

**NEW**

**Alliance**

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## Alliance Light Commercial MSP Ducted Range (Non-Inverter)

*36 000 to 60 000 Btu/h*

- With capacities from 36 000 to 60 000 Btu/h ,these ducted units are suitable for light commercial as well as domestic use.
- Compact indoor size allows for installation in confined ceiling areas
- Standard air inlet and outlet sizes for simple duct connection
- Max. piping length of 30 to 50 metres between indoor and outdoor units allows flexibility of installation
- Indoor airflow up to 3150m<sup>3</sup>



*Total Comfort*

# New Alliance Light Commercial MSP Ducted Range (Non-Inverter)

36 000 to 60 000 Btu/h

With a height as compact as 270mm, these Alliance MSP hideaway units are suitable for fitting in confined spaces. An indoor airflow capacity of up to 3150m<sup>3</sup> (MAC60HD) ensures climate control for several average sized rooms or offices.



Indoor model			FOUH36/1/A	MAC-36HD	MAC-48HD	MAC-60HD
Indoor code			22023011003038	220230110003039	22023011000726	22023011000764
Outdoor model			FOUH36X1/A	MAC-36HR	MAC-48HR	MAC-60HR
Outdoor code			22023016001791	22023016002311	22023016000109	22023016000119
Power supply		V,Hz,Ph	220-240-50-1	380-420-50-3	380-420-50-3	380-420-50-3
Cooling	Capacity	Btu/h	36000	36000	49000	56000
	Input	W	3900	3654	5128	6500
	Current	A	18.5	6.12	9.00	11.20
	EER	W/W	2.71	2.89	2.8	2.53
Heating	Capacity	Btu/h	39000	37000	52000	62000
	Input	W	3500	3315	4220	5300
	Current	A	17	5.64	7.40	9.20
	COP	W/W	3.27	3.27	3.61	3.43
Indoor fan motor	Input	W	238/198/167	238/198/167	480/420/360	588/480/420
	Speed(Hi/Med/Lo)	r/min	860/830/730	860/830/730	750/705/655	860/750/705
Indoor coil	Number of rows		3	3	3	3
	Tube pitch(a)*row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37
	Fin spacing	mm	1.4	1.4	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*height*width	mm	915x294x40.11	915x294x40.11	1055x357x40.11	1055x357x40.11
	Number of circuits		7	7	8	8
Indoor air flow (Hi/Med/Lo)		m <sup>3</sup> /h	1836/1383/1160	1804/1372/1149	2809/2554/2272	3150/2809/2554
ESP	Rated	Pa	37	37	50	50
	Range	Pa	0-100	0-100	0-200	0-200
Indoor noise level (Hi/Med/Lo)		dB(A)	48.8/43/39.3	48.7/43/40.6	51/49/46	52/50/48
Indoor unit	Dimension (WxDxH)	mm	1100x774x249	1100x774x249	1200x625x380	1200x625x380
	Packing(WxDxH)	mm	1305x805x305	1305x805x305	1485x675x450	1485x675x450
	Net/Gross weight	kg	32.2/39.4	32.2/39.4	46/52.3	45.9/52.2
Design pressure		MPa	4.2/1.0	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	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			Wired control	Wired control	Wired control	Wired 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	20.6	7	11.0	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
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	22x19.05	22x19.05
	Fin spacing	mm	1.5	1.4	1.6	1.6
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	Tube outside dia.and type	mm	Φ7,innergroove tube	Φ7,innergroove tube	Φ7.94, innergroove tube	Φ7,innergroove tube
	Coil length * height * width	mm	1005x762x22	1010x756x26.74	837x1100x38.1	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)	mm	946x410x810	946x410x810	900x350x1170	900x350x1170
	Packing(WxDxH)	mm	1090x500x875	1090x500x875	1032x443x1307	1032x443x1307
	Net/Gross weight	kg	79.5/85.3	77.1/82.9	97/107	97/108
Refrigerant type/Quantity	Type		R410A	R410A	R410A	R410A
	Charged volume	kg	2.5	2.5	3.3	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

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



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