



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

## 36 000 to 60 000 Btu/h

The four range 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			FOUU36/1/A	FOUU36/3	FOUU48	FOUU60/A
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	3900	3600	5450	6400
	Current	A	18	6	9.3	10.5
	EER	W/W	2.71	2.93	2.58	2.52
Heating	Capacity	Btu/h	38000	36000	55000	60000
	Input	W	3950	3650	5080	5800
	Current	A	18.5	6.1	8.6	9.6
	COP	W/W	2.82	2.89	3.17	3.03
Indoor fan motor	Input	W	236	148	166	120
	Capacitor		5	4.5	2.5	2.5
Indoor coil	Speed(Hi/Med/Lo)	r/min	1370/1300/1225	1370/1300/1225	1285/1205/1130	1310/1190/1080
	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		Hydrophillic aluminium	Hydrophillic aluminium	Hydrophillic aluminium (Golden)	Hydrophillic aluminium (Golden)
	Tube outside dia.and type	mm	Φ7,inner groove tube	Φ7,inner groove tube	Φ7,inner groove tube	Φ7,inner groove tube
	Coil length x height x width	mm	935x294x26.74	935x294x26.74	1300x40.11x294	1300x294x40.11
Number of circuits		6	6	8	10	
Indoor air flow(Hi/Med/Lo)	m <sup>3</sup> /h	1780/1660/1530	1819/1536/1331	2350/2150/2000	2267/1846/1636	
Indoor noise level (sound pressure)(Hi/Med/Lo)	dB(A)	54.5/52.5/50	53/48.5/45	54.0/51.0/48.0	54.5/50.6/48.0	
Indoor unit	Dimension (WxDxH)	mm	1285x675x235	1285x675x235	1650x675x235	1650x675x235
	Packing (WxDxH)	mm	1360x755x318	1360x755x318	1725x755x318	1725x755x318
	Net/Gross weight	kg	30.5/36.1	29.9/35.5	39/45	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	Wired control	Remote control	Remote control	
Operation temperature	°C	17~30	17~30	17~30	17~30	
Room temperature	Cooling	°C	17~32	16~32	17~32	17~32
	Heating	°C	18~43	0~30	0~30	0~30

Outdoor Model			FOUU36X/1/A	FOUU36X/3	FOUU48X	FOUU60X/A
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	5200	4250	6300	7500
Max. input current		A	23	7	11	12.6
Compressor	Type		ROTOR	ROTARY	SCROLL	SCROLL
	Capacity	Btu/h	35604	36000	48109	55957
	Input	W	3520	3430	4750	5750
	Rated current(RLA)	A	16.35	6.4	8.22	9.77
	Locked rotor Amp(LRA)	A	89	36	66	67
	Thermal protector position		INTERNAL	INTERNAL	INTERNAL	INTERNAL
Outdoor fan motor	Capacitor		90	-	-	-
	Input	W	293.3	293.3	162	162
	Speed	r/min	850/770	850/770	765	765
Outdoor coil	Number of rows		2	2	2	2
	Tube pitch(a)* row pitch(b)	mm	25.4x22	25.4x22	21x22	21x22
	Fin spacing	mm	1.3	1.3	1.3	1.3
	Fin type		Hydrophillic aluminium	Hydrophillic aluminium	Hydrophillic aluminium (Golden)	Hydrophillic aluminium (Golden)
	Tube outside dia. and type	mm	Φ9.52,inner groove tube	Φ9.52,inner groove tube	Φ7,inner groove tube	Φ7,inner groove tube
	Coil length * height * width	mm	1995x762x44	995x762x44	830x630x22+795x630x22	830x22x630+795x22x630
Number of circuits		4	4	8	8	
Outdoor noise level (sound pressure)	dB(A)	59.6	63	63	63.3	
Throttle type		Throttle valve	Throttle valve	Throttle valve	Throttle valve	
Outdoor unit	Dimension(WxDxH)		946x410x810	946x410x810	900x350x1170	900x350x1170
	Packing(WxDxH)		1090x500x885	1090x500x875	1032x443x1307	1032x443x1307
	Net/Gross weight	kg	76.5/80.4	74.4/78.9	98.6/109.3	99.7/111.2
Refrigerant type/Quantity	Type		R410A	R410A	R410A	R410A
	Charged volume	kg	0	2.85	3.3	3.3
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	25	30	50	50
	Max. difference in level	m	15	20	30	30
Ambient temperature	Cooling	°C	18~43	-7~43	18~43	-15~43
	Heating	°C	-7~24	-7~24	-7~24	-7~24

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

**Alliance**

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**fourways**