

Experience  
the Alliance  
Difference



## NEW!

# Alliance Aqua Inverter Range

- **Up to 70% energy-saving** efficient inverter technology.
- **Safety protection**, fireproof E box (indoor) and refrigerant leakage detection.
- **Compound Filter**- three layer filter which includes and active carbon filter, silver ion filter and cold catalyst filter.
- **Golden Fin**-The unique anti-corrosive golden coating on the heat exchangers can withstand the salty air, rain and other corrosive elements. It also effectively prevents bacteria from breeding and improves heat efficiency.
- **Wired Controller**- compatible with a wired controller for added convenience.
- **Smart - WiFi** standard
- **Highly efficient compressor**- operates under extreme hot temperatures (up to 68°C) and extreme cold temperatures (as low as -32°C) while saving energy costs.
- **Stability protection**- can withstand voltage fluctuations (overloads) without a separate voltage stabilizer.

Alliance



AI Rosense

# Alliance Aqua Inverter Midwall

Enjoy comfortable and efficient cooling and heating in your home with the Aqua Inverter Midwall. Designed with our weather in mind, the Golden Fin ensures your unit can withstand the harshest weather and other corrosive elements, with a golden unique anti-corrosive coating on the heat exchangers. The 3 layer compound filter eliminates bacteria effectively and continuously, deodorizes smells, traps pollen, small dust particles, smoke and pet fur and effectively catches and removes formaldehyde. This unit comes equipped standard with Wi-Fi whilst maintaining efficient energy savings of up to 70% with our Alliance inverter technology.



