### MECHANICAL VENTILATION SYSTEM

14 South Steyne, MANLY NSW 2095





Dishwasher Hood 1200 x 1300 x 650 by A.O.S Australia

14 SOUTH STEYNE - GROUND FLOOR PLAN - HOOD LAYOUT

Scale 1 : 50 @ A3

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### 14 SOUTH STEYNE - GROUND FLOOR PLAN - EXHAUST

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Kitchen Exhaust Hood 2500 x 1400 x 650 by A.O.S Australia

14 SOUTH STEYNE - FIRST FLOOR PLAN - HOOD LAYOUT

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14 SOUTH STEYNE - FIRST FLOOR PLAN

Scale 1 : 100 @ A3



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commencement of ANY work, including any rough-in and positioning of services.				SECTION B PIZZA OVEN EXHAUST	DRAWN :	JC

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### SPECIFICATIONS (KITCHEN EXHAUST SYSTEM)

Exhaust Hood:

Enviro High Efficiency UV Hood (By AOS Australia) Cooking: 2500 x 1400 x 650 Enviro Dishwasher Type (By AOS Australia) Dishwasher:

381 x 457 x 51 (CSIRO Approved)

1200 x 1300 x 650

Filters:

-

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LED Downlights:

Total Air Flow:

Cooking: -Dishwasher: -

Duct Velocity: Outlet Velocity: Hood Velocity: Static Pressure: Ceiling Access Panel: Duct Access Panel: Duct Size: Silencer:

Exhaust Fan:

-

-

-

Fan Acoustic Level: Power Requirements: Exhaust Hood:

Exhaust Hood:

Exhaust Fan:

400K CR180 IP44 with Heat Resistant Cover 1340 L/s 1040 L/s 300 L/s 6.61 m/s 7.35 m/s .35 330pa 600 x 600 + 450 x 450 300 x 200 450 x 450, 250 x 250 Powerline Exhaust Air Attenuators 56SIL 20FF (by Fantech Australia) 504/3 Multi-flow Series (by Fantech Australia)

Lights 10 amp - 1 phase - 240 volt. Plug + Base (Female)

UV Lights 10 amp - 1 phase - 240 volt. Plug + Base (Female)

415 volt - 3 phase - 3.44 amps per phase - V.S.D Controlled

S/Steel Honeycomb Baffle Flame Guard Type









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### SPECIFICATIONS (MAKEUP AIR SYSTEM)

Total Air Flow: Static Pressure: Duct Velocity: Intlet Velocity: Duct Size: Dust Filter: Makeup Air Spigots: Flexible Duct Size:

410 pa 7.95 m/s 5.82 m/s 200 x 200 590 x 440 x 40 250Ø 250Ø - 200Ø

1610 L/s

66 dBA @ 3m

Makeup Air Fan:

Fan Acoustic Level: 66 dBA @ 3m

Power Requirements: Make up Air Fan: -

415 volt - 3 phase - 4.7 amps per phase. V.S.D Controlled

504/4 Multi-flow Series (by Fantech Australia)

Filters 381 x 457 x 51 Stainless —— Steel Honey Comb Baffle Flame Guard Type
Led Downlights, 4000K, CRI 90, IP44
—— Removable Perforated Metal
Enviro High Efficiency UV Type 7 Hood by AOS Australia
—— 70mm Gutter
—— Ø 40 Drain
— Mesh Filter
<ul> <li>Enviro Exhaust Hood Dishwasher</li> <li>Type by AOS Australia</li> </ul>

Ø 40 Drain

### SPECIFICATIONS (PIZZA OVEN EXHAUST SYSTEM)

Total Air Flow:	350L/s
Duct Velocity:	5.6 m/s
Outlet Velocity:	6.2 m/s
Static Pressure:	240pa
Ceiling Access Panel:	450 x 450
Duct Access Panel:	500 x 300 - 200 x 300
Exhaust Duct:	250 x 250
Exhaust Fan	254/5 Multi flow Sorios (b)

Exhaust Fan:354/5 Multi-flow Series (by Fantech Australia)Fan Acoustic Level:54 dBA @ 3mPower Requirements:240 volt - 1phase - 2.4 amps

### SPECIFICATIONS (TOILET EXHAUST SYSTEM)

Total Air Flow:	350L/s
Duct Velocity:	5.6 m/s
Outlet Velocity:	6.96 m/s
Static Pressure:	240pa
Ceiling Access Panel:	450 x 450
Duct Access Panel:	200 x 300
Exhaust Duct:	250 x 250
Exhaust Fan:	404V Gamma Series by Fantech A

Exhaust Fan:404V Gamma Series by Fantech AustraliaFan Acoustic Level:54 dBA @ 3mPower Requirements:240 volt - 1 phase - 2.4 amps

