



Ducted Indoor Unit










CODE			50	67	90	95	95
Performance							
Indoor Unit		RAV-	RM561BTP-E	RM801BTP-E	GM901BTP-E	RM1101BTP-E	RM1101BTP-E
Outdoor Unit		RAV-	GM561ATP-E	GM801ATP-E	GM901ATP-E	GM1101ATP-E	GM1101AT8P-E
Nominal	Cooling Capacity	kW	5.0	6.7	8.0	9.5	9.5
	Heating Capacity	kW	5.3	7.7	9.0	11.2	11.2
	EER/COP	W/W	2.73/3.27	2.82/3.32	3/3.4	3.18/3.75	3.18/3.75
UK	Cooling Total/Sensible	kW	4.80/3.60	6.30/4.90	7.83/5.78	9.10/7.37	9.10/7.37
	Heating	kW	3.79	5.51	6.12	8.01	8.01
Cooling EN14825	Range Min. - Max.	kW	1.5 - 5.6	1.5 - 7.4	1.9 - 8.8	3.0 - 11.2	3.0 - 11.2
	Power Input	kW	1.83	2.38	2.67	2.99	2.99
	Pdesign	kW	5.00	6.70	6.7	9.50	9.50
	SEER/Energy Efficiency Class (or ηsc %)		5.28/A	5.2/A	6.10/A++	5.28/A	5.28/A
	Seasonal Energy Consumption	kWh/a	365	466	459	696	696
Heating EN14825	Range Min. - Max.	kW	1.5 - 6.3	1.5 - 9.0	1.8 - 9.9	3.0 - 13.0	3.0 - 13.0
	Power Input	kW	1.62	2.32	2.65	2.99	2.99
	Pdesign	kW	2.80	5.10	5.10	7.60	7.60
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.08/A+	4.13/A+	4.60/A++	4.19/A+	4.19/A+
	Seasonal Energy Consumption	kWh/a	1549	2450	1917	2569	2569

Indoor Data		RAV-	RM561BTP-E	RM801BTP-E	GM901BTP-E	RM1101BTP-E	RM1101BTP-E
Air Flow	High - Medium - Low	l/s	222 - 175 - 133	333 - 258 - 200	472 - 375 - 278	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	800 - 630 - 480	1200 - 930 - 720	1700 - 1350 - 1000	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	30 (120 - 30)	30 (120 - 30)	30 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	33 - 29 - 25	34 - 30 - 26	37 - 33 - 30	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	48 - 44 - 40	49 - 45 - 41	52 - 48 - 45	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	23	30	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850	< 850
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E

Outdoor Data		RAV-	GM561ATP-E	GM801ATP-E	GM901ATP-E	GM1101ATP-E	GM1101AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	2400 - 667	2700 - 750	2900 - 806	4080 - 1133	4080 - 1133
Sound	Pressure High Cooling/Heating	dB(A)	46/48	48/52	51/55	54/57	54/57
	Power High Cooling/Heating	dB(A)	63/65	65/69	68/72	70/74	70/74
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320
	Weight	kg	40	44	47	68	69
Pipe Connection	Flare Connections (gas - liquid)	inch	1/2 - 1/4	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-30	5-30	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.9/20	R32 - 1.3/20	R32 - 2.0/20	R32 - 2.1/30	R32 - 2.1/30
	Additional Charge Liquid Side	g/m	20	35	35	35	35
Run Current	Maximum	A	8.58	11.20	12.91	14.50	4.85
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-16	220-240/1/50-16	220-240/1/50-20	220-240/1/50-20	380-415/3/50-10

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller
RBC-VCK1	Vertical Mounting	Ducted vertical conversion kit
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM90#_160#BTP-E

 Concealed false ceiling installation	 Auto-diagnosis	 Low ambient cooling to -15°C DB	 Built-in drain pump	 Automatic restart
 Single-split	 Chargeless	 Wired controller	 Self-cleaning	



Ducted Indoor Unit (continued)










