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ENCLOSURES | POWER DISTRIBUTION | CLIMATE CONTROL

FRIEDHELM LOH GROUP

CLIMATE CONTROL

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BLUEcoMPETENCE
Alliance Member
Partner of the Engineering Industry Sustainability Initiative

UL listing under category FTTA
Additional approval under the category "environmental-rated accessories for enclosures (CCN: FTTA)" is particularly beneficial for users.

This ensures that the type rating of the application (enclosure protection category) is retained even if the enclosure has a mounting cut-out for installation of a climate control component.

This is a clear benefit which facilitates use in the 508A zone and eliminates potential discussions about reducing the type rating.

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Type of climate control	Cooling with ambient air	Cooling units	
	Ambient air cooling units are ideally suited for dissipating heat loads exceptionally cost-effectively. The pre-requisite for this is that the ambient air must be relatively clean and at a temperature below the required enclosure internal temperature.	Cooling units keep the enclosure internal temperature at a constant level, which is independent of the ambient temperature. The air routing meets individual requirements. Two separate circuits prevent the ingress of dust into the enclosure.	
Air throughput, unimpeded airflow m^3/h	20 – 1069	–	
Specific thermal output W/K	17.5 – 90	–	
Total cooling output W	–	80 – 5800	
Continuous thermal output W	–	–	
Product characteristics	Exceptionally energy-efficient, barely discernible loss of space within and outside of the enclosure, and a high protection category of IP 54 as standard.	The Rittal Blue e+ series is the world's most efficient cooling unit. With heat pipe technology as standard and speed-controlled components, average energy savings of 75% can be achieved.	
From page	453	473	

	Cooling with water	Enclosure heaters	Climate control accessories
	Efficient liquid cooling may be used in all situations where a high cooling load is required, such as process and machine cooling or when dissipating heat loss from enclosures via air/water heat exchangers. Liquid cooling allows you to achieve spatial separation between cooling production and process cooling.	Condensation poses a particular risk for control electronics, especially with outdoor siting. A range of output categories ensures that the correct thermal output is always available.	Perfectly coordinated components allow you to customise the climate control to your specific requirements, whether you need targeted air routing, precise control of the equipment or appropriate consumables.
	–	–	–
	–	–	–
	300 – 25000	–	–
	–	10 – 800	–
	Energy savings of up to 70% can be achieved with the Blue e+ generation of chillers. They ensure efficient cooling of liquid media with a high degree of control accuracy thanks to innovative DC inverter technology.	The innovative profile geometry means that heat is distributed evenly inside the enclosure and cold spots are prevented. The tool-free push-in connection technology speeds up the wiring process considerably.	With innovative accessories, the efficiency and reliability of climate control components can be additionally enhanced with monitoring, control and individual air routing.
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Cooling with ambient air

TopTherm fan-and-filter units

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Roof-mounted fans

Roof-mounted fans, roof ventilation ..... 500 – 965 m³/h 464
Roof-mounted fans with EC technology ..... 1069 m³/h 465

Rack-mounted climate control

Rack-mounted fans for 482.6 mm (19″) ..... 320 – 480 m³/h 466
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Air/air heat exchangers

TopTherm, wall-mounted with controller ..... 17.5 – 90 W/K 469
Roof-mounted 66 W/K 470

Fan-and-filter units and roof-mounted fans

Efficient climate control with ambient air

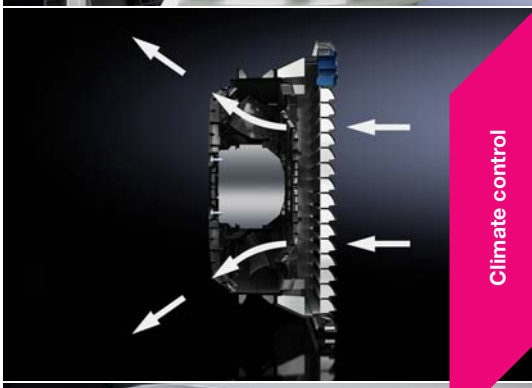
TopTherm fan-and-filter units

Tool-free assembly

- Straightforward assembly, maintenance and exchange with no need for tools of any kind
- The air flow direction is easily reversed by rotating the fan module
- The electrical connection is individually positionable using a screwless spring terminal; no tools required
- Louvred grille latch mechanism for fast filter mat replacement without tools

Efficient technology

- New diagonal fan technology for greater pressure stability and constant air throughput in its installed state, even with a contaminated filter mat
- Minimum installation depth
- Air flows in a diagonal direction from the fan, for a more even air distribution inside the enclosure
- Extended service life of filter mats means longer maintenance intervals
- Fan with smart, efficient EC technology



Roof-mounted fans

Simple to fit and maintain

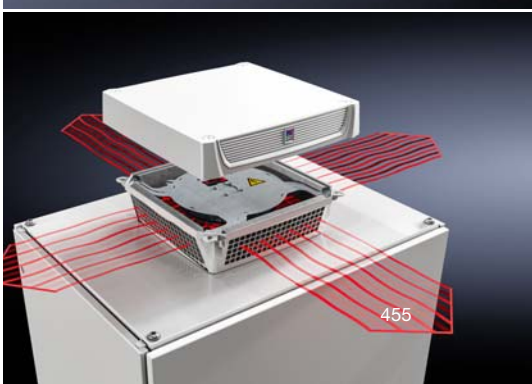
- Innovative clamping attachment supports flexible locking optionally from the outside or inside
- Connector terminal for easy electrical connection
- Good accessibility permits fast filter mat changes

High protection category

- IP 55 as standard, thanks to a sophisticated labyrinth system and high-quality foamed-in seal

High efficiency

- At an air throughput of 1,000 m^3/h, smart EC fans ensure maximum energy efficiency
- Integral interface for linear speed control and fan monitoring



TopTherm fan-and-filter units

Air throughputs incl. outlet filter and protection categories Page 463 **Accessories for climate control** Page 533 **Therm software** Page 558

Fan-and-filter units with diagonal fan technology have superior pressure stability and ensure a more constant air throughput. The diagonal direction of outflow ensures more even heat dissipation from the enclosure.

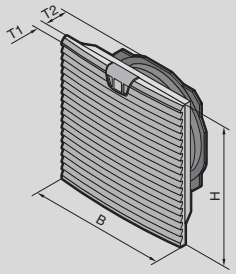
Colour:
- RAL 7035
- Optionally available in RAL 9005

Supply includes:
- Complete unit ready to install, including filter mat

Note:
- With the fan-and-filter unit 3237.XXX, electrical connection is made via two single wires on the unit. For all other fan-and-filter units, a screwless spring terminal is used.

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



Air throughput 20 – 55 m³/h

Model No.	Packs of	**3237.100**	**3237.110**	**3237.124**	**3238.100**	**3238.110**	**3238.124**	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	24 (DC)	230, 1~, 50/60	115, 1~, 50/60	24 (DC)	
Air throughput, unimpeded air flow m³/h		**20 / 25**	**20 / 25**	**20**	**55 / 66**	**55 / 66**	**55**	
Rated current A		0.065 / 0.052	0.12 / 0.1	0.125	0.12 / 0.11	0.24 / 0.22	0.24	
Power consumption W		11 / 9	11 / 9	3	19 / 18	19 / 18	5.5	
Width (B) mm		116.5	116.5	116.5	148.5	148.5	148.5	
Height (H) mm		116.5	116.5	116.5	148.5	148.5	148.5	
Depth (T1) mm		16	16	16	16	16	16	
Max. installation depth (T2) mm		43	43	43	58.5	58.5	58.5	
Required mounting cut-out (BxH) mm		92 x 92	92 x 92	92 x 92	124 x 124	124 x 124	124 x 124	
Fan		Axial, shaded pole motor	Axial, shaded pole motor	Axial, DC motor	Axial, shaded pole motor	Axial, shaded pole motor	Axial, DC motor	
Operating temperature range		-15 °C...+55 °C	-15 °C...+55 °C	-15 °C...+55 °C	-15 °C...+55 °C	-15 °C...+55 °C	-15 °C...+55 °C	
Storage temperature range		-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	
Noise level dB(A)		38 / 43	38 / 43	38	46 / 49	46 / 49	46	
Service life of fans (L10, 40 °C) h		55000 / 60000	55000 / 60000	70000	68200 / 68200	68200 / 68200	95500	
Weight kg		0.46	0.48	0.3	0.8	0.8	0.54	
Accessories								
Outlet filter	1 pc(s).	3237.200	3237.200	3237.200	3238.200	3238.200	3238.200	537
Spare filter mat		see page	see page	see page	see page	see page	see page	535
Fine filter mat	5 pc(s).	–	–	–	3238.055	3238.055	3238.055	536
Hose-proof hood	1 pc(s).	3237.080	3237.080	3237.080	3238.080	3238.080	3238.080	538
Blanking cover	2 pc(s).	3237.020	3237.020	3237.020	3238.020	3238.020	3238.020	538
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	547
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	546

