

TOSHIBA



BUSINESS

Plan for excellence.
Cool excellently.



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THE IDEAL CLIMATE
FOR YOUR BUSINESS
APPLICATIONS



BUSINESS SOLUTIONS

The VRF technology is the perfect solution for large commercial plants and industrial buildings such as offices, hotels, hospitals, recreational facilities, and stores.

Perfect refrigerant management combined with inverter-controlled compressors guarantee high energy efficiencies, flexible use, and minimal maintenance work. Plus, its multitude of solutions makes the VRF system the most flexible choice for meeting all requirements.



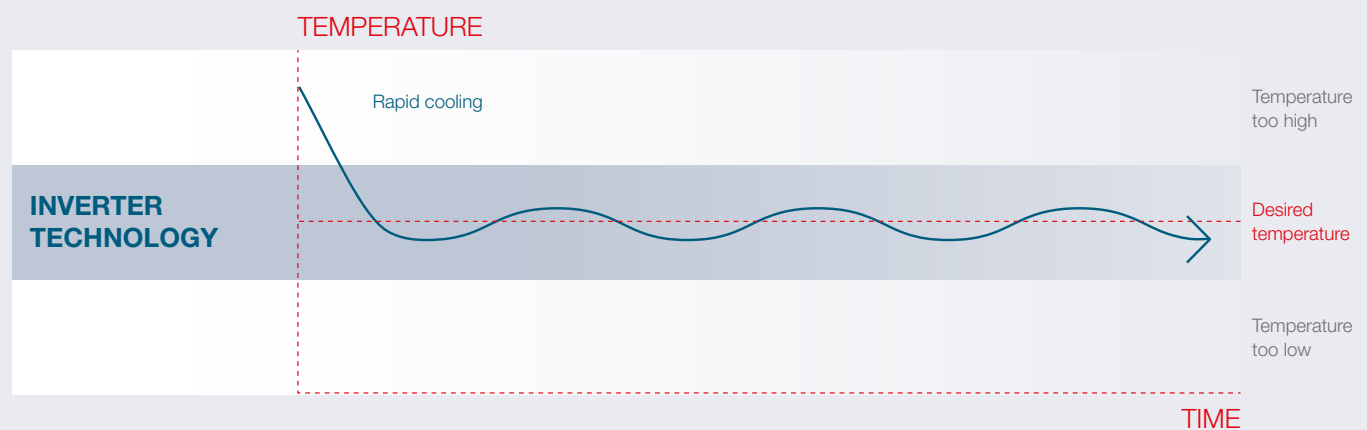
TOSHIBA INVERTER TECHNOLOGY



The core feature of TOSHIBA's VRF systems is the combination of twin or triple rotary compressors and the inverter control, which was developed in-house. Both ensure that the capacity produced meets the current requirements exactly via the frequency control of the compressor. This makes the systems efficient in terms of consumption, convenient to use, and durable in operation.

TOSHIBA is the inventor of the inverter technology, which has been continuously refined and perfected since 1981, starting with the home air conditioner through to the latest generation of VRF systems with several hundred kilowatts of cooling and heating capacity. The inverter control uses two different drive modes for the compressor:

- Pulse width modulation (PWM) ensures maximum energy efficiency in part load operation.
- Pulse height modulation (PAM) delivers maximum power and ensures that the target value is quickly reached.



In conjunction with the intelligent VRF control, also developed in-house, TOSHIBA is perfecting the aspect that essentially sets variable refrigerant flow systems apart and makes them indispensable in so many applications: They supply each individual indoor unit in the system with the amount of refrigerant currently required for cooling or heating. And they do so regardless of the number of indoor units, their location in the building, and their required output.

The systems do all this with maximum energy efficiency, and are simple to plan and install. Their flexible, streamlined piping systems also make them perfect for tricky applications, such as in historic buildings.

VERSATILITY IN USE



For designers

With massive scope in terms of designs, capacity levels, and indoor units, TOSHIBA systems offer maximum flexibility at the design and installation stages, allowing all requirements to be met. The Selection Tool design program helps with this.



For installers

TOSHIBA systems are compatible with all standard building control systems that adapt central controls to your needs, and are designed to provide maximum efficiency. An extensive network of partners is available to you from the design stage right through to maintenance.



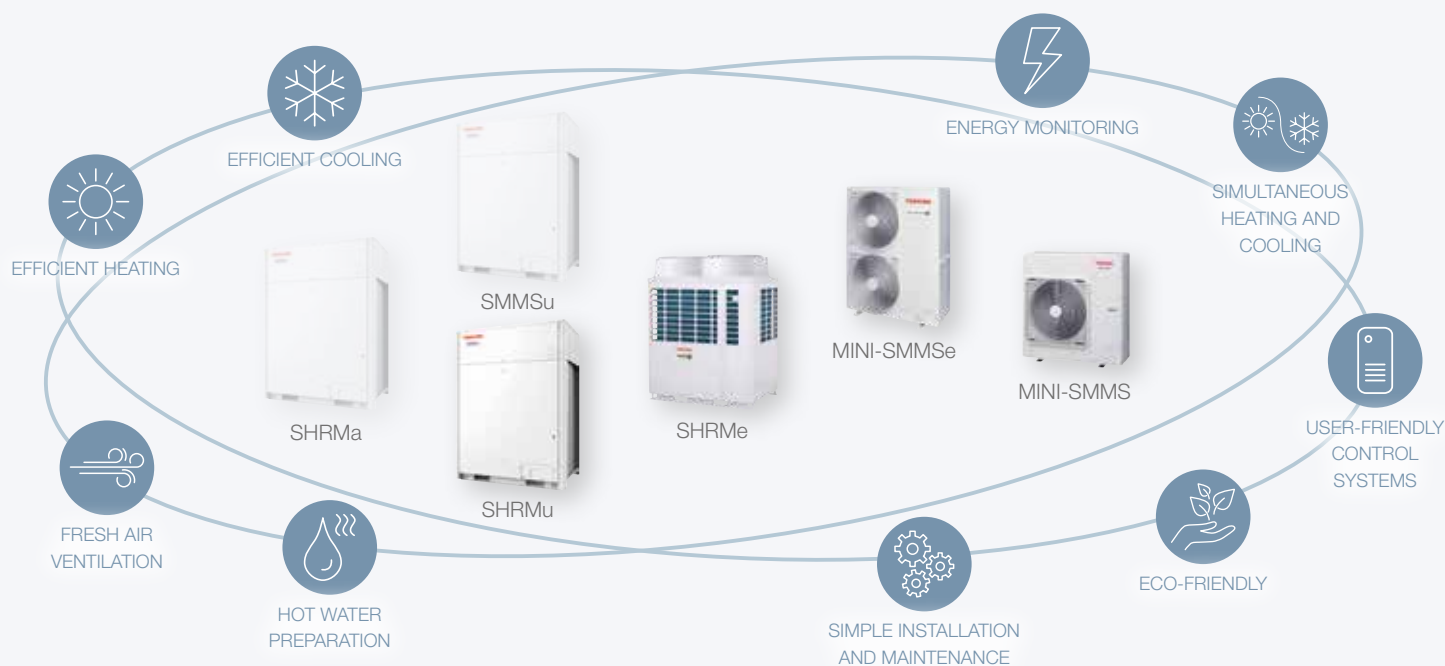
For the environment

TOSHIBA constantly strives to manufacture products and take action so the world can become a better place. By introducing the MiNi SMMS and SHRM Advance, TOSHIBA is launching a VRF R32 line with a low GWP on the market. Get ready for a new, green dimension in your projects, and in your life.



For users

TOSHIBA VRF systems guarantee comfortable conditions the whole year through in combination with sophisticated energy management, advanced air filtration, and a full range of control solutions for maximum product usability.

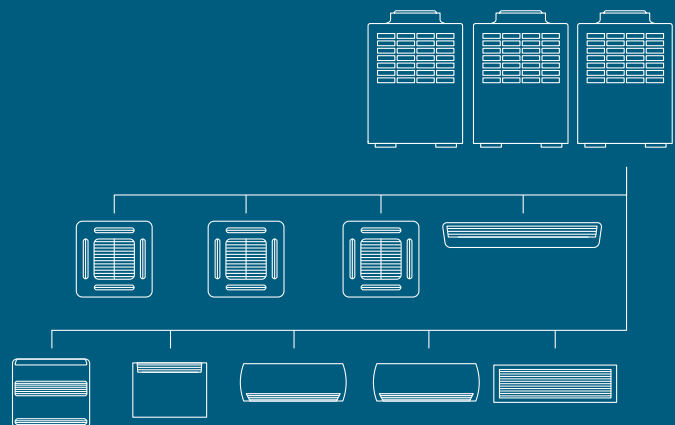


SMALL, BIG, OR BIGGEST.

TOSHIBA commercial applications are available in two systems: **a single-room solution (RAV)** with up to four indoor units in a temperature zone and a **multi-room solution (VRF)** for large buildings with virtually unlimited combinations of indoor units and temperature zones.

Multi-room solution – VRF

Air conditioning systems for complex installations in large structures, such as office buildings, shopping centers, or hotels. This system offers maximum flexibility. Up to 128 indoor units can be combined in one refrigeration cycle. The nominal cooling capacity is up to 335 kW per refrigeration cycle.



Advantages of the multi-room solution

➤ Maximum system flexibility

An overall pipe length of up to 1,200m and a height difference of up to 110m leave nothing to be desired.

➤ Up to 128 indoor units

Up to 128 indoor units are integrated into one refrigeration cycle. Several refrigeration cycles can be combined.

➤ Heating and cooling at the same time

Independent cooling and heating is possible at the same time in different rooms or areas of buildings using a 3-pipe system.

