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Airius (Oceania) Pty Ltd PO Box 6282 Alexandria NSW 2015

14 July, 2015

Refer: 5703-2.1L

Attention: Mr John Brodie

Email: johnbrodie@airius.com.au

AIRIUS AIR PEAR THERMAL EQUALISER SOUND POWER LEVEL COMPARISONS

We are pleased to advise that we have reviewed the acoustical data for Airius Air Pear Thermal Equaliser Models A-45P4, A-45P2, A-60P4 and A-100EC.

1.0 AIRIUS FANS A-45P4, A-45P2, A-60P4 AND A-100EC

The Airius fans circulate air to evenly distribute air throughout a large space. The fans are designed to hang from the ceiling and distribute air from heights as follows:

- A-45P4 6 to 12 metres
- A-45P2 12.5 to 14 metres
- A-60P4 10 to 18 metres
- A-100EC 15 to 31 metres

Tested noise data for the Airius Air Pear Thermal Equalisers have been provided by the manufacturer. The datasheets for the four fans are attached as Appendix A. The calculated sound power levels from linear third octave band sound pressure levels is tabulated as follows:

Table 1 Airius Fans

Fan	Sound Power Level (dBA)	RPM
A-100EC	80	1690
A-60P4	73	1390
A-45P2	78	2450
A-45P4	66	1400





2.0 AUSTRALIAN STANDARD AS2107:2000

2.1 Recommended Internal Noise Levels

Australian Standard AS 2107:2000 *Recommended design sound levels and reverberation times for building interiors* recommend the following internal noise levels for industrial buildings and sports halls:

 Table 2
 Recommended Internal Noise Levels

Type of occupancy/activity	Recommended design sound level, L_{Aeq} , $dB(A)$	
	Satisfactory	Maximum
Industrial Buildings -		
Assembly Lines -		
Light machinery	55	70
Packaging and delivery	55	60
Control rooms	50	60
Foreman's offices	45	50
Laboratories or test areas	40	50
Lunch rooms	40	55
Precision assemblies	40	50
Sick bays	40	50
Indoor Sports Buildings -		
Billiard and snooker rooms	40	45
All other indoor sports -		
With coaching	45	50
Without coaching	50	55

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2.2 Sound Pressure Levels of Fans

Given the sound power levels in Table 1 above, the following sound pressure levels are calculated at distances outlined in the Table below:

Table 3 Sound Pressure Level of Fans

_		Sound Pressur	e Level from D	oischarge (dBA)	
Fan	1 metre	3 metres	5 metres	10 metres	20 metres
A-100EC	72	62	58	52	46
A-60P4	65	55	51	45	39
A-45P2	70	60	56	50	44
A-45P4	58	48	44	38	32

The above calculated sound pressure levels appear to be suitable for use in industrial buildings when compared against the recommended internal noise levels outlined in Australian Standard AS2107:2000, provided suitable distance from the fan is maintained.

We recommend that the installation of the fans be assessed on a case by case basis as the acoustic environment and installation may change depending on the use of the space.

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3.0 CONCLUSION

Day Design was engaged to investigate the sound power levels of fans from Airius.

The sound pressure levels of the Airius fans have been determined at various distances for comparison against Australian Standard 2107:2000 *Recommended design sound levels and reverberation times for building interiors* to determine suitability.

We recommend that the installation of the fans be assessed on a case by case basis as the acoustic environment may change depending on the use of the space.

William Wang, BE (Mechatronics), MIEAust, MAAS

Senior Acoustical Engineer

for and on behalf of Day Design Pty Ltd

AAAC MEMBERSHIP

Day Design Pty Ltd is a member company of the Association of Australian Acoustical Consultants, and the work herein reported has been performed in accordance with the terms of membership.



The undersigned hereby certifies that this Report has been checked and approved in accordance with our Quality Management System.