CODE		121	121	140	140	
Performance						
Indoor Unit		RAV-	RM1401BTP-E	RM1401BTP-E	RM1601BTP-E	RM1601BTP-E
Outdoor Unit		RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E
Nominal	Cooling Capacity	kW	12.1	12.1	14.0	14.0
	Heating Capacity	kW	12.8	12.8	16.0	16.0
UK	EER/COP	W/W	2.74/3.61	2.74/3.61	2.73/3.41	2.73/3.41
	Cooling Total/Sensible	kW	11.15/8.90	11.15/8.90	13.30/9.70	13.30/9.70
Cooling EN14825	Heating	kW	9.30	9.30	10.88	10.88
	Range Min. - Max.	kW	3.0 - 13.2	3.0 - 13.2	3.0 - 16.0	3.0 - 16.0
Heating EN14825	Power Input	kW	4.67	4.42	5.13	5.13
	Pdesign	kW	12.00	12.00	12.0	12.0
SEER/Energy Efficiency Class (or ηsc %)	SEER/Energy Efficiency Class (or ηsc %)		5.36/211.4	5.36/211.4	5.30/202.2	5.30/202.2
	Seasonal Energy Consumption	kWh/a	707	707	925	925
Heating EN14825	Range Min. - Max.	kW	3.0 - 16.0	3.0 - 16.0	3.0 - 18.0	3.0 - 18.0
	Power Input	kW	3.60	3.60	4.69	4.69
SCOP/Energy Efficiency Class (or ηsc(A) %)	Pdesign	kW	8.0	8.0	8.0	8.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		4.19/164.6	4.19/164.6	3.90/153.0	3.90/153.0
Seasonal Energy Consumption	kWh/a	2569	2569	2782	2782	

Indoor Data		RAV-	RM1401BTP-E	RM1401BTP-E	RM1601BTP-E	RM1601BTP-E
Air Flow	High - Medium - Low	l/s	583 - 458 - 350	583 - 458 - 350	583 - 458 - 350	583 - 458 - 350
	High - Medium - Low	m³/h	2100 - 1650 - 1260	2100 - 1650 - 1260	2100 - 1650 - 1260	2100 - 1650 - 1260
External Static Pressure	Standard (Upper - Lower)	Pa	50 (120 - 30)	50 (120 - 30)	50 (120 - 30)	50 (120 - 30)
Sound	Pressure High - Medium - Low	dB(A)	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33	40 - 36 - 33
	Power High - Medium - Low	dB(A)	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48	55 - 51 - 48
Unit	Height x Width x Depth	mm	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
	Weight	kg	40	40	40	40
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850	< 850
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E

Outdoor Data		RAV-	GM1401ATP-E	GM1401AT8P-E	GM1601ATP-E	GM1601AT8P-E
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	4200 - 1167	4200 - 1167	6900 - 1917	6900 - 1917
Sound	Pressure High Cooling/Heating	dB(A)	55/57	55/57	53/55	53/55
	Power High Cooling/Heating	dB(A)	70/74	70/74	70/72	70/72
Unit	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
	Weight	kg	68	69	95	94
Pipe Connection	Flare Connections (gas - liquid)	inch	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8	5/8 - 3/8
	Min.-Max. Length	m	5-50	5-50	5-50	5-50
	Maximum Height Difference	m	±30	±30	±30	±30
	Drain Port Connection	mm	16	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 2.1/30	R32 - 2.1/30	R32 - 2.4/30	R32 - 2.4/30
	Additional Charge Liquid Side	g/m	35	35	35	35
Run Current	Maximum	A	21.40	7.15	24.81	8.27
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-32	380-415/3/50-16	220-240/1/50-32	380-415/3/50-16

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller
RBC-VCK1	Vertical Mounting	Ducted vertical conversion kit
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space
TCB-SF56C6BPE	Discharge Spigot 2 x 200 mm	RAV-SM40#_56#BTP-E1
TCB-SF80C6BPE	Discharge Spigot 3 x 200 mm	RAV-SM80#BTP-E1
TCB-SF160C6BPE	Discharge Spigot 4 x 200 mm	RAV-SM90#_160#BTP-E

 Concealed false ceiling installation	 Auto-diagnosis	 Low ambient cooling to -15°C DB	 Built-in drain pump	 Automatic restart
 Self-cleaning	 Single-split	 Chargeless	 Wired controller	



