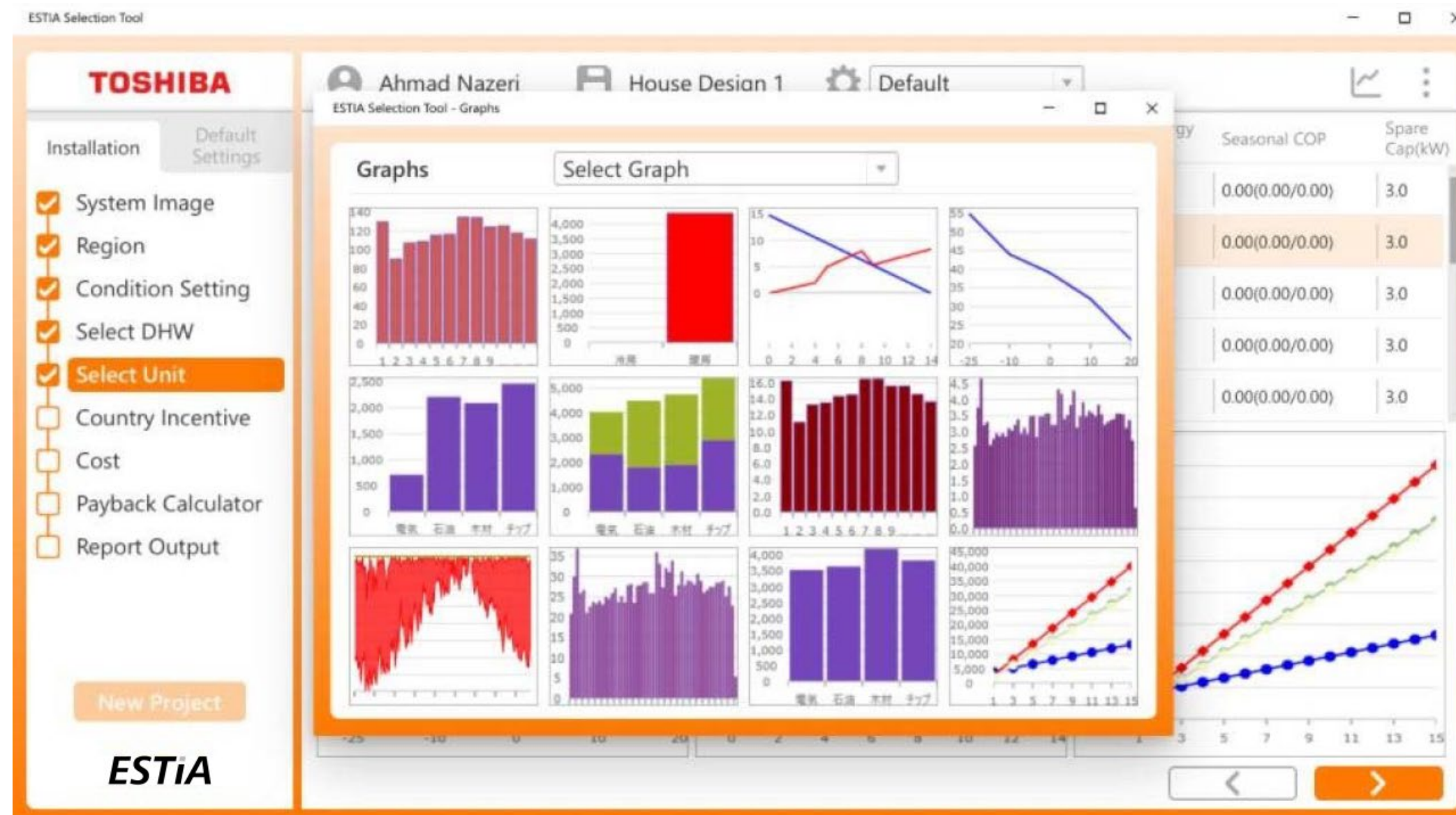
Project mode
Easy settings (energy cost, prices, etc.)