Date: 14/7/15

Attachments:

- Appendix A Airius Fans A-45P4, A-45P2, A-60P4, A-100EC Datasheets
- Appendix B Airius Test Data

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Airius Model 45 P4 Product Information Sheet

45-230V-PS-P4

Page 1 of 2

MODEL 45 DIMENSIONS



COVERAGE

• Floor area

 $45/PS-4 = 111m^2$

Diameter

45/PS-4 = 12m

Ceiling Height

45/PS-4 = 8.5m - 12m

MOTOR

- Single Phase
- 45/PS-4 Motor = 1400 rpm @ 50htz
- PSC Permanent Split Capacitor motor
- All model 45 motors are sourced by EBM PAPST

OPERATING TEMPERATURES

Min start temp (approx.) = -10° C
 Min running temp = -20° C
 Shut off = 135° C
 Reset = 125° C

COLOUR

- Cool gray 2C Off white as standard
- Can be tailor painted to your colour specifications

MODEL 45 PROPERTIES

ZE		Standard
UNIT SIZE	Weight:	6.4 kgs
\ <u>S</u>	Height to Rim:	457 mm
	Total Height:	610 mm
	Diameter:	380 mm

OR		230V	
101	Watts* @ 50 htz:	42	
-4 N	RPM* @ 50 htz:	1400	
45/PS-4 MOTOR	L/S* @ 50 htz (m3/hr):	280 (1010)	
\	AMPS* @ 50 htz:	.19	
	*Motor data provided by mot	or manufacturer and is subject to change at anytime	ē

INGRESS PROTECTION

IP44 Rated

NOISE LEVELS

- Sound Power Level 66 dB(A)
- Sound Pressure Level @ 3 Mts 48 dB(A)
- Sound Pressure Level @ 5 Mts 44 dB(A)

Note: A typical free field environment over a reflecting plane.

* All acoustic testing undertaken at the EBM- Papst Acoustic Laboratories in Connecticut USA during August 2014

Please contact Airius for full Noise Testing Report

ACCESSORIES & OPTIONS

- Airius suspended ceiling kit Allows Model 45 Airius unit to be mounted in a suspended ceiling grid
- Airius Transformer type speed controller 1 and 5 Amp available. 0-100% in 5 steps
- Airius speed control TRIAC speed control to adjust top end RPM
- PHI kit Photohydroionization Advanced oxidation technology - Used to mitigate air contaminants

WARRANTY



Airius Model 45 P4 Product Information Sheet

45-230V-PS-P4

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MODEL 45 PLACEMENT

PREPARATION

- Install electrical circuit(s) and outlet(s) in accordance with national and local electric codes
- Outlets should generally be mounted vertically unless a "twist/locking" type is being used
- Wall switch may be installed in circuit to disable power and prevent electrical hazards when servicing
- Confirm electrical continuity of Airius unit on the ground before permanently mounting in the ceiling

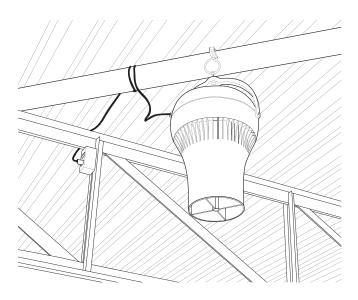
INSTALLATION

- Hang vertically as high in the ceiling as possible
 Typically 300 450 mm from the roof deck to intake
- The Airius unit performs best when air column from the nozzle is unimpeded to the floor
- Use professionally installed hardware, capable of supporting a minimum of five times the weight
- Hardware to hang the unit includes but is not restricted to: Hooks, chains, cables, carabiners, bridle rings, beam clamps and bolts
- Density of the placement is directly related to the effectiveness, performance and savings
- Mount out of reach from people and animals
- Floor plans, mezzanines, office locations, machinery, people placement, plumbing, lighting, duct work, electrical systems, natural light/air systems, cranes, doors, windows, ventilation and fire suppression systems are all factors in properly locating the Airius system within the ceiling

NOTE:- Air Pears must not be installed directly to structure if they are to be angled. In this case a small length of cable or wire must be used between the handle and the structure to reduce compound twisting torque on the handle.