DIGITAL INVERTER



Slim Ducted Indoor Unit

CODE		25	36	50	
Performance					
Indoor Unit		RAV-	RM301SDT-E	RM401SDT-E	RM561SDT-E
Outdoor Unit		RAV-	GM301ATP-E	GM401ATP-E	GM561ATP-E
Nominal	Cooling Capacity	kW	2.5	3.6	5.0
	Heating Capacity	kW	3.4	4.0	5.3
UK	EER/COP	W/W	4.46/3.95	3.87/4.12	2.62/3.53
	Cooling Total/Sensible	kW	2.40/1.79	3.45/2.84	4.80/3.30
Cooling EN14825	Heating	kW	2.18	2.56	3.79
	Range Min. - Max.	kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6
	Power Input	kW	0.56	0.93	1.91
	Pdesign	kW	2.50	3.60	5.00
	SEER/Energy Efficiency Class		6.29/A++	5.86/A+	5.14/A
	Seasonal Energy Consumption	kWh/a	143	227	346
Heating EN14825	Range Min. - Max.	kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3
	Power Input	kW	0.86	0.97	1.50
	Pdesign	kW	2.60	2.70	2.80
	SCOP/Energy Efficiency Class		4.6/A++	4.01/A+	4.16/A+
	Seasonal Energy Consumption	kWh/a	907	1337	1517
Indoor Data					
Air Flow	High - Medium - Low	l/s	183 - 156 - 133	192 - 167 - 145	217 - 188 - 162
	High - Medium - Low	m³/h	660 - 560 - 480	690 - 600 - 522	780 - 678 - 582
External Static Pressure	Standard (Upper - Lower)	Pa	30 (5 - 45)	30 (5 - 45)	29 (4 - 44)
Sound Pressure	High - Medium - Low	dB(A)	39 - 36 - 33	39 - 36 - 33	45 - 40 - 36
	High - Medium - Low (Under inlet)	dB(A)	45 - 43 - 41	45 - 43 - 41	48 - 46 - 43
Sound Power	High - Medium - Low	dB(A)	54 - 51 - 48	54 - 51 - 48	60 - 55 - 51
	High - Medium - Low (Under inlet)	dB(A)	60 - 58 - 56	60 - 58 - 56	63 - 61 - 58
Unit	Height x Width x Depth	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
	Weight	kg	22	22	22
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Drain Pipe Connection Upper - Lower	mm	VP25 - VP25	VP25 - VP25	VP25 - VP25
	Lift Pump Drain Height from Unit Base	mm	< 850	< 850	< 850
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E	RBC-AMTU31-E
Outdoor Data					
Operating Range	Cooling/Heating	°C	-15 to 46/-15 to 15	-15 to 46/-15 to 15	-15 to 46/-15 to 15
Air Flow	High	m³/h - l/s	1800 - 500	2200 - 611	2400 - 667
Sound	Pressure High Cooling/Heating	dB(A)	46/47	49/50	46/48
	Power High Cooling/Heating	dB(A)	61/62	64/65	63/65
Unit	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Weight	kg	33	39	40
Pipe Connection	Flare Connections (gas - liquid)	inch	3/8 - 1/4	1/2 - 1/4	1/2 - 1/4
	Min.-Max. Length	m	2-20	2-20	5-30
	Maximum Height Difference	m	±10	±10	±30
	Drain Port Connection	mm	16	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	R32 - 0.63/15	R32 - 0.9/15	R32 - 0.9/20
	Additional Charge Liquid Side	g/m	20	20	20
Run Current	Maximum	A	4.20	4.75	8.95
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-10	220-240/1/50-10	220-240/1/50-16

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual
TCB-AX32E2	External Receiver	Independent receiver and WH-L11SE remote controller for all models
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space



