



2-pipe powerhouse

SMMS-e



Highlights

- Outstanding energy efficiency values
- Combinations of up to 168 kW of cooling capacity and 178 kW of heating capacity
- Two twin-rotary compressors per unit



VRF 2-pipe outdoor unit for cooling or heating with a wide performance spectrum. For combination with VRF indoor units, valve kits, hot water modules and VN heat exchangers.



Performance

- ESEER values over 7 for all units
- Excellent energy and cost efficiency
- Suitable for monovalent heating operation



Flexibility

- Max. pipe lengths up to 1000 m (starting from 34 PS)
- Max. height differences up to 90 m
- Up to 64 indoor units can be connected (starting from 30 PS)
- Capacities up to 22 PS available with only one outdoor unit module
- Flexible control options for all applications
- Optimal ratio of unit capacity to installation surface
- Quiet operation protects people and the environment
- System diversity to 135%
- Simple system design with SelectionTool software



Technical details

- Next generation of perfected A3 compressors
- Two inverter-controlled compressors per unit module
- At 64 cc, enlarged compressor compression chamber (starting from 14 PS)
- Shared vane technology with a carbon coating
- Two twin-rotary compressors in all units
- Compressor backup
- Outdoor unit modulation for maximum dependability and durability
- Shared heat exchangers
- Advanced fan design enables maximum capacity with minimum noise generation and current consumption
- Continuous heating for short defrost cycles without any comfort losses during heating operation
- Intelligent refrigerant management ensures an optimal supply to all indoor units, regardless of their position in the building
- Wireless wave tool function simplifies commissioning, servicing, and system monitoring with Android smartphones

| Technical data | | | MMY-AP3416HT8P-E |
|---|-------------------|----|-------------------|
| Capacity code | HP | | 34 |
| Combined units | | | 18 + 16 |
| Cooling capacity | kW | ❄️ | 95,40 |
| Power consumption (min./nom./max.) | kW | ❄️ | 28,90 |
| Partial load efficiency @ 80%/60%/40% | W/W | ❄️ | 4,12/5,06/6,08 |
| Energy efficiency EER | W/W | ❄️ | 3,30 |
| Energy efficiency ESEER | | ❄️ | 7,40 |
| Running current | A | ❄️ | 45,30 |
| Heating capacity | kW | 🔥 | 106,00 |
| Power consumption (min./nom./max.) | kW | 🔥 | 27,00 |
| Partial load efficiency @ 80%/60%/40% | W/W | 🔥 | 4,63/5,26/5,59 |
| Energy efficiency SCOP | | 🔥 | 4,97 |
| Running current | A | 🔥 | 42,30 |
| Airflow | m ³ /h | | 17300 + 12600 |
| External static pressure | Pa | | 40 |
| Sound pressure level (low/med/high) | dB(A) | ❄️ | 64,5 |
| Sound pressure level (low/med/high) | dB(A) | 🔥 | 66 |
| Sound power level | dB(A) | ❄️ | 84,0 |
| Sound power level | dB(A) | 🔥 | 86,0 |
| Sound pressure level (night operation) | dB(A) | | 54,8 |
| Compressor type | | | 2x2 Twin Rotary |
| Liquid pipe diameter | mm (inch) | | 19,1 (¾) |
| Suction gas pipe diameter | mm (inch) | | 34,9 (1 3/8) |
| Oil equalization pipe diameter | mm (inch) | | 9,5 (3/8) |
| Outdoor temperature operating range (min.-max.) | °C | ❄️ | -15 / +46 |
| Outdoor temperature operating range (min.-max.) | °C | 🔥 | -25 / +25 |
| Power supply | V/Ph+N/Hz | | 380-415/3/50 |
| Starting current | A | | Softstart |
| Connectable indoor units (max.) | Pce. | | 64 |
| Pipe length (max.) | m | | 1000 |
| Height difference (max.) | m | | 90 |
| Refrigerant | | | R410A |
| Refrigerant charge | kg | | 2x 11,50 |
| Dimensions (HxWxD) | mm | | 1830 x 2830 x 780 |
| Weight | kg | | 371+300 |

❄️ Cooling 🔥 Heating

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



Energy Label: Energy label **A+ to A+++**, indicates the power consumption and energy efficiency class.



HI POWER: Particularly strong airflow for quickly reaching the requested temperature.



ErP Ecodesign: All criteria of **ECODESIGN**-guideline are fulfilled and confirm highest system efficiency.



Auto diagnostic: Check of system for flawless operation.



Hybrid inverter control: Smooth capacity regulation.



Eco Mode: Energy saving function.



Rotary compressor: Reliability and high efficiency.



Quiet Mode: Particularly low noise level - whispering mode.



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



Comfort Sleep: Gradual increase of temperature by 2 °C until morning.



R410A: Used refrigerant: R410A.



Power Selection: Capacity regulation and therefore power savings of up to 25, 50 or 75%.



R32: Used refrigerant: R32.



Floor Mode: Natural floor warming effect for greater comfort.



Wifi ready: Optional control of the system via a smartphone.



Preset Mode: Activates individual settings at the touch of a button.



KNX: Optional KNX bus connection.



One Touch Mode: Fully automatic operation adapted to your needs.



Dust filter: Washable filter against coarse contamination.



Timer: Individual programming of on-/off times.



IAQ filter: Fine mesh filter with natural substances.



Off Timer: Shutdown of the unit at chosen times (30 min to 12 h).



Active carbon-catechin filter: Cleansing filter with enzymes from green tea.



Week Timer: Up to four settings per day and seven per week.



Plasma filter: Pure Mode: Electrostatic filter system.



Automatic Restart: After a power blackout.



Air ionizer: Negative ions cover polluted particles in the air. Dust, pollen and smoke are neutralized.



8 °C frost protection function: Frost protection for uninhabited rooms.



Self-cleaning function: Usage of condensate water for cleaning.



Louver: Flexible setting of louvers.



Auto Mode: Automatic selection between cooling and heating.



3D Airflow: 6 different airflow patterns in all directions.