OPERATION

- Designed to operate 24 hours-a-day, 7 days-aweek to maintain thermal equalization/humidity equalization
- Use optional speed control to fine tune RPM if needed



MAINTENANCE

- Frequency of cleaning will vary by application and environment
- You may clean the plastic housing with a damp warm cloth, using mild household detergents
- Do not use petroleum products, thinners or solvents to clean any part of the Airius unit
- If the Airius unit fails, contact manufacturer

MATERIALS & PROPERTIES

- Constructed from recyclable materials
- The outer shell, stator and fan blades are fire rated 5VA materials
- Power cord is a 3 wire 1.02 mm diameter 300VAC rated electrical cord - CE/EU compliance rated as HO5VV
- Motor is thermally protected. Shutoff is at 135°C & reset is at 125°C
- 45/PS-4 = 0 66 dB(A) Sound Power Level at 50 htz
- No lubrication required. Bearings are sealed











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Airius Model 45 P2 Product Information Sheet

45-230V-PS-P2

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MODEL 45 DIMENSIONS



COVERAGE

• Floor area

 $45/PS-2 = 139m^2$

Diameter

45/PS-2 = 13m

Ceiling Height

45/PS-2 = 12.5m - 14m

MOTOR

• Single Phase

• 45/PS-2 Motor = 2450 rpm @ 50htz

• PSC - Permanent Split Capacitor motor

All model 45 motors are sourced by EBM PAPST

OPERATING TEMPERATURES

Min start temp (approx.) = -10° C
 Min running temp = -20° C
 Shut off = 135° C
 Reset = 125° C

COLOUR

- Cool gray 2C Off white as standard
- Can be tailor painted to your colour specifications

INGRESS PROTECTION

• IP44 Rated

MODEL 45 PROPERTIES

ZE		Standard
UNIT SIZE	Weight:	6.4 kgs
S	Height to Rim:	457 mm
	Total Height:	610 mm
	Diameter:	380 mm

OR		230V
101	Watts* @ 50 htz:	125
-2 N	RPM* @ 50 htz:	2450
45/PS-2 MOTOR	L/S* @ 50 htz (m3/hr):	505 (1821)
`	AMPS* @ 50 htz: *Motor data provided by m	0.54 otor manufacturer and is subject to change at anytime

NOISE LEVELS

- Sound Power Level 78 dB(A)
- Sound Pressure Level @ 8 Mts 52 dB(A)
- Sound Pressure Level @ 12 Mts 48 dB(A)

Note: A typical free field environment over a reflecting plane.

* All acoustic testing undertaken at the EBM- Papst Acoustic Laboratories in Connecticut USA during August 2014

Please contact Airius for full Noise Testing Report

ACCESSORIES & OPTIONS

- Airius suspended ceiling kit Allows Model 45 Airius unit to be mounted in a suspended ceiling grid
- Airius Transformer type speed controller 1 and 5 Amp available. 0-100% in 5 steps
- Airius speed control TRIAC speed control to adjust top end RPM
- PHI kit Photohydroionization Advanced oxidation technology - Used to mitigate air contaminants

WARRANTY



Airius Model 45 P2 Product Information Sheet

45-230V-PS-P2

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MODEL 45 PLACEMENT

PREPARATION

- Install electrical circuit(s) and outlet(s) in accordance with national and local electric codes
- Outlets should generally be mounted vertically unless a "twist/locking" type is being used
- Wall switch may be installed in circuit to disable power and prevent electrical hazards when servicing
- Confirm electrical continuity of Airius unit on the ground before permanently mounting in the ceiling