Air throughput 105 – 180 m³/h

Model No.	Packs of	3239.100	3239.110	3239.124	3240.100	3240.110	3240.124	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	24 (DC)	230, 1~, 50/60	115, 1~, 50/60	24 (DC)	
Air throughput, unimpeded air flow m³/h		**105 / 120**	**105 / 120**	**105**	**180 / 160**	**180 / 160**	**180**	
Rated current A		0.12 / 0.11	0.24 / 0.22	0.23	0.21 / 0.19	0.42 / 0.38	0.43	
Power consumption W		19 / 18	19 / 18	5.5	35 / 34	35 / 34	10	
Width (B) mm		204	204	204	255	255	255	
Height (H) mm		204	204	204	255	255	255	
Depth (T1) mm		24	24	24	25	25	25	
Max. installation depth (T2) mm		90	90	90	107	107	107	
Required mounting cut-out (BxH) mm		177 x 177	177 x 177	177 x 177	224 x 224	224 x 224	224 x 224	
Fan		Axial, shaded pole motor	Axial, shaded pole motor	Axial, DC motor	Diagonal, shaded pole motor	Diagonal, shaded pole motor	Diagonal, DC motor	
Operating temperature range		-15 °C...+55 °C	-15 °C...+55 °C	-15 °C...+55 °C	-30 °C...+55 °C	-30 °C...+55 °C	-30 °C...+55 °C	
Storage temperature range		-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	
Noise level dB(A)		46 / 49	46 / 49	46	51 / 46	51 / 46	51	
Service life of fans (L10, 40 °C) h		68200 / 68200	68200 / 68200	95500	72000 / 76000	72000 / 76000	75000	
Weight kg		1.04	1.04	0.78	2.26	2.08	1.88	
Accessories								
Outlet filter	1 pc(s).	3239.200	3239.200	3239.200	3240.200	3240.200	3240.200	537
Spare filter mat		see page	see page	see page	see page	see page	see page	535
Fine filter mat	5 pc(s).	3181.100	3181.100	3181.100	3182.100	3182.100	3182.100	536
Hose-proof hood	1 pc(s).	3239.080	3239.080	3239.080	3240.080	3240.080	3240.080	538
Blanking cover	2 pc(s).	3239.020	3239.020	3239.020	3240.020	3240.020	3240.020	538
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	547
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	546

Air throughput 230 – 550 m³/h

Model No.	Packs of	3241.100	3241.110	3241.124	3243.100	3243.110	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	24 (DC)	230, 1~, 50/60	115, 1~, 50/60	
Air throughput, unimpeded air flow m³/h		**230 / 250**	**230 / 250**	**230**	**550 / 600**	**550 / 600**	
Rated current A		0.26 / 0.24	0.52 / 0.48	0.8	0.37 / 0.39	0.78 / 0.8	
Power consumption W		40 / 42	40 / 42	19	70 / 87	75 / 90	
Width (B) mm		255	255	255	323	323	
Height (H) mm		255	255	255	323	323	
Depth (T1) mm		25	25	25	25	25	
Max. installation depth (T2) mm		107	107	107	118.5	118.5	
Required mounting cut-out (BxH) mm		224 x 224	224 x 224	224 x 224	292 x 292	292 x 292	
Fan		Diagonal, shaded pole motor	Diagonal, shaded pole motor	Diagonal, DC motor	Diagonal, 1~ capacitor motor	Diagonal, 1~ capacitor motor	
Operating temperature range		-30 °C...+55 °C	-30 °C...+55 °C	-30 °C...+55 °C	-30 °C...+55 °C	-30 °C...+55 °C	
Storage temperature range		-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	
Noise level dB(A)		54 / 56	54 / 56	54	59 / 61	59 / 61	
Service life of fans (L10, 40 °C) h		61000 / 60000	61000 / 60000	75000	65000 / 61000	61000 / 59000	
Weight kg		2.24	2.26	2.04	3.58	3.58	
Accessories							
Outlet filter	1 pc(s).	3240.200	3240.200	3240.200	3243.200	3243.200	537
Spare filter mat		see page	see page	see page	see page	see page	535
Fine filter mat	5 pc(s).	3182.100	3182.100	3182.100	3183.100	3183.100	536
Hose-proof hood	1 pc(s).	3240.080	3240.080	3240.080	3243.080	3243.080	538
Blanking cover	2 pc(s).	3240.020	3240.020	3240.020	3243.020	3243.020	538
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	547
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	546

TopTherm fan-and-filter units

Air throughput 700 m^3/h

Model No.	Packs of	**3244.100**	**3244.110**	**3244.140**	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	400, 3~, 50/60 460, 3~, 60	
Air throughput, unimpeded air flow m^3/h		**700 / 770**	**700 / 770**	**700 / 770**	
Rated current A		0.43 / 0.6	0.9 / 1.25	0.17 / 0.21	
Power consumption W		95 / 135	100 / 145	93 / 140	
Width (B) mm		323	323	323	
Height (H) mm		323	323	323	
Depth (T1) mm		25	25	25	
Max. installation depth (T2) mm		130.5	130.5	130.5	
Required mounting cut-out (BxH) mm		292 x 292	292 x 292	292 x 292	
Fan		Diagonal, 1~ capacitor motor	Diagonal, 1~ capacitor motor	Diagonal, three-phase motor	
Operating temperature range		-30 °C...+55 °C	-30 °C...+55 °C	-30 °C...+55 °C	
Storage temperature range		-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	
Noise level dB(A)		65 / 66	65 / 66	67 / 70	
Service life of fans (L10, 40 °C) h		66000 / 64000	66000 / 62000	66000 / 62000	
Weight kg		4.3	4.3	4.1	
Accessories					
Outlet filter	1 pc(s).	3243.200	3243.200	3243.200	537
Spare filter mat		see page	see page	see page	535
Fine filter mat	5 pc(s).	3183.100	3183.100	3183.100	536
Hose-proof hood	1 pc(s).	3243.080	3243.080	3243.080	538
Blanking cover	2 pc(s).	3243.020	3243.020	3243.020	538
Thermostat	1 pc(s).	3110.000	3110.000	–	547
Hygrostat	1 pc(s).	3118.000	3118.000	–	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	–	546

Air throughputs incl. outlet filter and protection categories Page 463 **Accessories for climate control** Page 533 **Therm software** Page 558

EMC fan-and-filter units offer a high shielding/attenuation effect and meet requirement category 2 to EN 61587-3.