### SPECIFICATIONS (BIN ROOM EXHAUST SYSTEM)

Total Air Flow:

350L/s

Duct Velocity: Outlet Velocity: Static Pressure: Ceiling Access Panel: Duct Access Panel: Exhaust Duct: 3.88 m/s 6.96 m/s 240pa 450 x 450 300 x 500 300 x 300

Exhaust Fan:404V Gamma Series by Fantech AustraliaFan Acoustic Level:54 dBA @3mPower Requirements:240 volt - 1 phase - 2.4 amps

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### Multiflow Series - MME354/5



### Description

The Multiflow Series of In-Line Mixed-Flow Fans is designed for a wide range of duct mounted applications. They are most suitable in applications where higher air flows are required at medium pressures. A particular feature of this product is its low noise levels in comparison to axial and centrifugal selections. They are available in various speed options and in 9 sizes, extending from 250 to 800mm diameter.

### Features

- Robust, yet lightweight galvanised steel construction.
- Easy to fit 35mm TDF profile flange connections. .
- · Patented, adjustable pitch, mixed-flow impellers.
- Large choice of speeds available.
- · To improve energy efficiency motors can be speed-controlled.
- Motors complying with Ex d, Ex e, Ex nA and Ex tD. Standards can
- be fitted.
- · Can be mounted in any position.
- A range of matching ancillaries is also available.
- · Robust, yet lightweight galvanised steel construction.
- Easy to fit 35mm TDF profile flange connections.
- · Patented, adjustable pitch, mixed-flow impellers.
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- To improve energy efficiency motors can be speed-controlled.
- · Motors complying with Ex d, Ex e, Ex nA and Ex tD. Standards can be fitted.
- · Can be mounted in any position.
- A range of matching ancillaries is also available.

### Construction

Galvanised steel housings with 35mm TDF profile flange connections. Patented, adjustable pitch, mixed-flow impellers made from aluminium.

Sizes 250 to 450 are available in a choice of 2 impeller pitch angle settings.

Sizes 500-800 are available in a choice of 4 or 5 impeller pitch angle settings.

### Motor

Type - standard TE motors. Electricity supply - single or three-phase to suit a wide range of voltages and frequencies. Bearings - sealed-for-life, ball. Motors can be single or multi-speed. Three-phase motors for size 500 to 800, can be speed-controlled using variable speed drives.

### Testing

Air flow tests to BS848:Part 1, 1980 Noise tests to BS848:Part 2, 1985

### Suggested Specification

The Multiflow Mixed-Flow In-Line Fans shall be as designed and manufactured by Fantech Pty Ltd and be of the model numbers shown on the schedule/drawings. The mixed-flow impeller shall be of patented, adjustable pitch design, manufactured from aluminium and driven by standard TE

motors. Housings shall be of galvanised steel with 35mm TDF profile flange connections. All models shall be fully tested to BS848:Part 1, 1980 for air flow and BS848:Part 2, 1985 for noise.

### Dimensions



### Technical Data - MME354/5

Speed [rps]	Avg. dBA @ 3m	kWatts (Input)	Amps	Max. °C	Approx. V [kg]
22	54	0.55	3.6	70	23

### Sound Data

Туре	63	125	250	500	1K	2K	4K
Inlet	78	78	75	71	66	67	64

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### Multiflow Series - MMD504/4



### Description

The Multiflow Series of In-Line Mixed-Flow Fans is designed for a wide range of duct mounted applications. They are most suitable in applications where higher air flows are required at medium pressures. A particular feature of this product is its low noise levels in comparison to axial and centrifugal selections. They are available in various speed options and in 9 sizes, extending from 250 to 800mm diameter.

### Features

- · Robust, yet lightweight galvanised steel construction.
- Easy to fit 35mm TDF profile flange connections.
- Patented, adjustable pitch, mixed-flow impellers.
- Large choice of speeds available.
- · To improve energy efficiency motors can be speed-controlled.
- · Motors complying with Ex d, Ex e, Ex nA and Ex tD. Standards can be fitted.
- · Can be mounted in any position.
- · A range of matching ancillaries is also available.
- Robust, yet lightweight galvanised steel construction.
- Easy to fit 35mm TDF profile flange connections.
- · Patented, adjustable pitch, mixed-flow impellers.
- · Large choice of speeds available.
- · To improve energy efficiency motors can be speed-controlled.
- Motors complying with Ex d, Ex e, Ex nA and Ex tD. Standards can
- be fitted.
- · Can be mounted in any position.
- · A range of matching ancillaries is also available.

