

SALES BULLETIN UPDATE

VRF Floor Mounted Cabinet 6 Series Indoor

- Lower Power Consumption DC Fan Motor
- 4% Reduction in Weight
- *** **DI and SDI Connectable using RBC-CK2** *** ***Available Ex-stock***

TOSHIBA are pleased to confirm the new VRF Floor Mounted Cabinet 6 Series are now available ex-stock and available for immediate delivery in accordance with our normal dispatch methods.



1. Connectable Outdoor units

1. SHRMi (& SHRM)
2. SMMSi (& SMMS)
3. MiNi SMMS
4. *Digital Inverter and *Super Digital Inverter
* RBC-CK2 Conversion Kit required

2. New Line-up

Capacity Range HP	New Model	* RAV	Rated Capacity (kW)		Dimension H x W x D (mm)	Weight (kg)
			Cooling	Heating		
1.7	MMF-AP0156H-E	✗	4.5	5.0	1750 x 600 x 210	46
2.0	MMF-AP0186H-E	✓	5.6	6.3		
2.5	MMF-AP0246H-E	✓	7.1	8.0		47
3.0	MMF-AP0276H-E	✗	8.0	9.0		
4.0	MMF-AP0366H-E	✓	11.2	12.5	1750 x 600 x 390	62
5.0	MMF-AP0486H-E	✓	14.0	16.0		
6.0	MMF-AP0566H-E	✓	16.0	18.0		

* RBC-CK2 Conversion Kit required

3. Stock Announcement

6 Series MMF-AP_H-E available ex-stock Plymouth.

For further information please contact our customer support team on 0870 843 0333, your local representative, your supplier of **TOSHIBA** products or email any enquiries to: - general.enquiries@toshiba-ac.com



TOSHIBA AIRCONDITIONING

Advancing the **eco**-evolution

PRELIMINARY SPECIFICATION

DIGITAL INVERTER

		FLOOR MOUNTED CABINET				
INDOOR UNIT	MMF-	AP0186H-E	AP0246H-E	AP0366H-E	AP0486H-E	AP0566H-E
CONVERSION KIT	RBC-	CK2	CK2	CK2	CK2	CK2
OUTDOOR UNIT	RAV-	SM564ATP-E	SM804ATP-E	SM1104ATP-E	SM1404ATP-E	SM1603AT-E
Cooling Capacity	(kW)	5.0 (1.5 - 5.6)	6.9 (1.5 - 7.4)	10.0 (3.0 - 11.2)	12.1 (3.0 - 13.2)	14.0 (3.0 - 16.0)
Heating Capacity	(kW)	5.3 (1.5 - 6.3)	7.7 (1.5 - 9.0)	11.2 (3.0 - 12.5)	12.8 (3.0 - 16.0)	16.0 (3.0 - 18.0)
UK Total Cooling/Sensible Cooling Capacity	(kW)	5.1/3.9	6.4/5.0	10.2/7.6	12.7/9.3	14.5/10.8
UK Heating Capacity	(kW)	4.3	5.4	8.5	10.9	12.2
Operating Range Cooling / Heating	(°C)	46 to -15 / 15 to -15	46 to -15 / 15 to -15	46 to -15 / 15 to -15	46 to -15 / 15 to -15	43 to -15 / 15 to -15
Cooling	EER	3.11	2.90	3.22	2.74	3.01
Heating	COP	3.90	3.62	3.81	3.73	3.47
INDOOR UNIT						
Fan Motor Power Consumption	(kW)	0.055	0.089	0.135	0.16	0.16
Running Current	(Amps)	0.38	0.6	0.9	1.1	1.1
Starting Current	(Watts)	0.53	0.84	1.26	1.54	1.54
Motor Output	(Watts)	62	62	109	109	109
Standard Air Flow H/M/L	(l/s)	250/217/17	333/275/67	533/450/50	600/517/100	600/480/100
Standard Air Flow H/M/L	(m3/min)	15/13/11	20/17/14	32/27/23	36/31/26	36/29/26
Standard Air Flow H/M/L	(m3/h)	900/780/660	1200/990/840	1920/1620/1380	2160 /1730/1560	2160 /1730/1560
Sound Pressure Level H/M/L	(dBA)	46/42/37	49/45/39	51/46/41	54/49/44	54/49/44
Sound Power Level H/M/L	(dBA)	64/60/55	67/63/57	69/64/59	72/67/62	72/67/62
Main Unit Height/Width/Depth	(mm)	1750/600/210	1750/600/210	1750/600/390	1750/600/390	1750/600/390
Main Unit Total Weight	(kg)	46	47	62	62	62
Gas Side	(mm ²)	12.7 - 1/2	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8
Liquid Side	(mm ²)	6.4 - 1/4	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8
Drain Port	(mm)	20 male screw	20 male screw	20 male screw	20 male screw	20 male screw
Power Cable From Outdoor To Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Remote Controller		Required	Required	Required	Required	Required
OUTDOOR UNIT						
Standard Air Flow	(l/s)	667	750	1133	1167	1717
Standard Air Flow	(m3/h)	2400	2700	4080	4200	6180
Sound Pressure Level Cooling/Heating	(dBA)	46/48	48/52	53/54	54/55	51/53
Sound Power Level Cooling/Heating	(dBA)	63/65	65/69	70/71	70/71	68/70
Refrigerant Base Charge/Chargeless To	(kg/m)	1.1/20	1.7/20	2.8/30	2.8/30	3.1/30
Refrigerant Additional Charge Main Liquid Side	(g/m)	20	40	40	40	40
Minimum/maximum piping length	(m)	11079	11079	18384	18384	18384
Height Difference Outdoor To Indoor	(m)	±30	±30	±30	±30	±30
Pipe Connections Gas Side	(mm ²)	12.7 - 1/2	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8
Pipe Connections Liquid Side	(mm ²)	6.4 - 1/4	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8
Drain Port Connector Hose Inner Diameter	(mm)	16	16	16	16	16
Height/Width/Depth	(mm)	550/780/290	550/780/290	890/900/320	890/900/320	1340/900/320
Total Weight	(kg)	40	44	68	68	99
Maximum Run Current	(Amps)	7.31	10.40	14.60	20.74	21.70
Power Supply		1 phase 230v 50Hz	1 phase 230v 50Hz	1 phase 230v 50Hz	1 phase 230v 50Hz	1 phase 230v 50Hz
Suggested Fused Supply	(Amps)	16	16	20	32	32