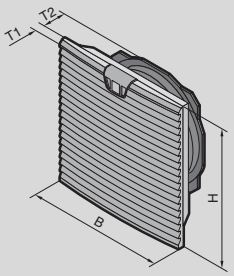
Colour:
– RAL 7035

Supply includes:
– Complete unit ready to install, including filter mat

Note:
– To improve energy efficiency and extend the service life of the devices, we recommend the use of thermostats or temperature displays

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



Air throughput 20 – 180 m³/h, EMC

Model No.	Packs of	**3237.600**	**3238.600**	**3239.600**	**3240.600**	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Air throughput, unimpeded air flow m³/h		**20 / 25**	**55 / 66**	**105 / 120**	**180 / 160**	
Rated current A		0.065 / 0.052	0.12 / 0.11	0.12 / 0.11	0.21 / 0.19	
Power consumption W		11 / 9	19 / 18	19 / 18	35 / 34	
Width (B) mm		116.5	148.5	204	255	
Height (H) mm		116.5	148.5	204	255	
Depth (T1) mm		16	16	24	25	
Max. installation depth (T2) mm		43	58.5	90	107	
Required mounting cut-out (BxH) mm		92 x 92	124 x 124	177 x 177	224 x 224	
Fan		Axial, shaded pole motor	Axial, shaded pole motor	Axial, shaded pole motor	Diagonal, shaded pole motor	
Operating temperature range		-15 °C...+55 °C	-15 °C...+55 °C	-15 °C...+55 °C	-30 °C...+55 °C	
Storage temperature range		-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	
Noise level dB(A)		38 / 43	46 / 49	46 / 49	51 / 46	
Service life of fans (L10, 40 °C) h		55000 / 60000	68200 / 68200	68200 / 68200	72000 / 76000	
Weight kg		0.49	2.0	1.2	2.12	
Accessories						
Outlet filter	1 pc(s).	3237.060	3238.060	3239.060	3240.060	537
Spare filter mat	5 pc(s).	3237.066	3238.066	3239.066	3240.066	535
Fine filter mat	5 pc(s).	–	3238.055	3181.100	3182.100	536
Hose-proof hood	1 pc(s).	3237.080	3238.080	3239.080	3240.080	538
Speed control	1 pc(s).	3120.200	3120.200	3120.200	3120.200	549
EC speed control – Control unit for EC fan		–	–	–	–	
EC speed control – Sensor for speed control		–	–	–	–	
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	547
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	546

TopTherm fan-and-filter units

Air throughput 230 – 900 m^3/h, EMC

Model No.	Packs of	**3241.600**	**3243.600**	**3244.600**	**3245.600**	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	200 - 240, 1~, 50/60	
Air throughput, unimpeded air flow m^3/h		**230 / 250**	**550 / 600**	**700 / 770**	**900**	
Rated current A		0.26 / 0.24	0.37 / 0.39	0.43 / 0.6	1.33 / 1.33	
Power consumption W		40 / 42	70 / 87	95 / 135	165 / 165	
Width (B) mm		255	323	323	323	
Height (H) mm		255	323	323	323	
Depth (T1) mm		25	25	25	25	
Max. installation depth (T2) mm		107	118.5	130.5	130.5	
Required mounting cut-out (BxH) mm		224 x 224	292 x 292	292 x 292	292 x 292	
Fan		Diagonal, shaded pole motor	Diagonal, 1~ capacitor motor	Diagonal, 1~ capacitor motor	Diagonal, EC motor	
Operating temperature range		-30 °C...+55 °C	-30 °C...+55 °C	-30 °C...+55 °C	-25 °C...+55 °C	
Storage temperature range		-30 °C...+70 °C	-30 °C...+70 °C	-30 °C...+70 °C	-25 °C...+70 °C	
Noise level dB(A)		54 / 56	59 / 61	65 / 66	72	
Service life of fans (L10, 40 °C) h		61000 / 60000	65000 / 61000	66000 / 64000	59000	
Weight kg		2.12	3.56	4.28	3.5	
Accessories						
Outlet filter	1 pc(s).	3240.060	3243.060	3243.060	3243.060	537
Spare filter mat	5 pc(s).	3240.066	3243.066	3243.066	3243.066	535
Fine filter mat	5 pc(s).	3182.100	3183.100	3183.100	3183.100	536
Hose-proof hood	1 pc(s).	3240.080	3243.080	3243.080	3245.080	538
Speed control	1 pc(s).	3120.200	3120.200	3120.200	–	549
EC speed control – Control unit for EC fan	1 pc(s).	–	–	–	3235.440	548
EC speed control – Sensor for speed control	1 pc(s).	–	–	–	3235.450	548
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	547
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	546

Air throughputs incl. outlet filter and protection categories Page 463 **Accessories for climate control** Page 533 **Therm software** Page 558

Energy-efficient version of the TopTherm fan-and-filter units with diagonal fan technology. Fans 3240.500 to 3245.510 may be controlled and monitored. The fan may be activated via the control interface with tacho signal output integrated as standard, and monitoring of the fan speed and function is supported.

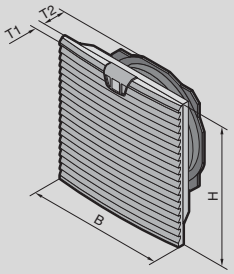
Colour:
– RAL 7035

Supply includes:
– Complete unit ready to install, including filter mat

Note:
– For even more efficient operation or for monitoring the fan-and-filter units, we recommend the use of an EC speed control for EC fan-and-filter units

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



Air throughput 55 – 230 m³/h, with EC technology

Model No.	Packs of	**3238.500**	**3239.500**	**3240.500**	**3241.500**	Page
Control interface		–	–	■	■	
Rated operating voltage V, ~, Hz		200 - 240, 1~, 50/60	200 - 240, 1~, 50/60	200 - 240, 1~, 50/60	200 - 240, 1~, 50/60	
Air throughput, unimpeded air flow m³/h		**55 / 55**	**105 / 105**	**180 / 180**	**230 / 230**	
Rated current A		0.045 / 0.045	0.045 / 0.045	0.12 / 0.12	0.17 / 0.17	
Power consumption W		6.1 / 6.1	6.1 / 6.1	11 / 11	16 / 16	
Width (B) mm		148.5	204	255	255	
Height (H) mm		148.5	204	255	255	
Depth (T1) mm		16	24	25	25	
Max. installation depth (T2) mm		58.5	90	107	107	
Required mounting cut-out (BxH) mm		124 x 124	177 x 177	224 x 224	224 x 224	
Fan		Diagonal, EC motor	Diagonal, EC motor	Diagonal, EC motor	Diagonal, EC motor	
Operating temperature range		-20 °C...+55 °C	-20 °C...+55 °C	-25 °C...+55 °C	-25 °C...+55 °C	
Storage temperature range		-30 °C...+70 °C	-30 °C...+70 °C	-25 °C...+70 °C	-25 °C...+70 °C	
Noise level dB(A)		49 / 49	53 / 53	47 / 47	52 / 52	
Service life of fans (L10, 40 °C) h		62500	62500	71000	64000	
Weight kg		0.62	0.91	2.01	1.98	
Accessories						
Outlet filter	1 pc(s).	3238.200	3239.200	3240.200	3240.200	537
Spare filter mat		see page	see page	see page	see page	535
Fine filter mat	5 pc(s).	3238.055	3181.100	3182.100	3182.100	536
Hose-proof hood	1 pc(s).	3238.080	3239.080	3240.080	3240.080	538
Blanking cover	2 pc(s).	3238.020	3239.020	3240.020	3240.020	538
EC speed control – Control unit for EC fan	1 pc(s).	–	–	3235.440	3235.440	548
EC speed control – Sensor for speed control	1 pc(s).	–	–	3235.450	3235.450	548
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	547
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	546

TopTherm fan-and-filter units

Air throughput 550 – 900 m^3/h, with EC technology

Model No.	Packs of	**3243.500**	**3244.500**	**3245.500**	**3245.510**	Page
Control interface		■	■	■	■	
Rated operating voltage V, ~, Hz		200 - 240, 1~, 50/60	200 - 240, 1~, 50/60	200 - 240, 1~, 50/60	100 - 130, 1~, 50/60	
Air throughput, unimpeded air flow m^3/h		**550 / 550**	**700 / 700**	**900 / 900**	**900 / 900**	
Rated current A		0.5 / 0.5	0.7 / 0.7	1.33 / 1.33	2.1 / 2.1	
Power consumption W		51 / 51	80 / 80	165 / 165	165 / 165	
Width (B) mm		323	323	323	323	
Height (H) mm		323	323	323	323	
Depth (T1) mm		25	25	25	25	
Max. installation depth (T2) mm		118.5	130.5	130.5	130.5	
Required mounting cut-out (BxH) mm		292 x 292	292 x 292	292 x 292	292 x 292	
Fan		Diagonal, EC motor	Diagonal, EC motor	Diagonal, EC motor	Diagonal, EC motor	
Operating temperature range		-25 °C...+55 °C	-25 °C...+55 °C	-25 °C...+55 °C	-25 °C...+55 °C	
Storage temperature range		-25 °C...+70 °C	-25 °C...+70 °C	-25 °C...+70 °C	-25 °C...+70 °C	
Noise level dB(A)		63 / 63	64 / 64	72 / 72	72 / 72	
Service life of fans (L10, 40 °C) h		65000	67000	59000	59000	
Weight kg		2.92	2.7	3.46	3.76	
Accessories						
Outlet filter	1 pc(s).	3243.200	3243.200	3243.200	3243.200	537
Spare filter mat		see page	see page	see page	see page	535
Fine filter mat	5 pc(s).	3183.100	3183.100	3183.100	3183.100	536
Hose-proof hood	1 pc(s).	3243.080	3243.080	3245.080	3245.080	538
Blanking cover	2 pc(s).	3243.020	3243.020	3243.020	3243.020	538
EC speed control – Control unit for EC fan	1 pc(s).	3235.440	3235.440	3235.440	3235.440	548
EC speed control – Sensor for speed control	1 pc(s).	3235.450	3235.450	3235.450	3235.450	548
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	547
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	546