### Construction

Galvanised steel housings with 35mm TDF profile flange connections. Patented, adjustable pitch, mixed-flow impellers made from aluminium.

Sizes 250 to 450 are available in a choice of 2 impeller pitch angle settings.

Sizes 500-800 are available in a choice of 4 or 5 impeller pitch angle settings.

### Motor

Type - standard TE motors. Electricity supply - single or three-phase to suit a wide range of voltages and frequencies. Bearings - sealed-for-life, ball. Motors can be single or multi-speed. Three-phase motors for size 500 to 800, can be speed-controlled using variable speed drives.

### Testing

Air flow tests to BS848:Part 1, 1980 Noise tests to BS848:Part 2, 1985

### Suggested Specification

The Multiflow Mixed-Flow In-Line Fans shall be as designed and manufactured by Fantech Pty Ltd and be of the model numbers shown on the schedule/drawings. The mixed-flow impeller shall be of patented, adjustable pitch design, manufactured from aluminium and driven by standard TE

motors. Housings shall be of galvanised steel with 35mm TDF profile flange connections.

All models shall be fully tested to BS848 Part 1, 1980 for air flow and BS848 Part 2, 1985 for noise.

### Dimensions



A	B
700	650

### Technical Data - MMD504/4

Speed	Avg. dBA @	kWatts	Amps	Max.	Approx. We
[rps]	3m	(Input)		°C	[kg]
24	66	2.2	4.7	40	58

Sound Data

Туре	63	125	250	500	1K	2K	4K	1
inlet	85	85	84	82	79	81	76	

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### Multiflow Series - MMD504/3



### Description

The Multiflow Series of In-Line Mixed-Flow Fans is designed for a wide range of duct mounted applications. They are most suitable in applications where higher air flows are required at medium pressures. A particular feature of this product is its low noise levels in comparison to axial and centrifugal selections. They are available in various speed options and in 9 sizes, extending from 250 to 800mm diameter.

### Features

- Robust, yet lightweight galvanised steel construction.
- · Easy to fit 35mm TDF profile flange connections.
- · Patented, adjustable pitch, mixed-flow impellers.
- · Large choice of speeds available.
- · To improve energy efficiency motors can be speed-controlled.
- Motors complying with Ex d, Ex e, Ex nA and Ex tD. Standards can
- be fitted.
- · Can be mounted in any position.
- · A range of matching ancillaries is also available.
- · Robust, yet lightweight galvanised steel construction.
- Easy to fit 35mm TDF profile flange connections.
- · Patented, adjustable pitch, mixed-flow impellers.
- · Large choice of speeds available.
- · To improve energy efficiency motors can be speed-controlled.
- · Motors complying with Ex d, Ex e, Ex nA and Ex tD. Standards can be fitted.
- Can be mounted in any position.
- A range of matching ancillaries is also available.

### Construction

Galvanised steel housings with 35mm TDF profile flange connections. Patented, adjustable pitch, mixed-flow impellers made from aluminium.

Sizes 250 to 450 are available in a choice of 2 impeller pitch angle settings.

Sizes 500-800 are available in a choice of 4 or 5 impeller pitch angle settings.

### Motor

Type - standard TE motors. Electricity supply - single or three-phase to suit a wide range of voltages and frequencies. Bearings - sealed-for-life, ball. Motors can be single or multi-speed. Three-phase motors for size 500 to 800, can be speed-controlled using variable speed drives.

### Testing

Air flow tests to BS848:Part 1, 1980 Noise tests to BS848:Part 2, 1985

### Suggested Specification

The Multiflow Mixed-Flow In-Line Fans shall be as designed and manufactured by Fantech Pty Ltd and be of the model numbers shown on the schedule/drawings The mixed-flow impeller shall be of patented, adjustable pitch design, manufactured from aluminium and driven by standard TE

motors.

Housings shall be of galvanised steel with 35mm TDF profile flange connections. All models shall be fully tested to BS848 Part 1, 1980 for air flow and BS848 Part 2, 1985 for noise.

### Dimensions



Speed	Avg. dBA @	kWatts	Amps	Max.	Approx. Wei
[rps]	3m	(Input)		°C	[kg]
24	66	1.5	3.44	40	58

Туре	63	125	250	500	1K	2K	4K	3
Inlet	85	85	84	82	79	81	76	

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### Gamma Vertical Series – CE404V



### Description

The Gamma Series of centrifugal roof units has been designed for use in commercial ducted exhaust applications. These compact and low profile units are fitted with birdmesh to prevent the entry of birds and vermin into the ducting or building. They are available in 12 sizes, extending from 192 to 710mm diameter.