PRELIMINARY SPECIFICATION

SUPER DIGITAL INVERTER

		FLOOR MOUNTED CABINET			
INDOOR UNIT	MMF-	AP0186H-E	AP0246H-E	AP0366H-E	AP0366H-E
CONVERSION KIT	RBC-	CK2	CK2	CK2	CK2
OUTDOOR UNIT	RAV-	SP564ATP-E	SP804ATP-E	SP1104AT-E	SP1104AT8-E
Cooling Capacity	(kW)	5.0 (1.2 - 5.6)	7.1 (1.9 - 8.0)	10.0 (2.6 - 12.0)	10.0 (2.6 - 12.0)
Heating Capacity	(kW)	5.6 (0.9 - 7.4)	8.0 (1.3 - 10.6)	11.2 (2.4 - 13.0)	11.2 (2.4 - 14.0)
UK Total Cooling/Sensible Cooling Capacity	(kW)	5.1/3.9	6.4/5.0	10.2/7.6	10.2/7.6
UK Heating Capacity	(kW)	4.3	5.4	8.5	8.5
Operating Range Cooling / Heating	(°C)	43 to -15 / 15 to -20	43 to -15 / 15 to -20	43 to -15 / 15 to -20	46 to -15 / 15 to -20
Cooling	EER	3.65	3.82	4.08	4.22
Heating	COP	4.38	4.17	4.69	4.43
INDOOR UNIT					
Fan Motor Power Consumption	(kW)	0.055	0.089	0.135	0.135
Running Current	(Amps)	0.38	0.6	0.9	0.9
Starting Current	(Watts)	0.53	0.84	1.26	1.26
Motor Output	(Watts)	62	62	109	109
Standard Air Flow H/M/L	(l/s)	250/217/117	333/275/67	533/450/50	533/450/50
Standard Air Flow H/M/L	(m3/min)	15/13/11	20/17/14	32/27/23	32/27/23
Standard Air Flow H/M/L	(m3/h)	900/780/660	1200/990/840	1920/1620/1380	1920/1620/1380
Sound Pressure Level H/M/L	(dBA)	46/42/37	49/45/39	51/46/41	51/46/41
Sound Power Level H/M/L	(dBA)	64/60/55	67/63/57	69/64/59	69/64/59
Main Unit Height/Width/Depth	(mm)	1750/600/210	1750/600/210	1750/600/390	1750/600/390
Main Unit Total Weight	(kg)	46	47	62	62
Gas Side	(mm")	12.7 - 1/2	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8
Liquid Side	(mm")	6.4 - 1/4	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8
Drain Port	(mm)	20 male screw	20 male screw	20 male screw	20 male screw
Power Cable From Outdoor To Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Remote Controller (Standard Supplied)		Required	Required	Required	Required
OUTDOOR UNIT					
Standard Air Flow	(l/s)	667	833	1683	1683
Standard Air Flow	(m3/h)	2400	3000	6060	6060
Sound Pressure Level Cooling/Heating	(dBA)	47 / 48	48 / 49	49 / 50	49 / 50
Sound Power Level Cooling/Heating	(dBA)	63 / 64	64 / 65	66 / 67	66 / 67
Refrigerant Base Charge/Chargeless To	(kg/m)	1.4 / 20	2.1 / 30	3.1 / 30	3.1 / 30
Refrigerant Additional Charge Main Liquid Side	(g/m)	20	40	40	40
Minimum/maximum piping length	(m)	5 / 50	5 / 50	3 / 75	3 / 75
Height Difference Outdoor To Indoor	(m)	±30	±30	±30	±30
Pipe Connections Gas Side	(mm")	12.7 - 1/2	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8
Pipe Connections Liquid Side	(mm")	6.4 - 1/4	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8
Drain Port Connector Hose Inner Diameter	(mm)	16	16	16	16
Height/Width/Depth	(mm)	550 / 780 / 290	890 / 900 / 320	1340 / 900 / 320	1340 / 900 / 320
Total Weight	(kg)	44	66	93	95
Maximum Run Current	(Amps)	6.55	9.02	10.43	3.72
Power Supply		1 phase 230v 50Hz	1 phase 230v 50Hz	1 phase 230v 50Hz	3 phase 400v 50Hz
Suggested Fused Supply	(Amps)	16	16	16	10

