

**Rittal – The System.**

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# Blue e+ fan-and-filter unit

Greater power & efficiency  
for your enclosure cooling



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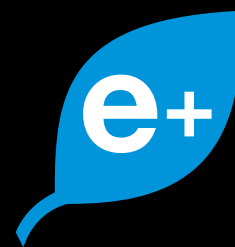
FRIEDHELM LOH GROUP

# Blue e+ fan-and-filter units – Best in class



Success is often down to details. Fan-and-filter units are small but vital components in the design and ongoing smooth running of control-gear and switchgear, because they help to keep machines and equipment operating reliably, efficiently and for a longer time.

This calls for power. Exceptional performance. Optimum design and technology. Rittal's Blue e+ fan-and-filter unit sets new standards in enclosure climate control. It was designed specifically to go the extra mile, rather like a tireless runner driven by the determination to become best in their discipline.



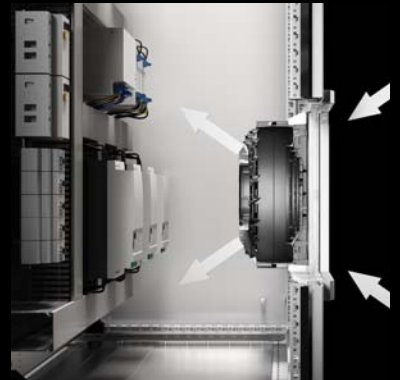
**The classes:  
AC/DC, EC and EMC.**

Discover how the Blue e+ fan-and-filter unit can significantly improve your operations, without even breaking a sweat.

# Blue e+ fan-and-filter units (AC/DC)

**40%** 

**more air throughput**  
thanks to the **integrated**  
**pleated filter**




## Outstanding air throughput

The endurance of a long-distance runner:  
The Blue e+ fan-and-filter combines durability with performance. In union with the pleated filter that is supplied as standard, it boasts 40% greater air throughput than the previous generation of chopped-fibre filters. This saves energy and money by allowing you to use smaller output classes. The unique diagonal fan technology ensures uniform ventilation inside the enclosure, for reliable protection of your components.

## Pleated filter as standard

Perfectly designed for endurance:  
Outstanding performance demands the very best equipment. The integrated pleated filter extends the service life two- to threefold, thanks to the 6 times larger surface area, coupled with an ingenious design which traps tiny dust particles. The pleated filter guarantees protection to IP 54 and achieves 50% better separation performance. Use of the absorber mat guarantees protection to IP 55. Your added bonus: 80% more air throughput.

**2–3**  **times**  
**longer service life**  
with the **pleated filter**  
**as standard**

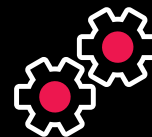


# Blue e+ fan-and-filter units (AC/DC)

## Easily fitted in the enclosure

As simple as putting on your shoes: With perfect preparation, you can get off to a head start. The fan-and-filter unit snaps easily onto the enclosure; no tools are required. What's more, the bayonet fitting ensures that the airflow direction can be easily reversed and without tools.

Particularly user-friendly: The mounting cut-outs, protection rating and output category are all identical to the previous generation of fan-and-filter units, thereby making changeover especially easy.



Tool-free

## installation

in the enclosure



Save **time**  
with **simple**  
**filter mat changes**

## Improved opening mechanism

An athlete's peak performance is always improved by the right hydration at the right time. Opening just as easily as a drinks bottle, with these fan-and-filter units, maintenance and filter mat changes become child's play. In cases which do not support tool-free opening of the louvred grille (e.g. high-current distributors to IEC 61439-1), the security clip ensures that the required safety standards are met.



# Blue e+ fan-and-filter units with EC technology

## EC fan with IoT compatibility


Just like a smooth baton handover in a relay:  
A team is more successful when information is passed on reliably and seamlessly.

The IoT-compatible Blue e+ EC fan-and-filter unit guarantees continual and uninterrupted data exchange. This helps to avoid machine downtime and minimise service costs.

### Here's why the EC fan-and-filter unit is the best choice:

- Exceptional motor efficiency means 60% energy savings during operation.
- Any malfunction or fault is immediately reported by the alarm to prevent fan failures.
- Multi-voltage capability guarantees worldwide use.



