

## PRODUCT UPDATE 2010 – SMMSi Outdoor Units

Toshiba Air Conditioning are pleased to introduce a new product into our current range of units within the VRF product range.



**MMY-MAP\*\*\*\*HT8-E (8, 10, 12, 14 and 16Hp modules available)**

### Key features and benefits.

- Industry leading energy efficiency<sup>1</sup>
- Industry leading pipe separation<sup>2</sup>
- Industry leading height separation<sup>3</sup>
- New Intelligent VRF refrigerant control system
- New high efficiency DC twin rotary compressor
- Two inverter compressors in the 8, 10 and 12Hp
- **Three** inverter compressors in the 14 and 16Hp
- 0.1Hz compressor frequency control
- New high efficiency DC fan motor (60pa)<sup>4</sup>
- New high efficiency fan blade and fan guard
- 40% reduction in volume and footprint (16Hp)
- 98 indoor unit combinations



### Summary Specification

Model Range	8-12HP	14-16HP
Size (Height x Width x Depth mm)	1830 x 990 x 780	1830 x 1210 x 780
Weight (Kg)	242	330
Available Date.	Ex Stock	Ex Stock
Retail Price ex VAT.	8hp=£5,260, 10hp=£6,236, 12hp= £7,468	14hp=£8,500, 16hp=£9,450

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For further details, please contact TCUK Customer Services on 0870 8430333 or your local sales representative.

The manufacturer reserves the right to change the product specifications and information without notice.

## Ref-net Joint for outdoor unit

Model	Availability	Retail Price Excluding VAT
RBM-BT24E	Ex Stock	£170-00

## Specification

Outdoor Unit Model (MMY)	MAP0804HT8-E	MAP1004HT8-E	MAP1204HT8-E	MAP1404HT8-E	MAP1604HT8-E	
Outdoor Unit Type	Inverter x 2	Inverter x 2	Inverter x 2	Inverter x 3	Inverter x 3	
Capacity (HP)	8	10	12	14	16	
Cooling Capacity (kW)	22.4	28.0	33.5	40.0	45.0	
Heating Capacity (kW)	25.0	31.5	37.5	45.0	50.0	
EER	4.15	3.78	3.51	3.48	3.28	
COP	4.52	4.20	3.68	3.81	3.52	
Air Volume (m <sup>3</sup> /hr)	9900	10500	11600	12000	13000	
External Static Pressure (PA)	60	60	50	40	40	
Power Supply	3Ph&N	3Ph&N	3Ph&N	3Ph&N	3Ph&N	
Starting Current	Soft Start	Soft Start	Soft Start	Soft Start	Soft Start	
Running Current (A)	C	8.5	11.4	14.7	17.7	20.8
	H	8.8	11.8	16.0	18.5	22.0
Operating Range (°C)	C	-5 to 43	-5 to 43	-5 to 43	-5 to 43	-5 to 43
	H	-20 to 15	-20 to 15	-20 to 15	-20 to 15	-20 to 15
Refrigerant	R410A	R410A	R410A	R410A	R410A	
Base Charge (kg)	11.5	11.5	11.5	11.5	11.5	
Sound Pressure dB(A)	55	57	59	60	61	
Sound Power dB(A)	78	79	83	83	84	
Max number indoor units	13	16	20	23	27	