PRELIMINARY SPECIFICATION

SUPER DIGITAL INVERTER

		FLOOR MOUNTED CABINET		
INDOOR UNIT	MMF-	AP0486H-E	AP0486H-E	AP0566H-E
CONVERSION KIT	RBC-	CK2	CK2	CK2
OUTDOOR UNIT	RAV-	SP1404AT-E	SP1404AT8-E	SP1604AT8-E
Cooling Capacity	(kW)	12.5 (2.6 - 14.0)	12.5 (2.6 - 14.0)	14.0 (2.6 - 16.0)
Heating Capacity	(kW)	14.0 (2.4 - 16.5)	14.0 (2.4 - 18.0)	16.0 (2.4 - 19.0)
UK Total Cooling/Sensible Cooling Capacity	(kW)	12.7/9.3	12.7/9.3	14.5/10.8
UK Heating Capacity	(kW)	10.9	10.9	12.2
Operating Range Cooling / Heating	(°C)	43 to -15 / 15 to -20	46 to -15 / 15 to -20	46 to -15 / 15 to -20
Cooling	EER	3.21	3.36	3.11
Heating	COP	3.87	3.93	3.71
INDOOR UNIT				
Fan Motor Power Consumption	(kW)	0.16	0.16	0.16
Running Current	(Amps)	1.1	1.1	1.1
Starting Current	(Watts)	1.54	1.54	1.54
Motor Output	(Watts)	109	109	109
Standard Air Flow H/M/L	(l/s)	600/517/100	600/517/100	600/480/100
Standard Air Flow H/M/L	(m ³ /min)	36/31/26	36/31/26	36/29/26
Standard Air Flow H/M/L	(m ³ /h)	2160 /1730/1560	2160 /1730/1560	2160 /1730/1560
Sound Pressure Level H/M/L	(dBA)	54/49/44	54/49/44	54/49/44
Sound Power Level H/M/L	(dBA)	72/67/62	72/67/62	72/67/62
Main Unit Height/Width/Depth	(mm)	1750/600/390	1750/600/390	1750/600/390
Main Unit Total Weight	(kg)	62	62	62
Gas Side	(mm ^{1/8})	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8
Liquid Side	(mm ^{1/8})	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8
Drain Port	(mm)	20 male screw	20 male screw	20 male screw
Power Cable From Outdoor To Indoor		3 core + earth	3 core + earth	3 core + earth
Remote Controller		Required	Required	Required
OUTDOOR UNIT				
Standard Air Flow	(l/s)	1717	1717	1717
Standard Air Flow	(m ³ /h)	6180	6180	6180
Sound Pressure Level Cooling/Heating	(dBA)	51 / 52	51 / 52	51 / 53
Sound Power Level Cooling/Heating	(dBA)	68 / 69	68 / 69	68 / 70
Refrigerant Base Charge/Chargeless To	(kg/m)	3.1 / 30	3.1 / 30	3.1 / 30
Refrigerant Additional Charge Main Liquid Side	(g/m)	40	40	40
Minimum/maximum piping length	(m)	3 / 75	3 / 75	3 / 75
Height Difference Outdoor To Indoor	(m)	±30	±30	±30
Pipe Connections Gas Side	(mm ^{1/8})	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8
Pipe Connections Liquid Side	(mm ^{1/8})	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8
Drain Port Connector Hose Inner Diameter	(mm)	16	16	16
Height/Width/Depth	(mm)	1340 / 900 / 320	1340 / 900 / 320	1340 / 900 / 320
Total Weight	(kg)	93	95	95
Maximum Run Current	(Amps)	15.76	5.42	6.66
Power Supply		1 phase 230v 50Hz	3 phase 400v 50Hz	3 phase 400v 50Hz
Suggested Fused Supply	(Amps)	25	16	16