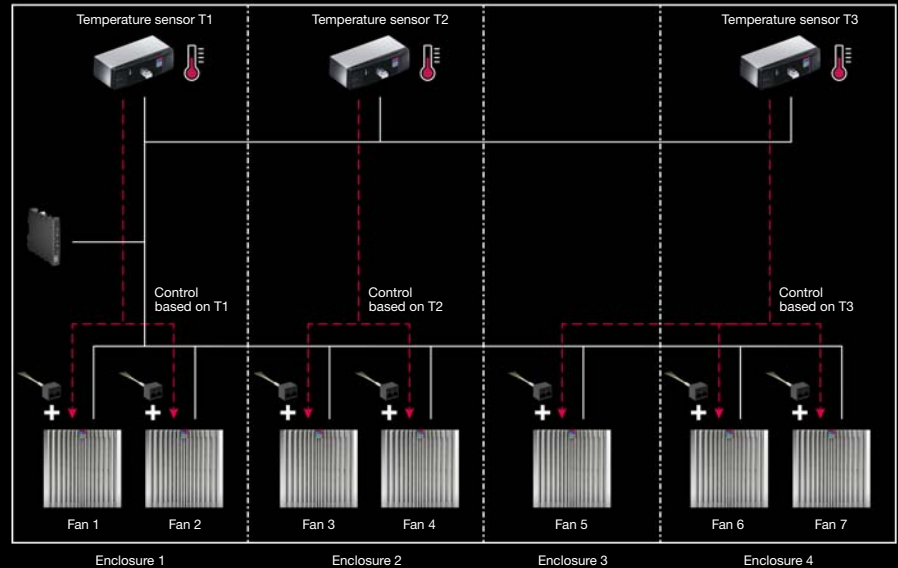
**IoT** compatibility   
boosts **energy efficiency**  
**and system security**



# Blue e+ fan-and-filter units with EC technology


Cost-saving, straightforward and manageable: Up to 8 fan-and-filter units can be operated with just one IoT interface. Individual fan-and-filter units in a bayed enclosure suite may be grouped together with different sensors for, amongst other things, individual temperature management.

## Digital activation options



## Emergency cooling function

A much-needed boost: When you push a system to its limits, it needs a helping hand to deliver maximum performance. This prompted Rittal to equip the EC fan-and-filter unit with an emergency cooling function which actively counteracts overheating inside the enclosure. As soon as the temperature exceeds the defined tolerance threshold, the fan speed automatically ramps up to maximum which releases up to 40% more air throughput to prevent components from overheating and avoids expensive system downtime.

**40%**   
**higher air throughput**  
when needed



### Automatic filter cleaning

Catching your breath: Every power phase is followed by a few moments of recovery. That's why our EC fan-and-filter units have automatic filter cleans throughout the day. The airflow direction is briefly reversed to "blow out" the filter. Fine dust particles caught in the filter are removed. This extends the filter service life by 20%, which in turn reduces your maintenance costs.

20%



**longer service life**  
of the filter with **automatic**  
**filter cleaning**



### Demand-based filter maintenance

Analysis like a smartwatch: A healthy system relies on meticulous care. The Rittal IoT interface continuously records the running time and speed of the EC motor and indicates when the next filter change is necessary. With predictive maintenance, you benefit from optimum maintenance planning that reduces your energy and servicing costs.



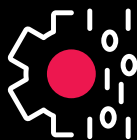
**On**-demand  
**maintenance** for added  
**reliability**  
and **lower costs**

# Blue e+ technology creates lasting and long-term sustainable added value



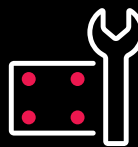
## Powerful

With its unique diagonal fan technology and pleated filter as standard, the Blue e+ fan-and-filter unit is simply unbeatable.



## Reliable

The Blue e+ EC fan-and-filter unit with its innovative IoT compatibility helps prevent or delay equipment failures.



## Straightforward & user-friendly

Tool-free assembly and maintenance with the Blue e+ fan-and-filter unit.



## Efficient

60% energy savings due to the EC motor in the Blue e+ fan-and-filter unit.



## Air throughput

From 20 to 1160 m<sup>3</sup>/h



## Colours

– RAL 7035  
– RAL 9005



## Options

– AC/DC  
– EC  
– EMC



## IP protection category

– IP 54 with pleated filter  
– IP 55 with pleated filter and absorber mat  
– IP 56 with pleated filter and hose-proof hood



# Rittal Service

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Uninterrupted and fault-free processes are the basis for the smooth-running of your production facilities. The Rittal After-Sales Service team are experts in all aspects of servicing, from installation and commissioning, to troubleshooting, repairs and maintenance, through to efficiency optimisation and upgrades.

