Faster - better - everywhere.

World's first – The principle



Faster – better – everywhere.



Rittal climate control/Wall-mounted air conditioners Blue e+

The whole is more than the sum of its parts

The same is true of "Rittal – The System." With this in mind, we have bundled our innovative enclosure, power distribution, climate control and IT infrastructure products together into a single system platform. Complemented by our extensive range of software tools and global service, we create unique added value for trade and industry: Production plant, test equipment, facility management and data centers. In accordance with our simple principle, "Faster – better – everywhere", we are able to combine innovative products and efficient service to optimum effect.

Faster – with our "Rittal – The System." range of modular solutions, which guarantees fast planning, assembly, conversion and commissioning with its system compatibility.

Better – by being quick to translate market trends into products. In this way, our innovative strength helps you to secure competitive advantages.

Everywhere – thanks to global networking:

- 13 production facilities with almost 250,000 m² production space worldwide
- 58 subsidiaries
- Around 90 warehouse facilities with more than 180,000 pallet locations and over 260,000 m² storage space worldwide



IT INFRASTRUCTURE

SOFTWARE & SERVICES

Faster – better – everywhere.

World's first The Blue e+ cooling unit series – the ultimate in efficiency. Worldwide.

The 📴 principle

- Efficiency 75% energy saved due to speed-regulated components and heat pipe technology
- Versatility Suitable for international use due to unique multi-voltage capability
- Longevity Longer service life of the components inside the enclosure and the cooling unit due to component-friendly cooling
- User-friendliness Intuitive operation due to touch display and intelligent interfaces

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

FRIEDHELM LOH GROUP

4

Rittal climate control/Wall-mounted air conditioners Blue e+





The 📴 principle

A revolution in energy efficiency through innovative hybrid technology

Unbelievably efficient

- Let hybrid technology take your cooling units' energy efficiency to a whole new level
- Active cooling circuit with speed-regulated components for demand-based cooling
- Integral heat pipe for passive cooling. Dissipates heat from the enclosure as soon as the ambient temperature falls below the setpoint

Transparent efficiency comparisons

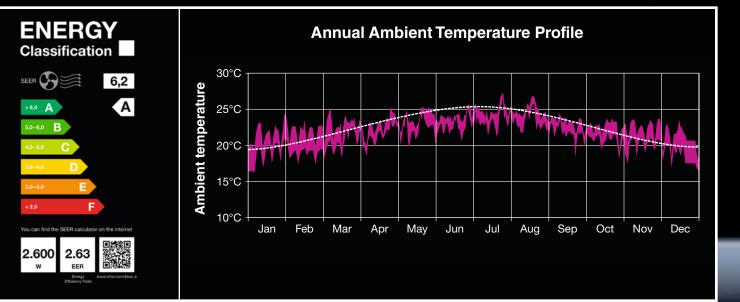
- Energy Efficiency Ratio: The standardized efficiency ratio
- Seasonal Energy Efficiency Ratio: The seasonal efficiency ratio for actual energy consumption

Amazingly economical

- Energy savings of up to 75%
- Component-friendly cooling for a longer service life
- A constant temperature inside the enclosure is ensured with three control modes
- High operational reliability

Easier to calculate

- Determine your energy savings with the efficiency calculator
- TCO calculation includes all costs arising in the product's lifecycle
- Precise amortization calculation



Rittal specifies the SEER to indicate the actual efficiency of a cooling unit, since a precise calculation must also consider the seasonal temperature variation. The standard point for determining the EER does not make allowance for actual fluctuations in hall temperatures.



The e principle

Simple operation with touch display and intelligent interfaces

Get information faster

- Fast device analysis with RiDiag software via the USB interface
- Remote monitoring via Ethernet

Blue e+ app

- Contactless information exchange and rapid, direct on-site analysis via a Near Field Communication, NFC, interface
- Simple repair, maintenance and spare parts inquiries may be sent directly via your smartphone
- Save device data directly on the unit

Easier to operate

Fast parameterization, data reading and plain-text system messages on the intelligent, multi-lingual, industrial-grade display





The e-principle

Versatility through standard assembly

Easy Assembly

- One version for external mounting, partial internal mounting and full internal mounting
- One mounting cut-out for external mounting, partial internal mounting and full internal mounting in multiple output categories
- Maintenance-friendly, tool-less filter mat replacement

Rapid Assembly

- Handle for convenient transport and positioning
- Mounting clip as securing aid
- Eyebolts for easy mounting

Maximum flexibility with unique multi-voltage capability

- One device for all voltages and networks, suitable for worldwide use thanks to inverter technology:
 - 110 240 V, 1~, 50 60 Hz
 - 380 480 V, 3~, 50 60 Hz
- International approvals and certifications:
 - cULus Listed
 - EAC
 - Tüv Nord GS
 - TÜV Nord-tested output measurement



