TOSHIBA

2- or 3-pipe in one system

SHRMa R32

Highlights

Stand-alone outdoor units up to 24 HP (67 kW)
For refrigerant R32, can be used in 2- or 3-pipe operation
Comprehensive and simple safety concept
SEER efficiency values up to 8.9 - SCOP efficiency values up to 4.6

Stand-alone VRF 2-/3-pipe outdoor unit for cooling and/or heating operation with a wide performance spectrum. For combination with VRF indoor units, according to Selection-Tool design software.

Performance

- SEER values up to 8.9
- SCOP values up to 4.6
- Optimized R32 refrigeration circuit enables the lowest refrigerant quantities
- Outstanding energy and cost efficiency
- Suitable for monovalent heating operation
- Hi-Power fan unit optimizes the air flow
- Super-efficient split heat exchanger
- Defrosting in heating mode without loss of comfort
- Maximum operational reliability thanks to auto-backup

Flexibility

- Maximum piping lengths of up to 500 m
- Maximum height differences of up to 110 m
- Up to 54 indoor units can be connected to one stand-alone outdoor unit
- Capacities of up to 67 kW available with just one outdoor unit module
- Flexible control options for all applications
- Night operation: Quiet operation protects people and the environment
- System diversity up to 200%
- Simple system design with Selection-Tool software

Safety

- Safety concept in accordance with IEC 60335-2-40 (Ed.6)
- Simple application according to design recommendation

Technical details

- All modules can be used in 3-wire operation
- 8, 10, 12 hp modules can be used for 2-pipe operation
- One A3 twin rotary piston compressor (8-14 hp)
- Two A3 twin rotary piston compressors (16-24 hp)
- Liquid injection technology
- Dual Cane technology with carbon coating
- Auto-backup operation
- Uninterrupted heating operation for up to 5 hours
- Ultra-short defrost cycles of up to 3.5 minutes
- Intelligent refrigerant management ensures optimum supply to all indoor units, regardless of their position in the building
- Shortest oil recovery cycles thanks to intelligent oil management algorithms
- Fast TU2C-Link system bus with 19,200 bps
- The wireless NFC WaveTool function simplifies commissioning, service and system monitoring with Android and iOS smartphones
- The DynaDoctor service tool for convenient recording, monitoring and diagnostics as a PC application can be connected to outdoor or indoor units via USB
- Optional TCB-SS1UU-E service link adapter enables data logging to micro SDHC card (included, 8 GB) even without a PC

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Technical data			MMY-SUG1001MT8P-E
Capacity code	HP		10
Cooling capacity	kW	❄	28,00
Power consumption (min./nom./max.)	kW	❄	6,83
Energy efficiency EER	W/W	❄	4,10
Energy efficiency SEER		❄	8,69
Energy efficiency ETAs	%	❄	344,6
Running current	A	❄	11,50
Heating capacity	kW	☀	28,00
Power consumption (min./nom./max.)	kW	☀	6,22
Energy efficiency COP	W/W	☀	4,50
Energy efficiency SCOP		☀	4,67
Energy efficiency ETAs	%	☀	183,8
Running current	A	☀	10,60
Airflow	m^3/h		10500
External static pressure	Pa		80
Sound pressure level (low/med/high)	dB(A)	❄	55
Sound pressure level (low/med/high)	dB(A)	☀	58
Sound power level	dB(A)	❄	75
Sound power level	dB(A)	☀	78
Compressor type			Twin-Rotary
Liquid pipe diameter	mm (inch)		12,7 (½)
Suction gas pipe diameter	mm (inch)		22,2 (7/8)
Hot gas pipe diameter	mm (inch)		19,1 (¾)
Outdoor temperature operating range (min.-max.)	°C	❄	-15 / +50
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +15,5
Power supply	V/Ph+N/Hz		380-415/3+N/50
Recommended fusing	A		3x 32
Recommended power supply line type			H07RN-F 5G2,5
Communication line			YSLCY 2x1,5
Current consumption (nom.)	A		10,60/11,50
Current consumption (max.)	A		3x 23,00
Pipe length (max.)	m		190
Height difference (max.)	m		40/90
Refrigerant			R32
Refrigerant charge	kg		6,00
Dimensions (HxWxD)	mm		1690 x 990 x 780
Weight	kg		232

❄ Cooling ☀ Heating

The measuring conditions for this product can be found at https://www.toshiba-aircondition.com/en/measuring-conditions.html

In order to make it easier for you to select the optimal product, you can find the description of the special TOSHIBA product functions for your model here:

Liquid Injection Compressor: Optimized heating with R32.

Hybrid inverter control: Smooth capacity regulation.

Twin rotary compressor: Long-lasting, smoothly running and highest efficiency.

R32: Used refrigerant: R32.