PRELIMINARY SPECIFICATION

DIGITAL INVERTER HEAT PUMP

TWIN-SPLIT COMBINATIONS		FLOOR MOUNTED CABINET					
INDOOR UNIT 1	MMF-	AP0156H-E	AP0186H-E	AP0246H-E	AP0246H-E	AP0366H-E	AP0486H-E
INDOOR UNIT 2	MMF-	AP0156H-E	AP0186H-E	AP0246H-E	AP0246H-E	AP0366H-E	AP0486H-E
OUTDOOR UNIT	RAV-	SM804ATP-E	SM1104ATP-E	SM1404ATP-E	SM1603AT-E	SM2244AT8-E	SM2804AT8-E
Cooling Capacity	(kW)	6.9 (1.5 - 7.4)	10.0 (3.0 - 11.2)	12.1 (3.0 - 13.2)	14.0 (3.0 - 16.0)	20.0 (9.8 - 22.4)	23.0 (9.8 - 27.0)
Heating Capacity	(kW)	7.7 (1.5 - 9.0)	11.2 (3.0 - 12.5)	12.8 (3.0 - 16.0)	16.0 (3.0 - 18.0)	22.4 (9.8 - 25.0)	27.0 (9.8 - 31.5)
UK Total Cooling/Sensible Cooling Capacity	(kW)	6.60/5.00	9.50/7.20	11.50/8.40	13.30/9.30	19.30/13.50	22.20/14.90
UK Heating Capacity	(kW)	5.51	8.01	9.16	10.45	14.63	17.63
Operating Range Cooling/Heating	(°C)	46 to -15/15 to -15	46 to -15/15 to -15	46 to -15/15 to -15	43 to -15/15 to -15	46 to -15/15 to -20	46 to -15/15 to -20
Cooling	EER	2.90	3.22	2.74	3.01	2.81	2.41
Heating	COP	3.62	3.81	3.73	3.47	3.50	3.41
INDOOR UNIT							
Standard Air Flow H/M/L	(l/s)	250/217/17	250/217/17	333/275/67	333/275/67	533/450/50	600/517/100
Standard Air Flow H/M/L	(m3/h)	900/780/660	900/780/660	1200/990/840	1200/990/840	1920/1620/1380	2160 /1730/1560
Sound Pressure Level H/M/L	(dBA)	46/42/37	46/42/37	49/45/39	49/45/39	51/46/41	54/49/44
Sound Power Level H/M/L	(dBA)	64/60/55	64/60/55	67/63/57	67/63/57	69/64/59	72/67/62
Height/Width/Depth	(mm)	1750/600/210	1750/600/210	1750/600/210	1750/600/210	1750/600/390	1750/600/390
Total Weight	(kg)	46	46	47	47	62	62
Gas Side	(mm/°)	12.7 - 1/2	12.7 - 1/2	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8
Liquid Side	(mm/°)	6.4 - 1/4	6.4 - 1/4	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8
Drain Port	(mm)	20 male screw	20 male screw	20 male screw	20 male screw	20 male screw	20 male screw
Power Cable From Outdoor To Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Cable Header Indoor To Follower Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller (Standard Supplied)		Required	Required	Required	Required	Required	Required
OUTDOOR UNIT							
Standard Air Flow	(l/s)	750	1133	1167	1717	2222	2500
Standard Air Flow	(m3/h)	2700	4080	4200	6180	8000	9000
Sound Pressure Level Cooling/Heating	(dBA)	48/52	53/54	54/55	51/53	56/57	57/58
Sound Power Level Cooling/Heating	(dBA)	65/69	70/71	70/71	68/70	72/74	74/75
Refrigerant Base Charge/Chargeless To	(kg/m)	1.7/20	2.8/32	2.8/32	3.1/32	5.9/32	5.9/32
Refrigerant Additional Charge Main Liquid Side	(g/m)	40	40	40	40	80	80
Refrigerant Additional Charge Sub Liquid Side	(g/m)	20	20	40	40	40	40
Minimum/maximum piping length	(m)	5/30	5/50	5/50	5/50	7.5/70	7.5/70
Height Difference Outdoor To Indoor	(m)	30	±30	±30	±30	±30	±30
Height Difference Indoor To Indoor	(m)	±0.5	±0.5	±0.5	±0.5	±0.5	±0.5
Branch Pipes Max. Length Main Distributor To Furthest Indoor	(m)	10	15	15	15	20	20
Max. Subtractive Separation Between Indoors	(m)	5	10	10	10	10	10
Pipe Connections Gas Side Sub Branch Line To Indoor	(mm/°)	12.7 - 1/2	12.7 - 1/2	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8
Pipe Connections Liquid Side Sub Branch Line To Indoor	(mm/°)	6.4 - 1/4	6.4 - 1/4	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8
Pipe Connections Gas Side Main Line To Distributor	(mm)	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8	28.6 - 1 1/8	28.6 - 1 1/8
Pipe Connections Liquid Side Main Line To Distributor	(mm)	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2	12.7 - 1/2
Drain Port Connector Hose Inner Diameter	(mm)	16	16	16	16	16	16
Height/Width/Depth	(mm)	550/780/290	890/900/320	890/900/320	1340/900/320	1540/900/320	1540/900/320
Total Weight	(kg)	39	68	68	99	134	134
Maximum Run Current	(Amps)	12.23	15.04	21.37	21.70	13.33	15.83
Power Supply		1 phase 230v 50Hz	1 phase 230v 50Hz	1 phase 230v 50Hz	1 phase 230v 50Hz	3 phase 400v 50Hz	3 phase 400v 50Hz
Suggested Fused Supply	(Amps)	16	20	32	32	16	20

