TOSHIBA

Simultaneously warm & cold

SHRM-e



Highlights

Highest possible efficiency due to heat recovery Combinations of up to 151 kW of cooling capacity and heating capacity Two twin-rotary compressors per unit







VRF 3-pipe outdoor unit for simultaneous cooling and heating with a wide performance spectrum. For combination with VRF indoor units, valve kits (exhaust air control) and VN heat exchangers.



Performance

- ESEER values up to 8.17
- 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 20 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

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- 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



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Technical data			MMY-AP5416FT8P
Capacity code	HP		54
Combined units			18 + 18 + 18
Cooling capacity	kW	*	151,20
Power consumption (min./nom./max.)	kW	*	48,00
Partial load efficiency @ 80%/60%/40%	W/W	*	4,4 - 5,7 - 7,2
nergy efficiency EER	W/W	*	3,15
nergy efficiency ESEER		*	7,86
lunning current	A	*	75,30
leating capacity	kW	*	151,20
ower consumption (min./nom./max.)	kW	*	41,10
artial load efficiency @ 80%/60%/40%	W/W	*	4,3 - 4,8 - 5,2
nergy efficiency SCOP		*	4,62
lunning current	A	*	64,50
irflow	m³/h		3x 17300
xternal static pressure	Pa		40
ound pressure level (low/med/high)	dB(A)	*	66,0
ound pressure level (low/med/high)	dB(A)	*	67,0
ound power level	dB(A)	*	88,0
ound power level	dB(A)	*	89,0
ound pressure level (night operation)	dB(A)		58,8
Compressor type			2x Twin-Rotary
iquid pipe diameter	mm (inch)		22,2 (7/8)
uction gas pipe diameter	mm (inch)		41,3 (1 5/8)
lot gas pipe diameter	mm (inch)		34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)		9,5 (3/8)
Outdoor temperature operating range (minmax.)	°C	*	-15 / +46
Outdoor temperature operating range (minmax.)	°C	*	-25 / +25
ower supply	V/Ph+N/Hz		380-415/3/50
tarting current	A		Softstart
onnectable indoor units (max.)	Pce.		64
ipe length (max.)	m		1000
leight difference (max.)	m		90
tefrigerant			R410A
Lefrigerant charge	kg		3x 11,00
Dimensions (HxWxD)	mm		1830 x 4840 x 780
Veight	kg		3x 377

* Cooling Heating

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

TOSHIBA

TOSHIBA Features - general overview



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 iones 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.