### Features

- Robust, lightweight construction.
- Choice of speeds available.
- Compact, low profile design.
- Designed for vertical exhaust applications.
- Twin vertical discharge fan also available. Provides 100% standby capacity.
- · Shutters are standard on twin fan units and an optional extra for single fan units. The pressure loss across the shutter has to be added to the system pressure before making selections.
- Can be mounted at angle up to 30°.
- Most 3-phase motors are 2-speed star/delta design.
- Supply air units can be supplied.
- Robust, lightweight construction.
- Choice of speeds available.
- Compact, low profile design.
- · Designed for vertical exhaust applications.

 Twin vertical discharge fan also available. Provides 100% standby capacity.

 Shutters are standard on twin fan units and an optional extra for single fan units. The pressure loss across the shutter has to be added

to the system pressure before making selections.

- Can be mounted at angle up to 30°.
- Most 3-phase motors are 2-speed star/delta design.
- Supply air units can be supplied.

### Construction

Cowls are UV-stabilised plastic.

Impellers are backward-curved centrifugal design and can be plastic, steel or aluminium.

Steel components have a corrosion resistant finish.

Bird-mesh guards are fitted as standard to both downflow and vertical exhaust models.

### Motor

Type - external rotor, squirrel cage induction motor Electricity supply - 230V, single and 415V, three-phase, 50Hz Bearings - sealed-for-life, ball Speed-controllable using electronic or auto-transformer controllers (except CE316)

Most three-phase units are fitted with 2-speed star/delta design motors

### Testing

Air flow tests to ISO5801:2007 Noise tests to BS848:Part 2, 1985

### Suggested Specification

The Gamma Series of centrifugal roof ventilators shall be of the vertical exhaust type as designed and manufactured by Fantech Pty. Ltd.

Impellers shall be backward-curved centrifugal design and driven by speed-controllable external rotor motors with integral thermal protection

The windband shall be of the vertical exhaust design and formed from plastic. Steel components shall be corrosion protected. All models shall be fully tested as a complete assembled unit to ISO5801:2007 for air flow and BS848:Part 2, 1985 for noise.

### Dimensions



Speed	Avg. dBA @	kWatts	Amps	Max.	Approx. We
[rps]	3m	(Input)		°C	[kg]
21	54	0.43	2.4	60	18

Туре	63	125	250	500	1K	2K	4K	
Iniet	82	80	75	72	65	66	66	Γ

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Outdoor Units	VRV H SERIES		
Standard Type			

0	con contra			7 11	SERIE	3										
Standard Ty	ре							0							0	
				*			N.	Í V			Interest					
Model			RXYQ6AYM	RXYQ8AYM	RXYQ10AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM	RXYQ18AYM	RXYQ20AYM	RXYQ22AYMA	RXYQ24AYMA	RXYQ26AYMA	RXYQ28AYMA	RXYQ30AYMA	RXYQ32AYMA
			-		-	and the	1.17	*	1.1	-	RXYQ10AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ12AYM	RXYQ16AYM
Combination unit	\$				57		10		1.7	-	RXYQ12AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM	RXYQ18AYM	RXYQ16AYM
			-		-	-	-	<u> </u>	-	-	-	-			-	-
Power supply				3 ph	ase 4-wire system, 38	0-415V/ 380V, 50Hz	/ 60Hz				3 pha	ise 4-wire system, 38	30-415V/ 380V, 50Hz	/ 60Hz		
Cooling capacity		Btu/h	54,600	76,400	95,500	114,000	136,000	154,000	171,000	191,000	210,000	229,000	251,000	268,000	285,000	307,000
cooling capacity		kW	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	67.0	73.5	78.5	83.5	90.0
Menting capacity		Btu/h	61,400	85,300	107,000	128,000	154,000	171,000	191,000	215,000	235,000	256,000	281,000	299,000	319,000	341,000
rieding capacity		kW	18.0	25.0	31.5	37.5	45.0	50.0	56.0	63,0	69.0	75.0	82.5	87.5	93.5	100
Casing colour				·	Ivory white	e (5Y7.5/1)					× 3	Ivory whit	e (5Y7,5/1)			
Airflow rate		m³/min	119		78	191	2	57	252	297	178+191	191+191	191	+257	191+252	257+257
Dimensions (H×W	/×D)	mm		1,657x	930×765		1,657×1	,240×765	1,657×1	,240×765	(1,657×930×765)	+(1,657×930×765)	(1,657×	930×765)+(1,657×1,2	240×765}	(1,657×1,240×765)+ (1,657×1,240×765)
Machine weight		kg	11	85	2	00	2	85	305	325	200	+200	200	+285	200+305	285+285
Sound level		dB(A)	5	56	57	59	é	30	61	65	61	62		(	13	· · · · · · · · · · · · · · · · · · ·
0.0	Туре	N	XZ	V	R-4	10A	Δ			12		R-A	10A			
Heingerant	Charge	e kg	6.9	7.0	7.4	7.6	9.1	9.3	8	1.8	7.4+7.6	7.6+7.6	7.6+9.1	7.6+9.3	7.6+11.8	9.3+9.3
Piping	Liquid	mm	VV	ψ9.5 (Brazing)			¢12.7 (Brazing)			¢15.9	(Brazing)	1		φ19.1 (	Brazing)	
connections	Gas	mm	φ19.1 (	Brazing)	φ22.2 (Brazing)		¢28.6 (Brazing)			d28.6 (Brazing)				φ 34.9 (Brazing)	an san ang ang katili sa sa	



