

## Toshiba Air Conditioning Data Sheet

MUP1801HT8P-E SMMS-u Heat Pump VRF



Capacity Range         HP         18           Maximum Number of Indoor Units         QTY         40           Cooling Capacity         kW         50.4           Heating Capacity         kW         50.4           Operating Range Cooling/Heating         Power Consumption         kW         15.90           Cooling         Power Consumption         kW         15.90           Heating         Power Consumption         kW         12.54           COPSCO/Energy Efficiency Class (or nsc %)         kW         12.54           Fan(s)         Standard Air Flow H         l/s         4.02/4.76/187.0           Fan(s)         Standard Air Flow H         l/s         4.667           Standard Air Flow H         l/s         4.667         4.02/4.76/187.0           Sound         Pressure Level C/H         dB(A)         61/67         66/67           Sound         Pressure Level C/H         dB(A)         61/67         66/67         66/67           Unit(s)         Height Width x Width x Depth         mm         1690x 1290 x 780         780         780         780         780         780         780         780         780         780         780         780         780         780         780	Model Reference		MUP1801HT8P-E	
Cooling Capacity         KW         50.4           Heating Capacity         KW         50.4           Operating Range CoolingHeating         "C         1-0.0 to 52.0-25.0 to 15.5           Cooling         Power Consumption         kW         15.90           EER/SEER/Energy Efficiency Class (or rpsc %)         kW         15.90           Heating         Power Consumption         kW         12.54           COP/SCOP/Energy Efficiency Class (or rpsc %)         4.02/4.75/187.0           Fan(s)         Standard Air Flow H         l/s         4.667           Standard Air Flow H         m3/h         16800           Sound         Pressure Level C/H         dB(A)         61/67           Power Level C/H         dB(A)         84/89           Weight         kg         312           Weight         kg         312           Meringerant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         1 1/8           Maximum         Equivalent Length         m         170           Real Length         m         170           Total Pipe Length (Liquid Line Real Length)         m         100           Length To First Branch <td< td=""><td>Capacity Range</td><td></td><td>HP</td><td>18</td></td<>	Capacity Range		HP	18
Heating Capacity         KW         50.4           Operating Range Cooling/Heating         "C         -10.0 to 52.0/-25.0 to 15.5           Cooling         Power Consumption         KW         15.90           Heating         Power Consumption         kW         12.54           Heating         Power Consumption         kW         12.54           COP/SCOP/Energy Efficiency Class (or ηsc (A) %)         "C         4.02/4.75187.0           Fan(s)         Standard Air Flow H         I/s         4.667           Standard Air Flow H         I/s         4.667           Standard Air Flow H         m3/h         16800           Exemal Static Pressure         Pa         80           Sound         Pressure Level C/H         dB(A)         61/67           Power Level C/H         dB(A)         84/89           Height X Width X Depth         mm         1690 x 1290 x 780           Wight         Refrigerant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         11/8           Maximum         Equivalent Length         m         210           Maximum         Equivalent Length         m         170           Real Length         m </td <td>Maximum Number of Indoor Units</td> <td></td> <td>QTY</td> <td>40</td>	Maximum Number of Indoor Units		QTY	40
Operating Range Cooling/Heating         Power Consumption         KW         15.90           Cooling         Power Consumption         kW         15.90           Heating         Power Consumption         kW         12.54           Fan(s)         Standard Air Flow H         I/s         4.667           Fan(s)         Standard Air Flow H         m3/h         16800           Evernal Static Pressure         Pa         80           Sound         Pressure Level C/H         dB(A)         61/67           Power Level C/H         dB(A)         84/89           Unit(s)         Height x Width x Depth         mm         1690 x 1290 x 780           Weight         kg         312           Reforeant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         11/8           Liquid Pipe Flare         inch         5/8           Maximum         Fequivalent Length         m         170           Real Length         m         100           Total Pipe Length (Liquid Line Real Length)         m         500           Length To First Branch         m         10           Equivalent Length Of Indoor Unit Connecting Pipe         m	Cooling Capacity		kW	50.4
Cooling         Power Consumption EER/SEER/Energy Efficiency Class (or ŋsc %)         kW         15.90           Heating         Power Consumption         kW         12.54           Fan(s)         COP/SCOP/Energy Efficiency Class (or ŋsc(A) %)         4.02/4.75/187.0           Fan(s)         Standard Air Flow H         //s         4667           Standard Air Flow H         //s         468           Standard Air Flow H         //s         468           Standard Air Flow H         //s         48           Standard Air Flow H         //s         48           Weight         //s         48         9	Heating Capacity		kW	50.4
BER/SER/Energy Efficiency Class (or ŋsc %)	Operating Range Cooling/Heating		°C	-10.0 to 52.0/-25.0 to 15.5