➤ Heat recovery

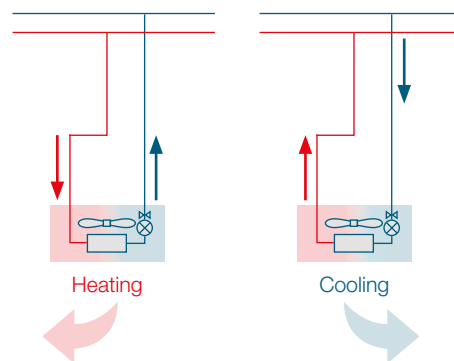
The thermal energy absorbed from one area of the building can be made available for heating other rooms with virtually no heat loss.

COOLING, HEATING, OR BOTH?

With the VRF multi-room systems, there is a choice between 2-pipe and 3-pipe systems for cooling and heating at the same time.

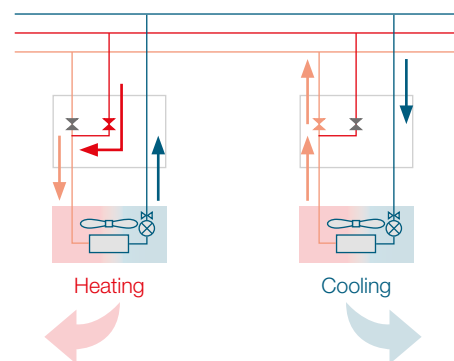
2-pipe system

This system can **cool or heat** according to the season and the users' requirements. It creates the ideal balance of temperature and humidity for low operating costs. The many possible combinations of indoor units as well as the uncomplicated pipework and wiring offer high levels of flexibility.



3-pipe system

This system allows **simultaneous and independent cooling and heating**. This technology is particularly efficient in buildings with extreme variations in the thermal load depending on the orientation of the building, or spaces that constantly produce waste heat. The thermal energy absorbed from one area of the building can be made available for heating other rooms with virtually no heat loss. This guarantees maximum cost-effectiveness.





System flexibility

➤ Height difference between indoor units

Maximum height difference between the indoor units can be up to 40 meters, which is equivalent to an 11 story building.

➤ Flexible refrigeration cycles

Several refrigeration cycles can be combined to form one large system, so that they can be controlled centrally.

➤ Compact design

Compact dimensions ensure a small footprint.

➤ 110 m height difference

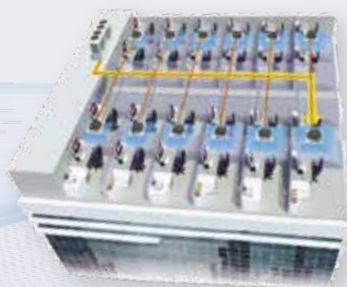
The height difference between outdoor unit and farthest indoor unit can be up to 110 m. This is equivalent to the height of a 30-story building.

➤ Farthest equivalent length

The maximum distance between the outdoor unit and the farthest indoor unit can be up to 250 meters.

➤ 1,200 m pipe length

A pipe length of up to 1,200 m allows flexible design and installation.



VRF TECHNOLOGY IN DETAIL

> Innovative compressor technology

TOSHIBA's rotary compressor technology delivers incredible power for all systems, with zero compromises in terms of system reliability. Twin-rotary compressors meet the requirements in an efficient way with minimal energy losses – unlike scroll compressors, which are often set to provide "too much" power. Some VRF models come equipped with a triple rotary compressor, a unique feature found only at TOSHIBA.



Large capacity



Less refrigerant required



Low noise



Broad operating range



Minimal vibrations

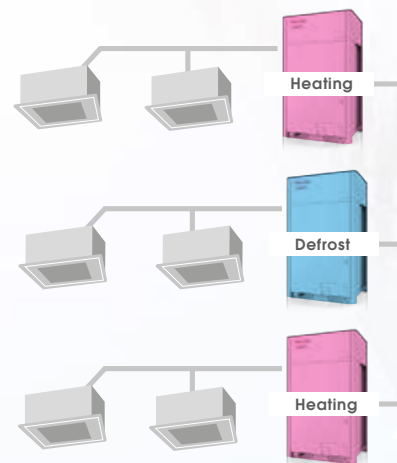


Diamond-like carbon coating

> Continuous heating operation

Where other units would have long since had to pause heating mode to allow a defrosting process, TOSHIBA uses intelligent algorithms that allow it to heat continuously for up to five hours. Even while defrosting, the temperature at the indoor unit's heat exchanger never drops below +23°C.

Custom defrost: Continuous heating operation for up to 5 hours



> Optimum refrigerant management through IFT

The Intelligent Flow Technology microprocessor processes information from all system sensors in order to achieve optimum power distribution. Overcapacity and undercapacity are compensated for irrespective of their location in the building.



VRF stands for **Variable Refrigerant Flow**. No matter how large the building is, the system regulates the refrigerant flow perfectly, so that each indoor unit is supplied with exactly the required amount of refrigerant at all times.

Tools for designers and engineers

Intelligent software tools make life easier for both parties, with convenient design at the start of the project and easy access to data on the unit already installed.

Selection Tool

Reliable and efficient design requires much more than simply combining indoor and outdoor units. The Selection Tool software provides you with a realistic representation of one or more overall systems, each with their own level of detail. Floor plans and control options can be incorporated, lists of units, wiring and piping diagrams can be created – everything is available for export in .pdf or .dwg format at the touch of a button. This tool enables quotations to be provided and work to be planned quickly and effectively.



Wave Tool Advance

Data can be read directly from or uploaded to the outdoor unit using an Android or iOS smartphone or tablet. Pairing is simply done via the wireless NFC connection without a cable connection. For both commissioning and service call-outs, the data for the entire system, device addressing, history, and much more are quickly available for processing on site or via data transfer.



Wireless connection via NFC technology for collecting system data



Link adapter records system operation



Access to system data via link adapter



Direct USB connection for access to system data

VRF INDOOR UNITS



HIGH-WALL UNITS

HAORI
Comfort allrounder

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CEILING UNIT

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CASSETTE UNITS

60x60 slim cassette
4-way standard cassette
4-way SMART cassette
2-way cassette
1-way flat cassette

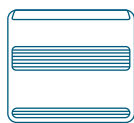
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DUCT UNITS

Standard duct unit
SSD super-slim duct unit
High-pressure duct unit
Fresh-air duct unit

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CONSOLE UNIT

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CHASSIS UNIT

Page 24



FLOOR STANDING UNIT

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SPECIAL SOLUTIONS

DX-kit NEXT
VN heat exchangers
MT & HT hot water modules

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Measuring conditions for TOSHIBA air conditioners according to Eurovent

Cooling:

Outdoor temperature: +35°C dry bulb temperature
Indoor air temperature: +27°C dry bulb temperature / +19°C wet bulb temperature
Humidity: 50 – 55% relative humidity

Heating:

Outdoor temperature: +7°C dry bulb temperature / +6°C wet bulb temperature
Indoor temperature: +20°C dry bulb temperature
No difference in height between indoor and outdoor unit

Sound pressure level:

Measured at 1 m distance from the indoor unit (1.5 m for cassette and duct units),
or 1 m distance from the outdoor unit.
Values are determined in an anechoic chamber as defined in JIS B8616;
these values can be higher in the installed state since they are influenced by external factors.



High-wall units

Simple and efficient

With their universal features, high-wall units are suitable for the majority of use cases. High energy efficiency, ease of operation, quiet running, effective air purification and – last but not least – optimum installation qualities secure their top position among business indoor units. At the planning phase, the individual decision is then whether to opt for the ALLROUNDER or the DESIGN unit.

HAORI Design Line high-wall unit

HAORI is a real eye-catcher with its innovative textile design & material concept. The two fabric covers provided allow the HAORI to be quickly matched to any interior. And if they aren't enough, there are four further cover colors available, or you can decorate it with your own, totally individual design. And on the inside, a self-cleaning function and optimum efficiency values are combined with contemporary air filter technology.

A design infrared remote control is supplied as standard. The high standard also includes especially quiet operation due to the external PMV kit.

HAORI



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMK-UP0071DHPL-E	2,20	2,50	25/28/30/33/35	300/385/480	300 x 987 x 210
MMK-UP0091DHPL-E	2,80	3,20	25/28/31/34/36	300/395/510	300 x 987 x 210
MMK-UP0121DHPL-E	3,60	4,00	25/28/32/35/37	300/410/540	300 x 987 x 210
MMK-UP0151DHPL-E	4,50	5,00	30/33/35/38/40	380/480/580	300 x 987 x 210
MMK-UP0181DHPL-E	5,60	6,30	32/36/39/42/45	420/600/730	300 x 987 x 210

ACCESSORIES	DESCRIPTION	INCLUDED
RB-RXS34-E	Design infrared remote control, black, with magnetic holder	✓
RBM-PMV0361UP-E	PMV kit for indoor units, up to size 12	
RBM-PMV0901UP-E	PMV kit for indoor units, size 15 or larger	
RB-I4101-E	Fabric cover Dark Gray enclosed	✓
RB-I4102-E	Fabric cover Light Gray enclosed	✓
RB-I4103-E	Fabric cover Bluish Gray	
RB-I4104-E	Fabric cover Gray Beige	
RB-I4105-E	Fabric cover Dark Brown	
RB-I4106-E	Fabric cover Emerald Blue	
818F0023	Active carbon-catechin filter strips	
818F0036	IAQ filter strips	
818F0050	Ultra-pure 2.5 filter strips	✓
818F0072	Ultra-Fresh filter strips	

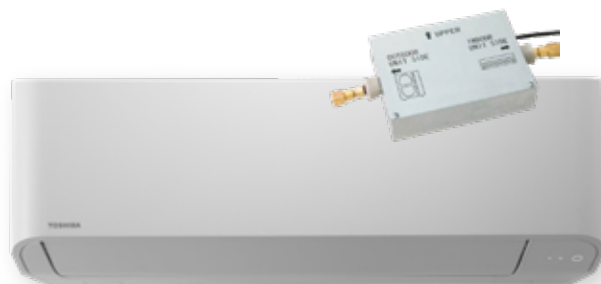
> Comfort allrounder



With their unobtrusive design, these high-wall units fit into offices, shops, hotels, utility rooms, restaurants, and more. A 5-speed fan and generously-sized louver ensure quiet and effective operation with optimum air distribution. The self-cleaning function fully dries the heat exchanger after operation has ended, and offers preventive hygiene in combination with the easy-clean dust filter. A comfort infrared remote control is supplied as standard. There is an external PMV kit for especially quiet operation.