			*	ľ											M	Ęυ	
Model			RXYQ34AY	MA	RXYQ36AYMA	RXYQ38AYMA	RXYQ40AYMA	RXYQ42AYMA	RXYQ44AYMA	RXYQ46AYMA	RXYQ48AYMA	RXYQ50AYMA	RXYQ52AYMA	RXYQ54AYMA	RXYQ56AYMA	RXYQ58AYMA	RXYQ60AYMA
			RXYQ16A	YM	RXYQ16AYM	RXYQ12AYM	RXYQ12AYM	RXYQ10AYM	RXYQ12AYM	RXYQ14AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ18AYM	RXYQ18AYM	RXYQ18AYM	RXYQ20AYM
Combination units			RXYQ18A	YM	RXYQ20AYM	RXYQ12AYM	RXYQ12AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ18AYM	RXYQ18AYM	RXYQ18AYM	RXYQ20AYM	RXYQ20AYM
			177		-	RXYQ14AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ16AYM	RXYQ18AYM	RXYQ18AYM	RXYQ18AYM	RXYQ20AYM	RXYQ20AYM	RXYQ20AYM
Power supply					3 pha	se 4-wire system, 38	80-415V/ 380V, 50Hz	/ 60Hz			Q	3 pha	ise 4-wire system, 38	30-415V/ 380V, 50Hz	/ 60Hz		
Coolina canacity		Btu/h	324,000 345,000 365,000 382,000		403,000	423,000	444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000			
Cooling capacity		kW	95.0		101	107	112	118	124	130	135	140	145	150	156	162	168
Heating canacity		Btu/h	362,000	5 I I	386,000	409,000	427,000	450,000	471,000	495,000	512,000	532,000	553,000	573,000	597,000	621,000	645,000
reating capacity		kW	106		113	120	125	132	138	145	150	156	162	168	175	182	189
Casing colour			Ivory white (5Y7.5/1)				e (5Y7.5/1)	1h2			Q		lvery whit	e (5Y7.5/1)	0	0	0
Airflow rate		m∜/min	257+252		257+297	191+1	91+257	178+257+257	191+257+257	257+2	57+257	257+257+252	257+252+252	252+252+252	252+252+297	252+297+297	297+297+297
Dimensions (H×W	×D)	mm	(1,657×1,240	×765)+(	(765)+(1,657×1.240×765) (1,657×930×765)+(1,657×930×765) (1,657×930×765)+(1,657×1,240×1,240) +(1,657×1,240×1,240) +(1,657×1,240×1,240)				1,657×1,240×1,240) 240×1,240)			(1,657×1	1,240×765)+(1,657×1	,240×765)+(1,657×1,	240×765)		
Machine weight		kg	285+305	51 14	285+325	200+2	00+285	200+2	85+285	285+2	85+285	285+285+305	285+305+305	305+305+305	305+305+325	305+325+325	325+325+325
Sound level		dB(A)	64	-	66			64			e	15		66	68	69	70
-	Туре	Type R-410A				37	12	R-4	10A								
weingerant	Charge	kg	01	9.3+1	1.8	7.6+7.6+9.1	7.6+7.6+9.3	7.4+9.3+9.3	7.6+9.3+9.3	9.1+9.3+9.3	9.3+9.3+9.3	9.3+9.3+11.8	9.3+11.8+11.8	-	11.8+1	1.8+11.8	
Piping	Liquid	mm	32			φ19.1 (	Brazing)				TVV		φ19.1 (	Brazing)			
connections	Gas	mm	634.9 (Brazi	ing)			d41.3 (Brazing)			641.3 (Brazing)							

