



RBC-AHU1 Air Handling Unit Applications Digital Inverter

CODE		25	35	50	71	
Outdoor Unit		RAV-	SM304ATP-E	SM404ATP-E	SM564ATP-E	SM804ATP-E
Cooling Range (Min. - Max.)		kW	0.9 - 3.0	0.9 - 4.0	1.5 - 5.6	1.5 - 8.0
Heating Range (Min. - Max.)		kW	0.8 - 4.5	0.8 - 5.0	1.5 - 6.3	1.5 - 9.0
Ambient Operating Range Cooling/Heating		°C	46 to -15/24 to -15	46 to -15/24 to -15	46 to -15/15 to -15	46 to -15/15 to -15
Fan(s)	Motor Power	W	43	43	43	43
	Standard Air Flow	l/s	500	617	667	750
	Standard Air Flow	m³/min	30	37	40	45
	Standard Air Flow	m³/h	1800	2220	2400	2700
Sound	Pressure Level C/H	dB(A)	46/47	49/50	46/48	48/52
	Power Level C/H	dB(A)	61/62	64/65	63/65	65/69
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)
	Heat Exchanger		Finned tube	Finned tube	Finned tube	Finned tube
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
	Compressor Power	kW	0.75	1.1	1.1	1.6
	Height x Width x Depth	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
	Total Weight	kg	33	39	40	44
Refrigerant	Control		Pulse motor valve	Pulse motor valve	Pulse motor valve	Pulse motor valve
	Gas Type		R410A	R410A	R410A	R410A
	Base Charge/Chargeless To	kg/m	0.8/15	1.4/15	1.1/20	1.7/20
	Additional Charge Main Liquid Side	g/m	20	20	20	40
	Replacement Technology	Yes	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12
Pipe Connections	Min.-Max. Length	m	2-20	2-20	5-30	5-30
	Height Difference Outdoor To AHU	m	±10	±10	±30	±30
	Gas Side	inch	3/8	1/2	1/2	5/8
	Liquid Side	inch	1/4	1/4	1/4	3/8
	Drain Port Connector Hose Inner Diameter	mm	16	16	16	16
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Maximum Run Current	A	3.86	5.14	8.95	11.43
	Suggested Fused Supply	A	10	10	16	16
Control Panel		RBC-	AHU1	AHU1	AHU1	AHU1
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150
	Weight	kg	10	10	10	10
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Remote START/STOP	V	0	0	0	0
	Wired controller ON/OFF Lock	V	0	0	0	0
	Suggested Fused Supply	A	6	6	6	6
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	2.5	3.6	5.6	8.0
	Heating	kW	3.4	4.0	6.3	9.0
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4 - 7
	Suction Superheat (Target)	K	5	5	5	5
Heat Exchanger	Air Volume Min. - Max.	m³/h	480 - 720	480 - 880	480 - 1100	700 - 1500
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	4	4	4 - 6	6 - 8
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15



RBC-AHU1 Air Handling Unit Applications Digital Inverter (continued)

CODE		100	100	125	125	
Outdoor Unit		RAV-	SM1104ATP-E	SM1104AT8P-E	SM1404ATP-E	SM1404AT8P-E
Cooling Range (Min. - Max.)		kW	3.0 - 11.2	3.0 - 11.2	3.0 - 13.2	3.0 - 13.2
Heating Range (Min. - Max.)		kW	3.0 - 13.0	3.0 - 13.0	3.0 - 16.0	3.0 - 16.0
Ambient 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
Fan(s)	Motor Power	W	100	100	100	100
	Standard Air Flow	l/s	1133	1133	1167	1167
	Standard Air Flow	m³/min	68	68	70	70
	Standard Air Flow	m³/h	4080	4080	4200	4200
Sound	Pressure Level C/H	dB(A)	53/54	53/54	54/55	54/55
	Power Level C/H	dB(A)	70/71	70/71	70/71	70/71
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)
	Heat Exchanger		Finned tube	Finned tube	Finned tube	Finned tube
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
	Compressor Power	kW	2.5	3.0	3.0	3.0
	Height x Width x Depth	mm	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
	Total Weight	kg	68	68	68	68
	Refrigerant	Control		Pulse motor valve	Pulse motor valve	Pulse motor valve
	Gas Type		R410A	R410A	R410A	R410A
	Base Charge/Chargeless To	kg/m	2.8/30	3.1/30	2.8/30	3.1/30
	Additional Charge Main Liquid Side	g/m	40	40	40	40
	Replacement Technology	Yes	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12
Pipe Connections	Min.-Max. Length	m	5-50	5-50	5-50	5-50
	Height Difference Outdoor To AHU	m	±30	±30	±30	±30
	Gas Side	inch	5/8	5/8	5/8	5/8
	Liquid Side	inch	3/8	3/8	3/8	3/8
	Drain Port Connector Hose Inner Diameter	mm	16	16	16	16
Electrical	Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50	220-240/1/50	380-415/3/50
	Maximum Run Current	A	15.18	3.67	21.37	3.67
	Suggested Fused Supply	A	20	10	32	10
Control Panel		RBC-	AHU1	AHU1	AHU1	AHU1
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150
	Weight	kg	10	10	10	10
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Remote START/STOP	V	0	0	0	0
	Wired controller ON/OFF Lock	V	0	0	0	0
	Suggested Fused Supply	A	6	6	6	6
AHU DX Coil Design (Third Party Supply)			AHU DX Coil	AHU DX Coil	AHU DX Coil	AHU DX Coil
Capacity	Cooling	kW	11.2	11.2	13.2	13.2
	Heating	kW	13.0	13.0	16.0	13.0
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7	4 - 7
	Suction Superheat (Target)	K	5	5	5	5
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 2500	1260 - 2500	1260 - 2750	1260 - 2750
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	6 - 10	6 - 10	8 - 12	6 - 10
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15	4.15