PRELIMINARY SPECIFICATION

DIGITAL INVERTER HEAT PUMP

TRIPLE-SPLIT COMBINATIONS		FLOOR MOUNTED CABINET			
INDOOR UNIT 1	MMF-	MMF-AP0156H-E	MMF-AP0186H-E	MMF-AP0246H-E	MMF-AP0246H-E
INDOOR UNIT 2	MMF-	MMF-AP0156H-E	MMF-AP0186H-E	MMF-AP0246H-E	MMF-AP0246H-E
INDOOR UNIT 3	MMF-	MMF-AP0156H-E	MMF-AP0186H-E	MMF-AP0246H-E	MMF-AP0246H-E
OUTDOOR UNIT	RAV-	SM1404ATP-E	SM1603AT-E	SM2244AT8-E	SM2804AT8-E
Cooling Capacity	(kW)	12.1 (3.0 - 13.2)	14.0 (3.0 - 16.0)	20.0 (9.8 - 22.4)	23.0 (9.8-27.0)
Heating Capacity	(kW)	12.8 (3.0 - 16.0)	16.0 (3.0 - 18.0)	22.4 (9.8 - 25.0)	27.0 (9.8-31.5)
UK Total Cooling/Sensible Cooling Capacity	(kW)	11.50 / 8.40	13.30 / 9.30	19.30 / 13.50	22.20 / 14.90
UK Heating Capacity	(kW)	9.16	10.45	14.63	17.63
Operating Range Cooling/Heating	(°C)	46 to -15 / 15 to -15	43 to -15 / 15 to -15	46 to -15 / 15 to -20	46 to -15 / 15 to -20
Cooling	EER	2.74	3.01	2.81	2.41
Heating	COP	3.73	3.47	3.50	3.41
INDOOR UNIT					
Standard Air Flow H/M/L	(l/s)	250/217/17	250/217/17	333/275/67	333/275/67
Standard Air Flow H/M/L	(m3/h)	900/780/660	900/780/660	1200/990/840	1200/990/840
Sound Pressure Level H/M/L	(dBA)	46/42/37	46/42/37	49/45/39	49/45/39
Sound Power Level H/M/L	(dBA)	64/60/55	64/60/55	67/63/57	67/63/57
Height/Width/Depth	(mm)	1750/600/210	1750/600/210	1750/600/210	1750/600/210
Total Weight	(kg)	46	46	47	47
Gas Side	(mm/")	12.7 - 1/2	12.7 - 1/2	15.9 - 5/8	15.9 - 5/8
Liquid Side	(mm/")	6.4 - 1/4	6.4 - 1/4	9.5 - 3/8	9.5 - 3/8
Drain Port	(mm)	20 male screw	20 male screw	20 male screw	20 male screw
Power Cable From Outdoor To Header Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Cable Header Indoor To Follower Indoor		2 core + earth	2 core + earth	2 core + earth	2 core + earth
Remote Controller (Standard Supplied)		Required	Required	Required	Required
OUTDOOR UNIT					
Standard Air Flow	(l/s)	1167	1717	2222	2500
Standard Air Flow	(m3/h)	4200	6180	8000	9000
Sound Pressure Level Cooling/Heating	(dBA)	54 / 55	51 / 53	56 / 57	57 / 58
Sound Power Level Cooling/Heating	(dBA)	70 / 71	68 / 70	72 / 74	74 / 75
Refrigerant Base Charge/Chargeless To	(kg/m)	2.8 / 32	3.1 / 32	5.9 / 32	5.9 / 32
Refrigerant Additional Charge Main Liquid Side	(g/m)	40	40	80	80
Refrigerant Additional Charge Sub Liquid Side	(g/m)	40	40	40	40
Minimum/maximum piping length	(m)	5 / 50	5 / 50	7.5 / 70	7.5 / 70
Height Difference Outdoor To Indoor	(m)	±30	±30	±30	±30
Height Difference Indoor To Indoor	(m)	±0.5	±0.5	±0.5	±0.5
Branch Pipes Max. Length Main Distributor To Furthest Indoor	(m)	15	15	20	20
Max. Subtractive Separation Between Indoors	(m)	10	10	10	10
Pipe Connections Gas Side Sub Branch Line To Indoor	(mm/")	15.9 - 5/8	12.7 - 1/2	15.9 - 5/8	15.9 - 5/8
Pipe Connections Liquid Side Sub Branch Line To Indoor	(mm/")	9.5 - 3/8	6.4 - 1/4	9.5 - 3/8	9.5 - 3/8
Pipe Connection Brach-Kit		RBC-TWP101E	RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
Pipe Connections Gas Side Main Line To Distributor	(mm)	15.9 - 5/8	15.9 - 5/8	28.6 - 1 1/8	28.6 - 1 1/8
Pipe Connections Liquid Side Main Line To Distributor	(mm)	9.5 - 3/8	9.5 - 3/8	12.7 - 1/2	12.7 - 1/2
Drain Port Connector Hose Inner Diameter	(mm)	16	16	16	16
Height/Width/Depth	(mm)	890 / 900 / 320	1340 / 900 / 320	1540 / 900 / 320	1540 / 900 / 320
Total Weight	(kg)	68	99	134	134
Maximum Run Current	(Amps)	22.78	21.70	13.33	15.83
Power Supply		1 phase 230v 50Hz	1 phase 230v 50Hz	3 phase 400v 50Hz	3 phase 400v 50Hz
Suggested Fused Supply	(Amps)	32	32	16	20

