### **TOSHIBA**

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)



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| Technical data                                |           |             | MMY-UP7411HT8P-E         |
|---|-----------|-------------|--------------------------|
| Capacity code                                 | НР        |             | 74                       |
| Cooling capacity                              | kW        | *           | 207,50                   |
| Power consumption (min./nom./max.)            | kW        | *           | 73,27                    |
| Energy efficiency EER                         | W/W       | *           | 2,83                     |
| Energy efficiency SEER                        |           | *           | 6,97                     |
| Heating capacity                              | kW        | *           | 207,50                   |
| Power consumption (min./nom./max.)            | kW        | <del></del> | 55,73                    |
| Energy efficiency COP                         | W/W       | *           | 3,72                     |
| Energy efficiency SCOP                        |           | *           | 4,36                     |
| Airflow                                       | m³/h      |             | 2x 16500 + 11880 + 11700 |
| External static pressure                      | Pa        |             | 80                       |
| Sound pressure level (low/med/high)           | dB(A)     | *           | 68.0                     |
| Sound pressure level (low/med/high)           | dB(A)     | *           | 72.0                     |
| Sound power level                             | dB(A)     | *           | 91.0                     |
| Sound power level                             | dB(A)     | *           | 95.0                     |
| Sound pressure level (night operation, @ 1m)  | dB(A)     | *           | 59,0                     |
| Liquid pipe diameter                          | mm (inch) |             | 22,2 (7/8)               |
| Suction gas pipe diameter                     | mm (inch) |             | 44,5 (1 3/4)             |
| Outdoor temperature operating range (minmax.) | °C        | *           | -15 / +52                |
| Outdoor temperature operating range (minmax.) | °C        | *           | -25 / +15,5              |
| Power supply                                  | V/Ph+N/Hz |             | 380-415/3+N/50           |
| Connectable indoor units (max.)               | Pce.      |             | 86                       |
| Pipe length (max.)                            | m         |             | 1200                     |
| Height difference (max.)                      | m         |             | 110                      |
| Refrigerant                                   |           |             | R410A                    |
| Refrigerant charge                            | kg        |             | 9+9+6+6                  |
| Dimensions (HxWxD)                            | mm        |             | 1690 x 4620 x 780        |
| Weight  | kg        |             | 2x 356 + 2x 228          |

\* Cooling + Heating

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