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### Specifications

### Ceiling mounted duct type

1	Mod	el		FXMQ200PV1A	FXMQ250PV1A
Power supply			2	1 phase, 220-240 V, 50 Hz	1 phase, 220-240 V, 50 Hz
			kcal/h	19,300	24,100
+1 +3 Coolir	g capacity		Btu/h	76,400	95,500
			kW	22.4	28.0
			kcal/h	21,500	27,100
★2 ★3 Heatir	ig capacity		Btu/h	85,300	107,500
			kW	25.0	31.5
Designed bened	Cooling	50 Hz	kW	0.640	0.810
ower input	Heating	50 Hz	kW	0.640	0.810
Casing / Colo	ur		10 C	Galvanized steel plate	Galvanized steel plate
Dimensions:	HxWxD)		mm	470×1,333×919	470×1,333×919
Suction flang	Э	Ĩ	mm	393×1,118	393×1,118
Supply flange	È.		mm	350×1,118	350×1,118
	Туре			Cross fin coil	Cross fin coil
Coll	RowsxStag	gesxFin pitch	an an an	3×26×1.5	3×26×1.5
	Face area		m <sup>2</sup>	0.628	0.628
	Model			-	
	Туре			Sirocco fan	Sirocco fan
	Motor outp Number of	ut× units	w	750×1	980×1
an			m³/min	72	84
	Airflow rate	•	I/s	1,200	1,400
	1913 BARRAN BARRA		cfm	2,542	2,965
	External st	atic pressure	Pa	Rated 150 (250-50 +4)	Rated 150 (250-50 +4)
	Drive			Direct drive	Direct drive
emperature	control		8	Microprocessor thermostat for cooling and heating	Microprocessor thermostat for cooling and heating
Air filter				- *5	<b>-★</b> 5
	Liquid pipe	s	mm	φ9.5 (Brazing connection)	69.5 (Brazing connection)
Pining	Gas pipes	5 E	mm	\$\$\phi19.1 (Brazing connection)	φ22.2 (Brazing connection)
connections	Drain pipe		mm	BSP 3/4 Internal thread (OD ¢32.7)	BSP 3/4 Internal thread (OD ¢32.7)
Mass			kg	79	85
6 Sound pre	essure level (	(H/M/L)	dB(A)	44/30.5/37	46/42.5/39
Safety device	s	(		Fuse, Thermal protector for fan motor	Fuse, Thermal protector for fan motor
Refrigerant o	ontrol			Electronic expansion valve	Electronic expansion valve
Standard acc	essories			Operation manual, Installation manual, Air discharge flange, Air suction flange	Operation manual, Installation manual, Air discharge flange, Air suction flange
Denuine Me	Specificatio	on		C: 3D111092C	C: 3D111092C
Jawing No.	Sound leve	al .		C: 4D111387	C: 4D111388

### Notes:

- +1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Rated external static pressure / Equivalent piping length: 7.5 m, level difference: 0 m.
- \*2. Indoor temp.: 20°CDB / outdoor temp.: 7°CDB, 6°CWB / Rated external static pressure / Equivalent piping length: 7.5 m, level difference: 0 m.
- ★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
   ★4. External static pressure is changeable by remote controller.
- +5. Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% or more.
- \*6. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.

### **Fan Performances**





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Conversion formulae

kcal/h=kWx860 Btu/h=kWx3412 I/s=m²/minx1000/60 cfm=m²/minx35.3

### FXMQ200PV1A





1B

997

Dia.

4

3

1

2

413.5

33

350

248.5 216





Number	Name	Description
1	Liquid pipe connection	e9.5 brazed connec
2	Gas pipe connection	ø19.1 brazed conne
3	Electrical control box	
4	Drain hose	
5	Name plate	
6	Power wiring entry	
7	Inter unit wiring entry	BSP 3/4 internal t

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392.5

560

AIR FLOW



### FXMQ250PV1A











Number	Name	Description
1	Liquid pipe connection	ø9.5 brazed connect
2	Gas pipe connection	e22.2 brazed conned
3	Electrical control box	
4	Drain hose	
5	Name plate	
6	Power wiring entry	
7	Inter unit wiring entry	BSP 3/4 internal th

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# **Envirohood** Type 7 Proprietary Kitchen Exhaust Hood









### **Product Overview**

Envirohood type 7 proprietary kitchen exhaust hood removes contaminant air and excess heat generated during the cooking process.

The envirohood are full engineered to maximise effectiveness while minimising energy usage. The envirohood requires 30% - 40% less exhaust air volume than traditional exhaust hoods.

Envirohood are independently certified by Global-Mark.