PRELIMINARY SPECIFICATION

SUPER DIGITAL INVERTER HEAT PUMP

TRIPLE-SPLIT COMBINATIONS		FLOOR MOUNTED CABINET		
INDOOR UNIT 1	MMF-	MMF-AP0156H-E	MMF-AP0156H-E	MMF-AP0186H-E
INDOOR UNIT 2	MMF-	MMF-AP0156H-E	MMF-AP0156H-E	MMF-AP0186H-E
INDOOR UNIT 3	MMF-	MMF-AP0156H-E	MMF-AP0156H-E	MMF-AP0186H-E
OUTDOOR UNIT	RAV-	SP1404AT-E	SP1404AT8-E	SP1604AT8-E
Cooling Capacity	(kW)	12.5 (2.6 - 14.0)	12.5 (2.6 - 14.0)	14.0 (2.6 - 16.0)
Heating Capacity	(kW)	14.0 (2.4 - 16.5)	14.0 (2.4 - 18.0)	16.0 (2.4 - 19.0)
UK Total Cooling/Sensible Cooling Capacity	(kW)	11.90 / 8.70	11.90 / 8.70	13.30 / 9.30
UK Heating Capacity	(kW)	9.14	9.14	10.45
Operating Range Cooling/Heating	(°C)	43 to -15 / 15 to -20	46 to -15 / 15 to -20	46 to -15 / 15 to -20
Cooling	EER	3.21	3.36	3.11
Heating	COP	3.87	3.93	3.71
INDOOR UNIT				
Standard Air Flow H/M/L	(l/s)	250/217/17	250/217/17	250/217/17
Standard Air Flow H/M/L	(m3/h)	900/780/660	900/780/660	900/780/660
Sound Pressure Level H/M/L	(dBA)	46/42/37	46/42/37	46/42/37
Sound Power Level H/M/L	(dBA)	64/60/55	64/60/55	64/60/55
Height/Width/Depth	(mm)	1750/600/210	1750/600/210	1750/600/210
Total Weight	(kg)	46	46	46
Gas Side	(mm")	12.7 - 1/2	12.7 - 1/2	12.7 - 1/2
Liquid Side	(mm")	6.4 - 1/4	6.4 - 1/4	6.4 - 1/4
Drain Port	(mm)	20 male screw	20 male screw	20 male screw
Power Cable From Outdoor To Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Cable Header Indoor To Follower Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller (Standard Supplied)		Required	Required	Required
OUTDOOR UNIT				
Standard Air Flow	(l/s)	1717	1717	1717
Standard Air Flow	(m3/h)	6180	6180	6180
Sound Pressure Level Cooling/Heating	(dBA)	51 / 52	51 / 52	51 / 53
Sound Power Level Cooling/Heating	(dBA)	68 / 69	68 / 69	68 / 70
Refrigerant Base Charge/Chargeless To	(kg/m)	3.1 / 32	3.1 / 32	3.1 / 32
Refrigerant Additional Charge Main Liquid Side	(g/m)	40	40	40
Refrigerant Additional Charge Sub Liquid Side	(g/m)	40	40	40
Minimum/maximum piping length	(m)	3 / 50	3 / 50	3 / 50
Height Difference Outdoor To Indoor	(m)	±30	±30	±30
Height Difference Indoor To Indoor	(m)	±0.5	±0.5	±0.5
Branch Pipes Max. Length Main Distributor To Furthest Indoor	(m)	15	15	15
Max. Subtractive Separation Between Indoors	(m)	10	10	10
Pipe Connections Gas Side Sub Branch Line To Indoor	(mm")	12.7 - 1/2	12.7 - 1/2	15.9 - 5/8
Pipe Connections Liquid Side Sub Branch Line To Indoor	(mm")	6.4 - 1/4	6.4 - 1/4	9.5 - 3/8
Pipe Connection Brach-Kit		RBC-TRP100E	RBC-TRP100E	RBC-TRP100E
Pipe Connections Gas Side Main Line To Distributor	(mm)	15.9 - 5/8	15.9 - 5/8	15.9 - 5/8
Pipe Connections Liquid Side Main Line To Distributor	(mm)	9.5 - 3/8	9.5 - 3/8	9.5 - 3/8
Drain Port Connector Hose Inner Diameter	(mm)	16	16	16
Height/Width/Depth	(mm)	1340 / 900 / 320	1340 / 900 / 320	1340 / 900 / 320
Total Weight	(kg)	93	95	95
Maximum Run Current	(Amps)	15.76	5.42	6.66
Power Supply		1 phase 230v 50Hz	3 phase 400v 50Hz	3 phase 400v 50Hz
Suggested Fused Supply	(Amps)	25	16	16

