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The 3300N Series – *Providing Greater Efficiency and Quieter Operation*

Introducing the new 3300N product series!
Modern fans are the best means of expelling waste heat from compact devices. Properties such as reliability, robustness and a long service life are top priorities, particularly in IT technology applications, solar inverters and frequency converters, but also in medical technology.

The 92 x 92 x 32 mm 3300N fan is designed for just such areas of application. It supplies an air flow of max. 133m³/h or a pressure increase of max. 120 Pa, and runs on an operating voltage of 12, 24 or 48 VDC depending on the version. Thanks to an aerodynamically modified housing with improved strut design, the operating noise has been reduced by approximately 4 dB(A) as compared to its predecessor. Utilizing a 35.10 motor in combination with the aerodynamic design made it possible to increase efficiency from 14% to 21%.

Primary Advantages: Noise Reduction and Reduced Power Consumption
Thanks to an aerodynamically modified housing with improved strut design, the operating noise has been reduced by approximately 4 dB(A) compared to the 3300 series. Combining the aerodynamic design with a 35.10 motor has increased efficiency from 14% to 21%.

Technology
This fan series fully reflects our GreenTech® philosophy, providing even better economic and ecological performance with reduced power consumption.

- 35.10 motor instead of 43.05
- Plastic-encapsulated shaft and hub joint
- Aerodynamically enhanced winglets and blades
- Profiled struts
- Robust, aerodynamic strut design

Special options

- Speed signal
- Go / No-go alarm
- External temperature sensor
- Internal temperature sensor
- PWM control input
- Analogue control input
- Protection against moisture
- Protection against salt spray fog
- Protection rating IP 68 (encapsulated)

DC axial fans

Series 3300N 92 x 92 x 32 mm

Nominal data		Air flow	Air flow	Nominal voltage	Voltage range	Sound pressure level	Sound power level	Sintec sleeve bearings / Ball bearings	Input power	Nominal speed	Temperature range	Service life L_{10} (40 °C) ebm-papst Standard / Service life L_{10} (T_{max}) ebm-papst Standard	Life expectancy L_{10PC} (40 °C) see page 17
Type		m³/h	CFM	VDC	VDC	dB(A)	Bel(A)	□/■	Watts	rpm	°C	Hours	Hours
NEW	3312 NL	56	33	12	6...15	24	4,1	■	0,8	1 850	-20...+75	80 000 / 35 000	135 000
NEW	3312 NM	68	40	12	6...15	29	4,5	■	1,3	2 250	-20...+75	70 000 / 30 000	117 500
NEW	3312 NN	80	47	12	6...15	35	4,7	■	1,8	2 650	-20...+75	70 000 / 30 000	117 500
NEW	3312 NH	93	54	12	6...15	38	5,1	■	2,8	3 050	-20...+75	65 000 / 27 500	110 000
NEW	3312 NHH	107	63	12	6...15	42	5,4	■	3,4	3 450	-20...+75	57 500 / 25 000	97 500
NEW	3312 NH3	133	78	12	6...14	50	6,0	■	6,7	4 350	-20...+70	50 000 / 25 000	85 000
NEW	3314 NN	80	47	24	18...28	35	4,7	■	1,8	2 650	-20...+75	70 000 / 30 000	117 500
NEW	3314 NH	93	54	24	18...28	38	5,1	■	2,6	3 050	-20...+75	65 000 / 27 500	110 000
NEW	3314 NHH	107	63	24	18...28	42	5,4	■	3,5	3 450	-20...+75	57 500 / 25 000	97 500
NEW	3314 NH3	133	78	24	18...28	50	6,0	■	6,7	4 350	-20...+75	50 000 / 22 500	85 000
NEW	3318 NN	80	47	48	36...60	35	4,7	■	1,8	2 650	-20...+75	70 000 / 30 000	117 500
NEW	3318 NH	93	54	48	36...60	38	5,1	■	3,5	3 050	-20...+75	65 000 / 27 500	110 000
NEW	3318 NH3	133	78	48	36...58	50	6,0	■	6,5	4 350	-20...+75	50 000 / 22 500	85 000
	Subject to alternations												

Features and Benefits

- Noise reduction (up to 4 dB(A) quieter)*
- Lower speed with the same air performance*
- New winglet and blade design for quieter operation
- Greater efficiency
- Robust mechanical design
- Improved cable routing and additional strain relief *
- Cable outlet on opposite side also possible
- Reinforced mounting brackets for higher attachment torques

Target Markets and Applications

- IT / Telecom
- IT Servers
- IT Networks
- Medical Technology
- (Solar) Inverters
- Power Supply
- Frequency Converters
- Measuring Instruments

*As compared to the 3300 series

Approvals

- UL
- CE
- CSA
- VDE

Link to Data Sheet

http://www.ebmpapst.us/media/content/literature/datasheets/3300N.pdf

FAQs

Why the new series?

- Aeroacoustic modifications & noise reduction as compared to the 3300
- Customer requirement: Same air performance with less noise

What are the primary advantages of the new 3300N compared to the predecessor model 3300?

- Increased air performance (free air) thanks to the development of an extra model
- Lower noise level
- Lower speed with the same air performance
- Lower power consumption

Is the new 3300 N suitable for all applications of its predecessor 3300?

- Yes! It can be used for all of its predecessor's applications, and will eventually replace the 3300 series

Why should one buy the ebm-papst fan versus a competing product?

- Efficiency
- Long service life
- Lower noise level
- Moisture protected options
- Worldwide service
- Top product quality

What moisture protected options are there?

- "R": Thin-film coating of circuit board for improved dust and humidity protection
- "U": Polyurethane-encapsulated winding and electronics for IP68 protection (with certificate)

Is the existing 3300 series to be replaced?

- Yes, the 3300N series will ultimately replace the 3300 series