



2-pipe powerhouse next generation

SMMSu

→ Highlights

- Pointing the way in connectivity, efficiency, reliability and service friendliness
- Single modules up to 24 HP / 67 kW cooling capacity available
- Combinations of up to 335 kW cooling- and 345 kW heating-capacity
- Unique triple-rotary compressor (16-20 HP)

VRF 2-pipe outdoor unit for cooling or heating operation with a wide performance spectrum. For combination with VRF indoor units, DX-kits, hot water modules and VN heat exchangers according to the Selection Tool design software.

→ Performance

- SEER values up to 7,73
- SCOP values up to 4,79
- Optimized R410A refrigeration circuit enables the smallest amount of refrigerant
- Outstanding energy and cost efficiency
- Suitable for monovalent heating operation
- Hi-Power fan unit optimizes the airflow
- Super efficient split heat exchanger
- Defrosting in heating mode without sacrificing comfort
- Maximum operational reliability through auto backup

→ Flexibility

- Maximum piping lengths up to 1,200 m (from 26 HP)
- Maximum height differences up to 110 m
- Up to 128 indoor units can be connected to each individual system
- Capacities up to 24 HP available with just one outdoor unit module
- Combinations of up to 120 HP / 335 kW cooling capacity possible
- Free combination concept, according to priority efficiency or installation space
- Flexible control options for all applications
- Night Operation: quiet operation protects humans and the environment
- System diversity up to 200%
- Easy system design with SelectionTool software
- Combination with existing systems possible

→ Technical details

- Perfected A3 twin-rotary compressor (8-14 HP)
- Two A3 twin-rotary compressors (22-24 HP)
- Unique K4 triple-rotary compressor (16-20 HP)
- Double-vane technology with carbon coating
- Auto-Backup operation
- Uninterrupted heating operation for up to 5 hours
- Ultra-short defrosting cycles of up to 3.5 minutes
- Intelligent refrigerant management ensures the best possible supply for all indoor units, regardless of their position in the building
- Shortest oil return 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 diagnosis as a PC application can be connected to outdoor or indoor devices via USB
- Optional service link adapter TCB-SS1UU-E enables data logging even without a PC on micro SDHC card (included, 8 GB)



| Technical data | | | MMY-MUP1601HT8P-E |
|---|-------------------|----|-------------------|
| Capacity code | HP | | 16 |
| Cooling capacity | kW | ❄️ | 45,00 |
| Power consumption (min./nom./max.) | kW | ❄️ | 14,06 |
| Energy efficiency EER | W/W | ❄️ | 3,20 |
| Energy efficiency SEER | | ❄️ | 7,71 |
| Energy efficiency ESEER | | ❄️ | 7,71 |
| Energy efficiency ETAs | % | ❄️ | 305,4 |
| Running current | A | ❄️ | 21,6 |
| Heating capacity | kW | 🔥 | 45,00 |
| Power consumption (min./nom./max.) | kW | 🔥 | 11,94 |
| Energy efficiency COP | W/W | 🔥 | 3,77 |
| Energy efficiency SCOP | | 🔥 | 4,79 |
| Energy efficiency ETAs | % | 🔥 | 188,6 |
| Running current | A | 🔥 | 18,3 |
| Airflow | m ³ /h | | 15300 |
| External static pressure | Pa | | 80 |
| Sound pressure level (low/med/high) | dB(A) | ❄️ | 60 |
| Sound pressure level (low/med/high) | dB(A) | 🔥 | 63 |
| Sound power level | dB(A) | ❄️ | 83 |
| Sound power level | dB(A) | 🔥 | 86 |
| Sound pressure level (night operation, @ 1m) | dB(A) | ❄️ | 53 |
| Compressor type | | | 1x Triple-Rotary |
| Liquid pipe diameter | mm (inch) | | 15,9 (5/8) |
| Suction gas pipe diameter | mm (inch) | | 28,6 (1 1/8) |
| Outdoor temperature operating range (min.-max.) | °C | ❄️ | -15 / +52 |
| 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 | | 21,60 / 18,30 |
| Current consumption (max.) | A | | 3x 34 |
| Connectable indoor units (max.) | Pce. | | 36 |
| Pipe length (max.) | m | | 500 |
| Height difference (max.) | m | | 110 |
| Refrigerant | | | R410A |
| Refrigerant charge | kg | | 9,00 |
| Dimensions (HxWxD) | mm | | 1690 x 1290 x 780 |
| Weight | kg | | 312 |

❄️ Cooling 🔥 Heating

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