Wall-mounted air conditioners Blue e+



Benefits:

- 75% energy saved due to speed-regulated components and heat pipe technology
- Suitable for international use due to a unique multi-voltage capability
- Longer service life of the components inside the enclosure and the cooling unit due to component-friendly cooling
- Intuitive operation due to touch display and intelligent interfaces

Material: – Sheet steel

- e+ controller (factory setting +35°C)

Temperature control:

- Color:
- RAL 7035
- Protection category IP to IEC 60 529:
- Internal circuit IP 55
 Supply includes:
- Assembly parts

Power Category 5118 BTU (1500 W)

Model No.	Packs of	3185.830
Total cooling output 50 Hz L35 L35 toDIN EN 14511 BTU (kW)		5118 (1.5)
Total cooling output 50/60 Hz L35 L35 BTU (kW)		5118 / 5118 (1.5 / 1.5)
Total cooling output 50/60 Hz L35 L50 BTU (kW)		3412 / 3412 (1 / 1)
Rated operating voltage V, ~, Hz		110 - 240, 1~, 50/60 380 - 480, 3~, 50/60
Width (B) Inches (mm)		16 (400)
Height (H) inches (mm)		37 (950)
Depth (T) inches (mm)		12 (305)
Rated output kW		0.7
Power consumption Pel 50/60 Hz L35 L35 kW		0.5 / 0.5
Power consumption Pel 50/60 Hz L35 L50 kW		0.7 / 0.7
Operating temperature range		-20°C+60°C
Setting range		+20°C+50°C
Storage temperature range		-40°C+70°C
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511		3
Refrigerant g		R134a, 640
Permissible operating pressure (p. max.) bar		24
Air throughput of fans (unimpeded air flow), Internal circuit/external circuit m³/h		700 / 900
Weight Ibs (kg)		84 (38)
Accessories		
Filter mats	3 pc(s).	3285.800
Metal filters	1 pc(s).	3285.810
Temperature sensor	1 pc(s).	3124.400

1 pc(s)

4127.010

Door-operated switch

Wall-mounted air conditioners Blue e+



Benefits:

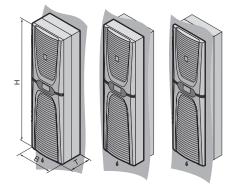
- 75% energy saved due to speed-regulated components and heat pipe technology
- Suitable for international use due to a unique multi-voltage capability
- Longer service life of the components inside the enclosure and the cooling unit due to component-friendly cooling
- Intuitive operation due to touch display and intelligent interfaces

Material: – Sheet steel Color: – RAL 7035

Temperature control:

- e+ controller (factory setting +35°C)

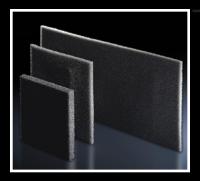
- Protection category IP to IEC 60 529:
- Internal circuit IP 55
- Supply includes:
- Assembly parts



Power Category 6830 – 19808 BTU (2000W – 6000W)

Model No.	Packs of	3186.930	3187.930	3188.940	3189.940
Total cooling output 50 Hz L35 L35 toDIN EN 14511 BTU (kW)		6830 (2)	8879 (2.6)	1434 (4.2)	19808 (5.8)
Total cooling output 50/60 Hz L35 L35 BTU (kW)		6830 / 6830 (2 / 2)	8879 / 8879 (2.6 / 2.6)	1434 / 1434 (4.2 / 4.2)	19808 / 19808 (5.8 / 5.8)
Total cooling output 50/60 Hz L35 L50 BTU (kW)		4405 / 4405 (1.29 / 1.29)	6215 / 6215 (1.82 / 1.82)	10313 / 10313 (3.02 / 3.02)	14344 / 14344 (4.2 / 4.2)
Rated operating voltage V, ~, Hz		110 - 240, 1~, 50/60 380 - 480, 3~, 50/60	110 - 240, 1~, 50/60 380 - 480, 3~, 50/60	380 - 480, 3~, 50/60	380 - 480, 3~, 50/60
Width (B) inches (mm)	1	18 (450)	18 (450)	18 (450)	18 (450)
Height (H) inches (mm)		63 (1600)	63 (1600)	63 (1600)	63 (1600)
Depth (T) inches (mm)		12 (294)	12 (294)	15 (393)	15 (393)
Rated output kW		0.73	1.05	1.3	2.2
Power consumption Pel 50/60 Hz L35 L35 kW		0.57 / 0.57	0.99 / 0.99	1.21 / 1.21	2.2 / 2.2
Power consumption Pel 50/60 Hz L35 L50 kW		0.6 / 0.6	0.94 / 0.94	1.28 / 1.28	2.2 / 2.2
Operating temperature range	1	-20°C+60°C	-20°C+60°C	-20°C+60°C	-20°C+60°C
Setting range		+20°C+50°C	+20°C+50°C	+20°C+50°C	+20°C+50°C
Storage temperature range		-40°C+70°C	-40°C+70°C	-40°C+70°C	-40°C+70°C
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511		3.5	2.63	3.46	2.64
Refrigerant g		R134a, 1150	R134a, 1150	R134a, 1750	R134a, 1750
Permissible operating pressure (p. max.) bar		24	24	24	24
Air throughput of fans (unimpeded air flow), Internal circuit/external circuit m ³ /h		1250 / 1250	1250 / 1250	2300 / 2300	2300 / 2300
Weight lbs (kg)	1	121 (55.2)	121 (55.2)	159 (72.4)	159 (72.4)
Note on Model No.		-	-	Full installation not possible	Full installation not possible
Accessories					
Filter mats	3 pc(s).	3285.900	3285.900	3285.900	3285.900
Metal filters	1 pc(s).	3285.910	3285.910	3285.910	3285.910
Temperature sensor	1 pc(s).	3124.400	3124.400	3124.400	3124.400
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010

