

SAMSUNG  
System Air Conditioner  
**RAC**  
2009

When air changes the quality of life

Imagination *lives*



Experience the best of nature with Samsung's unique cooling technology.



Concerned with the environment and human safety,  
Samsung has created a new eco-friendly air conditioner.  
Combining eco-thinking and Samsung's innovative technologies,  
the new Samsung air conditioner exudes green freshness.  
Through increased energy efficiency, you also save money  
without sacrificing cool comfort.



# Vivace



The Samsung Vivace air conditioner brings a taste of the future into your home. With advanced technology and a flat smoked mirror panel, this air conditioner is modern elegance.



### MPI (Micro Plasma Ion)

The world's first technology that generates active hydrogen atoms together with oxygen ions to improve your Indoor Air Quality. It protects you from harmful particles and viruses existing in the air.



### Good'sleep II

Innovative technology developed to control the air temperature during your sleep and maintain optimum skin temperature to enjoy a comfortable sleep and also a refreshing start to your day.



### Catechin Filter

Catechin, extracted from green tea, is contained in the filter and deactivates captured bacteria.



### Silver Coated Filter

Silver has been widely recognized for its antibacterial and sanitization effects. Samsung has coated its filter with silver to prevent the spread of bacteria and viruses that can reside in filters. The air is always clean with Samsung.



### Deodorizing Filter

Incorporated with activated carbon, the Deodorizing Filter efficiently adsorbs cigarette smoke, pet odours and other unpleasant odours.



### S-Inverter

High efficiency inverter technology for faster cooling/heating, precise temperature control and energy saving.



## Specifications

# Vivace Specifications



Vivace\_Black



Vivace\_Redish

MODEL			AQV09VBCN	AQV12VBCN	AQV18VBCN	AQV24VBCN
Performance			S Inverter			
Power Source			220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Refrigerant Type			R410a	R410a	R410a	R410a
Capacity	Cooling	Btu/hr.	8,531	11,943	17,062	23,204
		Cal/hr.	2,150	3,009	4,299	5,847
		kW	2.5	3.5	5.0	6.8
	Heating	Btu/hr.	11,943	13,650	20,474	27,299
		Cal/hr.	3,009	3,439	5,159	6,878
		kW	3.5	4.0	6.0	8.0
Energy Efficiency	Cooling	EER (Btu/W)	14.0	11.6	11.0	10.3
		EER(W/W)	4.10	3.40	3.21	3.01
		COP(W/W)	4.10	3.64	3.41	2.81
Moisture Removal	Air Circulation (Max)	litres/hr.	1.0	1.4	2.5	3.0
		m <sup>3</sup> /min	8.0	9.0	13.0	15.0
Noise Level	Indoor High/Low	dB	31/21	35/21	40/30	41/30
	Outdoor High	dB	45	45	53	55
Electrical Data			S Inverter			
Power Source			220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1
Power Consumption	Cooling	W	610	1,030	1,560	2,260
	Heating	W	853	1,100	1,760	2,850
Operating Current	Cooling	A	3.0	4.8	7.0	10.6
	Heating	A	4.5	5.2	8.0	13.0
Dimension & Loading Q'ty			S Inverter			
Net Dimension (WxHxD)	Indoor	mm	825x285x189	825x285x189	1,065x298x218	1,065x298x218
	Outdoor	mm	790x548x285	790x548x285	880x638x310	880x638x310
Net Weight	Indoor	kg	9.0	9.0	13.0	13.0
	Outdoor	kg	32.6	32.6	51	51
Shipping Weight	Indoor	kg	11.0	11.0	16.0	16.0
	Outdoor	kg	35.4	35.4	53	53
Loading Q'ty	W Pipe	20/40ft/jumbo	91/193/216	91/193/216	61/128/150	61/128/150
	W/O Pipe	20/40ft/jumbo	101/209/233	101/209/233	66/138/153	66/138/153
SVC Valve	Liquid	ODxL	ø6.35mmx5m	ø6.35mmx5m	ø6.35mmx5m	ø6.35mmx5m
	Gas	ODxL	ø9.52mmx5m	ø9.52mmx5m	ø12.7mmx5m	ø15.88mmx5m
Piping Length	STD	m	5	5	5	5
	Max	m	15	15	30	30
Piping Height	Max	m	8	8	15	15
Refrigerant	G		-	-	-	-
Add Refrigerant	g/m		-	-	-	-
Features			S Inverter			
MPI			•	•	•	•
Good'sleep II			•	•	•	•
Silver Coated Health System	Silver Coated Filter		•	•	•	•
	Silver Coated Evaporator		•	•	•	•
Pure & Clean Air	DNA Filter		-	-	-	-
	Pure Filter (HAF Filter)		-	-	-	-
	Catechin Filter		•	•	•	•
	Deodorizing Filter		•	•	•	•
Operating Mode	Digital i Plus		-	-	-	-
	Dehumidification		•	•	•	•
	Turbo Mode		•	•	•	•
	Timer		•	•	•	•
	Energy Saving Mode		•	•	•	•
	Auto Restart		•	•	•	•
	Auto Changeover		•	•	•	•
Convenience	Auto Wind		•	•	•	•
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL
	Auto Grille		•	•	•	•
	Remote Controller		•	•	•	•
Auto Clean (self cleaning)		•	•	•	•	
Etc			S Inverter			
Low Ambient	Cooling	°C	-10-43	-10-43	-10-43	-10-43
	Heating	°C	-15-24	-15-24	-15-24	-15-24

# Neo Forte



design incorporates a clean and fashionable front panel with a unique silver accent line that adds a strong impression and a stylish touch to the whole design.



