

Via San Giovanni Bosco, n. 12 15121 Alessandria - Italy

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EXCERPT USE AND MAINTENANCE MANUAL

INDUSTRIAL FANS

NOISE: GENERAL INFORMATION (Ref. EN ISO 3744, EN ISO 3746 and ISO 13347-1-2-3-4:2004)

Sound power level LwA

It is the average value of the sound power level in dB(A) (weighted value according to the scale A) radiated into the environment by the fan though the inlet and outlet ducts. The value refers to air conveyed with a density of 1,226 kg/m3, at the maximum allowable rotation speed of the impeller and during operation at the optimal curve point.

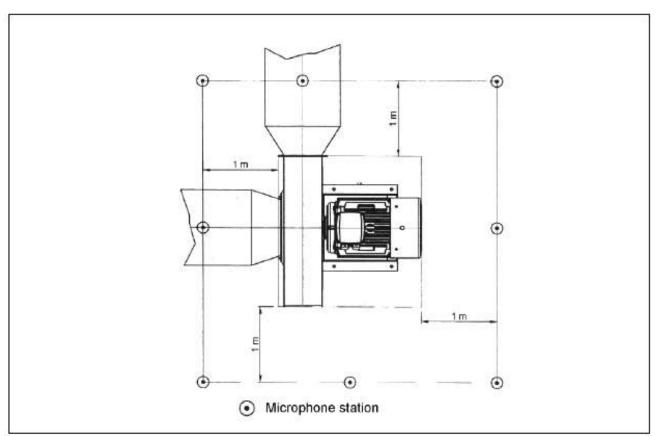
It is assumed that the fan is placed in a free fi eld or, in any case, in an area featuring such dimensions as not to cause appreciable reflections, and leaning on a fl at and rigid surface. Moreover, the value of the background noise of the installation environment is deemed neglectable.

Sound pressure level LpA

It is the average of the temporal average values of the sound pressure radiated into the environment by the fan through the inlet and outlet ducts. The pressure values are recorded on the measurement surface enveloping the fan (parallelepiped measurement surface). Experimentally, acoustic pressure measurements are obtained by 8 microphone stations located on the reference surface at a height equal to the fan rotation axis. The pressure value is expressed in dB(A) (weighted value according to the scale A). The value refers to air conveyed with a density of 1,226 kg/m3, at the maximum allowable rotation speed of the impeller and during operation at the optimal curve point.

The given values refer to a measuring distance of one meter. It is assumed that the fan is placed in a free field or, in any case, in an area featuring such dimensions as not to cause appreciable reflections, and leaning on a fl at and rigid surface.

The value of the background noise of the installation environment is deemed neglectable.



(Aircraft noise)



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Lege	end:			- 50 50
√ =	dB(A) ≤ 80	Lp=	weighted sound pressure level at output A at the places of work	
(•=	80 < dB(A) ≤ 90	Lw=	weighted sound power level A issued by the machine	ĺ
X=	dB(A) > 90			

					1	High p	ressu	re, dire	ct driv	e centi	rifugal	fans -	Series:				
Electric	Model	AF	PE	Al	PF	Al	PG	AP	RF	AP	RG	AP	RH	AF	RI	AP	RL
motor	Model	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw
	351/2	1	•	2 3			9	8		8	-3	2		2			
	401/2	~	•														
	451/2	1	•	5 8	8 8		- 3			8	8	87	2 3	6 3	8 8	8 8	
	501/2	1	•	1	Х		Х				Х			3	3		
	561/2	1			Х		Х				X	•	X				
2 poles	631/2	1	х	•	Х	•	X	•	X		X	X	X	X	Х	X	X
	711/2	1	X	•	Х	•	X	•	Х		X	X	X	Х	Х	X	X
	801/2	•	Х		X	X	X	₽ ●17	Х	X	X	X	X	Х	X	X	X
	901/2	•	Х	X	Х	Х	Х	•	Х	Х	Х	Х	Х	X	Х		
	1001/2	8		8 8				X	X	X	X	X	X	Х	Х		
	1121/2	8)	8 8	8 9	8 8	. 8	- 3	X	X	X	X	ge .	63 3	8 3	8 8		
	631/2											~	•				
	711/2	8 7	25 3	0 0	8 2	. 3	- 8					1	•	1	Х		
4 malaa	801/2	0 0	600 D	0 0	K 2	C 20		√	900	1	X	1	X	•	Х	2 20	
4 poles	901/2	8	2 1	8 8				V	•	V	X	1	Х	•	Х		
	1001/2							1	X		X	•	X	•	Х		
	1121/2	87 - 3	Q 7	8 8	8 8	\$ 50		1	X		X	33	100	6 8	8 8	\$ 50	