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMK-UP0031HP-E	0,90	1,30	25/29/33	270/370/455	293 x 798 x 230
MMK-UP0051HP-E	1,70	1,90	25/29/33	270/370/455	293 x 798 x 230
MMK-UP0071HP-E	2,20	2,50	25/30/35	270/385/480	293 x 798 x 230
MMK-UP0091HP-E	2,80	3,20	25/31/36	270/395/510	293 x 798 x 230
MMK-UP0121HP-E	3,60	4,00	25/32/37	270/410/540	293 x 798 x 230
MMK-UP0151HP-E	4,50	5,00	32/36/40	550/690/840	320 x 1050 x 250
MMK-UP0181HP-E	5,60	6,30	32/37/41	550/720/900	320 x 1050 x 250
MMK-UP0241HP-E	7,10	8,00	33/39/45	600/900/1200	320 x 1050 x 250
MMK-UP0271HP-E	8,00	9,00	39/41/45	800/1000/1200	350 x 1200 x 280
MMK-UP0301HP-E	9,00	10,00	41/44/48	1100/1300/1500	350 x 1200 x 280
MMK-UP0361HP-E	10,00	11,20	43/45/50	1250/1350/1650	350 x 1200 x 280

> Comfort allrounder with external PMV kit



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMK-UP0031HPL-E	0,90	1,30	25/29/33	270/370/455	293 x 798 x 230
MMK-UP0051HPL-E	1,70	1,90	25/29/33	270/370/455	293 x 798 x 230
MMK-UP0071HPL-E	2,20	2,50	25/30/35	270/385/480	293 x 798 x 230
MMK-UP0091HPL-E	2,80	3,20	25/31/36	270/395/510	293 x 798 x 230
MMK-UP0121HPL-E	3,60	4,00	25/32/37	270/410/540	293 x 798 x 230
MMK-UP0151HPL-E	4,50	5,00	32/36/40	550/690/840	320 x 1050 x 250
MMK-UP0181HPL-E	5,60	6,30	32/37/41	550/720/900	320 x 1050 x 250
MMK-UP0241HPL-E	7,10	8,00	33/39/45	600/900/1200	320 x 1050 x 250

This is a special order item. Delivery time provided on request.

Ceiling unit

Elegant ambiance

Rounded edges for an elegant design. The large louver provides optimum air distribution and a high airflow rate. Even during heating operation, this optimum air circulation offers excellent comfort. The unit also achieves a high level of efficiency through the use of a new heat exchanger.



High airflow rate

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMC-UP0151HP-E	4,50	5,00	28/34/36	540/690/840	235 x 950 x 690
MMC-UP0181HP-E	5,60	6,30	28/35/37	540/720/960	235 x 950 x 690
MMC-UP0241HP-E	7,10	8,00	29/36/41	750/1020/1440	235 x 1270 x 690
MMC-UP0271HP-E	8,00	9,00	29/36/41	750/1020/1440	235 x 1270 x 690
MMC-UP0361HP-E	11,20	12,50	32/38/44	1020/1350/1860	235 x 1586 x 690
MMC-UP0481HP-E	14,00	16,00	35/41/44	1200/1530/1860	235 x 1586 x 690
MMC-UP0561HP-E	16,00	18,00	36/42/46	1260/1650/2040	235 x 1586 x 690

Cassette units

Perfect air distribution

With its low height, the cassette unit fits unobtrusively into any suspended ceiling. The louvers are individually controllable and ensure optimal air distribution with very quiet operation. A drain pump with 850 mm discharge head is incorporated into every cassette. A fresh air supply of up to 15% of the nominal airflow is also possible with an external fan – the connection port is pre-cut.



60x60 slim cassette

Suitable for Euro grid

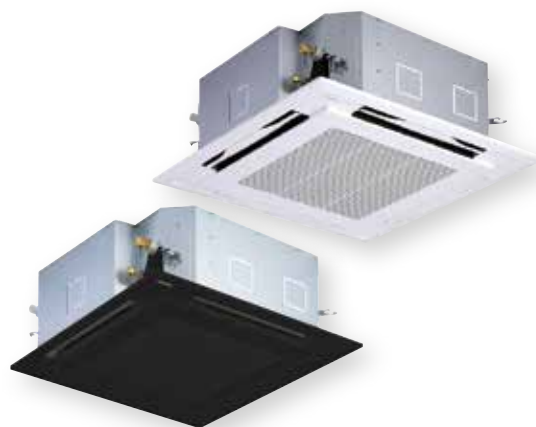
Flexible design with choice of BLACK or WHITE panel. The optional upgrade with a presence sensor can help to save energy (WHITE panel). The sensor registers when people are present. If there is no one in the room, the unit switches off automatically.

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMU-UP0051MHP-E	1,70	1,90	29/30/32	365/430	256 x 575 x 575
MMU-UP0071MHP-E	2,20	2,50	29/33/37	378/552	256 x 575 x 575
MMU-UP0091MHP-E	2,80	3,20	29/33/38	378/570	256 x 575 x 575
MMU-UP0121MHP-E	3,60	4,00	30/34/38	402/594	256 x 575 x 575
MMU-UP0151MHP-E	4,50	5,00	31/35/40	468/660	256 x 575 x 575
MMU-UP0181MHP-E	5,60	6,30	34/39/47	522/840	256 x 575 x 575

4-way standard cassette

➤ The 360° classic

Optimum 360° air distribution and individual comfort – even for large spaces with high capacity requirements. Panel is available in choice of black or white.



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMU-UP0091HP-E	2,80	3,20	27/29/30	680/730/800	256 x 840 x 840
MMU-UP0121HP-E	3,60	4,00	30/29/27	680/730/800	256 x 840 x 840
MMU-UP0151HP-E	4,50	5,00	27/29/31	790/830/930	256 x 840 x 840
MMU-UP0181HP-E	5,60	6,30	27/29/32	800/920/1250	256 x 840 x 840
MMU-UP0241HP-E	7,10	8,00	28/31/35	800/920/1290	256 x 840 x 840
MMU-UP0271HP-E	8,00	9,00	28/31/35	800/920/1290	256 x 840 x 840
MMU-UP0301HP-E	9,00	10,00	38/33/30	850/1100/1320	256 x 840 x 840
MMU-UP0361HP-E	11,20	12,50	32/38/43	1070/1430/1970	319 x 840 x 840
MMU-UP0481HP-E	14,00	16,00	33/38/46	1130/1430/2130	319 x 840 x 840
MMU-UP0561HP-E	16,00	18,00	33/40/46	1230/1520/2130	319 x 840 x 840

4-way SMART cassette

➤ Maximum efficiency meets design

4-way high-efficiency design for large capacities.
Further energy savings possible with presence sensor.



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMU-UP0091H-E	2,80	3,20	26/28/30	708/738/768/792/846	256 x 840 x 840
MMU-UP0121H-E	3,60	4,00	26/28/30	708/738/768/792/846	256 x 840 x 840
MMU-UP0151H-E	4,50	5,00	28/30/32	800/860/920/960/1060	319 x 840 x 840
MMU-UP0181H-E	5,60	6,30	31/33/36	940/1040/1100/1160/1260	319 x 840 x 840
MMU-UP0241H-E	7,10	8,00	35/37/41	1120/1210/1300/1440/1580	319 x 840 x 840
MMU-UP0271H-E	8,00	9,00	35/37/42	1250/1320/1380/1590/1770	319 x 840 x 840
MMU-UP0301H-E	9,00	10,00	37/39/44	1400/1450/1520/1770/1940	319 x 840 x 840
MMU-UP0361H-E	11,20	12,50	32/38/45	1260/1356/1596/1848/2184	319 x 840 x 840
MMU-UP0481H-E	14,00	16,00	33/39/46	1368/1470/1740/1998/2262	319 x 840 x 840
MMU-UP0561H-E	16,00	18,00	35/40/46	1404/1512/1782/2034/2262	319 x 840 x 840

This is a special order item. Delivery time provided on request.

2-way cassette

Wide capacity range

Ideal for long, narrow rooms;
available in 11 power levels.



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMU-UP0071WH-E	2,20	2,50	30/32/34	450/498/558	295 x 815 x 570
MMU-UP0091WH-E	2,80	3,20	30/32/34	450/498/558	295 x 815 x 570
MMU-UP0121WH-E	3,60	4,00	30/32/34	450/498/558	295 x 815 x 570
MMU-UP0151WH-E	4,50	5,00	30/33/35	450/534/600	295 x 815 x 570
MMU-UP0181WH-E	5,60	6,30	30/33/35	618/750/900	345 x 1180 x 570
MMU-UP0241WH-E	7,10	8,00	33/35/38	738/840/1050	345 x 1180 x 570
MMU-UP0271WH-E	8,00	9,00	33/35/38	738/840/1050	345 x 1180 x 570
MMU-UP0301WH-E	9,00	10,00	34/37/40	780/900/1260	345 x 1180 x 570
MMU-UP0361WH-E	11,20	12,50	36/39/42	1182/1434/1740	345 x 1600 x 570
MMU-UP0481WH-E	14,00	16,00	37/40/43	1230/1482/1800	345 x 1600 x 570
MMU-UP0561WH-E	16,00	18,00	39/42/46	1320/1578/2040	345 x 1600 x 570

1-way flat cassette

Air flow on one side from the design panel

Ultra-flat design with low installation height and plasma filter option. For low output requirements, also available with 0.9 kW cooling capacity. The optional presence sensor saves energy when there are no people in the room.



