EXCELLENCE IN SEASONAL EFFICIENCY
THE TOSHIBA SHRM-e, FOR A WHOLE RANGE OF INNOVATIONS

High efficiency and low operating costs

Full of Toshiba innovation, the new SHRM-e achieves an ESEER (European Seasonal Energy Efficiency Ratio) of 8 and above in most capacities. Toshiba’s unique combination of twin-rotary compressors and all-inverter-driven control, can adjust the operating speed of the compressors in steps of just 0.1 Hz. This technology when combined with SHRM-e all-new 3-row heat exchanger and Toshiba’s “intelligent flow” technology ensures both maximum system performance and even capacity distribution throughout the entire system.

Exceptional quality and reliability

The SHRM-e’s innovative dual vane technology reduces variances between the vane and roller, while its unique Diamond-Like Carbon coating technology offers outstanding wear-resistance. Together, these further optimise performance, efficiency, durability and reliability. SHRM-e’s sophisticated oil management control ensures optimum oil levels inside each compressor and using Toshiba’s dedicated oil balance line control, which can actively transfer oil from one condensing unit to another, ensures total reliability for the whole system.
NEW INNOVATIVE HEAT RECOVERY WITH SIMULTANEOUS HEATING AND COOLING SOLUTION FOR LARGE BUILDINGS

Superior air comfort

The SHRM-e’s Automatic Temperature Control system sets minimum and maximum temperatures and maintains air at the desired temperature. Toshiba’s new Dual Set Point function instructs the system to stop operation and change mode once the maximum or minimum temperature has been reached.

The system allows continuous heating, even during external defrost, while the new soft cooling mode offers personalised air flow for enhanced comfort. The SHRM-e also features individual on/off temperature control via remote control, when multiple indoor units are connected to a single flow selector box.

Flexible design and quick installation

With its new multi-flow selector units, the SHRM-e expands capacity line-up with fewer connections for faster and simpler installation. It also offers extended piping length and operating temperature range for a more flexible design. Improved external static pressure allows flexible unit positioning, whilst Toshiba’s unique Wave Tool App enables remote monitoring of CDU operations, an industry first.

SUSTAINABLE DEVELOPMENT

Toshiba is dedicated to designing products and solutions with an ever lower impact on the environment and reduced energy consumption. Our long-standing commitment to sustainable development enables us to anticipate the European climate and energy package requirements for 2030.
CREATING BENEFITS AROUND COMFORT

BENEFITS FOR THE USER

Infinite comfort …
Achieved by fully-controllable room temperature, a perfect alternative to traditional heating and cooling systems.

Infinite efficiency …
Low operating costs thanks to reduced installation costs and very high levels of efficiency via optimal load adjustment.

Infinite integration …
Cooling, heating and fresh air ventilation, all perfectly and conveniently attuned to one another within a single system – and so easy to use!

Infinite reliability …
Hassle-free operation based upon decades of experience and intensive testing programs for all systems.

Infinite transparency …
Clearly-defined billing so you can quickly review energy costs and consumption.
BENEFITS
FOR THE CONSULTANT

Absolute customisation …
A wide range of products ensures that the customers’ requirements are fully addressed.

Absolute validation …
SHRM-e is EUROVENT certified and adheres to all current European legislations.

Absolute control …
Fully-integrated controls network, allowing unlimited access to the system controls and its operation.

Absolute flexibility …
A high degree of system flexibility, aided by a fully-flexible piping specification and an extremely compact modular design.

Simplified design …
Toshiba Design Airs software makes the selection of a system’s components simple.

BENEFITS
FOR THE INSTALLER

So simple …
One supplier – one point of contact for a total solution: cooling, heating, hot water, ventilation and controls.

So versatile …
Maximised installation flexibility.

So convenient …
Easy access for all service and maintenance needs.

So professional …
Intensive training and instruction offered by local Toshiba-trained experts.

So accessible …
Simplified and swift commissioning assisted by the all new Wave Tool App.
HIGH EFFICIENCY AND LOW OPERATING COSTS

INNOVATIVE COMPRESSOR TECHNOLOGY
Toshiba’s infinitely variable inverter-driven control can continually adjust the operating speed of the compressors in real time. This ensures that the capacity output precisely matches end user demand. The advantages of this control are further optimised by incorporating Toshiba’s twin-rotary compressors. These enable the SHRM-e system to achieve maximum performance and class-leading ESEER values.

