



## 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-AP5616HT8P-E
Capacity code	HP		56
Combined units			20 + 20 + 16
Cooling capacity	kW	❄️	157,00
Power consumption (min./nom./max.)	kW	❄️	48,90
Partial load efficiency @ 80%/60%/40%	W/W	❄️	4,03/4,96/5,98
Energy efficiency EER	W/W	❄️	3,21
Energy efficiency ESEER		❄️	7,28
Running current	A	❄️	76,00
Heating capacity	kW	🔥	176,00
Power consumption (min./nom./max.)	kW	🔥	46,90
Partial load efficiency @ 80%/60%/40%	W/W	🔥	4,39/5,96/5,37
Energy efficiency SCOP		🔥	4,81
Running current	A	🔥	72,40
Airflow	m <sup>3</sup> /h		17900 + 17900 + 12600
External static pressure	Pa		40
Sound pressure level (low/med/high)	dB(A)	❄️	66,5
Sound pressure level (low/med/high)	dB(A)	🔥	67,5
Sound power level	dB(A)	❄️	86,5
Sound power level	dB(A)	🔥	88,5
Sound pressure level (night operation)	dB(A)		56,0
Compressor type			3x2 Twin Rotary
Liquid pipe diameter	mm (inch)		22,2 (7/8)
Suction gas pipe diameter	mm (inch)		41,3 (1 5/8)
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		3x 11,50
Dimensions (HxWxD)	mm		1830 x 4450 x 780
Weight	kg		371+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.