(Centrifugal fans - models APE, APF, APG, APRF, APRG, APRH, APRI, APRI,

	High pressure, double stage, direct drive centrifugal fans - Series:												
Model -	API	RED	API	RFD	API	RGD							
Model	Lp	Lw	Lp	Lw	Lp	Lw							
631/2	69	X	•	X									
711/2	(E)	X	1.00	X									
801/2	3600	×		X	2								
901/2	4.0	X	X	X	X	Х							
1001/2	×	X	X	X	X	X							
1121/2	X	X	X	X	- 3								

(Centrifugal fans - models APRED, APRFD, APRGD)



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			,		Hig	h press	sure, be	It drive	centrif	ugal far	ns - Ser	ies:				
Model	AP	Ec	AF	Fc	AF	•Gc	AP	RFc	AP	RGc	AP	RHc	AP	RIc	AP	RLc
Model	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw
351/2	1	х														
401/2		Х		2 3 2 3		67 S 16 S		8 8 8 6		18 8 16 6		8 9 8 2				8
451/2	•	Х														
501/2		Х	15.0.5	Х	7. .	Х			7/9.1	Х		0 8		8 8		8
561/2	•	X		Х	100	X		8 9	Х	X	Х	X		50 S	č.	50
631/2		Х	•	Х	X	Х	•	Х	Х	Х	Х	X	Х	X	х	X
711/2	(•)	Х	х	Х	Х	X	900	Х	Х	X	х	X	X	X	х	Х
801/2	Х	Х	•	Х	X	Х	•	X	Х	Х	Х	X	X	X	Х	X
901/2	Х	X	Х	X	Х	Х	Х	Х	Х	X	Х	Х	Х	X	X	X
1001/2	Х	X	X	Х	X	X	X	X	Х	X	X	X	Х	X	Х	X
1121/2					Х	Х	Х	Х	х	Х	х	Х	Х	Х	Х	Х
1251/2		9 30 3 36		9 8 9 9		50 0 20 0	Х	Х	Х	X	х	X	X	X	х	Х
1401/2							×	X	Х	Х	х	X	×	X	х	X
1601/2		2 Z		Ø 8		K 8	х	Х	х	Х	Х	Х	Х	Х	Х	Х
1801/2		8 8		8 2		6 5	Х	X	X	X	х	X	X	X	X	X

(Centrifugal fans - models APEc, APFc, APGc, APRFc, APRGc, APRHc, APRIc, APRLc)

			High	pressure o	centrifugal	fans, with	direct cou	oling by jo	int (N8) - S	eries:	
Electric	Model	AP	RF	AP	RG	AP	RH	AF	RI	AF	RL
motor	woder	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw
- 8	1001/2		2 2	5		8) 8		8 V 8		•	Х
	1121/2	~	х	1	X	1.0	X	<u> </u>	х		Х
d malas	1251/2	V	Х	•	Х	•	X	•	Х	•	X
4 poles	1401/2	•	Х	•	X	•	Х	Х	Х	Х	X
	1601/2	95●6	Х	Х	Х	Х	Х	Х	Х	Х	Х
38	1801/2	•	X	Х	X	Х	X	Х	X		
- 13	1401/2		8 99			0 0					X
6 poles	1601/2		\$ 8					8 8 8 8		•	X
	1801/2									Х	X

(Centrifugal fans - models APRF/N8, APRG/N8, APRH/N8, APRI/N8, APRL/N8)