Multiple application/systems approach
Heating load calculator (estimation)

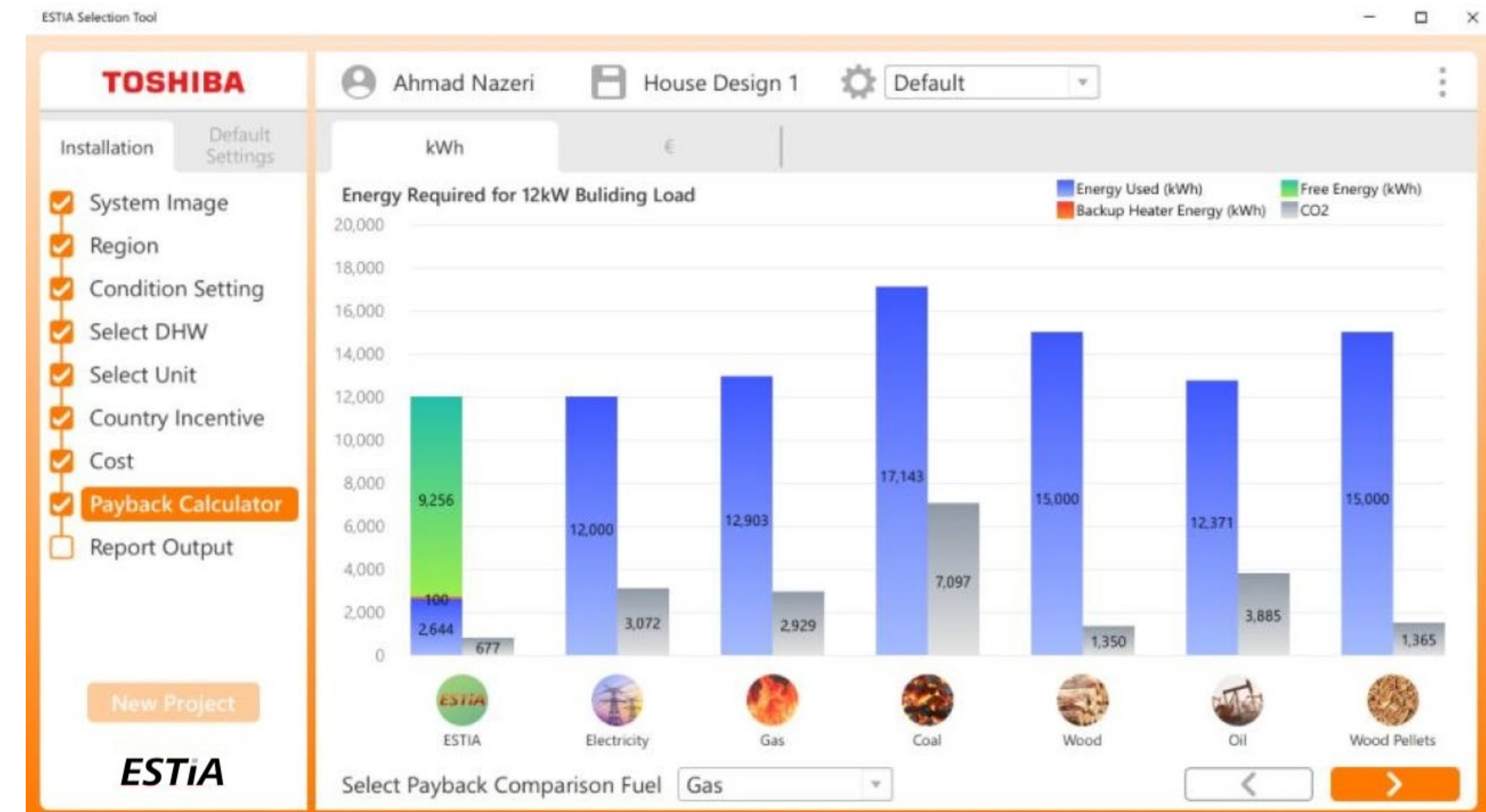


ESTIA R32

- NEW sales support / selection software



Large choice of charts display
Customized report



Annual consumption comparison with other energies
Return On Investment calculations
(including local incentives)