Heating         Power Consumption         kW         12.54           COP/SCOP/Energy Efficiency Class (or ηsc(A) %)         4.024.75/187.0           Fan(s)         Standard Air Flow H         l/s         4.667           Standard Air Flow H         m3/h         18800           Sound         External Static Pressure         Pa         80           Sound         Pressure Level C/H         dB(A)         6.1/67           Power Level C/H         dB(A)         84/89           Unit(s)         Height x Width x Depth         mm         1690 x 1290 x 780           Weight         kg         312           Refrigerant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         1.1/8           Liquid Pipe Flare         inch         5/8           Maximum         Equivalent Length         m         210           Real Length         m         170           Total Pipe Length (Liquid Line Real Length)         m         500           Length To First Branch         m         100           Real Length Of Indoor Unit Connecting Pipe         m         10           Real Length Of Indoor Unit Connecting Pipin         m         50	Cooling	Power Consumption	kW	15.90
Fan(s)         COP/SCOP/Energy Efficiency Class (or ηsc(A) %)         I/s         4.02/4.75/187.0           Fan(s)         Standard Air Flow H         I/s         4.667           Standard Air Flow H         I/s         4.667           Standard Air Flow H         Image: Standard Air Flow H         Image: Standard Air Flow H         1.6800           Sound         Pressure Level C/H         dB(A)         6.1/67           Power Level C/H         dB(A)         84/89           Unit(s)         Height x Width x Depth         mm         1690 x 1290 x 780           Weight         kg         9         312           Weight         kg         9         9           Pipe Connections         Suction Gas Pipe Brazing         inch         11/8           Liquid Pipe Flare         inch         5/8           Maximum         Real Length         m         20           Real Length         m         170         170           Real Length To First Branch         m         100         170           Length To First Branch         m         100         170           Real Length Of Indoor Unit Connecting Piping         m         30         170           Real Length Of Indoor Unit Connecting Piping         <		EER/SEER/Energy Efficiency Class (or ηsc %)		3.17/7.68/304.2
Fan(s)         Standard Air Flow H         I/Is         4667           Standard Air Flow H         m3/h         16800           Sound         Pressure Level C/H         dB(A)         61/67           Power Level C/H         dB(A)         84/89           Unit(s)         Height x Width x Depth         mm         1690 x 1290 x 780           Weight         kg         312           Refrigerant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         11/8           Liquid Pipe Flare         inch         5/8           Maximum         Equivalent Length         m         210           Real Length         m         170         170           Total Pipe Length (Liquid Line Real Length)         m         100           Real Length of Inst Branch         m         100         100           Equivalent Length Of Outdoor Unit Connecting Pipe         m         10         100           Real Length Of Indoor Unit Connecting Piping         m         30         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10 <td< td=""><td>Heating</td><td>Power Consumption</td><td>kW</td><td>12.54</td></td<>	Heating	Power Consumption	kW	12.54
Standard Air Flow H         m3/h         16800           External Static Pressure         Pa         80           Sound         Pressure Level C/H         dB(A)         61/67           Power Level C/H         dB(A)         84/89           Unit(s)         Height x Width x Depth         mm         1690 x 1290 x 780           Weight         kg         312           Refrigerant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         11/8           Liquid Pipe Flare         inch         5/8           Maximum         Equivalent Length         m         210           Real Length         m         170           Real Length         m         100           Total Pipe Length (Liquid Line Real Length)         m         500           Length To First Branch         m         10           Equivalent Length Of Outdoor Unit Connecting Pipe         m         10           Real Length Of Indoor Unit Connecting Pipin         m         50           Real Length Difference Outdoor Lower Than Indoor Units         m         50           Height Difference Outdoor Lower Than Indoor Units         m         40(110*)           Height Difference Betwe		COP/SCOP/Energy Efficiency Class (or ηsc(A) %)		4.02/4.75/187.0
Sound         External Static Pressure         Pa         80           Sound         Pressure Level C/H         dB(A)         61/67           Power Level C/H         dB(A)         84/89           Unit(s)         Height x Width x Depth         mm         1690x 1290 x 780           Weight         kg         312           Refrigerant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         11/8           Liquid Pipe Flare         inch         5/8           Maximum         Equivalent Length         m         210           Real Length         m         210           Real Length         m         500           Length To First Branch         m         100           Real Length Of Indoor Unit Connecting Piping         m         10           Real Length Of Indoor Unit Connecting Piping         m         50           Real Length Difference Outdoor Higher Than Indoor Units         m         50           Height Difference Between Indoor Units         m         40 (110°)           Height Difference Between Outdoor Units         m         40 (110°)           Height Difference Between Outdoor Units         m         5 <t< td=""><td>Fan(s)</td><td>Standard Air Flow H</td><td>I/s</td><td>4667</td></t<>	Fan(s)	Standard Air Flow H	I/s	4667