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INDUSTRIAL FANS

						Med	lium p	ressu	re, din	ect dr	ive ce	ntrifuç	jal fan	s - Se	ries:				
Electric	Madel	E	U	El	JM	M	PR	Т	R	T	PA	Т	Q	T	F	Т	G	Т	Н
motor	Model	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw
	221/2	1	1							1	•								
	251/2	1	1		8 6		8			1	1.0		2 9	- 8	K			1	e) o
	281/2	1	•	Ž.	0 0		R	20 N		~	•		65 - 55 65 - 55	9	7.	0 0		7.	6
	311/2	1	•	1	•					1	X								
	351/2	1		1	9.0	1	•			1	x			- 3					83 245
O material	401/2	1	X	1	X	/	•	V	•	•	X					1		•	X
2 poles	451/2	?● 0	X	1	X	1	•	1	•	100	X		Q 93	- 8		<u></u>	X	•	X
	501/2		Х	•	х	1	Х	~	•	8				•	Х	•	X	•	X
	561/2	•	Х	•	X	•	Х	1	Х					•	Х		X	•	X
	631/2	8 8 8 9		•	Х		2		Х	6- 8-	60 E		9 8 8 8	•	Х	X	Х	X	X
	711/2													X	Х	X	X		
	801/2	8 8		i.	8 8		8			35 44				Х	Х	х	Х		8
	631/2	1	•	1	•		R	~		65		1	•		v	8 3		1	X
	711/2	1	•	1	2.0			1				1	X					1	X
	801/2	1	X	1	X		8	/		8	3 3	1	X	1	Х	1.0	X		X
4 malas	901/2	•	X	1	X			1	Х			•	X	•	Х	•	X	•	X
4 poles	1001/2	⊙• 3	Х	•	Х		8	•	Х	io La			20 54 N	•	Х	((•	X	•	X
	1121/2	•	X	•	X				Х							X	X	X	X
	1251/2	87 (3		•	X		6	•	Х	6	8 0		Q 99	- 8		8 8			<i>i</i>
	1401/2	8 8 8 8		e e	00 20 100 40		8	X	Х	e. S	3 X		00 00 00 80			8 8		e.	8
6 poles	1401/2			•	Х														

(Centrifugal fans - models EU, EUM, MPR, TR, TPA, TQ, TF, TG, TH)



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					Medi	um pre	ssure, l	belt driv	re centr	rifugal f	ans - S	eries:				
Model	E	Uc	EU	Mc	TI	Rc	TT	Rc	Т	Fc	T	Gc	TI	Нс	MF	PRc
Model	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw	Lp	Lw
221/2	1	•	300. 3	2 2	102	R 0		60 C	110	80 O		800 C	7.5	6 8		6
251/2	1	•														
281/2	✓	Х		8 33 8 23		8 8		19 8 19 9		10 30 10 00		19 8 10 0		60 0 60 6		(6) (6)
311/2	•	X	1	X												
351/2	((•)	Х	/	Х		8 8		S S		25 S		2 3			1	Х
401/2	•	X	•	X	•	X		6 6		85 6	•	Х	•	Х	•	X
451/2	•	Х	•	Х		Х					•	Х	•	Х	•	X
501/2	V •3	Х	300	Х	87 ● 2	Х		0 0 k 6	(*•)	Х	** **********************************	Х	900	Х	○● ○	Х
561/2	•	X	•	X	•	X	•	X	•	X	X	X	•	X	•	X
631/2	10	Х	100	Х	<u>97</u> ●3	Х	<u>></u> ••:	Х	(.e.)	Х	()•()	Х	8.00	Х		(8 (c)
711/2	•	X	•	X	•	X	х	X	•	X	•	Х	Х	Х		6
801/2		Х		Х		Х	Х	Х		Х		Х	X	Х		64
901/2	8.	X	9.	X	***	X	X	X		X	X	X	X	X		8
1001/2	•	Х	•	X	•	X	х	Х	Х	Х	X	Х	Х	Х		
1121/2	!! •	Х	Х	Х	95 ●5	Х	Х	Х		185 in 170 in	Х	Х	Х	Х		8) 16)
1251/2	10	X	X	X	X	X	X	Х								
1401/2	8.0	х	X	х	х	X	Х	Х		92 (3				0 0		87
1601/2	8.	х	X	X	Х	X	Х	Х		88 - 2 83 - 2		100 S		8 3		8
1801/2	Х	Х	X	X	х	X										
2001/2	Х	Х	Х	Х	Х	Х				0 3		0 3				80

(Centrifugal fans - models EUc, EUMc, TRc, TTRc, TFc, TGc, THc, MPRc)

	Low pressure, belt dr	ive axial fans - Series:
Model — 400 500 630 710 800 630	E	Vc
Wiouei	Lp	Lw
400	1	X
500	•	×
630	✓	Х
710	ř.	X
800	•	X
900	*	Х
1000	•	х
1120	•	Х
1250	•	×
1400	•	Х

(Axial fans models EVc)