ESTIA R32

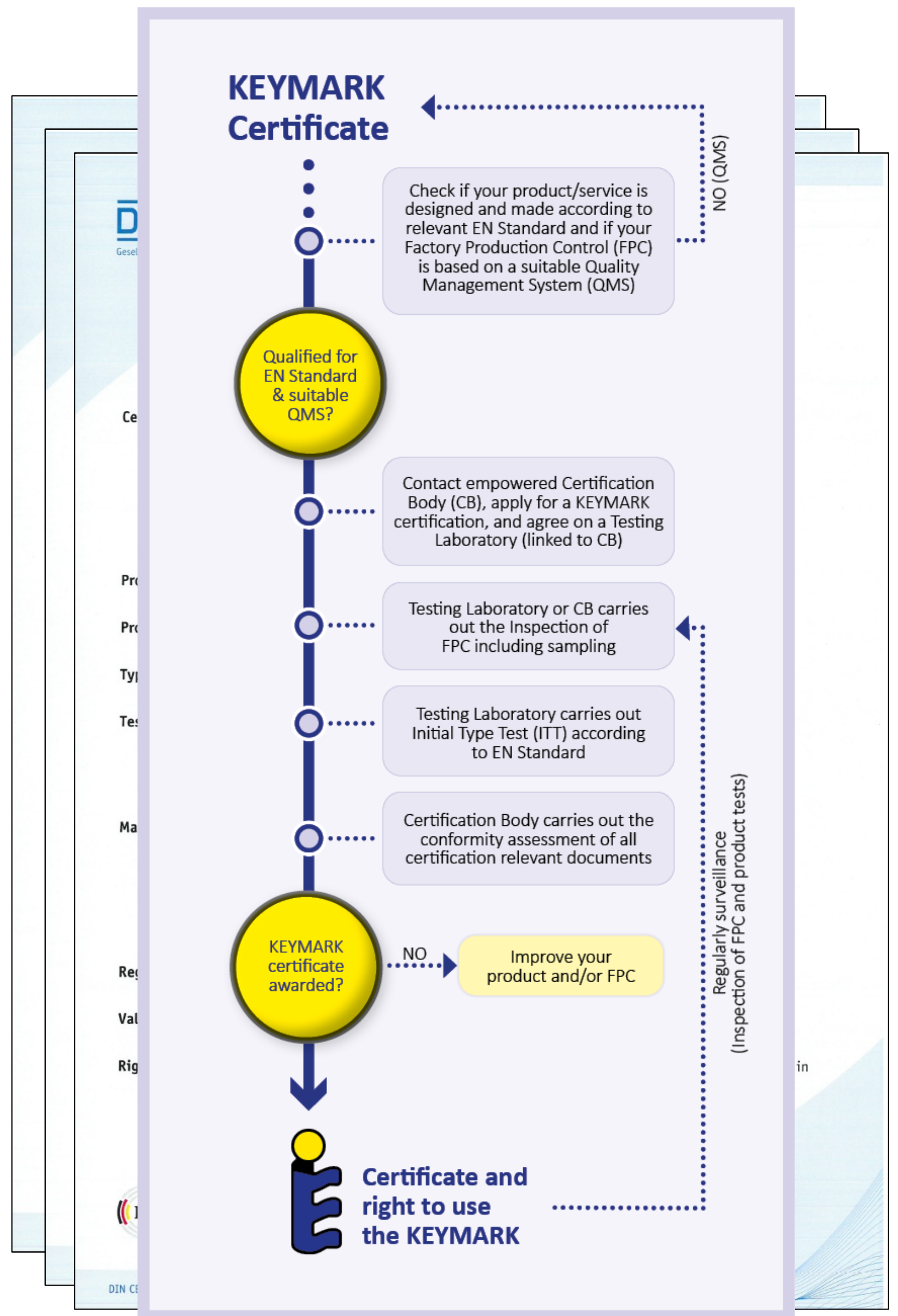
- 3rd party certification: KEYMARK Heat Pump