Air throughput and protection category

TopTherm fan-and-filter units

Model No.	Air throughput m³/h at 50/60 Hz				Protection category IP to IEC 60 529/NEMA protection category		
	Unimpeded air flow	With outlet filter including filter mat			Standard filter	Standard filter and additional micro-filter mat	Standard filter and hose-proof hood
3237.100	**20/25**	1 x 3237.200 **15/18**	–	–	**IP 54/ Type 12**	**–**	**IP 56/ Type 3, 3R**
3237.110							
3237.124	**20**						
3238.100	**55/66**	1 x 3238.200 **43/50**	2 x 3238.200 **46/56**	–		**IP 54/ Type 12**	**IP 56/ Type 3, 3R Type 4, 4X**
3238.110							
3238.124	**55**	1 x 3238.200 **43**	2 x 3238.200 **46**				
3239.100	**105/120**	1 x 3239.200 **87/100**	2 x 3239.200 **93/108**	1 x 3240.200 **98/111**		**IP 55/ Type 12**	
3239.110							
3239.124	**105**	1 x 3239.200 **87**	2 x 3239.200 **93**	1 x 3240.200 **98**			
3240.100	**180/160**	1 x 3240.200 **138/121**	2 x 3240.200 **165/140**	1 x 3243.200 **165/140**			
3240.110							
3240.124	**180**	1 x 3240.200 **138**	2 x 3240.200 **165**	1 x 3243.200 **165**			
3241.100	**230/250**	1 x 3240.200 **183/205**	2 x 3240.200 **203/220**	1 x 3243.200 **203/230**			
3241.110							
3241.124	**230**	1 x 3240.200 **183**	2 x 3240.200 **203**	1 x 3243.200 **203**			
3243.100	**550/600**	1 x 3243.200 **465/510**	2 x 3243.200 **508/548**	–			
3243.110							
3244.100	**700/770**	1 x 3243.200 **544/587**	2 x 3243.200 **630/690**	–			
3244.110							
3244.140							

TopTherm fan-and-filter units, EMC

Model No.	Air throughput m³/h at 50/60 Hz				Protection category IP to IEC 60 529/NEMA protection category		
	Unimpeded air flow	With EMC outlet filter including EMC filter mat			Standard filter	Standard filter and additional micro-filter mat	Standard filter and hose-proof hood
3237.600	**20/25**	1 x 3237.060 **15/18**	–	–	**IP 54/ Type 12**	**–**	**IP 56/ Type 3, 3R**
3238.600	**55/66**	1 x 3238.060 **43/50**	2 x 3238.060 **46/56**	–		**IP 54/ Type 12**	**IP 56/ Type 3, 3R Type 4, 4X**
3239.600	**105/120**	1 x 3239.060 **87/100**	2 x 3239.060 **93/108**	1 x 3240.060 **98/111**		**IP 55/ Type 12**	
3240.600	**180/160**	1 x 3240.060 **138/121**	2 x 3240.060 **165/140**	1 x 3243.060 **165/140**			
3241.600	**230/250**	1 x 3240.060 **183/205**	2 x 3240.060 **203/220**	1 x 3243.060 **203/230**			
3243.600	**550/600**	1 x 3243.060 **465/510**	2 x 3243.060 **508/548**	–			
3244.600	**700/770**	1 x 3243.060 **544/587**	2 x 3243.060 **630/690**	–			
3245.600	**900**	1 x 3243.060 **680**	2 x 3243.060 **820**	–	**IP 51**	**IP 52**	**IP 56/ Type 1, 12 Type 3, 3R**

TopTherm fan-and-filter units with EC technology

Model No.	Air throughput m³/h at 50/60 Hz				Protection category IP to IEC 60 529/NEMA protection category		
	Unimpeded air flow	With outlet filter including filter mat			Standard filter	Standard filter and additional micro-filter mat	Standard filter and hose-proof hood
3238.500	**55**	1 x 3238.200 **43**	2 x 3238.200 **46**	–	**IP 54/ Type 12**	**IP 54/ Type 12**	**IP 56/ Type 3, 3R Type 4, 4X**
3239.500	**105**	1 x 3239.200 **87**	2 x 3239.200 **93**	1 x 3240.200 **98**		**IP 55/ Type 12**	
3240.500	**180**	1 x 3240.200 **138**	2 x 3240.200 **165**	1 x 3243.200 **165**			
3241.500	**230**	1 x 3240.200 **183**	2 x 3240.200 **203**	1 x 3243.200 **203**			
3243.500	**550**	1 x 3243.200 **465**	2 x 3243.200 **508**	–			
3244.500	**700**	1 x 3243.200 **544**	2 x 3243.200 **630**	–			
3245.500	**900**	1 x 3243.200 **680**	2 x 3243.200 **820**	–	**IP 51**	**IP 52**	**IP 56/ Type 1, 12 Type 3, 3R**
3245.510	**900**	1 x 3243.200 **680**	2 x 3243.200 **820**	–			

Roof-mounted fan, roof vent

Accessories for climate control Page 533 **Therm software** Page 558

Roof-mounted fan with a high protection category and flexible installation from the inside or outside.

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 21 without filter mat
– IP 55 including filter mat

Protection category NEMA:
– NEMA 12

Supply includes:
– Complete unit ready to install, including filter mat

Note:
– To improve energy efficiency and extend the service life of the devices, we recommend the use of thermostats or temperature displays

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Air throughput, unimpeded air flow 500 – 965 m³/h

Model No.	Packs of	**3138.000**	**3139.100**	**3139.110**	**3140.100**	**3140.110**	**3140.140**	Page
Rated operating voltage V, ~, Hz		–	220 - 240, 1~, 50/60	115, 1~, 60	220 - 240, 1~, 50/60	115, 1~, 60	380 - 415, 3~, 50/60 400 - 480, 3~, 60	
Air throughput, unimpeded air flow (without filter mats) m³/h		–	**500 / 525**	**525**	**873 / 965**	**965**	**863 / 942**	
Air throughput, unimpeded air flow (with filter mats) m³/h		–	**417 / 446**	**446**	**725 / 759**	**759**	**700 / 749**	
Rated current A		–	0.23 / 0.27	0.56	0.43 / 0.56	1.2	0.17 / 0.2	
Power consumption W		–	51 / 62	65	99 / 130	138	98 / 130	
Width mm		400	400	400	400	400	400	
Height mm		133	133	133	133	133	133	
Depth mm		400	400	400	400	400	400	
Max. installation depth mm		27.5	34.6	34.6	34.6	34.6	34.6	
Required mounting cut-out mm		258 x 258	258 x 258	258 x 258	258 x 258	258 x 258	258 x 258	
Fan		without fan motor	Radial, capacitor motor	Radial, capacitor motor	Radial, capacitor motor	Radial, capacitor motor	Radial, rotary current motor	
Operating temperature range		-20 °C...+55 °C	-20 °C...+55 °C	-20 °C...+55 °C	-20 °C...+55 °C	-20 °C...+55 °C	-20 °C...+55 °C	
Storage temperature range		-40 °C...+70 °C	-40 °C...+70 °C	-40 °C...+70 °C	-40 °C...+70 °C	-40 °C...+70 °C	-40 °C...+70 °C	
Service life of fans (L10, 40 °C) h		–	69000 / 67600	69400 / 68000	62800 / 65800	67800 / 66400	63500 / 61500	
Weight kg		3.2	5.2	5.2	6.0	6.0	6.0	
Accessories								
Outlet filter	1 pc(s).	3243.200	3243.200	3243.200	3243.200	3243.200	3243.200	537
Spare filter mat	12 pc(s).	3174.100	3174.100	3174.100	3174.100	3174.100	3174.100	535
Speed control	1 pc(s).	–	3120.200	3120.200	3120.200	3120.200	–	549
Thermostat	1 pc(s).	–	3110.000	3110.000	3110.000	3110.000	3110.000	547
Hygrostat	1 pc(s).	–	3118.000	3118.000	3118.000	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	–	3114.200	3114.200	3114.200	3114.200	3114.200	546

Accessories for climate control Page 533 **Therm software** Page 558

Energy-efficient and powerful design of the roof-mounted fans. The fan may be activated via the control interface with tacho signal output integrated as standard, and monitoring of the fan speed and function is supported.