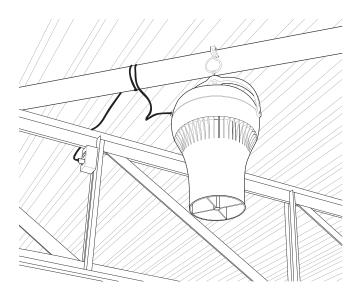
INSTALLATION

- Hang vertically as high in the ceiling as possible
 Typically 300 450 mm from the roof deck to intake
- The Airius unit performs best when air column from the nozzle is unimpeded to the floor
- Use professionally installed hardware, capable of supporting a minimum of five times the weight
- Hardware to hang the unit includes but is not restricted to: Hooks, chains, cables, carabiners, bridle rings, beam clamps and bolts
- Density of the placement is directly related to the effectiveness, performance and savings
- Mount out of reach from people and animals
- Floor plans, mezzanines, office locations, machinery, people placement, plumbing, lighting, duct work, electrical systems, natural light/air systems, cranes, doors, windows, ventilation and fire suppression systems are all factors in properly locating the Airius system within the ceiling

NOTE:- Air Pears must not be installed directly to structure if they are to be angled. In this case a small length of cable or wire must be used between the handle and the structure to reduce compound twisting torque on the handle.

OPERATION

- Designed to operate 24 hours-a-day, 7 days-aweek to maintain thermal equalization/humidity equalization
- Use optional speed control to fine tune RPM if needed



MAINTENANCE

- Frequency of cleaning will vary by application and environment
- You may clean the plastic housing with a damp warm cloth, using mild household detergents
- Do not use petroleum products, thinners or solvents to clean any part of the Airius unit
- If the Airius unit fails, contact manufacturer

MATERIALS & PROPERTIES

- Constructed from recyclable materials
- The outer shell, stator and fan blades are fire rated 5VA materials
- Power cord is a 3 wire 1.02 mm diameter 300VAC rated electrical cord - CE/EU compliance rated as HO5VV
- Motor is thermally protected. Shutoff is at 135°C & reset is at 125°C
- 78 dB(A) Sound Power Level at 50 htz
- No lubrication required. Bearings are sealed











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Airius Model 60 Product Information Sheet

60-230V-PS-P4

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MODEL 60 DIMENSIONS



COVERAGE

Floor area = 186m²
 Diameter = 15m
 Ceiling Height = 15m - 18m

MOTOR

- Single Phase
- 1390 rpm @ 50htz
- PSC Permanent Split Capacitor motor
- All model 60 motors are sourced by EBM PAPST

OPERATING TEMPERATURES

Min start temp (approx.) = -10° C
 Min running temp = -20° C
 Shut off = 135° C
 Reset = 125° C

NOISE LEVELS

• Sound Power Level 73 dB(A)

• Sound Pressure Level @ 8 Mts 47 dB(A)

Sound Pressure Level @ 12 Mts 43 dB(A)

Note: A typical free field environment over a reflecting plane.

* All acoustic testing undertaken at the EBM- Papst Acoustic Laboratories in Connecticut USA during August 2014

Please contact Airius for full Noise Testing Report

MODEL 60 PROPERTIES

ZE		Standard
UNIT SIZE	Weight:	10 kgs
S	Height to Rim:	610 mm
	Total Height:	813 mm
	Diameter:	464 mm

N.		230V
MOTOR	Watts* @ 50 htz:	120
Ž	RPM* @ 50 htz:	1390
	L/S* @ 50 htz (m3/hr):	786 (2832)
	AMPS* @ 50 htz:	.57
	*Motor data provided by mo	otor manufacturer and is subject to change at anytime

INGRESS PROTECTION

• IP44 Rated

COLOUR

- Cool gray 2C Off white as standard
- Can be tailor painted to your colour specifications

ACCESSORIES & OPTIONS

- Airius suspended ceiling kit Allows model 60 Airius unit to be mounted in a suspended ceiling grid
- Airius Transformer type speed controller 1 and 5 Amp available. 0-100% in 5 steps
- Airius speed control TRIAC speed control to adjust top end RPM
- PHI kit Photohydroionization Advanced oxidation technology - Used to mitigate air contaminants

WARRANTY



Airius Model 60 Product Information Sheet

60-230V-PS-P4

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MODEL 60 PLACEMENT

PREPARATION

- Install electrical circuit(s) and outlet(s) in accordance with national and local electric codes
- Outlets should generally be mounted vertically unless a "twist/locking" type is being used
- Wall switch may be installed in circuit to disable power and prevent electrical hazards when servicing
- Confirm electrical continuity of Airius unit on the ground before permanently mounting in the ceiling

