

## 2-pipe powerhouse

# SMMS-e LowRef



### Highlights

- Outstanding energy efficiency values
- Outdoor units for refrigerant reduced systems
- Stand-alone with 8, 10 or 12 HP



VRF 2-pipe outdoor unit for cooling or heating with a wide performance spectrum. Specialised outdoor unit to design efficient VRF systems with reduced total amount of refrigerant.



### Performance

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



### "LowRef" concept

- 50% lower refrigerant factory pre-charge
- Around 40% reduced system amount of refrigerant
- Optimised refrigerant circle
- Adapted oil management system
- Easy system design with New Selection Tool software
- 8, 10 or 12 HP stand-alone system
- No combinations allowed
- No connection of fresh air intake duct, hot water module, DX-kit, VN-heat exchanger with DX-coil



### Technical details

- Next generation of perfected A3 compressors
- Two inverter-controlled compressors per unit module
- Shared vane technology with a carbon coating
- Two twin-rotary compressors in all units
- Compressor backup
- 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-SAP0806HT8P-E
Capacity code	HP		8
Cooling capacity	kW	❄️	22,40
Power consumption (min./nom./max.)	kW	❄️	5,54
Partial load efficiency @ 80%/60%/40%	W/W	❄️	4,97/5,96/6,59
Energy efficiency EER	W/W	❄️	4,04
Running current	A	❄️	8,80
Heating capacity	kW	🔥	25,00
Power consumption (min./nom./max.)	kW	🔥	5,66
Partial load efficiency @ 80%/60%/40%	W/W	🔥	5,52/6,28/6,41
Energy efficiency SCOP		🔥	3,79
Running current	A	🔥	9,00
Airflow	m³/h		9700
External static pressure	Pa		60
Sound pressure level (low/med/high)	dB(A)	❄️	55
Sound pressure level (low/med/high)	dB(A)	🔥	56
Sound power level	dB(A)	❄️	74,0
Sound power level	dB(A)	🔥	74,0
Sound pressure level (night operation)	dB(A)		51 / 51
Compressor type			2x Twin-Rotary
Liquid pipe diameter	mm (inch)		12,7 (½)
Suction gas pipe diameter	mm (inch)		19,1 (¾)
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
Recommended fusing	A		3x 20
Recommended power supply line type			H07RN-F 5G2,5
Communication line			YSLCY 2x1,5
Running current (nom.)	A		8,79 / 8,96
Running current (max.)	A		20,5
Starting current	A		Softstart
Connectable indoor units (max.)	Pce.		18
Pipe length (max.)	m		300
Height difference (max.)	m		40/70
Refrigerant			R410A
Refrigerant charge	kg		5,70
Dimensions (HxWxD)	mm		1830 x 990 x 780
Weight	kg		227

❄️ 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.



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



**Hybrid inverter control:** Smooth capacity regulation.



**Rotary compressor:** Reliability and high efficiency.



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



**R410A:** Used refrigerant: R410A.



**R32:** Used refrigerant: R32.



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



**KNX:** Optional KNX bus connection.



**Dust filter:** Washable filter against coarse contamination.



**IAQ filter:** Fine mesh filter with natural substances.



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



**Plasma filter: Pure Mode:** Electrostatic filter system.



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



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



**Auto Mode:** Automatic selection between cooling and heating.



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



**Auto diagnostic:** Check of system for flawless operation.



**Eco Mode:** Energy saving function.



**Quiet Mode:** Particularly low noise level - whispering mode.



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



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



**Floor Mode:** Natural floor warming effect for greater comfort.



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



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



**Timer:** Individual programming of on-/off times.



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



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



**Automatic Restart:** After a power blackout.



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



**Louver:** Flexible setting of louvers.



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