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 21 without filter mat
– IP 55 including filter mat

Protection category NEMA:
– NEMA 12

Supply includes:
– Complete unit ready to install, including filter mat

Note:
– For even more efficient operation or for monitoring the fans, we recommend the use of the EC speed controls

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Air throughput, unimpeded air flow 1069 m³/h, with EC technology

Model No.	Packs of	**3140.500**	**3140.510**	Page
Control interface		■	■	
Rated operating voltage V, ~, Hz		220 - 240, 1~, 50/60	115, 1~, 60	
Air throughput, unimpeded air flow (without filter mats) m³/h		**1069 / 1069**	**1069**	
Air throughput, unimpeded air flow (with filter mats) m³/h		**841 / 841**	**841**	
Rated current A		1 / 1	1.51	
Power consumption W		129 / 129	112	
Width mm		400	400	
Height mm		133	133	
Depth mm		400	400	
Max. installation depth mm		34.6	34.6	
Required mounting cut-out mm		258 x 258	258 x 258	
Fan		Radial, EC motor	Radial, EC motor	
Operating temperature range		-20 °C...+55 °C	-20 °C...+55 °C	
Storage temperature range		-40 °C...+70 °C	-40 °C...+70 °C	
Service life of fans (L10, 40 °C) h		84000 / 84000	82000 / 82000	
Weight kg		5.6	5.6	
Accessories				
Outlet filter	1 pc(s).	3243.200	3243.200	537
Spare filter mat	12 pc(s).	3174.100	3174.100	535
EC speed control – Control unit for EC fan	1 pc(s).	3235.440	3235.440	548
EC speed control – Sensor for speed control	1 pc(s).	3235.450	3235.450	548
Thermostat	1 pc(s).	3110.000	3110.000	547
Hygrostat	1 pc(s).	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	546

Rack-mounted fans for 482.6 mm (19")

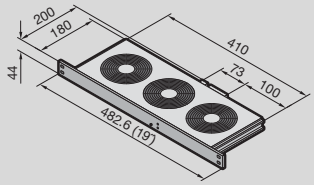
Accessories for climate control Page 533

Rack-mounted fan for direct installation in the 482.6 mm (19") level. Installation allows air to circulate permanently inside the enclosure, thus preventing the formation of hot spots.

Colour:
– RAL 7035

Supply includes:
– Fully wired unit ready for connection
– Terminal strip and assembly parts

Approvals:
Available on the Internet



Air throughput, unimpeded air flow 320 – 480 m³/h

Model No.	Packs of	**3340.230**	**3341.115**	**3341.230**	**3342.024**	**3342.230**	**3342.500**	Page
With monitoring		–	–	–	–	–	■	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	24 (DC)	230, 1~, 50/60	115 - 230, 1~, 50/60 24 (DC)	
Air throughput, unimpeded air flow m³/h		**320**	**480**	**480**	**480**	**480**	**480**	
No. of fans		2	3	3	3	3	3	
Distance between axes mm		85	85	85	105	105	105	
Rated current A		0.24 / 0.22	0.69 / 0.69	0.36 / 0.33	0.74	0.36 / 0.33	0.85	
Width mm		482.6	482.6	482.6	482.6	482.6	482.6	
Height mm		44	44	44	44	44	44	
Depth mm		200	200	200	200	200	200	
Operating temperature range		-10 °C...+55 °C	-10 °C...+55 °C	-10 °C...+55 °C	-10 °C...+55 °C	-10 °C...+55 °C	-10 °C...+55 °C	
Noise level dB(A)		51	52	51	51	51	51	
Weight kg		2.24	2.0	2.74	1.86	2.78	2.0	
Accessories								
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	546
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	547
Speed control	1 pc(s).	3120.200	3120.200	3120.200	–	3120.200	–	549

Vario rack-mounted fans for 482.6 mm (19")

Accessories for climate control Page 533

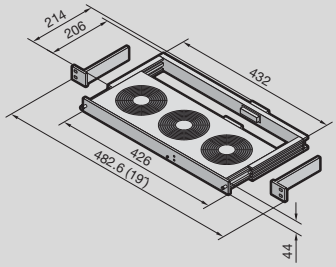
Rack-mounted fan for direct installation in the 482.6 mm (19") level. Installation allows air to circulate permanently inside the enclosure, thus preventing the formation of hot spots.

Benefits:
– Guide frame ensures easy maintenance and replacement of the fans

Colour:
– RAL 7035

Supply includes:
– Fully wired unit ready for connection
– Terminal strip and assembly parts

Approvals:
Available on the Internet



Air throughput, unimpeded air flow 320 – 480 m³/h

Model No.	Packs of	**3350.230**	**3351.230**	**3352.230**	**3352.500**	Page
With monitoring		–	–	–	■	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	115 - 230, 1~, 50/60 24 (DC)	
Air throughput, unimpeded air flow m³/h		**320**	**480**	**480**	**480**	
No. of fans		2	3	3	3	
Distance between axes mm		85	85	105	105	
Rated current A		0.24 / 0.22	0.36 / 0.33	0.36 / 0.33	0.85 / 0.85	
Width mm		482.6	482.6	482.6	482.6	
Height mm		44	44	44	44	
Depth mm		200	200	200	200	
Operating temperature range		-10 °C...+55 °C	-10 °C...+55 °C	-10 °C...+55 °C	-10 °C...+55 °C	
Noise level dB(A)		51	51	51	51	
Weight kg		2.0	2.7	2.78	2.04	
Also required						
Guide frame	1 pc(s).	3355.100	3355.100	3355.100	3357.100	557
Accessories						
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	546
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	547
Speed control	1 pc(s).	3120.200	3120.200	3120.200	–	549

Tangential fan for 482.6 mm (19")

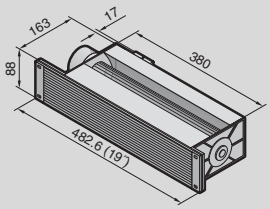
Accessories for climate control Page 533

Centrifugal fans for direct installation in the 482.6 mm (19") level provide a wide column of air plus favourable noise characteristics to set them apart from other fans.

Colour:
– RAL 9005

Supply includes:
– Fully wired unit ready for connection
– Filter mat

Approvals:
Available on the Internet



Air throughput, unimpeded air flow 320 m³/h

Model No.	Packs of	**3144.000**	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	
Air throughput, unimpeded air flow m³/h		**320**	
Rated current A		0.16	
Power consumption W		37	
Width mm		482.6	
Height mm		88	
Depth mm		163	
Operating temperature range		-10 °C...+55 °C	
Noise level dB(A)		52	
Speed rpm		2245	
Maximum static pressure difference Pa		65 - 70	
Weight kg		2.02	
Accessories			
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	546
Thermostat	1 pc(s).	3110.000	547
Filter mat	5 pc(s).	3177.000	533
Front outlet grille 2 U	1 pc(s).	3176.000	539
Speed control	1 pc(s).	3120.200	549

TopTherm air/air heat exchangers

Accessories for climate control Page 533 **Therm software** Page 558

Air/air heat exchangers are particularly well-suited to aggressive ambient conditions, because the internal and external air circuits are completely separate from one another.