INFINITE VARIABLE CONTROL
This feature has been continually evolved and developed since its inception by Toshiba engineers back in 2004 with the original SMMS system. The control has the ability to adjust the compressor rotational speed in a near seamless 0.1 Hz steps. This control when matched with Toshiba’s newest and latest twin-rotary compressors, allows the system to respond precisely to the capacity needs of the end user, while minimising energy losses.

ADVANCED HEAT EXCHANGER
Toshiba’s new 3-row heat exchanger design, with reduced pipe size from 8 mm to 7 mm and increased total number of passes, improves both system performance and efficiency. While the 3-row heat exchanger design allows the condensing unit to automatically select the most suitable heat exchanger size, precisely matching the indoor capacity load, its 4-sided design ensures maximum possible flow rate across the entire coil, maximising system efficiency.

Total pipe surface area increased by 13%
INTELLIGENT FLOW TECHNOLOGY

The unique IFT control continually adjusts the operation of both indoor and outdoor units, based on the feedback from multiple sensors. While the refrigerant flow to each indoor unit is precisely controlled by the outdoor unit, ensuring even capacity distribution throughout the system, the evaporative and condensing temperature is automatically adjusted to maintain optimum indoor room temperature, regardless of the unit’s load or its physical distance from the outdoor unit.

MAXIMUM PART LOAD AND FULL LOAD EFFICIENCIES

General office accommodation
Cooling part load conditions: 35°C-100%, 30°C-75%, 25°C-50% and 20°C-25%

Utilising the new highly efficient core technologies has resulted in greater energy efficiency and performance.

Thanks to Toshiba’s unique twin-rotary compressor, redesigned heat exchanger and “intelligent flow” technology, the new SHRM-e achieves an ESEER of 8.17, the highest seasonal efficiency in the market.

Maximum efficiency is obtained under 50% part load conditions, under which VRF systems operate predominantly. The expert use and evolution of Toshiba’s core technologies have allowed the new SHRM-e system to achieve the highest part load COP and EER in the industry.
FLEXIBLE DESIGN AND QUICK INSTALLATION

PIPING DESIGN FLEXIBILITY

Toshiba’s piping technology makes them one of the industry’s leaders in system flexibility and ease of installation and with the new SHRM-e system, the level of flexibility has increased further, giving more options to the contractor and installer alike.

1 Total piping length
Applied with Toshiba’s unique and greatly improved technology, SHRM-e can reach up to 1,000 metres maximum piping length.
Total piping length
1,000 m

2 Furthest equivalent length
The maximum equivalent distance between the outdoor unit and the furthest indoor unit tops at 200 metres, a best-in-class for the industry.
Farthest equivalent length
200 m

3 Height between outdoor unit and indoor unit
Another industry best-in-class feature is the maximum vertical distance between the outdoor and indoor units, which can extend up to 90 metres. SHRM-e’s enhanced piping capabilities results in more benefits for system design and installation flexibility, as well as lower installation costs.

4 Piping design flexibility “FS unit-FSU”
As the SHRM-e multi-flow selector and indoor unit can be as far as 50 metres apart, the refrigerant piping can be lengthened, offering more flexibility in design to make every space both more comfortable and attractive.

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* Above 34 HP combination
** It is 70 m for normal time, and has some specific conditions for 90 m, 50 m if piping length between indoor units is more than 3 m
*** It is allowed only if you use the multi-port FS unit
SINGLE- AND MULTI-PORT FLOW SELECTOR FOR INCREASED FLEXIBILITY

The latest generation single-port flow selector unit increases the design flexibility of the system, offering longer distances of up to 50 m between flow selector box and indoor units, for example where noise levels are paramount importance, and connection of up to 8 indoor units onto one individual flow selector box.

The use of multi-flow selector units increases the design flexibility of the system, offering the same overall capacity and allows much faster and simpler installation, while layout design is more flexible, thanks to simplified branch and branch connections. Reducing the length of the branches also allows increased capacity. This configuration is available with either group or individual remote control.

NEAR FIELD TECHNOLOGY AND WAVE TOOL, ALL YOUR DATA WITHIN REACH

With Near Field Communication (NFC), the SHRM-e is the first in the industry to allow remote monitoring of CDU operations. Using NFC technology, Read and Write data is exchanged wirelessly between the unit and a smartphone (Android, OS, 5.0) for remote commissioning and operations data checking.

SOFTWARE DESIGN AIRS MAKES IT EASIER

The new “Airs” software has been fully redesigned, with a user-friendly interface allowing novice and expert users alike to create simple, yet detailed VRF system schematics. It is highly versatile, allowing the level of detail to be tailored to suit customer requirements.