RBC-AHU1 Air Handling Unit Applications Digital Inverter (continued)

CODE		140	200	250	
Outdoor Unit					
Cooling Range (Min. - Max.)		kW	3.0 - 16.0	4.6 - 22.4	4.6 - 27.0
Heating Range (Min. - Max.)		kW	3.0 - 18.0	4.6 - 25.0	4.6 - 31.5
Ambient Operating Range Cooling/Heating		°C	43 to -15/15 to -15	52 to -15/15 to -27	52 to -15/15 to -27
Fan(s)	Motor Power	W	100 + 100	200 + 200	200 + 200
	Standard Air Flow	l/s	1717	2550	3033
	Standard Air Flow	m³/min	103	153	182
	Standard Air Flow	m³/h	6180	9180	10920
Sound	Pressure Level C/H	dB(A)	51/53	58/60	61/63
	Power Level C/H	dB(A)	68/70	76/76	78/80
Unit	Appearance		Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)	Silky Shade (Muncel 1Y 8.5/0.5)
	Heat Exchanger		Finned tube	Finned tube	Finned tube
	Compressor Type		Hermetic Twin Rotary	Hermetic Twin Rotary	Hermetic Twin Rotary
	Compressor Power	kW	3.8	5.6	5.6
	Height x Width x Depth	mm	1340 x 900 x 320	1550 x 1010 x 370	1550 x 1010 x 370
	Total Weight	kg	99	142	142
	Refrigerant	Control		Pulse motor valve	Pulse motor valve
	Gas Type		R410A	R410A	R410A
	Base Charge/Chargeless To	kg/m	3.1/30	5.9/30	5.9/30
	Additional Charge Main Liquid Side	g/m	40	80	80
	Replacement Technology	Yes	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12	R22, R407C, R417A, R134a, R12
Pipe Connections	Min.-Max. Length	m	5-50	5-100	5-100
	Height Difference Outdoor To AHU	m	±30	±30	±30
	Gas Side	inch	5/8	1-1/8*	1-1/8*
	Liquid Side	inch	3/8	1/2	1/2
	Drain Port Connector Hose Inner Diameter	mm	16	16	16
Electrical	Power Supply	V/ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50
	Maximum Run Current	A	21.70	10.78	15.06
	Suggested Fused Supply	A	32	16	20
Control Panel					
Unit	Height x Width x Depth	mm	300 x 300 x 150	300 x 300 x 150	300 x 300 x 150
	Weight	kg	10	10	10
Electrical	Power Supply	V/ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50
	Common Alarm Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Run Indication Output		12 V DC 20 mA	12 V DC 20 mA	12 V DC 20 mA
	Remote START/STOP	V	0	0	0
	Wired controller ON/OFF Lock	V	0	0	0
	Suggested Fused Supply	A	6	6	6
AHU DX Coil Design (Third Party Supply)					
Capacity	Cooling	kW	16.0	22.4	27.0
	Heating	kW	16.0	25.0	31.5
Design	Evaporating Temperature Range	°C	4 - 7	4 - 7	4 - 7
	Suction Superheat (Target)	K	5	5	5
Heat Exchanger	Air Volume Min. - Max.	m³/h	1260 - 3000	2880 - 4320	3360 - 5040
	Coil Pipe Diameter	mm - "	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
	Paths	No.	8 - 12	10 - 12	10 - 12
	DX Coil Burst Pressure (Greater Than)	mPa	12.45	12.45	12.45
	Maximum System Operating Pressure	mPa	4.15	4.15	4.15

Note: * 28.6 mm to 19.1 mm (1-1/8" - 3/4") reducer is required to connect to condensing unit.