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMU-UP0031YHP-E	0,90	1,30	25/33/37	270/370/480	150 x 990 x 450
MMU-UP0051YHP-E	1,70	1,90	25/33/37	270/370/480	150 x 990 x 450
MMU-UP0071YHP-E	2,20	2,50	25/34/38	270/390/500	150 x 990 x 450
MMU-UP0091YHP-E	2,80	3,20	26/35/39	290/410/520	150 x 990 x 450
MMU-UP0121YHP-E	3,60	4,00	26/36/40	290/420/540	150 x 990 x 450
MMU-UP0151YHP-E	4,50	5,00	33/36/39	500/630/700	150 x 1180 x 450
MMU-UP0181YHP-E	5,60	6,30	33/37/40	500/650/800	150 x 1180 x 450
MMU-UP0241YHP-E	7,10	8,00	37/42/46	600/760/940	150 x 1180 x 450
MMU-UP0271YHP-E	8,00	9,00	41/44/47	720/860/1000	150 x 1180 x 450

Duct units

Invisible air conditioning

Whatever the shape of your room, duct units ensure a uniform temperature distribution over the entire space. The air is supplied into the room discretely via one or more air outlets – without drafts. A drain pump with 850 mm discharge head is integrated into all duct units with up to 16 kW cooling capacity.

Standard duct unit

➤ The invisible classic

Air supply is possible via the bottom or back side. An optional spigot flange is available. Also suitable for connecting textile air hoses.



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	External static pressure	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	Pa	mm
MMD-UP0051BHP-E	1,70	1,90	29/26/23	360/450/540	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0071BHP-E	2,20	2,50	23/26/29	360/450/540	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0091BHP-E	2,80	3,20	23/26/30	390/480/570	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0121BHP-E	3,60	4,00	23/26/30	390/480/570	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0151BHP-E	4,50	5,00	25/29/33	540/660/920	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0181BHP-E	5,60	6,30	25/29/33	540/660/920	30/40/50/65/80/ 100/120	275 x 700 x 750
MMD-UP0241BHP-E	7,10	8,00	27/31/36	870/1090/1320	30/40/50/65/80/ 100/120	275 x 1000 x 750
MMD-UP0271BHP-E	8,00	9,00	27/31/36	870/1090/1320	30/40/50/65/80/ 100/120	275 x 1000 x 750
MMD-UP0301BHP-E	9,00	10,00	27/31/36	960/1200/1450	30/40/50/65/80/ 100/120	275 x 1000 x 750
MMD-UP0361BHP-E	11,20	12,50	33/36/40	1380/1620/1920	30/40/50/65/80/ 100/120	275 x 1400 x 750
MMD-UP0481BHP-E	14,00	16,00	33/36/40	1500/1920/2350	30/40/50/65/80/ 100/120	275 x 1400 x 750
MMD-UP0561BHP-E	16,00	18,00	33/36/40	1500/1920/2350	30/40/50/65/80/ 100/120	275 x 1400 x 750





SSD super-slim duct unit

➤ For limited space, light & compact

Ultra-flat slim design. For low capacity requirements, also available with 0.9 kW. Integrated air filter & drain pump (350 mm).



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMD-UP0031SPHY-E	0,90	1,00	25/26/27/28/29	410/380/360	210 x 700 x 450
MMD-UP0051SPHY-E	1,70	1,90	26/27/28/29/30	450/410/380	210 x 700 x 450
MMD-UP0071SPHY-E	2,20	2,50	26/28/29/30/31	540/470/400	210 x 700 x 450
MMD-UP0091SPHY-E	2,80	3,20	26/28/29/31/32	570/500/430	210 x 700 x 450
MMD-UP0121SPHY-E	3,60	4,00	27/29/30/32/33	600/520/440	210 x 700 x 450
MMD-UP0151SPHY-E	4,50	5,00	28/29/30/31/33	690/640/550	210 x 900 x 450
MMD-UP0181SPHY-E	5,60	6,30	29/31/32/33/34	780/750/660	210 x 900 x 450
MMD-UP0241SPHY-E	7,10	8,00	30/32/33/35/36	1080/950/860	210 x 1100 x 450
MMD-UP0271SPHY-E	8,00	9,00	32/33/34/36/37	1140/980/910	210 x 1100 x 450



High-pressure duct unit

➤ With full power

The high static compression makes this unit most suitable for large buildings. Long-life air filter kit and drain pump (sizes 72 and 96) available as an option.



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	External static pressure	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	Pa	mm
MMD-UP0181HP-E	5,60	6,30	31/33/37	900/990/1100	50/75/100/125/150/175/200	298 x 1000 x 750
MMD-UP0241HP-E	7,10	8,00	31/34/38	960/1050/1200	50/75/100/125/150/175/200	298 x 1000 x 750
MMD-UP0271HP-E	8,00	9,00	38/41/43	1200/1350/1500	50/75/100/125/150/175/200	298 x 1000 x 750
MMD-UP0361HP-E	11,20	12,50	34/37/41	1340/1560/1920	50/75/100/125/150/175/200	298 x 1400 x 750
MMD-UP0481HP-E	14,00	16,00	38/41/44	1695/1980/2340	50/75/100/125/150/175/200	298 x 1400 x 750
MMD-UP0561HP-E	16,00	18,00	41/44/46	1920/2340/2760	50/75/100/125/150/175/200	298 x 1400 x 750
MMD-UP0721HP-E1	22,40	25,00	36/40/44	2500/3200/3800	50/83/117/150/183/217/250	448 x 1400 x 900
MMD-UP0961HP-E1	28,00	31,50	38/42/46	3500/4200/4800	50/83/117/150/183/217/250	448 x 1400 x 900

Fresh-air duct unit

➤ For fresh air preconditioning

Preheating or cooling function in combination with other indoor units. The drain pump is available as an option.



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	External static pressure	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	Pa	mm
MMD-UP0481HFP-E	14,00	8,90	31/32/35/37/38	760/930/1080	50/75/100/125/150/175/200	327 x 1430 x 750
MMD-UP0721HFP-E1	22,40	13,90	33/35/36/37/38	1200/1440/1680	50/75/100/125/150/175/200	477 x 1430 x 900
MMD-UP0961HFP-E1	28,00	17,40	33/35/36/38/39	1470/1800/2100	50/75/100/125/150/175/200	477 x 1430 x 900
MMD-UP1121HFP-E1	33,50	20,80	34/36/37/39/40	1770/2130/2520	50/75/100/125/150/175/200	477 x 1430 x 900
MMD-UP1281HFP-E1	40,00	25,20	35/37/38/40/42	2130/2580/3060	50/75/100/125/150/175/200	477 x 1430 x 900

This is a special order item. Delivery time provided on request.



TOSHIBA IN HOTELS

Holistic HOTEL climate solutions from TOSHIBA offer guests throughout the hotel a comfortable, pleasant stay with affordable operating costs for the owner. Efficiently planned overall solutions are an important component of sustainable and environmentally-friendly hotel management.

Hotel rooms

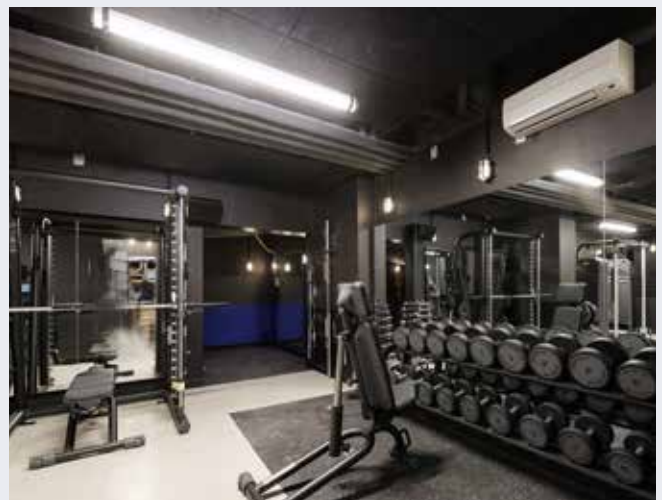
With local comfort remote controls, every guest can adapt the climate in their room to their own individual wishes and expectations. The set-back function clears all special requests, and restores the optimized basic settings. Window contacts and key-card readers reduce unnecessary operating times. High-wall units fit unobtrusively and quietly (almost unnoticed) into the interior. Duct units are entirely invisible.

Restaurant

In the restaurant, it is not only the dishes served and the attentive service that delight; the ambiance and indoor climate also contribute to the positive overall experience. TOSHIBA cassette units ensure optimum air quality while fitting unobtrusively into any suspended ceiling. The individually controllable louvers guarantee optimum air distribution with extremely quiet operation.

Kitchen

The kitchen personnel work wonders in order to spoil their guests with culinary highlights. A comfortable climate in the kitchen area increases productivity and enjoyment of the work. Duct units are the first choice for kitchens since they are very powerful, and offer flexible air intake and exhaust options.



Fitness and spa area

Fitness and spa areas not only have high temperature control requirements; they also need to be able to equalize the humidity. Three-pipe systems are especially suitable for these areas. For example, heat recovery allows them to use surplus energy for efficient hot water preparation.

Management

For management, the cost effectiveness of a hotel climate solution is of immense significance alongside the wellbeing and satisfaction of their guests. The energy consumption can be easily optimized via a central control, or via the building management system. Special TOSHIBA features such as energy monitoring make it even easier to maintain an overview of costs.

Conference and meeting rooms

These rooms require a productive working climate. Air conditioners bring fresh air and oxygen into the room. At the same time, they can filter out spores and allergens, and provide pure, clean air. An optional presence sensor saves energy when there are no people in the room.

Console unit

Suitable for any room

Smaller than a standard heater, but with flexible air outlet and the unique floor heating effect. An infrared remote control is supplied as standard.

Flexible set-up

- › Floor heating effect for warm feet
- › Silent mode function



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MML-UP0071NHP-E	2,20	2,50	26/32/38	282/366/510	600 x 700 x 220
MML-UP0091NHP-E	2,80	3,20	26/32/38	282/366/510	600 x 700 x 220
MML-UP0121NHP-E	3,60	4,00	29/34/40	324/804/552	600 x 700 x 220
MML-UP0151NHP-E	4,50	5,00	31/37/43	384/468/624	600 x 700 x 220
MML-UP0181NHP-E	5,60	6,30	34/40/47	426/528/726	600 x 700 x 220

Chassis unit

Individual covering

Coverings supplied by the customer to suit the interior ensure that the units integrate perfectly into the room.