PRELIMINARY SPECIFICATION

DIGITAL INVERTER HEAT PUMP

QUAD-SPLIT COMBINATIONS		FLOOR MOUNTED CABINET		
INDOOR UNIT 1	MMF-	MMF-AP0156H-E	MMF-AP0186H-E	MMF-AP0246H-E
INDOOR UNIT 2	MMF-	MMF-AP0156H-E	MMF-AP0186H-E	MMF-AP0246H-E
INDOOR UNIT 3	MMF-	MMF-AP0156H-E	MMF-AP0186H-E	MMF-AP0246H-E
INDOOR UNIT 4	MMF-	MMF-AP0156H-E	MMF-AP0186H-E	MMF-AP0246H-E
OUTDOOR UNIT	RAV-	SM1603AT-E	SM2244AT8-E	SM2804AT8-E
Cooling Capacity	(kW)	14.0 (3.0 - 16.0)	20.0 (9.8 - 22.4)	23.0 (9.8 - 27.0)
Heating Capacity	(kW)	16.0 (3.0 - 18.0)	22.4 (9.8 - 25.0)	27.0 (9.8 - 31.5)
UK Total Cooling/Sensible Cooling Capacity	(kW)	13.30 / 9.30	19.30 / 13.50	22.20 / 14.90
UK Heating Capacity	(kW)	10.45	14.63	17.63
Operating Range Cooling/Heating	(°C)	43 to -15 / 15 to -15	46 to -15 / 15 to -20	46 to -15 / 15 to -20
Cooling	EER	3.01	2.81	2.41
Heating	COP	3.47	3.50	3.41
INDOOR UNIT				
Standard Air Flow H/M/L	(l/s)	250/217/17	250/217/17	333/275/67
Standard Air Flow H/M/L	(m3/h)	900/780/660	900/780/660	1200/990/840
Sound Pressure Level H/M/L	(dBA)	46/42/37	46/42/37	49/45/39
Sound Power Level H/M/L	(dBA)	64/60/55	64/60/55	67/63/57
Height/Width/Depth	(mm)	1750/600/210	1750/600/210	1750/600/210
Total Weight	(kg)	46	46	47
Gas Side	(mm")	12.7 - 1/2	12.7 - 1/2	15.9 - 5/8
Liquid Side	(mm")	6.4 - 1/4	6.4 - 1/4	9.5 - 3/8
Drain Port	(mm)	20 male screw	20 male screw	20 male screw
Power Cable From Outdoor To Header Indoor		3 core + earth	3 core + earth	3 core + earth
Power Cable Header Indoor To Follower Indoor		2 core + earth	2 core + earth	2 core + earth
Remote Controller (Standard Supplied)		Required	Required	Required
OUTDOOR UNIT				
Standard Air Flow	(l/s)	1717	2222	2500
Standard Air Flow	(m3/h)	6180	8000	9000
Sound Pressure Level Cooling/Heating	(dBA)	51 / 53	56 / 57	57 / 58
Sound Power Level Cooling/Heating	(dBA)	68 / 70	72 / 74	74 / 75
Refrigerant Base Charge/Chargeless To	(kg/m)	3.1 / 32	5.9 / 32	5.9 / 32
Refrigerant Additional Charge Main Liquid Side	(g/m)	40	80	80
Refrigerant Additional Charge Sub Liquid Side	(g/m)	40	40	40
Minimum/maximum piping length	(m)	5 / 50	7.5 / 70	7.5 / 70
Height Difference Outdoor To Indoor	(m)	±30	±30	±30
Height Difference Indoor To Indoor	(m)	±0.5	±0.5	±0.5
Branch Pipes Max. Length Main Distributor To Furthest Indoor	(m)	15	20	20
Max. Distance From Second Distributor To Indoor	(m)	10	15	15
Max. Subtractive Separation Between Indoors	(m)	5	6	6
Pipe Connections Gas Side Sub Branch Line To Indoor	(mm")	12.7 - 1/2	12.7 - 1/2	15.9 - 5/8
Pipe Connections Liquid Side Sub Branch Line To Indoor	(mm")	6.4 - 1/4	6.4 - 1/4	9.5 - 3/8
Gas Side Sub Branch Line To Second Distributor	(mm")	12.7 - 1/2	15.9 - 5/8	15.9 - 5/8
Liquid Side Sub Branch Line To Second Distributor	(mm")	6.4 - 1/4	9.5 - 3/8	9.5 - 3/8
Pipe Connections Gas Side Main Line To Distributor	(mm)	15.9 - 5/8	28.6 - 1 1/8	28.6 - 1 1/8
Pipe Connections Liquid Side Main Line To Distributor	(mm)	9.5 - 3/8	12.7 - 1/2	12.7 - 1/2
Drain Port Connector Hose Inner Diameter	(mm)	16	16	16
Height/Width/Depth	(mm)	1340 / 900 / 320	1540 / 900 / 320	1540 / 900 / 320
Total Weight	(kg)	99	134	134
Maximum Run Current	(Amps)	15.9 - 5/8	28.6 - 1 1/8	28.6 - 1 1/8
Power Supply		1 phase 230v 50Hz	3 phase 400v 50Hz	3 phase 400v 50Hz
Suggested Fused Supply	(Amps)	32	16	20