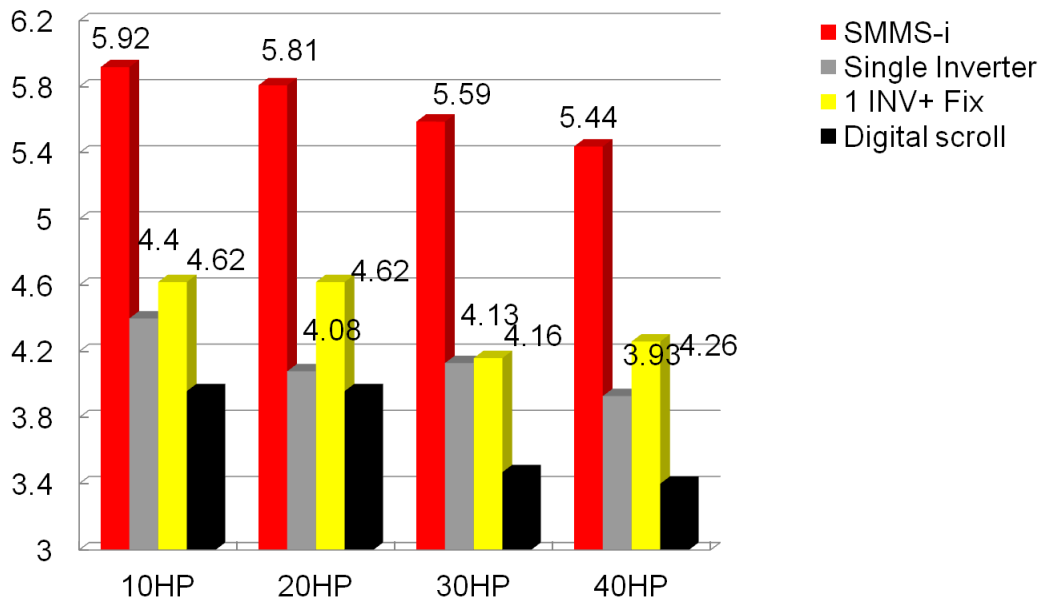


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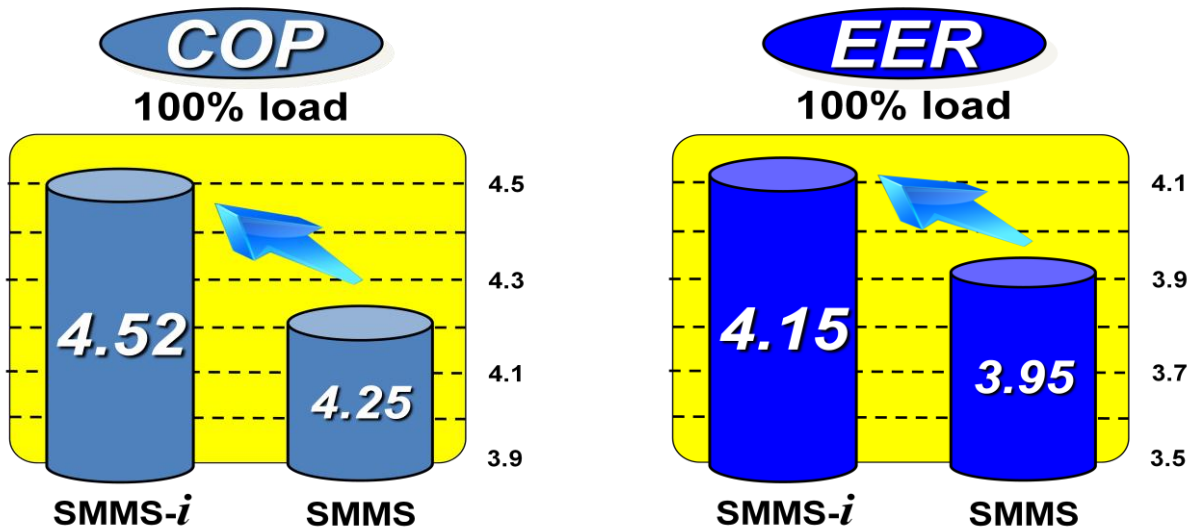
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## COP comparison at 50% load



## COP/EER SMMSi compared SMMS at 100% load



\*MMY-MAP0804HT8-E

<sup>1</sup> COP of 4.52 for the 8HP module

<sup>2</sup> Equivalent pipe separations of up to 235 meters

<sup>3</sup> 40 meter vertical height separation between connected indoor units

<sup>4</sup> 60Pa for 8-10Hp, 50Pa for 12Hp and 40Pa for 14-16Hp

