

Quickly find the perfect product for your application with the ebm-papst FanScout.

Too weak results in insufficient cooling – too strong leads to unnecessary energy consumption. Reliable fan selection software is essential to find the perfect solution for a specific application.

The ebm-papst FanScout has proven itself with its combination of user friendliness and real-world measured values. The program allows you to quickly select the best fan for the application at hand, to describe and modify the operating behavior and to document the technical specifications. During this process, factors such as air performance, operating time and installation space can be taken into account. The difference between the actual measurements and the data calculated using the software was tested **by TÜV SÜD and the accuracy of the calculation was assigned to the highest class.**



The ebm-papst FanScout is available exclusively to our customers.

Please contact your personal ebm-papst representative or call us at **+49 7938 81-0**.

Using more detailed life cycle cost information, it is possible to make more informed decisions. The costs for operation, purchase, installation and service can be calculated over a defined period of time. **A practical feature: The software can be easily integrated into your device configuration program using the DLL interface.**

The best part: A preselection of suitable products is performed for you by ebm-papst. This saves you the trouble of searching through the broad product portfolio and helps you configure your application in advance.

Now with the innovative FanGrid selection feature.

Whether radial or axial fans – finding the perfect selection is what really matters! For this reason, the new version now also includes a unique selection feature for FanGrids. Using the FanScout, you can determine the most economical fan combination from the ebm-papst product range. The input parameters are: Installation space, air performance, operating time, investment and service costs. You can thus find the most efficient FanGrid for every application.



FanGrid: a modular system of multiple GreenTech EC fans operating in parallel for efficient transportation of high volumes of air.

1

How to configure perfect FanGrid system for you.

The operating parameters

1.

OP	qv [m³/h]	pfs [Pa]	Operating time [h]
1	40000	600	4500
2	40000	450	1800
3	40000	340	1100
4	50000	505	500
5	28000	480	860
p.a.			8760

Redundant fans: 1

Installation space
Width: 2000 mm
Height: 2000 mm

Edit FanGrid input

Other parameters

2.

Filter

Type: _____

Min fans: _____ Max fans: 16

Show only one per size group

Clear Apply Filter

Print protocol

FanGrid protocol

+ Optional search parameters

- Fan denomination
- Quantity of installed fans

+ Input field for up to five different operating points

- Required fan static pressure
- Air flow for the overall system
- Expected operating hours per year at the corresponding operating point

+ Entry of the desired level of redundancy

This value specifies how many fans can be turned off while still fulfilling the air flow requirements (excluding the potential effect from re-circulation). The remaining fans compensate for the difference accordingly by changing their speed.

+ Entry of the available installation area

These are the maximum rectangular dimensions of the FanGrid cross section.



2

The perfect overview.

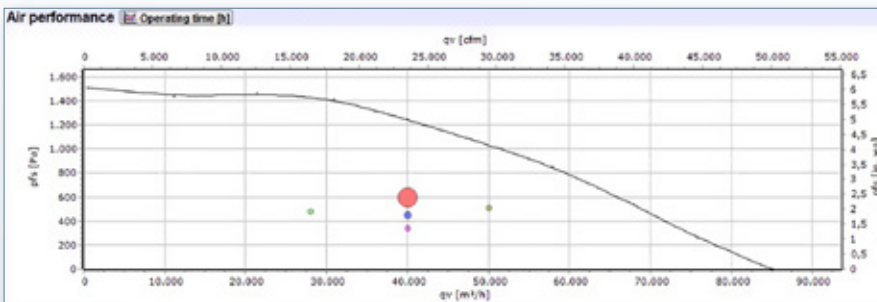
Results list 3.

FanGrid results					Nominal fan data	
Type	Number of fans	Energy consumption[kWh]	Nominal voltage[VAC]	Speed factor	Voltage	VAC
KJG560PC9401	4	76272	3~380-480	0,82	50/60	400
KJG450P18602	8	77433	3~380-480	0,91	1760	5000
KJG500PA2371	6	77630	3~380-480	0,80	7,7	-25
KJG500PE3301	5	77970	3~380-480	0,74	40	
KJG450PA2371	6	78517	3~380-480	0,89		
KJG400P19202	7	79510	3~380-480	0,90		
KJG355P17501	13	80373	3~380-480	0,92		

+ The most energy efficient FanGrid combinations

Based on the operating points, desired level of redundancy, installation space etc., the FanScout determines the most energy efficient FanGrid combination. The list is based on the weighted input power values and is sorted in ascending order of the overall annual electricity consumption. The most efficient combination is listed first and highlighted green.