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## S-Inverter

High efficiency inverter technology for faster cooling/heating, precise temperature control and energy saving.

### Specifications

# Neo Forte Specifications



MODEL			AQV09NSAN	AQV12NSAN	AQV18NSAN	AQV24NSAN	
Performance			S-Inverter				
Power Source			220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	
Refrigerant Type			R410a	R410a	R410a	R410a	
Capacity	Cooling	Btu/hr.	8,530	11,260	17,061	23,203	
		Cal/hr.	2,150	2,837	4,299	5,847	
		kW	2.5	3.3	5.0	6.8	
	Heating	Btu/hr.	11,260	13,649	20,473	27,297	
		Cal/hr.	2,837	3,439	5,159	6,879	
		kW	3.3	4.0	6.0	8.0	
Energy Efficiency	Cooling	EER (Btu/W)	11.6	11.0	11.6	10.3	
		EER(W/W)	3.40	3.21	3.21	3.01	
		COP(W/W)	3.63	3.61	3.41	2.81	
Moisture Removal			litres/hr.	1.0	1.4	2.5	3.0
Air Circulation (Max)			m <sup>3</sup> /min	7.0	8.0	13.0	15.0
Noise Level	Indoor High/Low	dB	32 / 23	36 / 23	40 / 30	41 / 30	
	Outdoor High	dB	45	47	53	55	
Electrical Data			S-Inverter				
Power Source			220-240/50/1	220-240/50/1	220-240/50/1	220-240/50/1	
Power Consumption	Cooling	W	735	1,028	1,560	2,260	
	Heating	W	910	1,108	1,660	2,850	
Operating Current	Cooling	A	3.5	4.9	7.0	10.6	
	Heating	A	4.4	5.2	8.0	13.0	
Dimension & Loading Q'ty			S-Inverter				
Net Dimension (WxHxD)			S-Inverter				
Indoor			mm	825x285x189	825x285x189	1,065x298x218	1,065x298x218
Outdoor			mm	720x548x265	720x548x265	880x638x310	880x638x310
Net Weight	Indoor	kg	9	9	13	13	
	Outdoor	kg	31.5	31.5	51	51	
Shipping Weight	Indoor	kg	11	11	16	16	
	Outdoor	kg	33	33	53	53	
Loading Q'ty	W Pipe	20/40ft/jumbo	96/205/233	96/205/233	61/128/150	61/128/150	
	W/O Pipe	20/40ft/jumbo	106/231/259	106/231/259	66/138/153	66/138/153	
SVC Valve	Liquid	ODxL	ø6.35mmx5m	ø6.35mmx5m	ø6.35mmx5m	ø6.35mmx5m	
	Gas	ODxL	ø9.52mmx5m	ø9.52mmx5m	ø12.7mmx5m	ø15.88mmx5m	
Piping Length	STD	m	5	5	5	5	
	Max	m	15	15	30	30	
Piping Height	Max	m	7	7	15	15	
Refrigerant	G		750	850	1,450	1,450	
Add Refrigerant	g/m		15	15	15	15	
MPI			-	-	-	-	
Good'sleep II			•	•	•	•	
Silver Coated Health System	Silver Coated Filter		•	•	•	•	
	Silver Coated Evaporator		•	•	•	•	
Pure & Clean Air	DNA Filter		-	-	-	-	
	Pure Filter (HAF Filter)		-	-	-	-	
	Catechin Filter		•	•	•	•	
	Deodorizing Filter		•	•	•	•	
Operating Mode	Digital i Plus		-	-	-	-	
	Dehumidification		•	•	•	•	
	Turbo Mode		-	-	•	•	
	Timer		•	•	•	•	
	Energy Saving Mode		-	-	-	-	
	Auto Restart		•	•	•	•	
	Auto Changeover		•	•	•	•	
Convenience	Auto Wind		•	•	•	•	
	Air Flow Control Steps (Cool/Fan)		4/3	4/3	4/3	4/3	
	Air Direction Control (Up/Down)		AUTO	AUTO	AUTO	AUTO	
	Air Direction Control (Left/Right)		MANUAL	MANUAL	MANUAL	MANUAL	
	Auto Grille		-	-	-	-	
	Remote Controller		•	•	•	•	
	Auto Clean (self cleaning)		-	-	-	-	
Etc	Compressor Type		ROTARY	ROTARY	ROTARY	TWIN	
	Low Ambient						
Cooling	°C		+10-43	+10-43	+10-43	+10-43	
	Heating	°C	-10-24	-10-24	-10-24	-10-24	

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