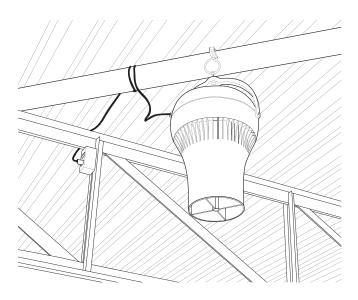
INSTALLATION

- Hang vertically as high in the ceiling as possible
 Typically 300 450 mm from the roof deck to intake
- The Airius unit performs best when air column from the nozzle is unimpeded to the floor
- Use professionally installed hardware, capable of supporting a minimum of five times the weight
- Hardware to hang the unit includes but is not restricted to: Hooks, chains, cables, carabiners, bridle rings, beam clamps and bolts
- Density of the placement is directly related to the effectiveness, performance and savings
- Mount out of reach from people and animals
- Floor plans, mezzanines, office locations, machinery, people placement, plumbing, lighting, duct work, electrical systems, natural light/air systems, cranes, doors, windows, ventilation and fire suppression systems are all factors in properly locating the Airius system within the ceiling

NOTE:- Air Pears must not be installed directly to structure if they are to be angled. In this case a small length of cable or wire must be used between the handle and the structure to reduce compound twisting torque on the handle.

OPERATION

- Designed to operate 24 hours-a-day, 7 days-aweek to maintain thermal equalization/humidity equalization
- Use optional speed control to fine tune RPM if needed



MAINTENANCE

- Frequency of cleaning will vary by application and environment
- You may clean the plastic housing with a damp warm cloth, using mild household detergents
- Do not use petroleum products, thinners or solvents to clean any part of the Airius unit
- If the Airius unit fails, contact manufacturer

MATERIALS & PROPERTIES

- Constructed from recyclable materials
- The outer shell, stator and fan blades are fire rated 5VA materials
- Power cord is a 3 wire 1.02 mm diameter 300VAC rated electrical cord - CE/EU compliance rated as HO5VV
- Motor is thermally protected. Shutoff is at 135°C & reset is at 125°C
- 0-73 dB(A) Sound Power Level at 50 htz
- No lubrication required. Bearings are sealed











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Airius Model 100 Product Information Sheet

100-230V-EC

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MODEL 100 DIMENSIONS



COVERAGE

Floor area = 232m²
 Ceiling Height = 20m - 31m
 Diameter = 17m

MOTOR

- Single Phase
- 1690 rpm @ 50htz
- EC Electrically Commutated, 92% efficient motor
- All model 100 motors are sourced by EBM PAPST

OPERATING TEMPERATURES

Min start temp (approx.) = -10° C
 Min running temp = -20° C
 Shut off = 135° C
 Reset = 125° C

NOISE LEVELS

- Sound Power Level 80 dB(A)
- Sound Pressure Level @ 10 Mts 52 dB(A)
- Sound Pressure Level @ 30 Mts 42 dB(A)

Note: A typical free field environment over a reflecting plane.

* All acoustic testing undertaken at the EBM- Papst Acoustic Laboratories in Connecticut USA during August 2014

Please contact Airius for full Noise Testing Report

MODEL 100 PROPERTIES

ZE		Standard
UNIT SIZE	Weight:	20.5 kgs
S	Height to Rim:	845 mm
	Total Height:	N/A
	Diameter:	495 mm

~		230V
MOTOR	Watts* @ 50 htz:	390
Ž	RPM* @ 50 htz:	1690
	L/S* @ 50 htz (m3/hr):	1584 (5705)
	AMPS* @ 50 htz:	2.5
	*Motor data provided by mo	tor manufacturer and is subject to change at anytime

INGRESS PROTECTION

• IP54 Rated

COLOUR

- Cool gray 2C Off white as standard
- Can be tailor painted to your colour specifications