Temperature control:
– Electronic control with digital display (factory setting +35 °C)

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– Internal circuit IP 54
– External circuit IP 34

Supply includes:
– Complete unit ready for connection
– Plug-in terminal strip
– Floating fault signal contact in case of overtemperature
– Drilling template
– Assembly parts

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Specific thermal output 17.5 – 90 W/K, wall-mounted with controller

Model No.	Packs of	**3126.100**	**3127.100**	**3128.100**	**3129.100**	**3130.100**	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Specific thermal output W/K		**17.5**	**30**	**45**	**60**	**90**	
Rated current A		0.22 / 0.26	0.56 / 0.68	0.6 / 0.8	0.75 / 0.8	1.35 / 1.8	
Rated power input W		50 / 60	120 / 150	140 / 180	170 / 180	300 / 400	
Width mm		280	400	400	400	400	
Height mm		550	950	950	950	1580	
Depth mm		150	205	205	225	215	
Operating temperature range		-5 °C...+55 °C	-5 °C...+55 °C	-5 °C...+55 °C	-5 °C...+55 °C	-5 °C...+55 °C	
Weight kg		10.0	18.0	19.0	21.0	34.0	
Accessories							
Filter mat	3 pc(s).	3286.300	3286.400	3286.400	3286.400	3286.400	533
Metal filter	1 pc(s).	3286.310	3286.410	3286.410	3286.410	3286.410	534

Air/air heat exchanger

Accessories for climate control Page 533 **Therm software** Page 558

Air/air heat exchangers are particularly well-suited to aggressive ambient conditions, because the internal and external air circuits are completely separate from one another.

Colour:
- Cover: RAL 7035
- Enclosure: RAL 7016

Protection category IP to IEC 60 529:
- Internal circuit IP 54
- External circuit IP 34

Supply includes:
- Complete unit ready for connection
- The fans are connected via two 3-wire connection cables, with wire end ferrules
- Drilling template
- Assembly parts

Note:
- For precise temperature control inside the enclosure, we recommend the enclosure internal thermostat, the digital enclosure internal temperature display and thermostat or the speed control.

Specific thermal output 66 W/K, roof-mounted

Model No.	Packs of	**3248.000**	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	
Specific thermal output W/K		**66**	
No. of fans		2	
Max. rated current per fan A		0.32 / 0.4	
Rated power input W		70 / 90	
Width mm		595	
Height mm		362	
Depth mm		440	
Operating temperature range		-5 °C...+55 °C	
Type of electrical connection		Connection cable	
Weight kg		25.0	
Accessories			
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	546
Thermostat	1 pc(s).	3110.000	547
Hygrostat	1 pc(s).	3118.000	547
Speed control	1 pc(s).	3120.200	549

Roof-mounted fans

Simple installation and a high protection category,
from page 464

Rittal – The System.

Faster – better – everywhere.

Cooling units

Thermoelectric coolers

Thermoelectric coolers ..... 80 W 474

Wall-mounted cooling units

TopTherm, horizontal format ..... 300 W 475
TopTherm ..... 300 W 476
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TopTherm Blue e ..... 750 W 478
TopTherm Blue e ..... 1000 W 479
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TopTherm Blue e ..... 2000 W 481
TopTherm Blue e ..... 2500 W 482
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Blue e+ ..... 2000 – 5800 W 489

TopTherm Blue e, NEMA 4X ..... 500 – 1500 W 490
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Roof-mounted cooling units

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Integration solution

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Modular climate control concept

Cooling module Blue e ..... 1500 – 2500 W 506
Section doors for installing cooling modules 507

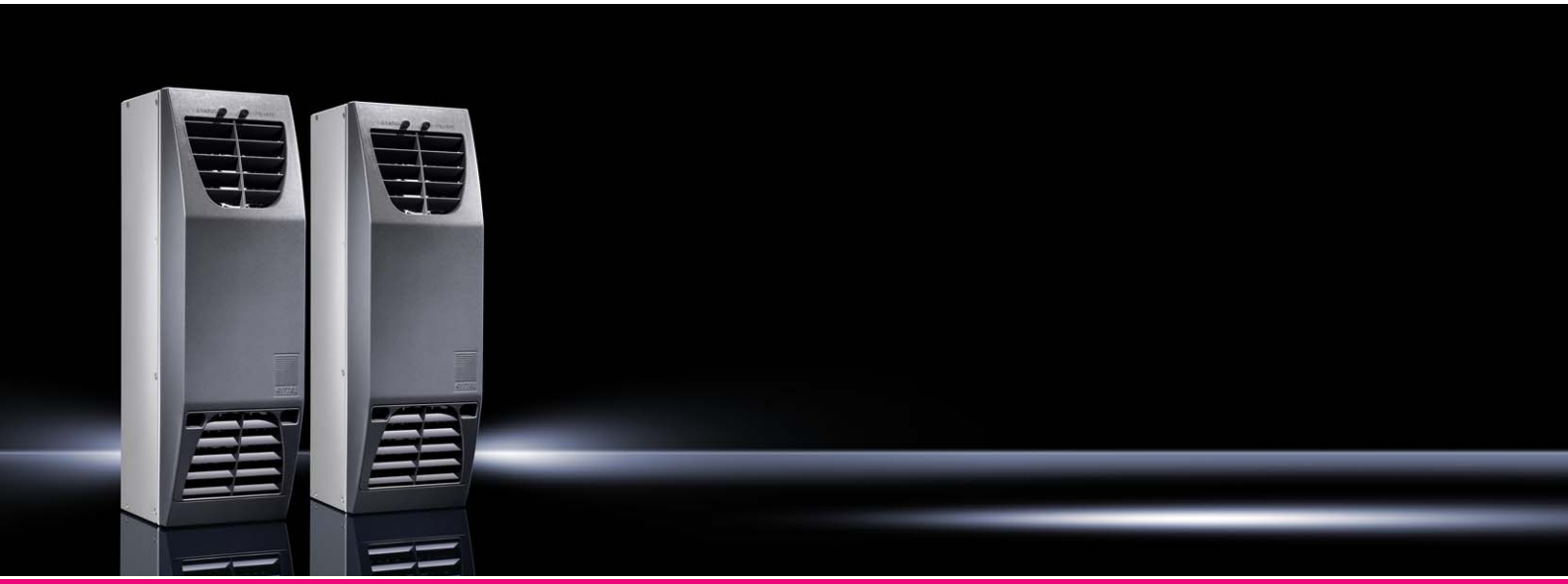
BLUEcoMPETENCE
Alliance Member
Partner of the Engineering Industry Sustainability Initiative

VX25 e+

The perfect symbiosis of the VX25 baying enclosure system and Blue e+ cooling unit

- **Integrated all-in-one system**
  The Blue e+ cooling unit is already integrated in the VX25 enclosure
- **Plug & play**
  Cooling unit, door limit switches and cabling are installed ready to connect
- **State-of-the-art design**
  No cooling unit built onto the enclosure

Thermoelectric coolers



Accessories for climate control Page 533 **Therm software** Page 558

Powerful thermoelectric cooling units in a lightweight design for the climate control of command panels and small enclosures.

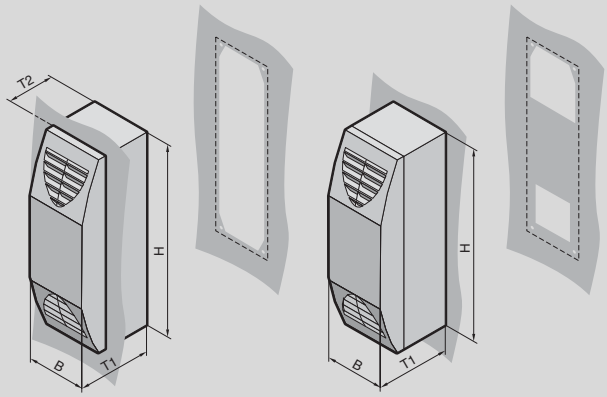
Material:
– Device: Aluminium, anodised

Colour:
– Cover: RAL 7015

Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 54

Supply includes:
– Thermoelectric climate control unit
– Fully wired ready for connection (plug-in terminal strip)
– Mounting accessories
– Filter mat
– USB cable A/B
– Drilling template

Performance diagrams:
Available on the Internet



Total cooling output 80/100 W

Model No.	Packs of	**3201.200**	**3201.300**	Page
Rated operating voltage V, ~, Hz		100 - 240, 1~, 50/60	24 (DC)	
Total cooling output L35 L35 W		**80 / 80**	**80**	
Total cooling output L35 L30 W		**100 / 100**	**100**	
Thermal output W		**80**	**80**	
Width (B) mm		125	125	
Height (H) mm		400	400	
Depth (T1) mm		155	155	
Installation depth (T2) mm		100	100	
Operating temperature range		-30 °C...+55 °C	-30 °C...+60 °C	
Setting range, cooling		+5 °C...+55 °C	+5 °C...+55 °C	
Setting range, heating		-10 °C...+20 °C	-10 °C...+20 °C	
Refrigeration factor/COP		0.8	0.9	
Power pack integrated		■	–	
Weight kg		3.3	2.6	
Accessories				
Spare filter mat	5 pc(s).	3201.050	3201.050	535
Condensate hose	1 pc(s).	3301.606	3301.606	544

TopTherm wall-mounted cooling units, horizontal format

Accessories for climate control Page 533 **Therm software** Page 558

Compact wall-mounted cooling units in horizontal format, with nano-coated condenser.