Global-Mark are world recognised independent certifiers.



www.global-mark.com.au



Stainless steel flame guard honeycomb filter AS 1530.1 CSIRO Certified









# A.O.S Proprietary Type 7 Kitchen Exhaust Hood Enviro UV

2	ary Type 7							= 3	
= Enviro L	= Propriet		= 3350	= 1400	= 650	= 650	= 2100	jht Panel	
Aodel	Type	Quantity	Fotal Length	Fotal Width	Height	Front Height	loor to Canopy	Number of UV Lig	

Exhaust Detail		
Minimum Air Flow	= 1213 L/S	
Static Pressure	= 64	
Exhaust Spigot	с П	
Power Requirement	= 3350	
Total Width	= 1400	
Height	= 650	
Front Height	= 650	
Floor to Canopy	= 2100	
Number of UV Light Pa	nel = 3	
Power Requirement For	· Exhaust Fan	= 3 Phase 10 Amps Circuit Plug Base Socket (Female)



= 60 pa = Ø250 က ။ Air Flow = 970 L/SMake Up Air Spigots Static Pressure Dimension

# Filter Required

Stainless Steel Flame Guard C.S.I R.O Approved

9 = Quantity = 381 × 457 × 51 Dimension



Single Phase 10 Amps Circuit Plug Base Socket (Female)

Power Requirement For UV Light



### UVi-Aire & COS-10-90 COS - 5 - 90**UVC OZONE TREATMENT** FOR KITCHEN EXHAUST



### **UVC OZONE CHAMBER**

Ozone is produced by UVC lamps without the Titanium Dioxide coating that attenuates frequencies lower than 200 nanometers. At the 187 nm line, it breaks oxygen apart to form two unstable 0 which in turn fuse with another O2 to form O3. Ozone is a powerful oxidant and extremely effective germicidal agent which destroys organic molecules in the air as well as grease and oil from kitchen exhaust. It has a very short lifespan and in ambient temperatures, it will only last 20 to 30 minutes before it returns to normal oxygen O2.

UVC Ozone is also a scientific breakthrough in odour and grease control, the most effective method known today for eliminating unpleasant odours, grease and oil mist in processing areas. However, in cases where a lot so smoke is generated during the cooking process such as char-grilling, the use of an industrial electronic air cleaner or electrostatic precipitator (EP) is recommended.

### **UVi-Aire UVC Ozone Chamber**

Units are designed for easy integration to existing or new exhaust ducts. The ballasts and other components are kept out of the airstream. Lamps are installed in a rack and are can be easily replaced by opening the ballast compartment. The whole rack can be removed for lamp change or individual lamps can be removed one by one.

COS-5-90 and COS-10-90 units should be installed as near to the cooking hoods as possible, or as far as possible from the discharge outlet, so as to give the longest possible contact time with the cooking exhaust. For optimum performance, the contact time for air treatment in the duct should be approximately 0.1 to 0.2 seconds or longer if possible. Charcoal filters may be installed at the last stage to mop up residue ozone if preferred.



Ozone is a suicidal molecule: it looks for a contaminant to attack. oxidizes it destroying itself in the process



UVC Ozone Chamber COS-5-90 and COS-10-90.

Model No	Input Voltage	Lamps' Power	Lamps' Length	No of Lamps	Lamps' Life	Capacity
COS-5-90	230 Volts AC	75 watts Max	846mm	5	9000 Hrs	1000 - 1500 L/s
COS-10-90	230 Volts AC	75 watts Max	846mm	10	9000 Hrs	1500 - 2000 L/s

•

Chamber Housing Material: Stainless Steel

- Dimension: W:990mm x H:534mm x D:400mm
- Weight : 53 Kg

Care should be taken to prevent exposure to UV Ozone light. Power supply to the UV Ozone lamps should be interlocked with the kitchen exhaust fan and should be turned off during routine maintenance.

### Features & Benefits:

• Compact Design

Distributed by:

- Quick and Easy Installation No Noise
  - Easy Maintenance
    - Reduces Duct Cleaning

• No Pressure Drop

• Operations Indicator LEDs



Note: Ozone Chamber can be modified to suit any cooking applications

		Before /After	
		AHU 5B South	
Record	d Data (Summarized)	1 <sup>st</sup> Reading (09/12/11)	2 <sup>nd</sup> Reading (01/17/12)
EMS	R.A.T	69.14%	68.89%
	S.A.T	54.17%	53.97%
	CHWV%	39.4%	33.7%
	Static Pressure	.83"	.89"
	VFD Output	91.37%	89.96%
	Outdoor Air		
	D.B.	79.8"	76.4"
	W.P.	75.7"	65.5"
	D.P.	74.4%	59.7%
	Total Air (CFM)	10.699	15.708
	Coil ΔP"	1.08"	.781"
	Fan VFD Htz.	55.4	54.38
	Fan % Speed	92%	90.6%
	ТМВН	388.978	420.102

### Calculation

1<sup>st</sup> Reading 10,699 CFM with a 1.08" coil  $\Delta P$ . An air flow increase, under same conditions would have created a 2.32"  $\Delta P$ , however actual is .871"