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	Î		Low	pressure, direct d	rive axial fans - Se	ries:	
Electric	Madel	EVP-EVF-E	VL (HZ 50)	EVP-EVF-E	EVL (HZ 60)	E/	VT
motor	Model	Lp	Lw	Lp	Lw	Lp	Lw
- 8	315	/	9.60		x		9
,	355	√	•	•	х		
9	400	✓.	X	(●)	х	8	(X
2 poles	450	16	X		e e	5	5
	500		X				
8	560	(1 . 0)	х				2
,	630	x	X				
3	315	✓	√	✓	✓.		(X
5	355	✓	✓	~	•	5	6
	400	✓	1	~	F•1)		
8	450	1	X 🕷 🖰	✓	. F. B. U		2
	500	·	•	✓	•		
ara araa	560	✓	8**	✓	х	1	•
4 poles	630	✓	•	✓	X	1	•
3	710	√	1.00	17. 9. 13	х	1	
8	800	1	X	2000	х	1	Х
	900	196	х	•	×		
3	1000	((•)	х		S I		2
	1120		X				
8	630	1	<u>1,€</u> 7	4		1	(*.1)
3	710	✓	•	~	•	4	•
	800	✓		~	х	√	•
6 noles	900	✓	9.00	/	×	✓	
6 poles	1000	✓	•	•	×	✓	•
3	1120	✓.	X	(●)	x		S 83
3	1250		x		2	5	5
	1400		X				
	1120	✓	700	29-01	×		03 03
8 poles	1250	√	X	• •	х		
3	1400	✓	Х	(•)	х	8	O.

(Axial fans models EVP, EVF, EVL, EVT)



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			Low pre	ssure, direct driv	e centrifugal fans	- Series:	
Electric	Model	В	P	В	PR	В	T
motor	Model	Lp	Lw	Lp	Lw	Lp	Lw
	161	✓	✓	-			
	201	1			K ko		Î
·	221	✓	X				
	251	•	X	E.	67	8	
2 nolon	281		2	8	8	3	3
2 poles	311						
	351		9	€	X		į
	401			~	X		
	451		62	•	X	8	
	501		6	•	×	8	
	161	✓	✓			~	
	201	✓	V	3:	80 80		
	221	✓	✓				
	251	✓	✓.		X S	8	
	281	✓	✓		0	ŝ	5
	311	4	•	· · · · · · · · · · · · · · · · · · ·			
	351	✓	56 00	1	1	✓	1
4 poles	401	✓	х	✓	•	✓	•
4 poles	451		Х	1	•	✓	
	501	•	X	~	•	✓	•
	561		2	✓		/	Х
	631		ž	1	×	~	*
	711			*	×		
	801		0 0	(e) (c)	X		
	901			•	X		
	1001		iĝ.	<u>(●)</u>	X		

(Centrifugal fans - models BP, BPR, BT)

			Low pre	ssure, direct driv	e centrifugal fans	- Series:	
Electric	Model	В	P	В	PR	В	Т
motor	Model	Lp	Lw	Lp	Lw	Lp	Lw
	311	✓	✓		0	8	3
	351	1	✓				2
	401	✓	•				
	451	✓	Х				
	501	✓	•	~	✓	✓	V
	561		2	1	1	1	•
Cualan	632		65	1		V	
6 poles	711			1			
	801		o o	€	X		
	901			✓	X		
	1001		S	1	X		
	1121		6	• •	×		
	1251			• 1	х		
	1401		22 23		X		
8 poles	631					✓	✓

(Centrifugal fans - models BP, BPR, BT)



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INDUSTRIAL FANS

		Low	pressure, belt drive	centrifugal fans - 9	Series:	
Model	BP	Rc	В	Pc	BP	RDc
Model	Lp	Lw	Lp	Lw	Lp	Lw
251/2			✓	e :		8
281/2			/			
311/2	2		✓			55 66
351/2	-		1	•		
401/2		X	1		3	Q o.
451/2	•	×	1			ex Ex
501/2	•	x	•	•	•	X
561/2	•	X	V.			Х
631/2	•	×		X	•	X
711/2	•	x	•	X	•	Х
801/2	•	X		X		X
901/2	•	X	•	X	1 8	Х
1001/2	•	X	•	X		X
1121/2	•	×			•	X
1251/2	Х	X				Х
1401/2	Х	X			1.0	Х
1601/2	Х	X				
1801/2	•	X			8	2
2001/2	•	X				

(Centrifugal fans - models BPc, BPRc, BPRDc)