ACCESSORIES & OPTIONS

- Airius speed control Potentiometer to alter 0-10VDC control (EC)
- Building management systems can vary speed of EC based on a 0-10VDC

WARRANTY



Airius Model 100 Product Information Sheet

100-230V-EC

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MODEL 100 PLACEMENT

PREPARATION

- Install electrical circuit(s) and outlet(s) in accordance with national and local electric codes
- Outlets should generally be mounted vertically unless a "twist/locking" type is being used
- Wall switch may be installed in circuit to disable power and prevent electrical hazards when servicing
- Confirm electrical continuity of Airius unit on the ground before permanently mounting in the ceiling

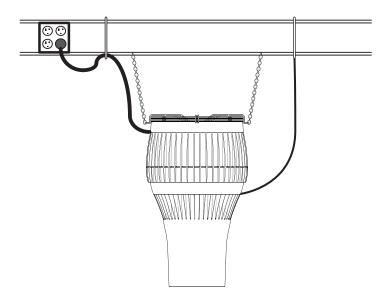
INSTALLATION

- Hang vertically as high in the ceiling as possible
 Typically 300 450 mm from the roof deck to intake
- The Airius unit performs best when air column from the nozzle is unimpeded to the floor
- Use professionally installed hardware, capable of supporting a minimum of five times the weight
- Hardware to hang the unit includes but is not restricted to: Hooks, chains, cables, carabiners, bridle rings, beam clamps and bolts
- Density of the placement is directly related to the effectiveness, performance and savings
- Mount out of reach from people and animals
- Floor plans, mezzanines, office locations, machinery, people placement, plumbing, lighting, duct work, electrical systems, natural light/air systems, cranes, doors, windows, ventilation and fire suppression systems are all factors in properly locating the Airius system within the ceiling.

NOTE:- Air Pears must not be installed directly to structure if they are to be angled. In this case a small length of cable or wire must be used between the handle and the structure to reduce compound twisting torque on the handle.

OPERATION

- Designed to operate 24 hours-a-day, 7 days-aweek to maintain thermal equalization/humidity equalization
- Use optional speed control to fine tune RPM if needed



MAINTENANCE

- Frequency of cleaning will vary by application and environment
- You may clean the plastic housing with a damp warm cloth, using mild household detergents
- Do not use petroleum products, thinners or solvents to clean any part of the Airius unit
- If the Airius unit fails, contact manufacturer

MATERIALS & PROPERTIES

- Constructed from recyclable materials
- The outer shell, stator and fan blades are fire rated 5VA materials
- Power cord is a 3 wire 1.02 mm diameter 300VAC rated electrical cord - CE/EU compliance rated as HO5VV
- EC Electrically Commutated, 92% efficient motor
- Motor is thermally protected. Shutoff is at 135°C & reset is at 125°C
- 80 dB(A)* Sound Level Power at 50 htz
- No lubrication required. Bearings are sealed









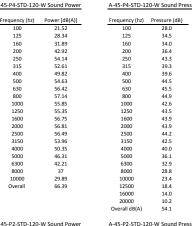


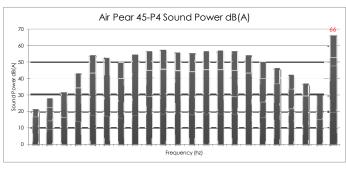
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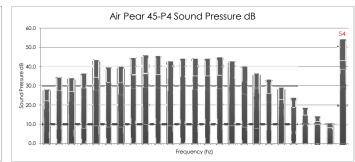
Airius Air Pear Fans Updated Acoustic Test Results 29.10.14

The fans were all tested at the Ebm-papst Farmington, CT,USA facility: 100 Hyde Rd, Farmington, CT 06032 during August 2014.
The chamber is built to AMCA standards. All noise levels are measured in conformity to DIN 45635 and ISO 3744/3745 according to precision class 2 and specified A-weighted. Sound pressure level is measured 1 meter from the exhaust side of the fan. The sound power level is measured using 10 microphones distributed over the exhaust side of the fan. NOTES • The "A" weighing is not always just related to the overall sound power test the dBA readings covered the complete frequency range, including the overall result.
• For the sound pressure test the dBA only was for the overall result and the frequency range was not "A" weighted.