## All from a single source

We deliver the right solutions to meet your increasing need for flexibility and short response times.

- Fast, off-the-shelf availability of original spare parts
- Direct contact with our technical customer support team

## Manufacturer expertise

Our fully-qualified and specialist service technicians are on hand to assist you with expert knowledge, experience and expertise covering a range of industrial and IT applications:

- Fast, professional troubleshooting
- Risk minimisation by avoiding downtime

## Always on-hand, always nearby

With 150 service locations and more than 1,000 service experts worldwide, you can rely on rapid international support.

- Comprehensive service network means help is never far away
- Avoid production downtime



**Rittal Service teams**  
are **24/7**  
**available**



# Overview of Blue e+ fan-and-filter units

## Blue e+ fan-and-filter units (AC/DC)

Model No.	Air throughput, unimpeded airflow	Air throughput with outlet filter	Rated operating voltage	Mounting cut-out	Colour	Matching outlet filter
3237.700	20/25 m³/h	15/18 m³/h	230 V, 1~, 50 Hz/60 Hz	92 x 92 mm	RAL 7035	3237.300
3237.708	20/25 m³/h	15/18 m³/h	230 V, 1~, 50 Hz/60 Hz	92 x 92 mm	RAL 9005	3237.308
3237.710	20/25 m³/h	15/18 m³/h	115 V, 1~, 50 Hz/60 Hz	92 x 92 mm	RAL 7035	3237.300
3237.718	20/25 m³/h	15/18 m³/h	115 V, 1~, 50 Hz/60 Hz	92 x 92 mm	RAL 9005	3237.308
3237.724	20 m³/h	15 m³/h	24 V (DC)	92 x 92 mm	RAL 7035	3237.300
3238.700	63/72 m³/h	48/56 m³/h	230 V, 1~, 50 Hz/60 Hz	124 x 124 mm	RAL 7035	3238.300
3238.708	63/72 m³/h	48/56 m³/h	230 V, 1~, 50 Hz/60 Hz	124 x 124 mm	RAL 9005	3238.308
3238.710	63/72 m³/h	48/56 m³/h	115 V, 1~, 50 Hz/60 Hz	124 x 124 mm	RAL 7035	3238.300
3238.718	63/72 m³/h	48/56 m³/h	115 V, 1~, 50 Hz/60 Hz	124 x 124 mm	RAL 9005	3238.308
3238.724	63 m³/h	48 m³/h	24 V (DC)	124 x 124 mm	RAL 7035	3238.300
3239.700	110/125 m³/h	92/103 m³/h	230 V, 1~, 50 Hz/60 Hz	177 x 177 mm	RAL 7035	3239.300
3239.708	110/125 m³/h	92/103 m³/h	230 V, 1~, 50 Hz/60 Hz	177 x 177 mm	RAL 9005	3239.308
3239.710	110/125 m³/h	92/103 m³/h	115 V, 1~, 50 Hz/60 Hz	177 x 177 mm	RAL 7035	3239.300
3239.718	110/125 m³/h	92/103 m³/h	115 V, 1~, 50 Hz/60 Hz	177 x 177 mm	RAL 9005	3239.308
3239.724	110 m³/h	92 m³/h	24 V (DC)	177 x 177 mm	RAL 7035	3239.300
3240.700	218/191 m³/h	188/160 m³/h	230 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 7035	3240.300
3240.708	218/191 m³/h	188/160 m³/h	230 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 9005	3240.308
3240.710	218/191 m³/h	188/160 m³/h	115 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 7035	3240.300
3240.718	218/191 m³/h	188/160 m³/h	115 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 9005	3240.308
3240.724	218 m³/h	188 m³/h	24 V (DC)	224 x 224 mm	RAL 7035	3240.300
3241.700	272/280 m³/h	240/244 m³/h	230 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 7035	3240.300
3241.708	272/280 m³/h	240/244 m³/h	230 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 9005	3240.308
3241.710	272/280 m³/h	240/244 m³/h	115 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 7035	3240.300
3241.718	272/280 m³/h	240/244 m³/h	115 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 9005	3240.308
3241.724	272 m³/h	240 m³/h	24 V (DC)	224 x 224 mm	RAL 7035	3240.300
3243.700	625/716 m³/h	558/637 m³/h	230 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.300
3243.708	625/716 m³/h	558/637 m³/h	230 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 9005	3243.308
3243.710	625/716 m³/h	558/637 m³/h	115 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.300
3243.718	625/716 m³/h	558/637 m³/h	115 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 9005	3243.308
3244.700	867/910 m³/h	715/742 m³/h	230 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.300
3244.708	867/910 m³/h	715/742 m³/h	230 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 9005	3243.308
3244.710	867/910 m³/h	715/742 m³/h	115 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.300
3244.718	867/910 m³/h	715/742 m³/h	115 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 9005	3243.308
3244.740	867/910 m³/h	715/742 m³/h	400 V, 3~, 50 Hz/60 Hz 460 V, 3~, 60 Hz	292 x 292 mm	RAL 7035	3243.300