Well concealed

- › Easy installation
- › Covering provided by the customer
- › With optional infrared remote control



TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MML-UP0071BH-E	2,20	2,50	32/34/36	300/400/460	600 x 745 x 220
MML-UP0091BH-E	2,80	3,20	32/34/36	300/400/460	600 x 745 x 220
MML-UP0121BH-E	3,60	4,00	32/34/36	300/400/460	600 x 745 x 220
MML-UP0151BH-E	4,50	5,00	32/34/36	460/600/740	600 x 1045 x 220
MML-UP0181BH-E	5,60	6,30	32/34/36	490/600/740	600 x 1045 x 220
MML-UP0241BH-E	7,10	8,00	33/37/42	640/790/950	600 x 1045 x 220



Floor standing unit

Space-saving

The slim design allows the unit to be positioned flexibly. The automatic swing mode distributes the air optimally – even when positioned in a corner of the room. The front panel has a recess with cover for fitting a remote control.

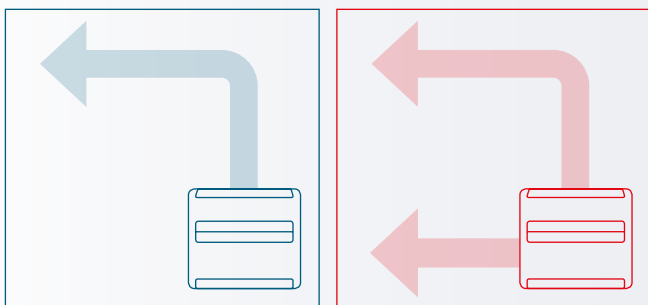


➤ Sleek and compact

- Auto swing of the louvers
- Wide air outlet
- Free setup possible

TYPE	Cooling capacity	Heating capacity	Sound pressure level (low/med/high)	Airflow	Dimensions (HxWxD)
	kW ❄️	kW 🔥	dB(A) ❄️	m³/h	mm
MMF-UP0151H-E	4,50	5,00	37/42/46	660/780/900	1750 x 600 x 210
MMF-UP0181H-E	5,60	6,30	37/42/46	660/780/900	1750 x 600 x 210
MMF-UP0241H-E	7,10	8,00	39/45/49	840/990/1200	1750 x 600 x 210
MMF-UP0271H-E	8,00	9,00	39/45/49	840/990/1200	1750 x 600 x 210
MMF-UP0361H-E	11,20	12,50	41/46/51	1380/1620/1920	1750 x 600 x 390
MMF-UP0481H-E	14,00	16,00	44/49/54	1560/1730/2160	1750 x 600 x 390
MMF-UP0561H-E	16,00	18,00	44/49/54	1560/1730/2160	1750 x 600 x 390

This is a special order item. Delivery time provided on request.



→ Cool head, warm feet

The two air outlets on the console ensure that the cooled air is guided upwards and then drops down. In heating operation, the warm air is output directly near the floor. Three fan speed steps offer tailored comfort.

DX-kit NEXT

➤ All control options – high capacities

Controls the heating or cooling mode of a connected DX heat exchanger via the room or exhaust air temperature, the supply air temperature, or via a 0 – 10 V signal from the ventilation control according to the output required.

- One controller can be configured for all control options
- Single valve kit up to 56 kW power (20 HP)
- One controller allows two valve kits to be connected in parallel
- This means that 112 kW (40 HP) can be achieved with just one refrigeration cycle
- Total outputs of up to 335 kW (120 HP) can be achieved
- For combination with SMMSu, SMMSe, and SHRMe outdoor units



Type of control	Supply air, exhaust air, or 0 – 10 V capacity control												Supply air or exhaust air control								
PMV control	Single							Twin					Double twin				Triple				
Number of CONTROLLERS	1							1					2				3				
Number of VALVE KITS	1							2					4 (2 x 2)				6 (3 x 2)				
Register version	1 cycle							1 cycle					2 cycles				3 cycles				
Total achievable capacity (kW)	22.40	28.00	33.50	40.00	45.00	50.40	56.00	67.00	80.00	89.50	100.50	112.00	134.00	156.50	179.00	201.00	223.50	234.50	268.00	301.50	335.00
Total achievable capacity (HP)	8	10	12	14	16	18	20	24	28	32	36	40	48	56	64	72	80	84	96	108	120

HRV Air-to-Air heat exchangers

Highly efficient fresh air supply with heat recovery

The cross-flow heat exchangers offer perfect heat recovery from the conditioned room air of up to 88%.

➤ Sustainable energy recovery

- Available with register for heating/cooling function
- Free cooling possible
- Optional CO₂/PM sensor for air quality display and functions



HRV heat exchanger, stand-alone



HRV heat exchanger with DX coil



Cooling capacity
(kW)

4.1 – 8.3



Heating capacity
(kW)

5.5 – 10.9



Sound pressure level
(dB(A))

20 – 43



Airflow
(m³/h)

150 – 1000



External static
pressure (Pascals)

16 – 220



Dimensions (mm)
H x W x D

778 x 735 x 278 mm
1593 x 1230 x 386 mm

This is a special order item. Delivery time provided on request.

Hot water module MT

Using hot water preparation for low-temperature systems, highly efficient room heating, or domestic hot water preparation is possible. The module can be integrated into all water systems.

➤ Additional hot water preparation

- Water outlet temperature of 25 to 50°C
- Supply water temperature control
- Two modules per system possible



TYPE	Heating capacity	Water outlet operating range (min.-max.)	Water flow rate (min.)	Dimensions (HxWxD)
	kW	°C	m³/h	mm
MMW-UP0271LQ-E	8,00	+25 / +50	1,17	580 x 400 x 250
MMW-UP0561LQ-E	16,00	+25 / +50	2,33	580 x 400 x 250

Hot water module HT

Efficient hot water preparation for high temperature systems. For combining with 3-pipe heat recovery systems and external hydronic components.

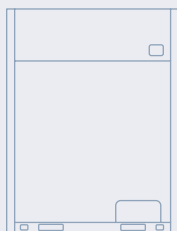
➤ High temperature hot water preparation

- Water outlet temperature of up to 80°C
- Compact cascade system
- For 3-pipe VRF systems (SHRMe only)



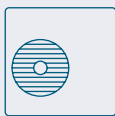
TYPE	Heating capacity	Water outlet operating range (min.-max.)	Water flow rate (min.)	Dimensions (HxWxD)
	kW	°C	m³/h	mm
MMW-AP0481CHQ-E	14,00	+50 / +82	2,00	700 x 900 x 320

VRF OUTDOOR UNITS



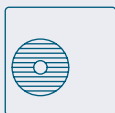
SMMSu
R410a

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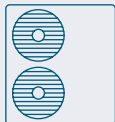
Mini SMMS SINGLE FAN
R410a

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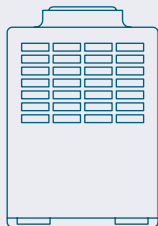
Mini SMMS
R32

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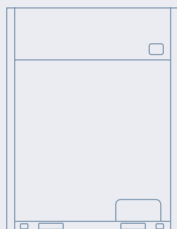
Mini SMMSe
R410a

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SHRMe
R410a

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SHRMa
R32

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SMMSu

2-pipe powerhouse

- › The current 2-pipe VRF generation with heating/cooling function
- › Leading the way in terms of connectivity, efficiency, reliability, and service-friendliness
- › Outdoor unit combinations up to 335 kW cooling and heating
- › Unique triple rotary compressor (16 – 20 HP)
- › Up to 128 indoor units can be connected per individual system



TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄️	kW 🔥	❄️	🔥	dB(A) ❄️	dB(A) 🔥	Pce.	mm
MMY-MUP0801HT8P-E	22,40	22,40	7,44	4,50	53	56	18	1690 x 990 x 780
MMY-MUP1001HT8P-E	28,00	28,00	7,73	4,78	55	58	22	1690 x 990 x 780
MMY-MUP1201HT8P-E	33,50	33,50	7,32	4,75	58	62	27	1690 x 990 x 780
MMY-MUP1401HT8P-E	40,00	40,00	7,05	4,60	58	62	31	1690 x 990 x 780
MMY-MUP1601HT8P-E	45,00	45,00	7,71	4,79	60	63	36	1690 x 1290 x 780
MMY-MUP1801HT8P-E	50,40	50,40	7,68	4,75	61	67	40	1690 x 1290 x 780
MMY-MUP2001HT8P-E	56,00	56,00	7,62	4,43	63	67	45	1690 x 1290 x 780
MMY-MUP2201HT8P-E	61,50	61,50	7,23	4,44	63	67	49	1690 x 1290 x 780
MMY-MUP2401HT8P-E1	67,00	64,50	6,87	4,17	63	67	54	1690 x 1290 x 780
MMY-UP2611HT8P-E	73,50	73,50	7,17	4,67	61,5	65,5	58	1690 x 2000 x 780
MMY-UP2811HT8P-E	80,00	80,00	7,05	4,60	64,2	65,5	63	1690 x 2000 x 780
MMY-UP3011HT8P-E	83,90	83,90	7,52	4,75	63,0	68,5	64	1690 x 2300 x 780
MMY-UP3211HT8P-E	89,50	89,50	7,50	4,55	64,5	68,5	65	1690 x 2300 x 780
MMY-UP3411HT8P-E	96,00	96,00	7,38	4,50	64,5	68,5	66	1690 x 2300 x 780
MMY-UP3611HT8P-E	100,50	100,50	7,01	4,38	64,5	68,5	67	1690 x 2300 x 780
MMY-UP3811HT8P-E	107,00	107,00	6,93	4,33	64,5	68,5	68	1690 x 2300 x 780
MMY-UP4011HT8P-E	112,00	112,00	7,62	4,43	66,5	70,5	69	1690 x 2600 x 780
MMY-UP4211HT8P-E	117,40	117,40	7,22	4,43	65,5	70,5	70	1690 x 2600 x 780
MMY-UP4411HT8P-E	123,00	123,00	7,21	4,30	88,5	70,5	71	1690 x 2600 x 780
MMY-UP4611HT8P-E	128,50	128,50	7,04	4,31	89,5	70,5	72	1690 x 2600 x 780
MMY-UP4811HT8P-E	134,00	134,00	6,87	4,17	66,5	70,5	73	1690 x 2600 x 780
MMY-UP5011HT8P-E	140,50	140,50	7,02	4,44	66,5	70,5	74	1690 x 3310 x 780
MMY-UP5211HT8P-E	147,00	147,00	6,96	4,41	65,5	69,5	75	1690 x 3310 x 780
MMY-UP5411HT8P-E	152,00	152,00	7,49	4,47	67,0	71,0	76	1690 x 3610 x 780
MMY-UP5611HT8P-E	156,50	156,50	7,23	4,41	67,0	71,0	77	1690 x 3610 x 780
MMY-UP5811HT8P-E	163,00	163,00	7,19	4,37	67,0	71,0	78	1690 x 3610 x 780
MMY-UP6011HT8P-E	167,50	167,50	6,95	4,30	67,0	71,0	79	1690 x 3610 x 780
MMY-UP6211HT8P-E	174,00	174,00	6,29	4,27	67,0	71,0	80	1690 x 3610 x 780
MMY-UP6411HT8P-E	179,00	179,00	7,34	4,34	67,0	71,0	81	1690 x 3910 x 780



TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄️	kW 🔥	❄️	🔥	dB(A) ❄️	dB(A) 🔥	Pce.	mm
MMY-UP6611HT8P-E	184,50	184,50	7,21	4,35	68.0	72.0	82	1690 x 3910 x 780
MMY-UP6811HT8P-E	190,00	190,00	7,09	4,26	68.0	72.0	83	1690 x 3910 x 780
MMY-UP7011HT8P-E	195,50	195,50	6,98	4,26	68.0	72.0	84	1690 x 3910 x 780
MMY-UP7211HT8P-E	201,00	201,00	6,87	4,17	68.0	72.0	85	1690 x 3910 x 780
MMY-UP7411HT8P-E	207,50	207,50	6,97	4,36	68.0	72.0	86	1690 x 4620 x 780
MMY-UP7611HT8P-E	214,00	214,00	6,93	4,33	67.5	71.5	87	1690 x 4620 x 780
MMY-UP7811HT8P-E	219,00	219,00	7,30	4,39	68.5	72.5	88	1690 x 4620 x 780
MMY-UP8011HT8P-E	223,50	223,50	7,14	4,34	68.5	72.5	90	1690 x 4620 x 780
MMY-UP8211HT8P-E	230,00	230,00	7,10	4,32	68.5	72.5	92	1690 x 4620 x 780
MMY-UP8411HT8P-E	234,50	234,50	6,95	4,26	68.5	72.5	94	1690 x 4620 x 780
MMY-UP8611HT8P-E	241,00	241,00	6,91	4,25	68.5	72.5	96	1690 x 4620 x 780
MMY-UP8811HT8P-E	246,00	246,00	7,21	4,30	68.5	72.5	98	1690 x 5220 x 780
MMY-UP9011HT8P-E	251,50	251,50	7,12	4,30	69.5	73.5	100	1690 x 5220 x 780
MMY-UP9211HT8P-E	257,00	257,00	7,03	4,24	69.5	73.5	102	1690 x 5220 x 780
MMY-UP9411HT8P-E	262,50	262,50	6,95	4,24	69.5	73.5	104	1690 x 5220 x 780
MMY-UP9611HT8P-E	268,00	268,00	6,87	4,17	69.5	73.5	106	1690 x 5220 x 780
MMY-UP9811HT8P-E	274,50	274,50	6,95	4,31	69.5	73.5	108	1690 x 5930 x 780
MMY-UP10011HT8P-E	281,00	281,00	6,94	4,30	69.0	73.0	110	1690 x 5930 x 780
MMY-UP10211HT8P-E	286,00	286,00	7,20	4,34	69.5	73.0	112	1690 x 6230 x 780
MMY-UP10411HT8P-E	290,50	290,50	7,08	4,30	69.5	73.0	114	1690 x 6230 x 780
MMY-UP10611HT8P-E	297,00	297,00	7,04	4,29	69.5	73.0	116	1690 x 6230 x 780
MMY-UP10811HT8P-E	301,50	301,50	6,93	4,24	69.5	73.0	118	1690 x 6230 x 780
MMY-UP11011HT8P-E	308,00	308,00	6,90	4,23	69.5	73.0	120	1690 x 6230 x 780
MMY-UP11211HT8P-E	313,00	313,00	7,13	4,28	69.5	73.0	122	1690 x 6530 x 780
MMY-UP11411HT8P-E	318,50	318,50	7,07	4,28	70.0	74.0	124	1690 x 6530 x 780
MMY-UP11611HT8P-E	324,00	324,00	7,00	4,22	70.0	74.0	126	1690 x 6530 x 780
MMY-UP11811HT8P-E	329,50	329,50	6,93	4,23	70.0	74.0	128	1690 x 6530 x 780
MMY-UP12011HT8P-E	335,00	335,00	6,87	4,17	70.0	74.0	128	1690 x 6530 x 780

MiNi SMMS SINGLE FAN

➤ 2-pipe in compact form

- 2-pipe VRF system: cooling up to 14 kW or heating up to 16 kW
- 1-phase available
- Twin-rotary compressor
- Up to 10 indoor units can be connected



TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄️	kW 🔥	❄️	🔥	dB(A) ❄️	dB(A) 🔥	Pce.	mm
MCY-MHP0406HT-E	12,10	12,50	8,08	3,83	54	57	8	910 x 990 x 390
MCY-MHP0506HT-E1	14,00	16,00	7,77	3,88	54	58	10	910 x 990 x 390

MiNi SMMS

➤ Low GWP alternative in compact form

- The new generation R32 MiNi VRF with comprehensive safety concept
- Small, refined & efficient – simple to use
- Optimum protection of the environment: made in Europe with low GWP refrigerant
- Quiet: 3-stage night operation to reduce noise
- For 2-pipe systems up to 15.5 kW cooling & heating
- Up to 13 indoor units can be connected
- 1-phase available



TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄️	kW 🔥	❄️	🔥	dB(A) ❄️	dB(A) 🔥	Pce.	mm
MCY-MUG0401HSW-E	12,10	12,10	9,98	5,21	52	54	8	1050 x 1010 x 370
MCY-MUG0501HSW-E	14,00	14,00	9,21	4,93	53	55	10	1050 x 1010 x 370
MCY-MUG0601HSW-E	15,50	15,50	8,80	4,80	54	56	13	1050 x 1010 x 370

MiNi SMMSe

➤ 2-pipe in compact form

- 2-pipe VRF system: Cooling or heating up to 28 kW
- 3-phase available
- Twin-rotary compressor
- Up to 13 indoor units can be connected



TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄️	kW 🔥	❄️	🔥	dB(A) ❄️	dB(A) 🔥	Pce.	mm
MCY-MHP0404HS8-E	12,10	12,50	-	4,19	49	52	8	1235 x 990 x 390
MCY-MHP0504HS8-E	14,00	16,00	-	4,25	50	53	10	1235 x 990 x 390
MCY-MHP0604HS8-E	15,50	18,00	-	4,38	51	54	13	1235 x 990 x 390
MCY-MHP0806HS8-E	22,40	22,40	8,09	4,50	58	59	12	1740 x 990 x 390
MCY-MHP1006HS8-E	28,00	28,00	7,40	4,38	59	60	16	1740 x 990 x 390



SHRMe

➤ Simultaneous heating & cooling

- 3-pipe VRF system: simultaneous heating & cooling
- Highest possible efficiency due to heat recovery
- Outdoor unit combinations up to 151 kW cooling and heating
- Two twin-rotary compressors per unit
- Up to 64 indoor units can be connected per individual system



TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄️	kW 🔥	❄️	🔥	dB(A) ❄️	dB(A) 🔥	Pce.	mm
MMY-MAP0806FT8P-E	22,40	22,40	6,07	3,64	59	61	18	1830 x 990 x 780
MMY-MAP1006FT8P-E	28,00	28,00	6,03	3,53	59	61	22	1830 x 990 x 780
MMY-MAP1206FT8P-E	33,50	33,50	5,94	3,71	60	62	27	1830 x 1210 x 780
MMY-MAP1406FT8P-E	40,00	40,00	5,61	3,57	62	64	31	1830 x 1210 x 780
MMY-MAP1606FT8P-E	45,00	45,00	5,72	3,50	61	62	36	1830 x 1600 x 780
MMY-MAP1806FT8P-E	50,40	50,40	5,89	3,69	61	62	40	1830 x 1600 x 780
MMY-MAP2006FT8P-E	56,00	56,00	5,64	3,59	61	62	41	1830 x 1600 x 780
MMY-AP2216FT8P-E	61,50	61,50	5,99	3,63	63,0	65,0	49	1830 x 2220 x 780
MMY-AP2416FT8P-E	68,00	68,00	5,81	3,56	64,0	66,0	54	1830 x 2220 x 780
MMY-AP2616FT8P-E	73,50	73,50	5,77	3,63	64,5	66,5	58	1830 x 2440 x 780
MMY-AP2816FT8P-E	80,00	80,00	5,61	3,57	66,5	67,5	63	1830 x 2440 x 780
MMY-AP3016FT8P-E	85,00	85,00	5,67	3,54	65,0	66,5	64	1830 x 2830 x 780
MMY-AP3216FT8P-E	90,40	90,40	5,77	3,58	65,0	66,5	64	1830 x 2830 x 780
MMY-AP3416FT8P-E	95,40	95,40	5,81	3,55	64,5	65,5	64	1830 x 3220 x 780
MMY-AP3616FT8P-E	100,80	100,80	5,89	3,59	64,5	65,5	64	1830 x 3220 x 780
MMY-AP3816FT8P-E	106,40	106,40	5,76	3,59	64,5	65,5	64	1830 x 3220 x 780
MMY-AP4016FT8P-E	112,00	112,00	5,64	3,59	64,5	65,5	64	1830 x 3220 x 780
MMY-AP4216FT8P-E	120,00	120,00	5,61	3,57	67,0	69,0	64	1830 x 3670 x 780
MMY-AP4416FT8P-E	125,00	125,00	5,65	3,55	66,5	68,5	64	1830 x 4060 x 780
MMY-AP4616FT8P-E	130,40	130,40	5,72	3,58	66,5	68,5	64	1830 x 4060 x 780
MMY-AP4816FT8P-E	135,40	135,40	5,77	3,56	66,5	68,0	64	1830 x 4450 x 780
MMY-AP5016FT8P-E	140,80	140,80	5,83	3,59	66,5	68,0	64	1830 x 4450 x 780
MMY-AP5216FT8P-E	145,80	145,80	5,84	3,56	66,0	67,0	64	1830 x 4840 x 780
MMY-AP5416FT8P-E	151,20	151,20	5,89	3,59	66,0	67,0	64	1830 x 4840 x 780