PRELIMINARY SPECIFICATION

SUPER DIGITAL INVERTER HEAT PUMP

QUAD-SPLIT COMBINATIONS		FLOOR MOUNTED CABINET
INDOOR UNIT 1	MMF-	MMF-AP0156H-E
INDOOR UNIT 2	MMF-	MMF-AP0156H-E
INDOOR UNIT 3	MMF-	MMF-AP0156H-E
INDOOR UNIT 4	MMF-	MMF-AP0156H-E
OUTDOOR UNIT	RAV-	SP1604AT8-E
Cooling Capacity	(kW)	14.0 (2.6 - 16.0)
Heating Capacity	(kW)	16.0 (2.4 - 19.0)
UK Total Cooling/Sensible Cooling Capacity	(kW)	13.30 / 9.30
UK Heating Capacity	(kW)	10.45
Operating Range Cooling/Heating	(°C)	46 to -15 / 15 to -20
Cooling	EER	3.11
Heating	COP	3.71
INDOOR UNIT		
Standard Air Flow H/M/L	(l/s)	250/217/17
Standard Air Flow H/M/L	(m3/h)	900/780/660
Sound Pressure Level H/M/L	(dBA)	46/42/37
Sound Power Level H/M/L	(dBA)	64/60/55
Height/Width/Depth	(mm)	1750/600/210
Total Weight	(kg)	46
Gas Side	(mm")	12.7 - 1/2
Liquid Side	(mm")	6.4 - 1/4
Drain Port	(mm)	20 male screw
Power Cable From Outdoor To Header Indoor		3 core + earth
Power Cable Header Indoor To Follower Indoor		2 core + earth
Remote Controller (Standard Supplied)		Required
OUTDOOR UNIT		
Standard Air Flow	(l/s)	1717
Standard Air Flow	(m3/h)	6180
Sound Pressure Level Cooling/Heating	(dBA)	51 / 53
Sound Power Level Cooling/Heating	(dBA)	68 / 70
Refrigerant Base Charge/Chargeless To	(kg/m)	3.1 / 32
Refrigerant Additional Charge Main Liquid Side	(g/m)	40
Refrigerant Additional Charge Sub Liquid Side	(g/m)	40
Minimum/maximum piping length	(m)	3 / 50
Height Difference Outdoor To Indoor	(m)	±30
Height Difference Indoor To Indoor	(m)	±0.5
Branch Pipes Max. Length Main Distributor To Furthest Indoor	(m)	15
Max. Distance From Second Distributor To Indoor	(m)	10
Max. Subtractive Separation Between Indoors	(m)	5
Pipe Connections Gas Side Sub Branch Line To Indoor	(mm")	12.7 - 1/2
Pipe Connections Liquid Side Sub Branch Line To Indoor	(mm")	6.4 - 1/4
Gas Side Sub Branch Line To Second Distributor	(mm")	12.7 - 1/2
Liquid Side Sub Branch Line To Second Distributor	(mm")	6.4 - 1/4
Pipe Connections Gas Side Main Line To Distributor	(mm)	15.9 - 5/8
Pipe Connections Liquid Side Main Line To Distributor	(mm)	9.5 - 3/8
Drain Port Connector Hose Inner Diameter	(mm)	16
Height/Width/Depth	(mm)	1340 / 900 / 320
Total Weight	(kg)	95
Maximum Run Current	(Amps)	6.66
Power Supply		3 phase 400v 50Hz
Suggested Fused Supply	(Amps)	16