Sound         Pressure Level C/H         dB(A)         61/67           Power Level C/H         dB(A)         84/89           Unit(s)         Height x Width x Depth         mm         1690 x 1290 x 780           Weight         kg         312           Weight         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         11/8           Liquid Pipe Flare         inch         5/8           Maximum         Equivalent Length         m         210           Real Length         m         170           Real Length         m         100           Real Length or First Branch         m         100           Length To First Branch         m         10           Equivalent Length Of Outdoor Unit Connecting Pipe         m         10           Real Length Of Indoor Unit Connecting Piping         m         30           Height Difference Outdoor Higher Than Indoor Units         m         70 (110°)           Height Difference Outdoor Lower Than Indoor Units         m         40 (110°)           Height Difference Between Indoor Units         m         40           Height Difference Between Outdoor Units         m         5           Electrical Characteristic		Standard Air Flow H	m3/h	16800
Unit(s)         Height x Width x Depth         mm         1690 x 1290 x 780           Weight         kg         312           Refrigerant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         11/8           Liquid Pipe Flare         inch         5/8           Maximum         Equivalent Length         m         20           Real Length         m         170           Real Length (Liquid Line Real Length)         m         500           Length To First Branch         m         100           Length To First Branch         m         100           Real Length Of Indoor Unit Connecting Piping         m         30           Real Length Of Indoor Unit Connecting Piping         m         50           Real Length Difference Outdoor Higher Than Indoor Units         m         50           Height Difference Between Indoor Units         m         40 (110*)           Height Difference Between Outdoor Units         m         40 (110*)           Height Difference Between Outdoor Units         m         5           Electrical         Voltage Range Minimum/Maximum         V         342/456           Electrical Characteristic Running Current Cooling/Heating         A		External Static Pressure	Pa	80
Unit(s)         Height x Width x Depth Weight         mm         1690 x 1290 x 780           Weight         kg         312           Refrigerant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         1 1/8           Liquid Pipe Flare         inch         5/8           Maximum         Equivalent Length         m         210           Real Length         m         170           Real Length         m         500           Length To First Branch         m         100           Equivalent Length Of Outdoor Unit Connecting Pipe         m         10           Real Length Of Indoor Unit Connecting Piping         m         30           Equivalent Length Between Branches         m         50           Height Difference Outdoor Lower Than Indoor Units         m         70 (110*)           Height Difference Between Indoor Units         m         40 (110*)           Height Difference Between Outdoor Units         m         5           Electrical         Voltage Range Minimum/Maximum         V         342/456           Electrical Characteristic Running Current Cooling/Heating         A         24.40/19.30           Power Supply Wiring Starting Current         A	Sound	Pressure Level C/H	dB(A)	61/67
Weight         kg         312           Refrigerant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         1 1/8           Liquid Pipe Flare         inch         5/8           Maximum         Equivalent Length         m         210           Real Length         m         170           Total Pipe Length (Liquid Line Real Length)         m         500           Length To First Branch         m         100           Equivalent Length Of Outdoor Unit Connecting Pipe         m         10           Real Length Of Indoor Unit Connecting Piping         m         30           Real Length Difference Outdoor Higher Than Indoor Units         m         50           Height Difference Outdoor Lower Than Indoor Units         m         70 (110°)           Height Difference Between Indoor Units         m         40 (110°)           Height Difference Between Outdoor Units         m         5           Electrical         Vottage Range Minimum/Maximum         V         342/456           Electrical Characteristic Running Current Cooling/Heating         A         24.40/19.30           Power Supply Wiring Starting Current         A         Soft Start           Power Supply         V//p		Power Level C/H	†	84/89
Refrigerant Base Charge         kg         9           Pipe Connections         Suction Gas Pipe Brazing         inch         1 1/8           Maximum         Equivalent Length         m         210           Real Length         m         170           Total Pipe Length (Liquid Line Real Length)         m         500           Length To First Branch         m         100           Equivalent Length Of Indoor Unit Connecting Pipe         m         10           Real Length Of Indoor Unit Connecting Piping         m         30           Requivalent Length Between Branches         m         50           Height Difference Outdoor Higher Than Indoor Units         m         70 (110*)           Height Difference Between Indoor Units         m         40 (110*)           Height Difference Between Outdoor Units         m         5           Electrical         Voltage Range Minimum/Maximum         V         342/456           Electrical Characteristic Running Current Cooling/Heating         A         24.40/19.30           Power Supply Wiring Starting Current         A         Soft Start           Power Supply         V/ph/Hz         380-415/3/50	Unit(s)	Height x Width x Depth	mm	1690 x 1290 x 780
Pipe Connections   Suction Gas Pipe Brazing   inch   1 1/8		Weight	kg	312
Liquid Pipe Flare   inch   5/8		Refrigerant Base Charge	kg	9