Indoor Model		FOUS109/B		FOUS112/A		FOUS118/B		FOUS124/B	
Outdoor Model		FOUS109X/B		FOUS112X/A		FOUS118X/B		FOUS124X/B	
Power supply		Ph-V-Hz	220-240V, 1Ph, 50Hz	220-240V, 1Ph, 50Hz	220V, 1Ph, 50Hz	220V, 1Ph, 50Hz	220V, 1Ph, 50Hz	220V, 1Ph, 50Hz	220V, 1Ph, 50Hz
Cooling	Capacity	W	2700	3420	5100	6400	8400	10400	12400
	Btu		9000	12000	18000	24000	30000	36000	42000
	Input	W	818	1065	1569	1994	2600	3200	3800
	Rated current	A	3.59	4.68	6.89	8.76	11.5	14.3	17.1
	EER	W/W	3.3	3.21	3.21	3.3	3.21	3.21	3.21
Heating	Capacity	W	2710	3600	5200	6800	8800	11200	13600
	Btu		9000	12000	18000	24000	30000	36000	42000
	Input	W	751	997	1507	1884	2500	3100	3700
	Rated current	A	3.30	4.38	6.62	8.27	10.8	13.4	16.0
	COP	W/W	3.61	3.61	3.45	3.61	3.61	3.61	3.61
Max. input consumption	W	2200	2200	2800	2800	3800	3800	3800	
Max. current	A	10.5	10.5	13.5	13.5	18	18	18	
Starting current	A	/	/	/	0	0	0	0	
Compressor	Capacity	W	3250	3250	4385	7600	7600	7600	
	Input	W	834	834	1140	2045	2045	2045	
	Rated current(RLA)	A	5.7	5.7	7.50	9.30	9.30	9.30	
Indoor fan motor	Input	W	/	/	71.0	77.0	77.0	77.0	
	Capacitor	uF	1.5	/	1.5	3	3	3	
	Speed(Hi/Mi/Lo)	r/min	1150/890/760	1200/920/780	1200/980/870	1200/980/870	1200/980/870	1200/980/870	
Indoor coil	Number of rows		2	2	2	2	2	2	
	Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37	21x13.37	21x13.37	
	Fin spacing	mm	1.2/1.3	1.3	1.2	1.3	1.3	1.3	
	Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	
	Tube outside dia.and type	mm	Φ7, inner groove tube	Φ7, inner groove tube	Φ7, inner groove tube	Φ7, inner groove tube	Φ7, inner groove tube	Φ7, inner groove tube	
	Coil length x height x width	mm	525x84x13.37+525x105x26.74+525x105x26.74	605x210x26.74+605x105x26.74	750x210x26.74+750x126x26.74	820x210x26.74+820x126x26.74	900x210x26.74+900x126x26.74	900x210x26.74+900x126x26.74	
	Number of circuits		2	2	4	4	4	4	
Indoor air flow (Hi/Mi/Lo)	m <sup>3</sup> /h	515/371/304	552/471/436	830/590/520	1150/820/670	1150/820/670	1150/820/670		
Indoor noise level (Hi/Mi/Lo)	dB(A)	39.9/33.5/30.5	40.5/34.5/31.0	44/36.5/32.5	48.5/41/34	48.5/41/34	48.5/41/34		
Indoor unit	Dimension(W*D*H)	mm	729x200x292	802x200x295	971x228x321	1082x234x337	1082x234x337	1082x234x337	
	Packing (W*D*H)	mm	790x270x375	875x285x380	1045x305x405	1155x415x315	1155x415x315	1155x415x315	
	Net/Gross weight	Kg	8.2/10.5	8.8/11.3	11.8/15.2	14.1/17.8	14.1/17.8	14.1/17.8	
Outdoor fan motor	Capacitor	uF	2.5	/	3	/	/	/	
	Speed	r/min	870	800/700/600	890	830/700/550	830/700/550	830/700/550	
Outdoor coil	Number of rows		1	1	2	1.6	1.6		
	Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37	21x13.37		
	Fin spacing	mm	1.4	1.4	1.4	1.3	1.3		
	Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium		
	Tube outside dia.and type	mm	Φ7, inner groove tube	Φ7, inner groove tube	Φ7, inner groove tube	Φ7, inner groove tube	Φ7, inner groove tube		
	Coil length x height x width	mm	750x462x13.37	750x462x13.37	870x504x26.74	900x26.74x609	900x26.74x609		
	Number of circuits		2	2	4	5	5		
Outdoor air flow	m <sup>3</sup> /h	1800	1800	2500	3500	3500			
Outdoor noise level	dB(A)	54.2	55	57	60	60			
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	720x270x495	805x330x554	890x342x673	890x342x673		
	Packing (W*D*H)	mm	835x300x540	835x300x540	915x370x615	995x398x740	995x398x740		
	Net/Gross weight	Kg	23.0/24.7	22.3/24.0	32.8/35.5	41.6/44.7	41.6/44.7		
Refrigerant type	Kg	R410A/0.67	R410A/0.74	R410A/1.4	R410A/1.48	R410A/1.48			
Design pressure	MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5			
Refrigerant piping	Liquid side/ Gas side	mm(inch)	6.35mm(1/4in)/9.52mm(3/8in)	6.35mm(1/4in)/12.7mm(1/2in)	6.35mm(1/4in)/12.7mm(1/2in)	9.52mm(3/8in)/15.9mm(5/8in)	9.52mm(3/8in)/15.9mm(5/8in)		
	Max. refrigerant pipe length	m	25	25	30	30	30		
	Max. difference in level	m	10	10	20	20	20		
Connection wiring		1.5x4//	1.5x4//	1.5x4//	1.5x4//	1.5x4//			
Plug type		1.5x3	1.5x3	1.5x3	//no-plug	//no-plug			
Thermostat type		Remote Control	Remote Control	Remote Control	Remote Control	Remote Control			
Operation temperature	°C	17~30	17~30	17~30	17~30	17~30			
Room temperature	Indoor(cooling/ heating)	°C	16~32/0~30	16~32/0~30	16~32/0~30	16~32/0~30	16~32/0~30		
	Outdoor(cooling/heating)	°C	0~50/-15~24	0~50/-15~24	0~50/-15~24	0~50/-15~24	0~50/-15~24		
Application area (Cooling Standard)	m <sup>2</sup>	12~18	16~23	23~34	29~43	29~43			

## Notes:

- Nominal cooling capacities are based on the following conditions: Indoor temp: 27°CDB, 19°CWB; Outdoor temp: 35°CDB, 24°CWB;
- Nominal heating capacities are based on the following conditions: Indoor temp: 20°CDB, 15°CWB; Outdoor temp: 7°CDB, 6°CWB;
- Equivalent refrigerant piping: 7.5m (horizontal).

Alliance reserves the right to discontinue or change specifications at any time without notice and without incurring obligation. E&OE.