The software also allows the user to specify pricing strategy and create additional interim reports, including any diagrams and schematics required. Final detailed reports can then be produced and sent to customers in PDF format or in more complex files, such as AutoCAD DXF, allowing simple integration into their existing software packages.
SUPERIOR AIR COMFORT

COOL COMFORT WITH SOFT COOLING MODE

The development of the soft cooling mode provides a new level for cool comfort. You will have the freedom to personalise the air flow intensity, angle and direction directly from the remote control and enjoy the indoor environment at the right temperature without being directly exposed to the cold draught.

Standard operating mode

Soft cooling mode

OPTIMISED HEATING OPERATIONS

The SHRM-ε allows continuous heating, even during external defrost operations, thanks to the new hot gas bypass control. Indoor units will now operate continually, with only a minimal reduction in capacity output. This results in an uninterrupted flow of warm air, ensuring maximum comfort to the end user.

DUAL SET POINT FOR MORE PRECISION

The Dual Set Point increases the system’s energy efficiency and reduces overall running costs, with longer periods of time in thermal off mode. Heating and cooling temperatures at which the indoor unit will begin to operate can now be individually selected giving maximum flexibility to the user.
SMART AUTOMATIC TEMPERATURE CONTROL SYSTEM

The SHRM-e's Automatic Temperature Control (ATC) system has been designed to enhance user comfort and reduce energy consumption. Each user can easily set minimum and maximum temperatures with the ATC, which automatically maintains the air at the desired temperature. Once the maximum temperature has been reached, the intelligent Dual Set Point function will tell the system to shut down and change mode to adjust the temperature to the minimum required, or vice versa. This enhances efficiency and reduces running costs by extending the thermal off periods, when the unit stops between changes in heating and cooling mode.

INNOVATIVE INDIVIDUAL ON/OFF AND TEMPERATURE CONTROL

The innovative multi-flow selector allows smart temperature control in each space via individual remote controls. This meets users' different temperature requirements for maximum comfort, and if rooms are empty, the unit can be switched off.

This solution helps reduce energy waste, improve efficiency and save on overall costs.
EXCEPTIONAL QUALITY AND RELIABILITY

MORE DURABLE WITH LEADING TWIN-ROTARY COMPRESSOR TECHNOLOGY

The advanced technology used within SHRM-e units results in a robust and durable system. The innovations made with Toshiba twin-rotary compressor have resulted in an even stronger and more reliable system, extending the operational life and, thus, reducing the overall maintenance costs.

Operating temperature range

Extensive operating temperature range of up to 46 °C in cooling mode and down to -25 °C in heating mode thanks to new compressor design and system controls.

DEDICATED OIL MANAGEMENT

The Toshiba SHRM-e oil management control constantly monitors the real-time oil level inside each of the compressors. Based on these readings, the system can initiate various system oil retrieval controls and via the dedicated oil balance line between CDUs, the system can maintain the optimum amount of oil inside each compressor at all times.
MAXIMUM RELIABILITY WITH BACK-UP OPERATION

For maximum reliability, all-inverter control can be adjusted to compensate for a failed compressor or header unit. In the unlikely event of a compressor failure, back-up operation is available in both a single system or as a module. This provides reassurance to the end user that the system will continue to operate whatever the circumstance.

WIDE-RANGE COMPRESSOR

Using new cutting-edge technology, Toshiba’s new twin-rotary DC driven compressor can operate in a much wider range of rotational speed, giving increased performance, while maximising energy efficiencies.

DUAL VANE TECHNOLOGY FOR ENHANCED PERFORMANCE

The all-new dual vane technology reduces any variances in the contact area between the vane and roller, even when the compressor is operating at very high speeds. This results in minimal compression losses inside the compressor, further optimising its performance, efficiency and reliability.

THE DIAMOND-LIKE CARBON COATING

The new Toshiba Diamond-Like Carbon coating technology is unique to Toshiba VRF compressors. It covers the wear surfaces on compression vanes for outstanding hardness and wear-resistance, enhancing both the compressor’s performance and durability and confirming Toshiba’s reputation of providing exceptional reliability.
### INDOOR UNITS AND ACCESSORIES

**MULTIPLE DESIGN ... COMPLETE SOLUTION**

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<td>FLOOR STANDING TYPES</td>
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**Air flow rate/air volume**

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<th>300</th>
<th>450</th>
<th>600</th>
<th>750</th>
<th>900</th>
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<th>1200</th>
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<th>1500</th>
<th>1600</th>
<th>1800</th>
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<td>Air-to-air heat exchanger with DX coil MMD-VN*2HEX1E</td>
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<tr>
<td>Air-to-air heat exchanger with DX coil humid filter MMD-VN*2HEX1E</td>
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<td>Air-to-air heat exchanger VN-M*OH1E</td>
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</table>
CONTROLS

INCREASING COMFORT LEVELS
BY GETTING THE CONTROLS RIGHT

Comfort, economic efficiency and safety can be further maximised with modern control mechanisms. Whether wired or remotely controlled units, web-based control devices or elegant touch screen systems, the important thing is to achieve the right temperature at the right time and in the right place! It’s all about balance – and we’ve got it just right.