# Certificate of Approval

This certificate confirms that the company below complies with the following standard(s):

Company Name	AOS Air Odour Solutions Pty Ltd		Client ID		104074	
Company Other Name	AOS Air & Odour Solutions Australia Pty Ltd		Type of Certification		Product Certification; System 5	
Certification Standard	AS 1668.2-2012 : The use of ventilation and construction and installation	air-c	conditioning ii	n buil	dings - Appendix E Kitchen exhaust hoods – design	
Certification Review Date	23/02/2017		Certification Expiry 1	Date	23/02/2022	
Certificate Issue Date	3/09/2017	1	Certificate Last Upda Date	ite	3/09/2017	

APPROVED COMPANY/SITE ADDRESS(ES): 32 Chifley Street Smithfield 2164 NSW Australia

This certification remains valid until the above mentioned expiry date and subject to the organisation's continued compliance with the certification standard, and Global-Mark's Terms and Conditions. This Certificate of Approval remains the property of Global-Mark Pty Ltd, Company Number: ACN.108-087-654.



Jenethour

Global-Mark Pty Ltd, 407, 32 Delhi Road, North Ryde NSW 2113, Australia - Copyright 2005 Unique Certificate Code: AE7823E47887B781CA2581790008C664





to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the expertise of external bodies (laboratories, and technical experts). In placing the authorised mark on the product, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical Model(s) on which the Global-Mark logo may be applied by the certificate holder as a declaration of compliance by the certificate holder:

Model Identification	Model Name	Brand Name	Product Description/Attributes	Date Approved
Envirohood - IH	Envirohood	AOS	Proprietary Type 7 exhausthood (Island hood) with or without make – up air.	8/08/2017
Envirohood - LB	Envirohood	AOS	Proprietary Type 7 exhausthood (Low back hood) with or without make – up air.	8/08/2017
Envirohood - WM	Envirohood	AOS	Proprietary Type 7 exhausthood (Wall mounthood) with or without make – up air. 8	8/08/2017
Comments:				

## Conditions:

1. Each appliance design must be approved and certified by the manufacturer in accordance with the AOS procedures,

2. Each appliance must be type tested by the manufacturer in accordance with the AOS procedures,

3. Must be installed and commissioned in accordance with AOS Installation Manual 09/2017 and by AOS trained and approved installers.

# End of the document



Certification Manager

Page 2 of 2

### **Certificate of Test**

### Quote No.: NC7790

### **REPORT No.: FNC11997**

SIRO

### **COMBUSTIBILITY TEST FOR MATERIALS IN ACCORDANCE WITH AS 1530.1-1994**

TRADE NAME:	The Sponsor identified the tested specimen as a stainless steel honeycomb grease filter.		
SPONSOR:	AOS Air & Odour Solutions Australia Pty Ltd 32 Chifley Street SMITHFIELD NSW 2161 AUSTRALIA		
DESCRIPTION OF	The sponsor described	the tested specimen as uncoated corrugated staipless steel	
ILJI JAIVIFLL.	honeycomb grease filter each other and stacked testing.	s. The 45-mm diameter stainless steel discs were loose laid on up without adhesive to form the 50-mm height suitable for	
	Nominal thickness: Nominal density: Colour:	0.15 mm (50-mm thick for the test) 8000 kg/m³ silver	
TEST PROCEDURE:	Five (5) samples were tested in accordance with Australian Standard 1530 Method for fire tests on building materials, components and structures, Part 1- 1994 Combustibility Test for Materials.		
	An alternative suitable insulating material was used to fill the annular space between the furnace tubes, as specified in Clause 4.2 of ISO 1182:2010.		
RESULTS:	Mean furnace thermocouple temperature rise		
	Mean specimen centre thermocouple temperature rise		
	Mean specimen surface thermocouple temperature rise 2.4°C		
	Mean duration of sustain	ned flaming0 seconds	
	Mean mass loss		
DESIGNATION:	The material is NOT deemed COMBUSTIBLE according to the test criteria specified in Clause 3.4 of AS 1530.1-1994.		

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

DATE OF TEST: 17 July 2017

Issued on the 1<sup>st</sup> day of August 2017 without alterations or additions.

Heherson Alarde

Brett Roddy

**Testing Officer** Team Leader, Fire Testing and Assessments Copyright CSIRO 2017 ©. Copying or alteration of this report without written authorisation from CSIRO is forbidden.



NATA Accredited Laboratory Number: 165 Corporate Site No 3625 Accredited for compliance with ISO/IEC 17025 - Testing.

### **CSIRO** INFRASTRUCTURE TECHNOLOGIES

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