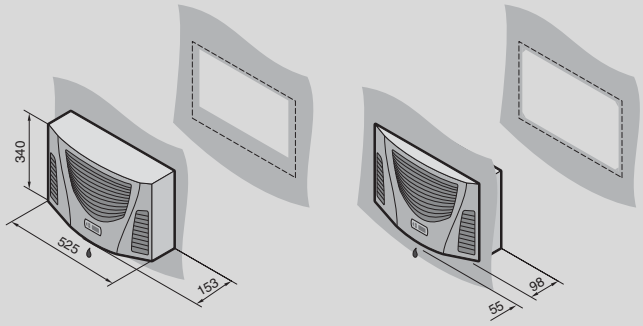
Temperature control:
– Basic controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 54

Supply includes:
– Nano-coated condenser
– Fully wired ready for connection (plug-in terminal strip)
– Drilling template
– Assembly parts

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



Output class 300 W

Model No.		Packs of	**3302.300**	**3302.310**	Page
Material	Sheet steel		■	■	
Colour	RAL 7035		■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**0.36**	–	
Total cooling output 50/60 Hz L35 L35 kW			0.36 / 0.38	0.38	
Total cooling output 50/60 Hz L35 L50 kW			0.21 / 0.22	0.23	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	
Width mm			525	525	
Height mm			340	340	
Depth mm			153	153	
Rated current max. A			1.6 / 1.7	4	
Start-up current A			4.3 / 5.3	12	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.27 / 0.29	0.32	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	
Setting range			+30 °C...+55 °C	+30 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			1.34 / 1.3	1.18	
Refrigerant g			R134a, 100	R134a, 100	
Weight kg			13.0	13.0	
Accessories					
Filter mat		3 pc(s).	3286.110	3286.110	533
Metal filter		1 pc(s).	3286.120	3286.120	534
Door-operated switch		1 pc(s).	4127.010	4127.010	1024
Condensate hose		1 pc(s).	3301.608	3301.608	544
Electric condensate evaporator		1 pc(s).	3301.500	3301.500	543

TopTherm wall-mounted cooling units

Accessories for climate control Page 533 **Therm software** Page 558

Compact wall-mounted cooling units, with nano-coated condenser.

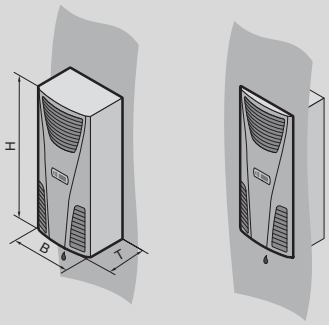
Temperature control:
– Basic controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 54

Supply includes:
– Nano-coated condenser
– Fully wired ready for connection (plug-in terminal strip)
– Drilling template
– Assembly parts

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



Output class 300 W

Model No.		Packs of	**3302.100**	**3302.110**	**3302.200**	Page
Material	Sheet steel		■	■	–	
	Stainless steel 1.4301 (AISI 304)		–	–	■	
Colour	RAL 7035		■	■	–	
	RAL 9007		–	–	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**0.36**	–	**0.36**	
Total cooling output 50/60 Hz L35 L35 kW			0.36 / 0.38	0.38	0.36 / 0.38	
Total cooling output 50/60 Hz L35 L50 kW			0.21 / 0.23	0.23	0.21 / 0.23	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	230, 1~, 50/60	
Width (B) mm			280	280	280	
Height (H) mm			550	550	550	
Depth (T) mm			140	140	140	
Rated current max. A			1.6 / 1.7	3.3	1.6 / 1.7	
Start-up current A			3 / 3.4	8	3 / 3.4	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.27 / 0.28	0.32	0.27 / 0.28	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Setting range			+30 °C...+55 °C	+30 °C...+55 °C	+30 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			1.3 / 1.32	1.18	1.3 / 1.32	
Refrigerant g			R134a, 100	R134a, 100	R134a, 100	
Weight kg			13.0	13.0	13.0	
Accessories						
Filter mat		3 pc(s).	3286.300	3286.300	3286.300	533
Metal filter		1 pc(s).	3286.310	3286.310	3286.310	534
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	1024
Condensate hose		1 pc(s).	3301.610	3301.610	3301.610	544
Electric condensate evaporator		1 pc(s).	3301.500	3301.500	3301.500	543

TopTherm wall-mounted cooling units Blue e

Accessories for climate control Page 533 **Therm software** Page 558 **RiDiag software** Page 559

Energy-efficient Blue e wall-mounted cooling units with integral e-Comfort controller and RiNano coating on the condenser as standard.

Benefits:
– May be linked to the IoT interface via the Blue e IoT adaptor

Temperature control:
– e-Comfort controller (factory setting +35 °C)

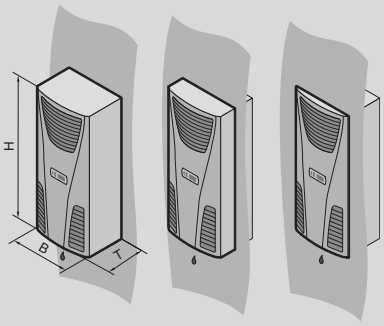
Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 54

Supply includes:
– Nano-coated condenser
– Fully wired ready for connection (plug-in terminal strip)
– Drilling template
– Assembly parts

Note:
– The technical specifications for the wall-mounted cooling unit 3361.540 apply with an external transformer connected.

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



TopTherm wall-mounted cooling units Blue e

Output class 500 W

Model No.		Packs of	**3303.500**	**3303.510**	**3303.600**	Page
Material	Sheet steel		■	■	–	
	Stainless steel 1.4301 (AISI 304)		–	–	■	
Colour	RAL 7035		■	■	–	
	RAL 9007		–	–	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**0.55**	–	**0.55**	
Total cooling output 50/60 Hz L35 L35 kW			0.55 / 0.66	0.66	0.55 / 0.66	
Total cooling output 50/60 Hz L35 L50 kW			0.33 / 0.4	0.4	0.33 / 0.4	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	230, 1~, 50/60	
Width (B) mm			280	280	280	
Height (H) mm			550	550	550	
Depth (T) mm			210	210	210	
Rated current max. A			2.6 / 2.6	5.7	2.6 / 2.6	
Start-up current A			5.1 / 6.4	11.5	5.1 / 6.4	
Toroidal transformer (external) Ø x D			–	–	–	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.39 / 0.41	0.5	0.39 / 0.41	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Operating temperature (max.) 60 Hz			–	–	–	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			1.4 / 1.21	1.31	1.4	
Refrigerant g			R134a, 170	R134a, 170	R134a, 170	
Weight kg			17.0	17.0	17.0	
Accessories						
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	3124.310	555
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	1024
Filter mat		3 pc(s).	3286.300	3286.300	3286.300	533
Metal filter		1 pc(s).	3286.310	3286.310	3286.310	534
Master/slave cable		1 pc(s).	3124.100	3124.100	3124.100	550
Electric condensate evaporator		1 pc(s).	3301.500	3301.500	3301.500	543
Condensate hose		1 pc(s).	3301.610	3301.610	3301.610	544
RiDiag		1 pc(s).	3159.100	3159.100	3159.100	559