**CEN heat pump
KEYMARK**

✓ Complete new ESTIA series 1 will be KEYMARK certified

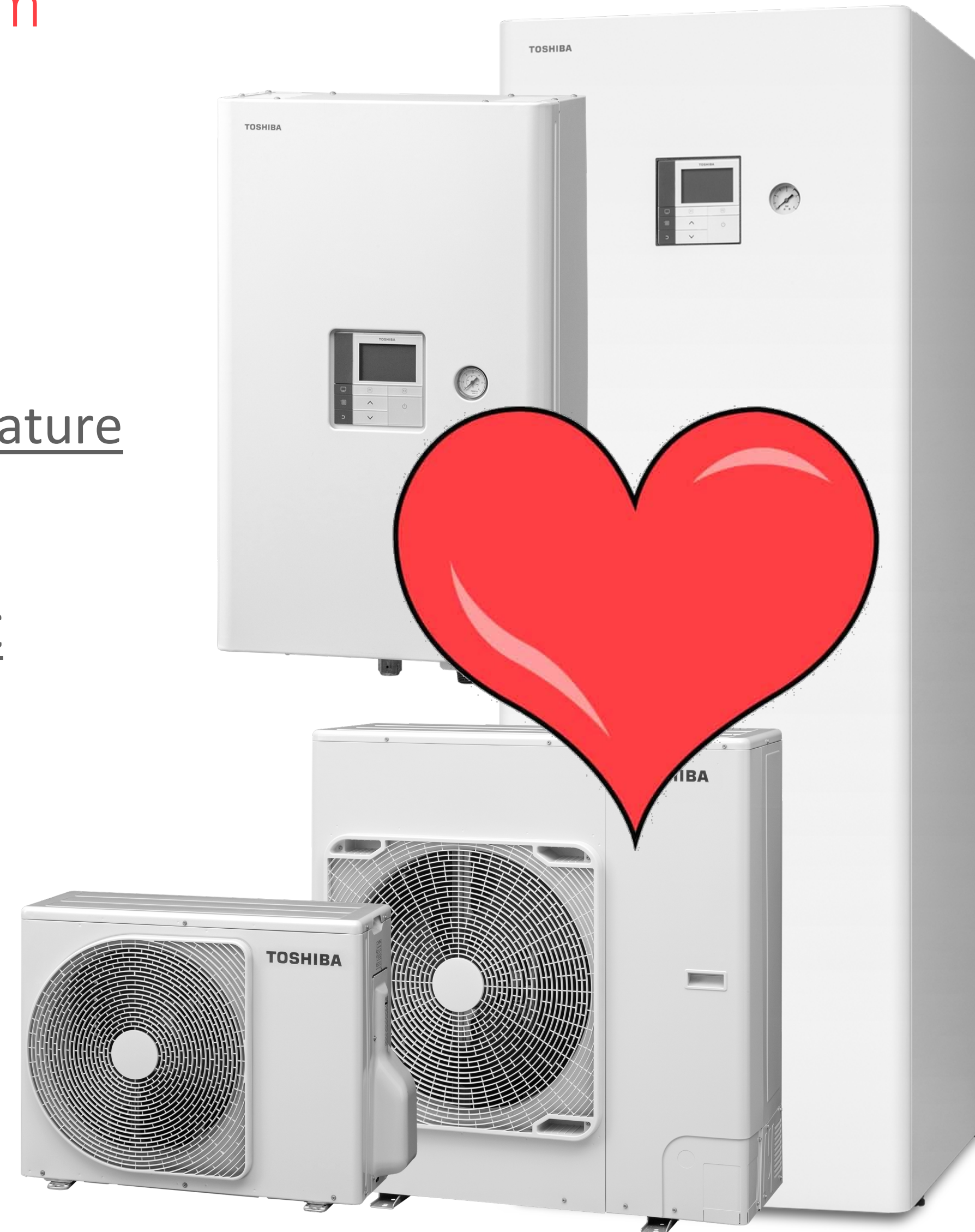
✓ EHPA is following KEYMARK



ESTIA R32

- 5 best reasons to love the new ESTIA system

- 1 energy efficiency A+++
- 2 Safe operation down to -25°C outdoor temperature
- 3 Steady leaving water temperature up to +65°C
- 4 Wide range of control options, including 2nd Remote, WiFi, Modbus, KNX, 0-10 Volt.
- 5 Choice of 1- or 2-Zone for AIO indoor unit





ESTIA air to water heatpumps 2021

Simplify your water-life ...

*Claus Wackerbauer
Product Manager*

*Markus Pichler
Technical Director*

ESTIA mono DHW

Flexible „set & forget comfort“ for Domestic Hot Water preparation

model type	tank (Ltr.)	design / variants
HWS-G1901CNMR-E	190	standard version
HWS-G2601CNMR-E	260	
HWS-G1901CNRR-E	190	variant water connection position
HWS-G2601CNRR-E	260	
HWS-G1901CNXR-E	190	+ deluxe PCB
HWS-G2601CNXR-E	260	
HWS-G1901ENXR-E	190	+ deluxe PCB + HEX
HWS-G2601ENXR-E	260	



ESTIA mono DHW

Basics!

- ✓ 2 Versions: 190 Ltr. & 260 Ltr.
- ✓ Water temperature from +50 to +65°C
- ✓ *Best in class* COP 3.57 (EN 16147)
- ✓ *Best in class* fan external static pressure
- ✓ *Best in class* noise level
- ✓ Wide operating range from -7°C /+40°C
- ✓ Corrosion protection with enamelled steel tank and magnesium anode



ESTIA mono DHW

User interface



Operation modes:

AUTO, ECO, BOOST, SILENT and HOLIDAY

Flexible control solutions:

- ✓ ModBus connectivity
- ✓ Smart Grid ready
- ✓ Photo-Voltaic ready
- ✓ Solar function with extra coil
- ✓ Air Cooling function