SHRMa

➤ 2-pipe or 3-pipe in a single system

- The new generation of R32 outdoor units with comprehensive safety concept.
- Contemporary – efficient – easy to use.
- Can be configured for 2-pipe or 3-pipe operation as required
- For stand-alone systems up to 67 kW cooling and heating
- Up to 54 indoor units can be connected



TYPE	Cooling capacity	Heating capacity	Energy efficiency SEER	Energy efficiency SCOP	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Connectable indoor units (max.)	Dimensions (HxWxD)
	kW ❄️	kW 🔥	❄️	🔥	dB(A) ❄️	dB(A) 🔥	Pce.	mm
MMY-SUG0801MT8P-E	22,40	22,40	8,90	4,44	53	56	-	1690 x 990 x 780
MMY-SUG1001MT8P-E	28,00	28,00	8,69	4,67	55	58	-	1690 x 990 x 780
MMY-SUG1201MT8P-E	33,50	33,50	8,23	4,62	58	62	-	1690 x 990 x 780
MMY-SUG1401MT8P-E	40,00	40,00	8,08	4,30	58	63	-	1690 x 990 x 780
MMY-SUG1601MT8P-E	45,00	45,00	8,64	4,65	60	64	-	1690 x 1290 x 780
MMY-SUG1801MT8P-E	50,40	50,40	8,32	4,49	61	67	-	1690 x 1290 x 780
MMY-SUG2001MT8P-E	56,00	56,00	8,29	4,29	63	67	-	1690 x 1290 x 780
MMY-SUG2201MT8P-E	61,50	61,50	7,88	4,26	64	67	-	1690 x 1290 x 780
MMY-SUG2401MT8P-E	67,00	67,00	6,66	4,04	64	69	-	1690 x 1290 x 780

Leak detector and flow boxes or safety boxes are mandatory!

THE NEW VRF GENERATION.

SHRMu



Coming
soon



SHRMu is the successor to SHRMa and comes packed with new technologies, proven core strengths, and an array of enhancements.



TOSHIBA AND INDUSTRY

Process refrigeration is used in many different industries. From food production and the cooling of machinery and equipment through to storerooms and warehouses.

VRF stands for **Variable Refrigerant Flow**. No matter how large the building is, the system regulates the flow of refrigerant perfectly, so that each indoor unit is supplied with exactly the required amount of refrigerant at all times. A VRF system heats and cools – sometimes both at the same time. 3-pipe VRF systems are advantageous in buildings where on the one hand thermal loads are to be dissipated and at the same time (or with the change of seasons) space heating is to be realized with it.

Production

In some sectors, air conditioning systems are not only needed to even out temperature fluctuations caused by external effects, but they are also used to dissipate the waste heat from production facilities. Especially where hard physical labor is required, the right climate affords significant relief, and ensures smooth production workflows, safety, and comfort.

Plant cooling

TOSHIBA commercial systems are excellent for plant and process cooling. For extremely large capacities into the megawatt range, the USX chillers are the right solution.

Administration

In office areas, a pleasant temperature ensures efficient desk work. Duct units, cassettes, or high-wall units adapted to the individual situation are generally used.



Ancillary rooms

Even the ancillary rooms at production facilities, such as recreation rooms, canteens, kitchens, or office cubicles, require their own climate. The complex and flexible control systems, together with the VRF units, easily fulfill these individual requirements.

Warehouse

The air conditioning of storerooms is not just a matter of comfort; it is essential to protect stock against premature aging or corrosion, contamination and spoiling. Air conditioning systems purify the air, control its temperature, and regulate humidity.



CONTROLS

Your individual needs taken care of

High quality air conditioners are naturally important but the controls also play a significant part in the ease-of-use and efficiency of the system. Optimized settings create the perfect ambiance for every room to suit individual requirements. As well as local control options, TOSHIBA also offers a broad selection of central controls, or the option to integrate these into the building management system.



One control system for all units



Control via app or browser



Integration in existing systems



Connection of external modules

Controls at a glance

Local controls

Wired remote controls (max. cable length 500 m) or wireless infrared remote controls are used to control single units or groups of up to 16 indoor units. Additional modules allow location independent control via apps or the Internet.

- › Wired remote controls
- › Infrared remote controls
- › WiFi solutions
- › Control options

Central controls

Complex air conditioners can be controlled from any central location, such as the reception area or plant room. Cable lengths of up to 2,000 m are possible, and up to 2,048 indoor units can be controlled.

- › Central remote control
- › Touchscreen controller
- › Smart Manager Touch



➤ External control options

A range of options can be used to connect external units, issue messages or alarms, facilitate noise reduction or redundancy switching – virtually any control requirement can be met.

- Leak detection system
- Accessory modules
- CN connector
- Redundancy box

➤ Building management systems

TOSHIBA air conditioners can be networked with all standard building management systems, making air conditioning an integral part of the central building control.

- LonWorks®
- Modbus®
- BACnet®
- Coolmaster
- KNX®

Local controls



Simplified wired remote control:

Perfect for hotel rooms.



Standard wired remote control:

Controls all indoor unit functions, 168 hours ON/OFF timer.



Compact wired remote control:

Slim version of the standard wired remote control.



Wired remote control:

As for the standard wired remote control, but with 8 time events/day and 6 parameters/event.



Local touch lite remote control:

Compact local touchscreen remote control in smartphone format with customizable screens and logos.



Remote temperature sensor:

When an exact temperature measurement is not possible via the sensor in the indoor unit or in the wired remote control.



IR remote control + receiver kits:

Scope of functions as for standard wired remote control, but wireless. For panel installation or external.



Design comfort

Wired remote control:

With or without Bluetooth support



TO-RC-KNX®:

Module for controlling an indoor unit via the KNX® bus.



Remote On/Off + Window contact module:

Potential-free contact for external On/Off and window contact input.



Control board:

3 analog and 3 digital inputs, 3 digital outputs for external control, alarms, and messages (for ceiling units).



Operating, error signal, remote On/Off module:

Operating and error signal output, On/Off control, plus error message from up to 16 indoor units via potential-free contacts.



Analog interface:

Controls unit functions via 0 – 10 V signals or fixed resistors.



Modbus® interface:

Control of unit functions via a Modbus register. Up to 64 interfaces are possible.



BACnet® 1:1 interface:

Control of up to 16 indoor units. For integration with a locally provided BACnet® system.



WiFi 1:1 interface:

Control of an indoor unit using a smartphone via the TOSHIBA Home AC Control app.

Central controls



Touchscreen controller with energy billing:

Control of up to 512 indoor units. 12.1" multi-touchscreen, operation via PC also possible. Energy monitoring and billing. TCS Net Relay interface required (up to 8 units).



Smart Manager TOUCH with energy billing:

Control of up to 256 indoor units with intuitive operation via 7" color touch screen interface.



Central remote control:

Compact central control unit for controlling up to 64 indoor units. Weekly timer can be connected.

Building management systems



Modbus® interface:

Control of up to 64 indoor units. For integration with a locally provided Modbus® system.



KNX®-16/64:

Modules for controlling up to 16/64 indoor units via the KNX® bus.



Coolmaster / Coolmaster Pro:

Central control for up to 256 indoor units. Small touchscreen user interface. Control via smartphone, tablet, or PC possible.



LonWorks® interface:

Control of up to 64 indoor units. For integration with a locally provided LonWorks® building management system (requires a LonWorks® network card).



BACnet® interface:

Control of up to 128 indoor units. For integration with a locally provided BACnet® system.



Analog interface:

Control of up to 64 indoor units. Control via 0 – 10 V signals or fixed resistors. 8 analog and 2 digital inputs. 5 analog and 5 digital outputs.



External control options



Redundancy box:

Switches between two indoor units (or groups) in the event of a fault. Switch-over dependent on operating hours; temperature-dependent activation of second system. Plug & Play, LAN port, monitoring via web browser possible.



Multi-function module:

Two potential-free contact inputs; one function per module: external master ON/OFF, night operation (noise reduction), operating mode priority heating / cooling.



Current limiting / load shedding module:

Two dry contact inputs. External ON/OFF; capacity reduction.



Output module:

Three potential-free contact outputs. Operating signal, error signal, operating time compressors 1 and 2, output capacity in 8 stages.



CN connector with cable:

For indoor units; various input/output functions via locally provided equipment.



Leak detection & isolation system:

Leak detection with visual and audible alarms, conforms to EN378; additional separation of the affected indoor unit possible.

KEY EFFICIENCY FIGURES



The efficiency of air conditioning systems and heat pumps is expressed by the coefficient of performance.

The **coefficient of performance** is the ratio of cooling or heating capacity generated for the electrical power used. A high coefficient of performance indicates high energy efficiency. A COP value of 4.0, for example, means that 4 kW of heating capacity is generated from 1 kW of electricity – four times as much.