Accessories



Filter mats

Rittal cooling units are low-maintenance and are supplied without filter mats. Filter mats may be used for extreme conditions.

Benefits:

- Temperature-resistant from -40°C...+80°C

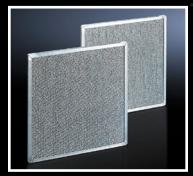
Material:

- Open-celled polyurethane foamed plastic

- Thickness: 10 mm

For Blue e+ air conditioners

To fit model No.	Packs of	Model No.
3185.830	3 pc(s).	3285.800
3186.930/ 3187.930/ 3188.940/ 3189.940	3 pc(s).	3285.900



Metal filter

Particularly when cooling units are used in dusty and oily environments, it is advisable to use washable metal filters. If air or steam condenses on the metal surfaces, any particles present will adhere to the metal, and can easily be washed out with water or grease-dissolving solvents.

Material:

Aluminum

Thickness: 10 mm

For Blue e+ air conditioners

To fit model No.	Packs of	Model No.
3185.830	1 pc(s).	3285.810
3186.930/ 3187.930/ 3188.940/ 3189.940	1 pc(s).	3285.910



Temperature sensor

NTC sensor to regulate Blue e+ cooling units according to an individual measurement point within the enclosure (control based on an external sensor).

Supply includes:

 External sensor with connection cable (length 2.5 m)

Packs of.	1 pc(s)
Model No.	3124.400.

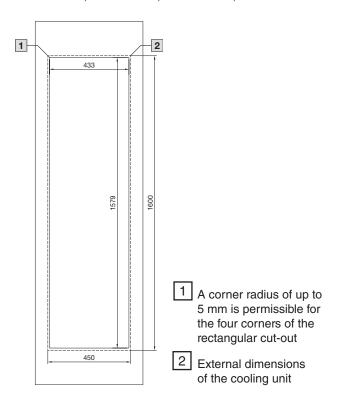
Wall-mounted Blue e+ air conditioners

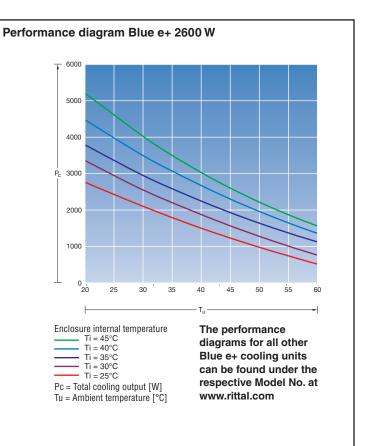
Technical details

Wall-mounted air conditioners

Blue e+ Page 13.

Mounting cut-out SK 3186.930, SK 3187.930, SK 3188.940, SK 3189.940





Overview of all Blue e+ information

Supply includes:

- Detailed climate control calculation with the Therm software
- Therm app enables rapid parameterization www.rittal.com/therm

Item information

- Product description and features
- Assembly instructions
- Approvals
- Interactive performance diagrams
- CAD drawings

and much more can be found at www.rittal.com/blue_e_plus_wallmount

The Blue e+ microsite

- Calculate potential savings and amortization periods with the efficiency calculator
- Full information on the energy label and the SEER
- Videos showing technical details:
- Heat pipe
- Multi-voltage support
- Intelligent interfaces and Blue e+ app
- Service messages may easily be sent with
- the Blue e+ app via an NFC interface

and much more can be found at

www.rittal.com/blue_e_plus

Faster - better - everywhere.

- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services



From Rittal's newest Blue e+ energy efficient air conditioners to our liquid cooling units, enclosure heaters and climate control accessories, scan this qr code and discover the world of Rittal climate control products.

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