



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



## SHRMa R32

Technical data			MMY-SUG1401MT8P-E
Capacity code	HP		14
Cooling capacity	kW	❄️	40,00
Power consumption (min./nom./max.)	kW	❄️	12,00
Energy efficiency EER	W/W	❄️	3,32
Energy efficiency SEER		❄️	8,08
Energy efficiency ETAs	%	❄️	320,2
Running current	A	❄️	18,90
Heating capacity	kW	🔥	40,00
Power consumption (min./nom./max.)	kW	🔥	10,30
Energy efficiency COP	W/W	🔥	3,89
Energy efficiency SCOP		🔥	4,30
Energy efficiency ETAs	%	🔥	169,0
Running current	A	🔥	16,30
Airflow	m³/h		11880
External static pressure	Pa		80
Sound pressure level (low/med/high)	dB(A)	❄️	58
Sound pressure level (low/med/high)	dB(A)	🔥	63
Sound power level	dB(A)	❄️	79
Sound power level	dB(A)	🔥	84
Compressor type			Twin-Rotary
Liquid pipe diameter	mm (inch)		12,7 (½)
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 32
Recommended power supply line type			H07RN-F 5G4,0
Communication line			YSLCY 2x1,5
Current consumption (nom.)	A		16,30/18,90
Current consumption (max.)	A		3x 31,00
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.