More information about Blue e+ fan-and-filter units can be found here:

[www.rittal.com/  
fan-and-filter-units-ac-dc](http://www.rittal.com/fan-and-filter-units-ac-dc)

## Blue e+ fan-and-filter units with EC technology

Model No.	Air throughput, unimpeded airflow	Air throughput with outlet filter	Rated operating voltage	Mounting cut-out	Colour	Matching outlet filter
3240.900	218/218 m³/h	188/188 m³/h	100 – 240 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 7035	3240.300
3241.900	272/272 m³/h	240/240 m³/h	100 – 240 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 7035	3240.300
3243.900	625/625 m³/h	558/558 m³/h	100 – 240 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.300
3244.900	867/867 m³/h	715/715 m³/h	100 – 240 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.300
3245.900	1161/1161 m³/h	965/965 m³/h	200 – 240 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.300
3245.908	1161/1161 m³/h	965/965 m³/h	200 – 240 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 9005	3243.308
3245.910	1161/1161 m³/h	965/965 m³/h	100 – 130 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.300
3245.918	1161/1161 m³/h	965/965 m³/h	100 – 130 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 9005	3243.308



More information about Blue e+ fan-and-filter units with EC technology can be found here:

[www.rittal.com/  
fan-and-filter-units-ec](http://www.rittal.com/fan-and-filter-units-ec)

## Blue e+ fan-and-filter unit EMC

Model No.	Air throughput, unimpeded airflow	Air throughput with outlet filter	Rated operating voltage	Mounting cut-out	Colour	Matching outlet filter
3237.800	20/25 m³/h	15/18 m³/h	230 V, 1~, 50 Hz/60 Hz	92 x 92 mm	RAL 7035	3237.400
3237.810	20/25 m³/h	15/18 m³/h	115 V, 1~, 50 Hz/60 Hz	92 x 92 mm	RAL 7035	3237.400
3238.800	53/64 m³/h	40/47 m³/h	230 V, 1~, 50 Hz/60 Hz	124 x 124 mm	RAL 7035	3238.400
3238.810	53/64 m³/h	40/47 m³/h	115 V, 1~, 50 Hz/60 Hz	124 x 124 mm	RAL 7035	3238.400
3238.824	53 m³/h	40 m³/h	24 V (DC)	124 x 124 mm	RAL 7035	3238.400
3239.800	100/115 m³/h	75/85 m³/h	230 V, 1~, 50 Hz/60 Hz	177 x 177 mm	RAL 7035	3239.400
3239.810	100/115 m³/h	75/85 m³/h	115 V, 1~, 50 Hz/60 Hz	177 x 177 mm	RAL 7035	3239.400
3239.824	100 m³/h	75 m³/h	24 V (DC)	177 x 177 mm	RAL 7035	3239.400
3240.800	175/157 m³/h	130/113 m³/h	230 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 7035	3240.400
3240.810	175/157 m³/h	130/113 m³/h	115 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 7035	3240.400
3241.800	225/245 m³/h	173/187 m³/h	230 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 7035	3240.400
3241.810	225/245 m³/h	173/187 m³/h	115 V, 1~, 50 Hz/60 Hz	224 x 224 mm	RAL 7035	3240.400
3243.800	540/590 m³/h	443/497 m³/h	230 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.400
3243.810	540/590 m³/h	443/497 m³/h	115 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.400
3244.800	700/770 m³/h	535/581 m³/h	230 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.400
3244.810	700/770 m³/h	535/581 m³/h	115 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.400
3245.800	931 m³/h	728/728 m³/h	200 V - 240 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.400
3245.810	931 m³/h	728/728 m³/h	100 V - 130 V, 1~, 50 Hz/60 Hz	292 x 292 mm	RAL 7035	3243.400



More information about Blue e+ fan-and-filter units EMC can be found here:

[www.rittal.com/  
fan-and-filter-units-emc](http://www.rittal.com/fan-and-filter-units-emc)

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