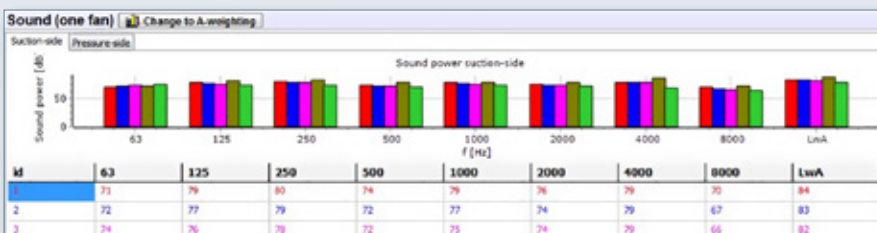
Air performance 4.



+ Overview of the weighted operating points in the air performance diagram

The fan combination selected in the results list is displayed as a characteristic curve at maximum modulation. The specified operating points are also shown; the size of the points represents the proportional operating duration.

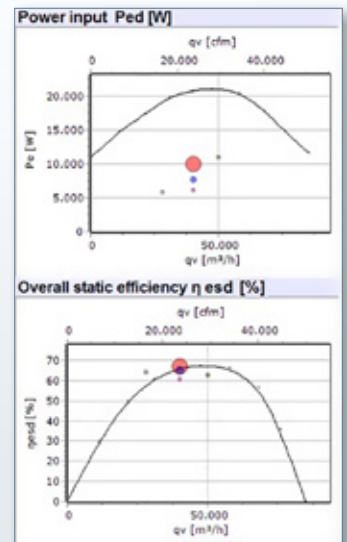
Overall sound levels 5.



+ Representation of sound data

For the selected fan combination, the overall sound level of the individual operating points is shown for a fan – optionally at the inlet or outlet side.

Power and efficiency 6.



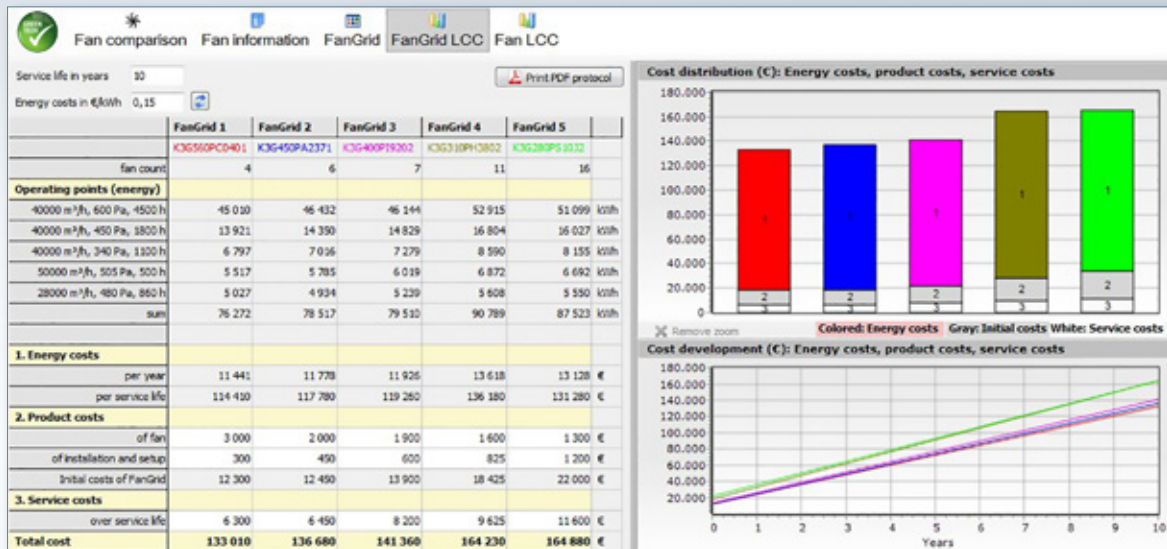
+ Representation of the power consumption of the corresponding operating points

+ Representation of the static efficiency of the corresponding operating points

3

A reliable aid for making decisions.

Cost overview 7.



The LCC combines the power consumption values of each operating point with the individual run hours and with the electricity cost to determine the operational cost.

Additions of first cost and the expenditures for installation and service allow display of the total costs of the FanGrid over time, to reliably support your investment decisions.

+ Input data

- Projected service life in years
- Electricity cost per kWh
- Costs of the purchase, installation and service of the FanGrid

+ Example calculation shown

- 1 = Operating costs over 10 years at a price of 0.15 € per kWh (for the specified operating points)
- 2 = Initial product and installation costs
- 3 = Service costs
- 4 = Life cycle costs

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