

**NEW**

**Alliance**

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

*36 000 to 60 000 Btu/h*



- Ideal for conference rooms, halls, boardrooms etc
- Cooling/heating
- Indoor airflows from 1331 m<sup>3</sup>/h to 2300 m<sup>3</sup>/h
- Pipe length to outdoor unit up to 50m
- Backed nationwide by Alliance with branches in all major metropolitan centres

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

## 36 000 to 60 000 Btu/h

This new range of four Alliance Underceilings (one single phase, three 3-phase) has an indoor sound level as low as 45.5dB(A) making them ideal for boardrooms, conference rooms and hotel lobbies as well as other commercial and industrial applications. Providing both heating and cooling, they ensure an indoor airflow up to 2300 m<sup>3</sup>/h, while maximum piping length to outdoor unit ranges from 30 metres to 50 metres. As with all Alliance products, this Underceiling range is backed by a nationwide sales and service network, with branches in all major metropolitan areas.



Indoor Model			FOUUC36/1	ALLUC-36-R410A-3PH	ALLUC-48-R410A-1PH	ALLUC-60-R410A-1PH	
Indoor code			22022711002116	22022711002156	22022711000384	22022711000584	
Outdoor Model			FOUUC36X/1	MAC-36HR	MAC-36HR	MAC-36HR	
Outdoor code			22023016001791	22023016001792	22023016000109	22022716000119	
Power supply		V-ph-Hz	220-240-1-50	380-415-3-50	380-415-3-50	380-415-3-50	
Cooling	Capacity	Btu/h	36000	36000	48000	55000	
	Input	W	3795	3600	5060	6400	
	Current	A	17.30	6	8.4	10.5	
	EER	W/W	2.78	2.93	2.78	2.52	
Heating	Capacity	Btu/h	36000	36000	52000	60000	
	Input	W	3850	3650	5063	5800	
	Current	A	18.5	6.1	8.6	9.6	
	COP	W/W	2.74	2.89	3.01	3.03	
Indoor fan motor	Input	W	148/131/122	148/131/122	148/131/122	120/110/105	
	Speed(Hi/Med/Lo)	r/min	1370/1300/1225	1370/1300/1225	1370/1300/1225	1315/1200/1120	
Indoor coil	Number of rows		2	2	3	3	
	Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37	
	Fin spacing	mm	1.3	1.3	1.3	1.3	
	Fin type		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	
	Coil length x height x width	mm	935x294x26.74	935x294x26.74	1010x294x40.11	1300x294x40.11	
	Number of circuits		6	6	9	10	
Indoor air flow(Hi/Med/Lo)		m <sup>3</sup> /h	1819/1536/1331	1819/1536/1331	1750/1400/1250	2300/1800/1600	
Indoor noise level (sound pressure)(Hi/Med/Lo)		dB(A)	54.3/49.4/45.5	53.6/50.0/47.1	53/48/44	55/49/46	
Indoor unit	Dimension (WxDxH)	mm	1285x675x235	1285x675x235	1285x675x235	1650x675x235	
	Packing (WxDxH)	mm	1360x755x313	1360x755x313	1360x755x313	1725x755x313	
	Net/Gross weight	kg	29.9/35.4	29.9/35.5	31/36	39/45	
Design pressure		MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5	
Drainage water pipe diameter		mm	ODΦ25	ODΦ25	ODΦ25	ODΦ25	
Refrigerant piping		Liquid side/Gas side	mm(inch)	Φ9.52/Φ19(3/8"/3/4")	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	
Operation temperature		°C	17-30	17-30	17-30	17-30	
Room temperature	Cooling	°C	17-32	17-32	17-32	17-32	
	Heating	°C	0-30	0-30	0-30	0-30	

Power supply		V-ph-Hz	220-240-1-50	380-415-3-50	380-415-3-50	380-415-3-50
Max. input consumption		W	4250	4250	6300	7500
Max. input current		A	20.5	7	10.9	12.6
Compressor	Type		SCROLL	SCROLL	Scroll	Scroll
	Capacity	Btu/h	34804	35145	48109	55956.8
	Input	W	3450	3300	4750	5750
	Rated current(RLA)	A	16.7	5.9	8.22	9.77
	Locked rotor Amp(LRA)	A	97	51	66	67
	Thermal protector position		INTERNAL	INTERNAL	INTERNAL	INTERNAL
Outdoor fan motor	Input	W	293.3/261	293.3/261	162	162
	Speed	r/min	850/770	846/760	765	765
Outdoor coil	Number of rows		1.6	2.6	2	2
	Tube pitch(a)* row pitch(b)	mm	25.4x22	21x13.37	21x13.37	22x19.05
	Fin spacing	mm	1.5	1.4	1.4	1.6
	Fin type		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
	Coil length * height * width	mm	1005x762x22	1010x756x26.74	840x1113x26.74	837x1100x38.1
	Number of circuits		4	6	8	4
Outdoor noise level (sound pressure)		dB(A)	63.4	64.4	63	63
Throttle type			Throttle valve	Throttle valve	Capillary	Capillary
Outdoor unit	Dimension(WxDxH)		946x410x810	946x410x810	900x350x1170	900x350x1170
	Packing(WxDxH)		1090x500x875	1090x500x875	1032x443x1307	1032x443x1307
	Net/Gross weight	kg	79.5/85.3	77.1/82.9	93.2/105	97/108
Refrigerant type/Quantity	Type		R410A	R410A	R410A	R410A
	Charged volume	kg	2.5	2.5	3.25	3.2
Design pressure		MPa	4.2/1.5	4.2/1.5	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")	Φ9.52/Φ19(3/8"/3/4")
	Max. pipe length	m	30	30	50	50
	Max. difference in level	m	20	20	25	25
Ambient temperature	Cooling	°C	18 - 43	18 - 43	18 - 43	18 - 43
	Heating	°C	-7-24	-7-24	-7-24	-7-24

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