Concealed false ceiling installation



Auto-diagnosis



Low ambient cooling to -15°C DB



Automatic restart



Built-in drain pump



Self-cleaning



Single-split



Chargeless



Wired controller

TOSHIBA





High-Static Ducted Indoor Unit

CODE			200	230
Performance				
Indoor Unit		RAV-	RM2241DTP-E2	RM2801DTP-E2
Outdoor Unit		RAV-	GM2241AT8-E1	GM2801AT8-E1
Nominal	Cooling Capacity	kW	19.0	22.5
	Heating Capacity	kW	22.4	27.0
	EER/COP	W/W	3.24/3.92	2.82/3.59
UK	Cooling Total/Sensible	kW	19.0/15.4	22.8/19.3
	Heating	kW	13.78	16.73
Cooling EN14825	Range Min. - Max.	kW	4.6 - 22.4	4.6 - 27.0
	Power Input	kW	5.86	7.98
	Pdesign	kW	19	22.5
	SEER/Energy Efficiency Class (or ηsc %)		4.62/181.8	4.61/181.4
	Seasonal Energy Consumption	kWh/a	2468	2928
Heating EN14825	Range Min. - Max.	kW	4.6-25.0	4.6-31.5
	Power Input	kW	5.71	7.52
	Pdesign	kW	18.0	20.0
	SCOP/Energy Efficiency Class (or ηsc(A) %)		3.51/137.4	3.44/134.6
	Seasonal Energy Consumption	kWh/a	7174	8136

Indoor Data		RAV-	RM2241DTP-E2	RM2801DTP-E2
Air Flow	High - Medium - Low	l/s	1056 - 889 - 694	1333 - 1167 - 972
	High - Medium - Low	m ³ /h	3800 - 3200 - 2500	4800 - 4200 - 3500
External Static Pressure	Standard (Upper - Lower)	Pa	150 (250 - 50)	150 (250 - 50)
Sound	Pressure High - Medium - Low	dB(A)	44 - 40 - 36	46 - 42 - 38
	Power High - Medium - Low	dB(A)	79 - 75 - 71	81 - 77 - 73
Unit	Height x Width x Depth	mm	448 x 1400 x 900	448 x 1400 x 900
	Weight	kg	97	97
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Drain Pipe Connection OD/ID	mm	VP32/25	VP32/25
Power Supply	Suggested Fuse Size	V/ph/Hz-A	220-240/1/50-15	220-240/1/50-15
Remote Controller			RBC-AMTU31-E	RBC-AMTU31-E

Outdoor Data		RAV-	GM2241AT8-E1	GM2801AT8-E1
Operating Range	Cooling/Heating	°C	46 to -15/15 to -27	46 to -15/15 to -27
Air Flow	High	m ³ /h - l/s	9150 - 2542	10890 - 3025
Sound	Pressure High Cooling/Heating	dB(A)	58/60	61/63
	Power High Cooling/Heating	dB(A)	76/76	78/80
Unit	Height x Width x Depth	mm	1550 x 1010 x 370	1550 x 1010 x 370
	Weight	kg	142	142
Pipe Connection	Flare Connections (gas - liquid)	inch	1-1/8 - 1/2	1-1/8 - 1/2
	Min.-Max. Length	m	5-100	5-100
	Maximum Height Difference	m	±30	±30
	Drain Port Connection	mm	16	16
Refrigerant	Gas - Base Charge/Chargeless Length	kg/m	5.0/30	5.0/30
	Additional Charge Liquid Side	g/m	80	80
Run Current	Maximum	A	9.52	13.04
Power Cable	Outdoor to Indoor		3 core + earth	3 core + earth
Power Supply	Suggested Fuse Size	V/ph/Hz-A	380-415/3/50-16	380-415/3/50-20

Accessories

RBC-AMS41E	Remote Controller Built-In Timer	Full control including service functions with fully-programmable 7-day timer
RBC-MTSC1	Mini Touch Screen Controller	Mini touch screen controller with configurable icons
RBC-MTSC2	Mini Touch Screen Controller	Mini touch screen controller with configurable icons with schedule timer
RBC-AMSU51-ES	Remote Controller	Includes timer and backlight display as well as power-save functions, multilingual
RBC-AS41E	Simplified Controller	Ideal for hotel and basic use applications (no service function available)
RBC-ASC11E	Compact Remote Controller	Simplified backlight display controller with timer off, multilingual
RBC-SMF1	Fan Interface	Interface to provide an output to enable an external fan from the unit
RBC-SMT1	CN02 Connector Timer Interface Lead	Lead to provide ON/OFF control from the RBC-AMT32E remote or any central controller
TCB-PCUC2E	Indoor Control Interface	Application control kit
TCB-TC41LE	Remote Sensor	Room temperature sensing in conditioned space



Concealed false ceiling installation



Auto-diagnosis



Chargeless



Low ambient cooling to -15°C DB



Self-cleaning



Single-split



Wired controller



Automatic restart