WIRED REMOTE CONTROLS

Wired Remote Controller
RBC-AM554E-ES

Standard Remote Controller
RBC-AMT32E

Remote Controller with Weekly Timer
RBC-AMS41E

Simple Wired Remote Controller
RBC-AS41E

CENTRAL CONTROLLERS

Central Remote Controller
BMS-CM1280TLE

Schedule Timer
TCB-EXS21TLE

ON-OFF Controller
TCB-CC163TLE2

Smart Touch-Screen Controller
RBC-TBPTS

BMS CONTROLLERS

Black Pear Controller
RBC-BP*1 BACnet, Modbus, Trend

Smart BMS Manager
BMS-5M1280ETLE

WIRELESS REMOTE CONTROLS

Infrared Remote Control

Receiver kit for the installation on the wall or ceiling.
TCB-AX32E2

Receiver kit to be installed directly in the frame of the indoor unit.
RBC-AX33CE

Receiver kit to be installed directly in the frame of the indoor unit.
RBC-AX32U(W)-E

Receiver kit to be installed directly in the frame of the indoor unit.
RBC-AX32UW(W)-E

CONNECTABLE OPEN NETWORK

BACnet®
BMS-IFBN640TLE

BMS-STBH10E: Software,
BMS-LSV9E: Server

LonWORKS®
TCB-IFLN642TLE

Modbus®
TCB-IFMB641TLE

KNX®
**SHRM-e - HEAT RECOVERY OUTDOOR MODULES**

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<tr>
<th>Model (MMY-)</th>
<th>MAP0806FT8P-UK</th>
<th>MAP1006FT8P-UK</th>
<th>MAP1206FT8P-UK</th>
<th>MAP1406FT8P-UK</th>
<th>MAP1606FT8P-UK</th>
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<td>8</td>
<td>10</td>
<td>12</td>
<td>14</td>
<td>16</td>
<td>18</td>
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<td>28.0</td>
<td>31.5</td>
<td>33.5</td>
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<th>AP2216FT8P-UK</th>
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<th>AP2616FT8P-UK</th>
<th>AP2816FT8P-UK</th>
<th>AP3016FT8P-UK</th>
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<tbody>
<tr>
<td>HP</td>
<td>20</td>
<td>22 = 12+10</td>
<td>24 = 14+10</td>
<td>26 = 14+12</td>
<td>28 = 14+14</td>
<td>30 = 16+14</td>
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<td>Capacity kW (C/H)</td>
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</thead>
<tbody>
<tr>
<td>HP</td>
<td>32 = 18+14</td>
<td>34 = 18+16</td>
<td>36 = 18+18</td>
<td>38 = 20+18</td>
<td>40 = 20+20</td>
<td>42 = 14+14+14</td>
</tr>
<tr>
<td>Capacity kW (C/H)</td>
<td>90.4</td>
<td>101.5</td>
<td>95.4</td>
<td>106.5</td>
<td>100.8</td>
<td>113.0</td>
</tr>
</tbody>
</table>

**SHRM-e - HIGH EFFICIENCY HEAT RECOVERY OUTDOOR MODULES**

<table>
<thead>
<tr>
<th>Model (MMY-)</th>
<th>AP1626FT8P-UK</th>
<th>AP1826FT8P-UK</th>
<th>AP2026FT8P-UK</th>
<th>AP2426FT8P-UK</th>
<th>AP2626FT8P-UK</th>
<th>AP2826FT8P-UK</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>16 = 08+08</td>
<td>18 = 08+10</td>
<td>20 = 10+10</td>
<td>24 = 08+08+08</td>
<td>26 = 08+08+10</td>
<td>28 = 08+10+10</td>
</tr>
<tr>
<td>Capacity kW (C/H)</td>
<td>44.8</td>
<td>50.0</td>
<td>50.4</td>
<td>56.5</td>
<td>56.0</td>
<td>63.0</td>
</tr>
</tbody>
</table>

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