

**NEW**

**Alliance**

Affordable quality - Proven reliability - Since 2006



## Alliance Light Commercial Cassette Range (Non-Inverter)

*7 models from 12 000 to 60 000 Btu/h*



- Single and 3-phase models
- COPs up to 3.24
- Heating and cooling
- Indoor airflow from 430 to 2000 m<sup>3</sup>/h
- Max. pipe length up to 50m
- Sold and supported nationwide by Alliance

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# New Alliance Light Commercial Cassette Range (Non-Inverter)

7 models from 12 000 to 60 000 Btu/h

Combining both quality and attractive design with Alliance's competitive pricing, the new Alliance range of Cassettes is suitable for both commercial and domestic use. These cassettes offer climate control of large home or office areas. This new Alliance range is the ideal solution for projects where budgets are restricted yet quality are restricted yet quality is non-negotiable.



Indoor model		MAC-12CA	MAC-18CA	MAC-24CA	FOUC36/1	FOUC36/3	MAC-48CA	MAC-60CA
Indoor code		22022511001276	22022511001296	22022511001297	22022511002496	22022511002536	22022511000637	22022511000660
Outdoor model		MAC-12HR	MAC-18HR	MAC-24HR	FOUC36X/1	FOUC36X/3	MAC-48HR	MAC-60HR
Outdoor code		22022716000655	22022716000635	22022716000675	22023016001791	22023016001792	22023016000109	22022716000119
Power supply		V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240,50,1	380-415-50,3	380-415-3-50
Cooling	Capacity	Btu/h	12500	18300	24000	36000	36000	48000
	Input	W	1350	1980	2600	3850	3600	5191
	Current	A	6	8.78	12.48	18.5	6	9.2
Heating	EER	W/W	2.71	2.71	2.71	2.74	2.93	2.71
	Capacity	Btu/h	13000	19000	26000	36000	36000	52000
	Input	W	1320	1720	2400	3850	3650	4763
Indoor fan motor	Current	A	5.9	7.63	11.52	18.5	6.1	8.5
	COP	W/W	2.89	3.24	3.18	2.74	2.89	3.2
	Qty		1	1	1	1	1	1
Indoor coil	Input	W	40.5/35.3/31.4	78/71/51/39	81/69/63	174/145/121	174/145/121	209/145/121
	Capacitor	uF	1.5UF/450V	2UF/450V	3.5UF/450V	5UF/450V	5UF/450V	5UF/450V
	Speed(Hi/Med/Lo)	r/min	640/540/440	890/850/685/583	520/390/340	690/610/540	690/610/540	775/610/540
	Number of rows		1.0	2.0	2.0	2.0	2.0	3.00
	Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37	21x13.37	21x13.37
	Fin spacing	mm	1.30	1.30	1.40	1.4	1.4	1.40
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
Indoor air flow (Hi/Mid/Lo)	Tube outside dia.and type	mm	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube
	Coil length x height x width	mm	1380x210x13.37	1360x210x26.74	2010x168x26.74	2010x210x26.74	2010x210x26.74	2080x210x4.11
	Number of circuits		3	4	8	10	10	12
	Number of rows		3	4	8	10	10	12
Indoor noise level (sound pressure)	dB(A)	42/38/36	48/41/36	50/45/41	51.6/48.3/44.9	51.7/48.0/45.2	53/48/44	53/48/44
Indoor unit	Dimension (WxDxH)(body)	mm	570x570x260	570x570x260	840x840x205	840x840x245	840x840x245	840x840x287
	Packing (WxDxH)(body)	mm	655x655x290	655x655x290	900x900x217	900x900x265	900x900x257	900x900x292
	Dimension (WxDxH)(panel)	mm	647x647x50	647x647x50	950x950x55	950x950x55	950x950x55	950x950x55
	Packing (WxDxH)(panel)	mm	715x715x123	715x715x123	1035x1035x90	1035x1035x90	1035x1035x90	1035x1035x90
	Net/Gross weight(body)	kg	16.3/19.1	16.5/19	22.1/25.5	25/28.7	24.9/28.8	27/32
	Net/Gross weight(panel)	kg	2.5/4.5	2.5/4.5	5/8	5/8	5/8	5/8
Design pressure	MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	
Drainage water pipe diameter	mm	ODΦ25	ODΦ25	ODΦ32	ODΦ32	ODΦ32	ODΦ32	
Refrigerant piping	Liquid side/Gas side	mm	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")
Controller		Remote control	Remote control	Remote control	Remote control	Remote control	Remote control	
Operation temperature	°C	17-30	17-30	17-30	17-30	17-30	17-30	
Room temperature	Cooling	°C	17-32	17-32	17-32	17-32	17-32	
	Heating	°C	0-30	0-30	0-30	0-30	0-30	
Power supply	V-ph-Hz	220-240-1-50	220-240-1-50	220-240-1-50	220-240-1-50	380-415-3-50	380-415-3-50	
Max. input consumption	W	1800	2950	3450	4250	4250	6300	
Max. input current	A	8.5	15	18	20.5	7	10.9	
Compressor	Type		ROTARY	ROTARY	ROTARY	SCROLL	SCROLL	
	Capacity	Btu/h	13853/13853	21308	2498/24669	34804	35145	
	Input	W	955/995	1530	2395/2540	3450	3300	
	Rated current(RLA)	A	4.35/4.2	6.9	11.55/12.25	16.7	5.9	
	Locked rotor Amp(LRA)	A	25	38	59	97	51	
	Thermal protector position		INTERNAL	INTERNAL	INTERNAL	INTERNAL	INTERNAL	
Outdoor fan motor	Input	W	72.5/67	91.879.2	144	293.3/261	293.3/261	
	Speed	r/min	850/770	890/830	860	850/770	846/760	
Outdoor coil	Number of rows		1.6	2	2	1.6	2.6	
	Tube pitch(a)* row pitch(b)	mm	21x13.37	21x13.37	21x13.37	25.4x22	21x13.37	
	Fin spacing	mm	1.4	1.4	1.2	1.5	1.4	
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	
	Tube outside dia.and type	mm	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	
	Coil length * height * width	mm	755x504x13.37	755x504x26.74	730x651x26.74	1005x762x22	1010x756x26.74	
	Number of circuits		4	4	6	4	6	
Outdoor noise level (sound pressure)	dB(A)	59	62	62	63.4	64.4		
Throttle type		Capillary	Capillary	Throttle Valve	Throttle valve	Throttle valve		
Outdoor unit	Dimension(WxDxH)		770x300x555	770x300x555	845x363x702	946x410x810	900x350x1170	
	Packing(WxDxH)		900x345x585	900x348x615	965x395x755	1090x500x875	1032x443x1307	
	Net/Gross weight	kg	30.5/32.9	36.5/38.8	52.7/56.1	79.5/85.3	77.1/82.9	
Refrigerant type/Quantity	Type		R410A	R410A	R410A	R410A	R410A	
	Charged volume	kg	1.1	1.5	1.8	2.5	2.5	
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)	Φ6.35/Φ12.7(1/4"/1/2")	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	
	Max. pipe length	m	18	25	25	30	30	
	Max. difference in level	m	8	15	15	20	20	
Ambient temperature	Cooling	°C	18 - 43	18 - 43	18 - 43	18 - 43	18 - 43	
	Heating	°C	-7-24	-7-24	-7-24	-7-24	-7-24	

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