A-45-P4-STD-120-W Sound Power A-45-P4-STD-120-W Sound Pressure

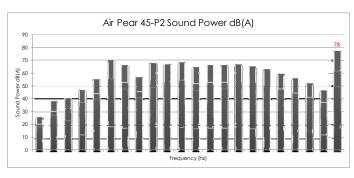


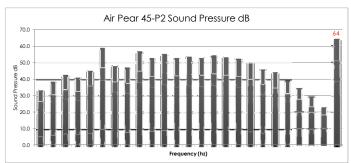




A-45-P2-STD-120-W Sound Pressure A-45-P2-STD-120-W Sound Power

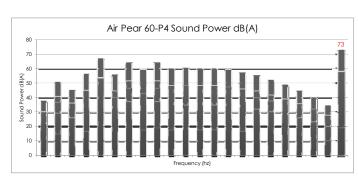
Frequency (hz)	Power [dB(A)]	Frequency (hz)	Pressure (dB)
100	26.04	100	33.5
125	38.3	125	38.5
160	40.6	160	42.5
200	47.3	200	41.1
250	55.55	250	45.4
315	69.77	315	58.8
400	66.44	400	48.1
500	57.05	500	47.1
630	68.08	630	56.5
800	67.06	800	52.7
1000	68.51	1000	55.0
1250	64.93	1250	52.7
1600	66.29	1600	53.8
2000	66.44	2000	53.2
2500	66.96	2500	54.2
3150	65.53	3150	53.4
4000	63.13	4000	52.6
5000	59.64	5000	50.0
6300	55.86	6300	46.1
8000	52.23	8000	43.9
10000	46.59	10000	39.3
Overall	77.58	12500	34.6
		16000	29.4
		20000	22.8
		Overall dB(A)	64.5

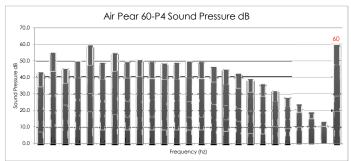




Frequency (hz)	Power [dB(A)]	Frequency (hz)	Pressure (dB)
100	37.96	100	42.7
125	51.16	125	54.8
160	45.42	160	45.5
200	56.59	200	50.0
250	67.09	250	59.2
315	56.13	315	48.8
400	64.59	400	54.6
500	59.83	500	49.5
630	64.76	630	50.5
800	60.23	800	49.1
1000	60.6	1000	48.6
1250	60.23	1250	48.9
1600	60.27	1600	49.7
2000	59.46	2000	49.1
2500	57.69	2500	46.5
3150	55.75	3150	44.9
4000	52.34	4000	41.9
5000	48.92	5000	38.7
6300	45.2	6300	35.8
8000	40.47	8000	32.0
10000	34.98	10000	28.0
Overall	72.89	12500	23.4
		16000	18.6
		20000	12.7
		Overall dR(A)	59.6

A-60-P4-STD-120-W Sound Pressure





A-100-EC-STD-100-130-W Sound Pressure

Frequency hz)	Power [dB(A)]	Frequency (hz)	Pressure (dB)
100	46.7	100	46.9
125	62.78	125	60.7
160	64.5	160	59.8
200	62.93	200	54.6
250	66.3	250	58.9
315	64.25	315	54.2
400	70.55	400	61.0
500	67.75	500	54.9
630	74.65	630	60.4
800	67.04	800	54.2
1000	67.53	1000	53.7
1250	66.99	1250	54.9
1600	65.79	1600	55.5
2000	65.74	2000	54.2
2500	65.04	2500	54.0
3150	63.65	3150	53.1
4000	61.24	4000	50.3
5000	57.92	5000	48.3
6300	54.38	6300	46.1
8000	49.85	8000	42.6
10000	45.45	10000	39.9
Overall	79.6	12500	37.8
		16000	39.9
		20000	30.7
		Overall dB(A)	65.9