Equivalent Length   m   210	Pipe Connections	Suction Gas Pipe Brazing	inch	1 1/8
Real Length Total Pipe Length (Liquid Line Real Length) Length To First Branch Equivalent Length Of Outdoor Unit Connecting Pipe Meal Length Of Indoor Unit Connecting Pipe Meal Length Of Indoor Unit Connecting Piping Meal Length Of Indoor Unit Connecting Piping Meal Length Between Branches Meight Difference Outdoor Higher Than Indoor Units Meight Difference Outdoor Lower Than Indoor Units Meight Difference Between Indoor Units Meight Difference Between Indoor Units Meight Difference Between Outdoor Units Meight Differenc		Liquid Pipe Flare	inch	5/8
Total Pipe Length (Liquid Line Real Length)  Length To First Branch  Equivalent Length Of Outdoor Unit Connecting Pipe  Real Length Of Indoor Unit Connecting Piping  Equivalent Length Between Branches  Height Difference Outdoor Higher Than Indoor Units  Height Difference Outdoor Lower Than Indoor Units  Height Difference Between Indoor Units  Height Difference Between Outdoor Units  Height Difference Between Outdoor Units  M  40 (110*)  Height Difference Between Outdoor Units  m  50  Real Length Difference Outdoor Higher Than Indoor Units  m  40 (110*)  Height Difference Between Indoor Units  m  50  Height Difference Between Outdoor Units  M  40  Height Difference Between Outdoor Units  M  50  Electrical  Voltage Range Minimum/Maximum  V  342/456  Electrical Characteristic Running Current Cooling/Heating  Power Supply Wiring Starting Current  A  Soft Start  Power Supply  V/ph/Hz  380-415/3/50	Maximum	Equivalent Length	m	210
Length To First Branch Equivalent Length Of Outdoor Unit Connecting Pipe m 10 Real Length Of Indoor Unit Connecting Piping m 30 Equivalent Length Between Branches m 50 Height Difference Outdoor Higher Than Indoor Units m 70 (110*) Height Difference Outdoor Lower Than Indoor Units m 40 (110*) Height Difference Between Indoor Units m 40 (110*) Height Difference Between Outdoor Units m 55  Electrical Voltage Range Minimum/Maximum V 342/456 Electrical Characteristic Running Current Cooling/Heating A 24.40/19.30 Power Supply Wiring Starting Current Power Supply V/ph/Hz 380-415/3/50		Real Length	m	170
Equivalent Length Of Outdoor Unit Connecting Pipe m 30  Real Length Of Indoor Unit Connecting Piping m 30  Equivalent Length Between Branches m 50  Height Difference Outdoor Higher Than Indoor Units m 70 (110*)  Height Difference Outdoor Lower Than Indoor Units m 40 (110*)  Height Difference Between Indoor Units m 40  Height Difference Between Outdoor Units m 55  Electrical Voltage Range Minimum/Maximum V 342/456  Electrical Characteristic Running Current Cooling/Heating A 24.40/19.30  Power Supply Wiring Starting Current A Soft Start  Power Supply V/ph/Hz 380-415/3/50		Total Pipe Length (Liquid Line Real Length)	m	500
Real Length Of Indoor Unit Connecting Piping m 30  Equivalent Length Between Branches m 50  Height Difference Outdoor Higher Than Indoor Units m 70 (110*)  Height Difference Outdoor Lower Than Indoor Units m 40 (110*)  Height Difference Between Indoor Units m 40  Height Difference Between Outdoor Units m 55  Electrical Voltage Range Minimum/Maximum V 342/456  Electrical Characteristic Running Current Cooling/Heating A 24.40/19.30  Power Supply Wiring Starting Current A Soft Start  Power Supply V/ph/Hz 380-415/3/50		Length To First Branch	m	100
Equivalent Length Between Branches  Height Difference Outdoor Higher Than Indoor Units  Height Difference Outdoor Lower Than Indoor Units  Height Difference Between Indoor Units  Height Difference Between Outdoor Units  Height Difference Between Outdoor Units  M  40  Height Difference Between Outdoor Units  M  5  Electrical  Voltage Range Minimum/Maximum  V  342/456  Electrical Characteristic Running Current Cooling/Heating  A  24.40/19.30  Power Supply Wiring Starting Current  A  Soft Start  Power Supply  V/ph/Hz  380-415/3/50		Equivalent Length Of Outdoor Unit Connecting Pipe	m	10
Height Difference Outdoor Higher Than Indoor Units m 70 (110*)  Height Difference Outdoor Lower Than Indoor Units m 40 (110*)  Height Difference Between Indoor Units m 40  Height Difference Between Outdoor Units m 5  Electrical Voltage Range Minimum/Maximum V 342/456  Electrical Characteristic Running Current Cooling/Heating A 24.40/19.30  Power Supply Wiring Starting Current A Soft Start  Power Supply V/ph/Hz 380-415/3/50		Real Length Of Indoor Unit Connecting Piping	m	30
Height Difference Outdoor Lower Than Indoor Units   m   40 (110*)		Equivalent Length Between Branches	m	50
Height Difference Between Indoor Units m 40 Height Difference Between Outdoor Units m 5  Electrical Voltage Range Minimum/Maximum V 342/456  Electrical Characteristic Running Current Cooling/Heating A 24.40/19.30  Power Supply Wiring Starting Current A Soft Start  Power Supply V/ph/Hz 380-415/3/50		Height Difference Outdoor Higher Than Indoor Units	m	70 (110*)
Height Difference Between Outdoor Units   m   5		Height Difference Outdoor Lower Than Indoor Units	m	40 (110*)
Electrical  Voltage Range Minimum/Maximum  V  342/456  Electrical Characteristic Running Current Cooling/Heating  A  24.40/19.30  Power Supply Wiring Starting Current  A  Soft Start  Power Supply  V/ph/Hz  380-415/3/50		Height Difference Between Indoor Units	m	40
Electrical Characteristic Running Current Cooling/Heating A 24.40/19.30  Power Supply Wiring Starting Current A Soft Start  Power Supply V/ph/Hz 380-415/3/50		Height Difference Between Outdoor Units	m	5
Power Supply Wiring Starting Current A Soft Start Power Supply V/ph/Hz 380-415/3/50	Electrical	Voltage Range Minimum/Maximum	V	342/456
Power Supply V/ph/Hz 380-415/3/50		Electrical Characteristic Running Current Cooling/Heating	Α	24.40/19.30
11.2		Power Supply Wiring Starting Current	Α	Soft Start
Suggested Fused Supply(s)  A  40		Power Supply	V/ph/Hz	380-415/3/50
Suggested i used Supply(s)   A   40		Suggested Fused Supply(s)	Α	40