EER

Energy Efficiency Ratio

Coefficient of performance for cooling mode



COP

Coefficient Of Performance

The coefficient of performance for heating mode

With air conditioning systems, the EER indicates the coefficient of performance in cooling mode, while the COP is the coefficient of performance in heating mode. These figures are only related to a single operating point, so further coefficients of performance were defined especially for air conditioning. These take account of the part load and any climatic influences.



SEER

Seasonal Energy Efficiency Ratio

Means of determining the coefficient of performance over one year for cooling mode

- › Includes additional seasonal factors
- › Measuring points are +20, +25, +30, and +35°C



SCOP

Seasonal Coefficient Of Performance

Means of determining the coefficient of performance over one year for heating mode

- › Includes additional seasonal factors
- › Measuring points are +12, +7, +2, and -7°C

For air conditioning systems and heat pumps, the coefficient of performance over one year is called SEER in cooling mode and SCOP in heating mode; it takes account of temperature fluctuations over the course of the year.



CHILLER & HEATPUMP UNIVERSAL SMART X

➤ **The new R32 dimension in cooling & heating**

THE 8 SMART FEATURES

Even at first glance, the new UNIVERSAL SMART X from TOSHIBA really looks the part. With its compact, modular form and eye-catching X design, it fits into any installation location. To save space, up to 128 modules may be arranged in series to provide a total cooling capacity of up to 25,600 kW. The modular structure and perfect part load characteristics mean that the system can achieve this enormous capacity in a theoretically infinite number of increments from 5% of an individual unit up to the maximum capacity.

The 8 smart features show how the intelligent system design leads to considerable savings in terms of space required and energy resources, while offering perfect reliability.



Twin-rotary compressor: Infinitely variable from 5 – 100%

Energy-efficient control in the part load range up to 5% thanks to the proven TOSHIBA twin-rotary compressor



150 kW – 25.6 MW capacity range with modular scalability

Heating and cooling output of up to 25,600 kW by combining modules.



Operational reliability due to modular structure

The 4-in-1 module concept translates to maximum reliability and redundancy



Space-saving X design

The distinct X design optimizes air flow and takes up less installation space than conventional systems



High efficiency factor

Lower investment and operating costs thanks to reduction of the connected electrical load as standard



Broad operating range

The USX reliably delivers heating and cooling all year round – even under extreme usage conditions



Prompt availability all year-round from stock in Vienna

Standardized unit configuration ensures year-round availability from the warehouse in Vienna



WiFi connection

Simple system monitoring via mobile app

Our stock models

200 KW COOLING ONLY – BRINE, 3.7 KW PUMP

Type RUAGP561C3R8E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS		
RUAGP561C3R8E	TOSHIBA USX chiller	200 kW / 70 HP	Brine model	Cooling only	Basic EER	Integrated pump 3.7 kW

Controller (optional, one required)

RBP-MC003SSRE	Module controller	without Modbus
RBP-MC003SSRDE	Module controller	with Modbus

Most suitable for

- ☒ Industry
- ☒ Air handling units
- ☒ Process cooling
- ☒ Hospitals

200 KW COOLING ONLY – WATER / BRINE, 2.2 KW PUMP

Type RUAGP561C28E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS		
RUAGP561C28E	TOSHIBA USX chiller	200 kW / 70 HP	Water / brine model	Cooling only	Basic EER	Integrated pump 2.2 kW

Controller (optional, one required)

RBP-MC003SSE	Module controller	without Modbus
RBP-MC003SSDE	Module controller	with Modbus

Most suitable for

- ☒ Air handling units
- ☒ Hotels
- ☒ Technical servers
- ☒ Shopping centers & malls
- ☒ Office buildings
- ☒ Hospitals
- ☒ Technical cooling

200 KW HEAT PUMP, BASIC HEATING – WATER / BRINE, 2.2 KW PUMP

Type RUAGP561H28E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS			
RUAGP561H28E	TOSHIBA USX chiller	200 kW / 70 HP	Water / brine model	Heating & cooling	Basic EER	Basic heating	Integrated pump 2.2 kW

Controller (optional, one required)

RBP-MC003SSE	Module controller	without Modbus
RBP-MC003SSDE	Module controller	with Modbus

Most suitable for

- ☒ Air handling units
- ☒ Hotels
- ☒ Shopping centers & malls
- ☒ Offices
- ☒ Hospitals

180 KW HEAT PUMP, HiHEATING – WATER / BRINE, 2.2 KW PUMP

Type RUAGP511F28E stock model

ITEM NUMBER	DESIGNATION			ADD-ONS			
RUAGP511F28E	TOSHIBA USX chiller	180 kW / 60 HP	Water / brine model	Heating & cooling	Basic EER	HiHeating	Integrated pump 2.2 kW

Controller (optional, one required)

RBP-MC003SSFDE	Module controller	without Modbus
RBP-MC003SSFDE	Module controller	with Modbus

Most suitable for

- ☒ Air handling units
- ☒ Hotels
- ☒ Shopping centers & malls
- ☒ Offices
- ☒ Hospitals



ACCESSORIES REQUIRED

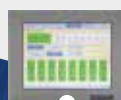
ITEM NUMBER	DESIGNATION	ADD-ONS
RBP-MC003SSE	TOSHIBA USX chiller, module controller (MC)	For basic heating, water, water / brine model
RBP-MC003SSDE	TOSHIBA USX chiller, module controller (MC)	For basic heating, water, water / brine model, including Modbus interface
RBP-MC003SSRE	TOSHIBA USX chiller, module controller (MC)	For basic heating, brine model
RBP-MC003SSRDE	TOSHIBA USX chiller, module controller (MC)	For basic heating, brine model, including Modbus interface
RBP-MC003SSFDE	TOSHIBA USX chiller, module controller (MC)	For HiHeating, water, water / brine model
RBP-MC003SSFDE	TOSHIBA USX chiller, module controller (MC)	For HiHeating, water, water / brine model, including Modbus interface

OPTIONS

ITEM NUMBER	DESIGNATION	ADD-ONS
RBP-GC004TP-E	Group controller (GC)	For combinations of up to 8 groups of 16 combined modules
RBP-RC001-E	Group controller COMPACT (GCC)	Compact central controller for module/group combinations
RBP-BT923TYS-E	Connection fitting kit	For connecting 2 modules to the upper frame
RBP-RTHS-E	External sensor	Additional LWT temperature sensor
RBP-SDCD-E	SD card for Flash Monitor	WiFi card for using the Flash Monitor app on an Android tablet
RBP-FL030E-E	Flange kit for hood and net installation	For installing weatherproofing equipment
RBP-BG901S-E	Fin guard kit	Fin guard for the 4 air heat exchangers in a module
RBP-CPB	Basic corrosion protection	
RBP-CPH	Heavy corrosion protection	
RBP-ACOMM	Support for commissioning the system	
RBP-LDT	Large ΔT specification	Increased ΔT between EWT/LWT: $\Delta T = 10$ to 16 K
RBP-HMS	Heat machine specification	Heating only model
RBP-SSWSCV	Stainless steel water strainer & check valve	Water strainer and check valve made from stainless steel
RBP-SSWP	Special pump specification	Water pump made from stainless steel
RBP-FSU	Fast start-up specification	Allows the system to recover 100% of the thermal output capacity in 50% of the standard time



One module controller can control up to 16 individual modules.



Group controller COMPACT

The group controller can control up to 8 groups, each consisting of up to 16 individual modules.

Please contact your TOSHIBA specialist partner for further information.





LIST OF IMAGES

We would like to take this opportunity to express our gratitude for the support and reference images provided. They give potential customers a realistic impression of our products and help us to strengthen the TOSHIBA brand.

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TOSHIBA



HOME

Your home – Your climate.



2 – 10 kW

TOSHIBA's innovative air conditioning systems were specially developed to ensure your wellbeing in your home, and its progressive technology offers comfort 365 days a year. Quiet operation, air filtering, and purification are just some of the benefits for greater comfort in your home. An air conditioning system is also the perfect heating solution, especially at season changes.

ESTIA

The Air-to-Water heat pump
The warmth of the future.



4 – 14 kW

High quality and efficiency in a space-saving format. The ESTIA air-to-water heat pump is extremely effective and is ideal for heating, hot water preparation, and cooling in your home.

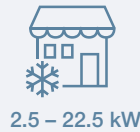
Heating with heat from the air – environmentally friendly, cost-effective, and efficient.



Expertise in every sector –
air conditioning systems and heat pumps for cooling and heating



LIGHT BUSINESS



2.5 – 22.5 kW

The performance you need.
The comfort you expect.

With its versatility, the RAV single-room solutions are perfect for 24-hour continuous operation to maintain a precisely defined room climate – from small server rooms to large stores. Up to four indoor units can be combined for optimum air distribution and set to heat or cool the room as desired, so they can be operated all year round.



BUSINESS

Plan for excellence.
Cool excellently.



12.1 – 335 kW

Multi-room solutions comprise air conditioning systems for complex installations in large structures such as office buildings, shopping malls, or hotels. Huge system flexibility with piping lengths of 1200 m and up to 128 indoor units leave no wishes unmet. The system also allows independent cooling and heating at the same time in different rooms or areas of buildings.

CHILLERS

Cooling & heating in
the big leagues.



150 kW – 25.6 MW

TOSHIBA's USX chillers represent a new dimension in cooling and heating generation.

If the capacity required exceeds the technical and financial limits of direct evaporation systems, then water-based systems are used.



TOSHIBA

We advise you personally

YOUR CERTIFIED TOSHIBA AIR CONDITIONING PARTNER

TOSHIBA air conditioning partner:

Get quality and expertise with TOSHIBA air conditioning systems and heat pumps.

In addition to premium products, you'll benefit from a full range of consulting, planning, installation, and maintenance services from highly qualified air conditioning system specialists. Count on an optimum climate from the experts!

Flexibility for every application

TOSHIBA offers solutions for every requirement, from your home and business to industrial applications. Contact your TOSHIBA air conditioning partner or visit our website to find out more.



**For more information:
Visit our website!**

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