



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-SUG1601MT8P-E
Capacity code	HP		16
Cooling capacity	kW	❄️	45,00
Power consumption (min./nom./max.)	kW	❄️	12,20
Energy efficiency EER	W/W	❄️	3,70
Energy efficiency SEER		❄️	8,64
Energy efficiency ETAs	%	❄️	342,6
Running current	A	❄️	21,10
Heating capacity	kW	🔥	45,00
Power consumption (min./nom./max.)	kW	🔥	11,10
Energy efficiency COP	W/W	🔥	4,07
Energy efficiency SCOP		🔥	4,65
Energy efficiency ETAs	%	🔥	183,0
Running current	A	🔥	19,90
Airflow	m³/h		15300
External static pressure	Pa		80
Sound pressure level (low/med/high)	dB(A)	❄️	60
Sound pressure level (low/med/high)	dB(A)	🔥	64
Sound power level	dB(A)	❄️	83
Sound power level	dB(A)	🔥	87
Compressor type			Twin-Rotary
Liquid pipe diameter	mm (inch)		15,9 (5/8)
Suction gas pipe diameter	mm (inch)		28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)		22,2 (7/8)
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 40
Recommended power supply line type			H07RN-F 5G4,0
Communication line			YSLCY 2x1,5
Current consumption (nom.)	A		19,90/21,10
Current consumption (max.)	A		3x 34,00
Pipe length (max.)	m		190
Height difference (max.)	m		40/90
Refrigerant			R32
Refrigerant charge	kg		9,00
Dimensions (HxWxD)	mm		1690 x 1290 x 780
Weight	kg		329

❄️ 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.