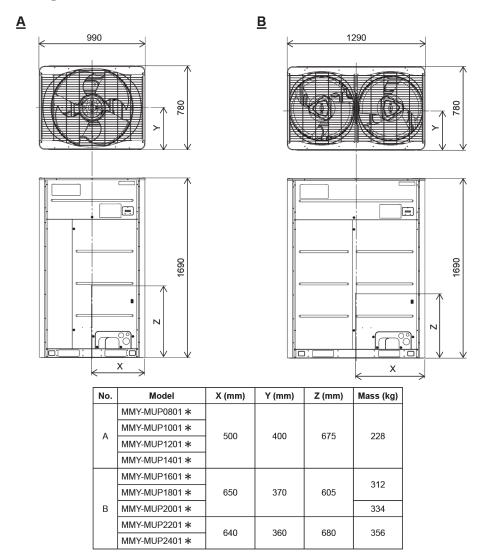
The electrical installation needs to meet current electrical regulations BS7671:2018 the 18th Edition of the IET regulations. Fuse sizes shown are for guidelines only and should be calculated using the MCA/MOCP details on the following page

## TOSHIBA

- Intelligent Defrost
- Duel set point
- Piping design flexibility
- 250m furthest indoor
- 110m height indoor to outdoor
- NFC Commissioning and maintenance
- High efficiency
- Innovative technology Triple rotary compressor

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## ♦ Weight center of an outdoor unit



MCA: Minimum Circuit Amps MOCP: Maximum Overcurrent Protection (Amps)

Model name	Phase supply	MCA	МОСР
MMY-MUP0801 *	3N~ 50Hz 380-400-415V	17	20
MMY-MUP1001 *		23	32
MMY-MUP1201 *		27	32
MMY-MUP1401 *		31	40
MMY-MUP1601 *		34	40
MMY-MUP1801 *		38	50
MMY-MUP2001 *		40	50
MMY-MUP2201 *		57	63
MMY-MUP2401 *		60	80