Output class 750 W

Model No.		Packs of	**3361.500**	**3361.510**	**3361.540**	**3361.600**	Page
Material	Sheet steel		■	■	■	–	
	Stainless steel 1.4301 (AISI 304)		–	–	–	■	
Colour	RAL 7035		■	■	■	–	
	RAL 9007		–	–	–	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**0.85**	–	**0.85**	**0.85**	
Total cooling output 50/60 Hz L35 L35 kW			0.85 / 0.89	0.89	0.85 / 0.89	0.85 / 0.89	
Total cooling output 50/60 Hz L35 L50 kW			0.67 / 0.67	0.67	0.67 / 0.67	0.67 / 0.67	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 60	400, 2~, 50/60	230, 1~, 50/60	
Width (B) mm			280	280	280	280	
Height (H) mm			550	550	550	550	
Depth (T) mm			280	280	280	280	
Rated current max. A			2.7 / 2.7	5.3	1.2 / 1.4	2.7 / 2.7	
Start-up current A			6 / 9.6	12	3.1 / 3.3	6 / 9.6	
Toroidal transformer (external) Ø x D mm			–	–	126 x 65	–	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.4 / 0.43	0.55	0.4 / 0.43	0.4 / 0.43	
Operating temperature range			+10 °C...+55 °C	+10 °C...+52 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Operating temperature (max.) 60 Hz			+53 °C	+52 °C	+53 °C	+53 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.08 / 2.03	1.59	2.08 / 2.03	2.08 / 2.03	
Refrigerant g			R134a, 280	R134a, 260	R134a, 280	R134a, 280	
Weight kg			22.0	22.0	22.0	22.0	
Accessories							
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	3124.310	3124.310	555
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Filter mat		3 pc(s).	3286.300	3286.300	3286.300	3286.300	533
Metal filter		1 pc(s).	3286.310	3286.310	3286.310	3286.310	534
Master/slave cable		1 pc(s).	3124.100	3124.100	3124.100	3124.100	550
Electric condensate evaporator		1 pc(s).	3301.500	3301.500	3301.500	3301.500	543
Condensate hose		1 pc(s).	3301.610	3301.610	3301.610	3301.610	544
RiDiag		1 pc(s).	3159.100	3159.100	3159.100	3159.100	559

TopTherm wall-mounted cooling units Blue e

Accessories for climate control Page 533 **Therm software** Page 558 **RiDiag software** Page 559

Energy-efficient Blue e wall-mounted cooling units with integral e-Comfort controller, RiNano coating on the condenser and electrical condensate evaporation as standard.

Benefits:
– May be linked to the IoT interface via the Blue e IoT adaptor

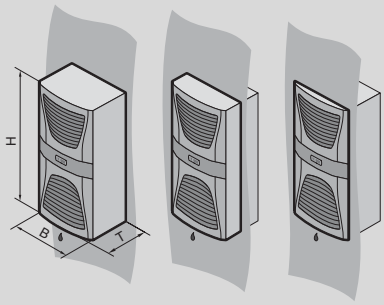
Temperature control:
– e-Comfort controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 54

Supply includes:
– Nano-coated condenser
– Integral electric condensate evaporation
– Fully wired ready for connection (plug-in terminal strip)
– Drilling template
– Assembly parts

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



Output class 1000 W

Model No.		Packs of	**3304.500**	**3304.510**	**3304.540**	**3304.600**	**3304.640**	Page
Material	Sheet steel		■	■	■	–	–	
	Stainless steel 1.4301 (AISI 304)		–	–	–	■	■	
Colour	RAL 7035		■	■	■	–	–	
	RAL 9007		–	–	–	■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	
Total cooling output 50/60 Hz L35 L35 kW			1.1 / 1.25	1.1 / 1.25	1.1 / 1.25	1.1 / 1.25	1.1 / 1.26	
Total cooling output 50/60 Hz L35 L50 kW			0.91 / 0.9	0.91 / 0.9	0.98 / 0.9	0.91 / 0.9	0.98 / 0.9	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	400, 3~, 50 460, 3~, 60	230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Width (B) mm			400	400	400	400	400	
Height (H) mm			950	950	950	950	950	
Depth (T) mm			260	260	260	260	260	
Rated current max. A			3.9 / 4.3	8 / 8.8	2.2 / 2.1	3.9 / 4.3	2.2 / 2.1	
Start-up current A			12 / 14	26 / 28	11.5 / 12.7	12 / 14	11.5 / 12.7	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.64 / 0.68	0.64 / 0.68	0.64 / 0.79	0.6 / 0.68	0.64 / 0.79	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			1.83 / 1.84	1.83 / 1.84	1.72 / 1.58	1.83 / 1.84	1.72 / 1.59	
Refrigerant g			R134a, 325	R134a, 325	R134a, 325	R134a, 325	R134a, 325	
Weight kg			39.0	44.0	40.0	39.0	40.0	
Accessories								
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	3124.310	3124.310	3124.310	555
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	1024
Filter mat		3 pc(s).	3286.400	3286.400	3286.400	3286.400	3286.400	533
Metal filter		1 pc(s).	3286.410	3286.410	3286.410	3286.410	3286.410	534
Master/slave cable		1 pc(s).	3124.100	3124.100	3124.100	3124.100	3124.100	550
Air diverter		1 pc(s).	3213.310	3213.310	3213.310	3213.310	3213.310	542
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	3301.612	3301.612	544
RiDiag		1 pc(s).	3159.100	3159.100	3159.100	3159.100	3159.100	559

TopTherm wall-mounted cooling units Blue e

Output class 1500 W

Model No.		Packs of	**3305.500**	**3305.510**	**3305.540**	Page
Material	Sheet steel		■	■	■	
Colour	RAL 7035		■	■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**1.6**	**1.6**	**1.6**	
Total cooling output 50/60 Hz L35 L35 kW			1.6 / 1.76	1.6 / 1.76	1.6 / 1.61	
Total cooling output 50/60 Hz L35 L50 kW			1.25 / 1.37	1.25 / 1.37	1.33 / 1.35	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Width (B) mm			400	400	400	
Height (H) mm			950	950	950	
Depth (T) mm			260	260	260	
Rated current max. A			5.5 / 5.8	11.5 / 12.5	2.5 / 2.8	
Start-up current A			12 / 14	26 / 28	12.2 / 11.3	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.87 / 0.98	0.87 / 0.98	0.9 / 1.08	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			1.83 / 1.79	1.83 / 1.79	1.83 / 1.49	
Refrigerant g			R134a, 500	R134a, 500	R134a, 500	
Weight kg			41.0	46.0	42.0	
Accessories						
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	3124.310	555
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	1024
Filter mat		3 pc(s).	3286.400	3286.400	3286.400	533
Metal filter		1 pc(s).	3286.410	3286.410	3286.410	534
Master/slave cable		1 pc(s).	3124.100	3124.100	3124.100	550
Air diverter		1 pc(s).	3213.310	3213.310	3213.310	542
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	544
RiDiag		1 pc(s).	3159.100	3159.100	3159.100	559

TopTherm wall-mounted cooling units Blue e

Accessories for climate control Page 533 **Therm software** Page 558 **RiDiag software** Page 559

Energy-efficient Blue e wall-mounted cooling units with integral e-Comfort controller, RiNano coating on the condenser and electrical condensate evaporation as standard.

Benefits:
– May be linked to the IoT interface via the Blue e IoT adaptor

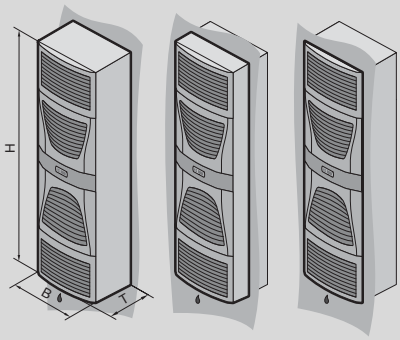
Temperature control:
– e-Comfort controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 54

Supply includes:
– Nano-coated condenser
– Integral electric condensate evaporation
– Fully wired ready for connection (plug-in terminal strip)
– Drilling template
– Assembly parts

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



Output class 2000 W

Model No.		Packs of	**3328.500**	**3328.540**	Page
Material	Sheet steel		■	■	
Colour	RAL 7035		■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**2.2**	**2.2**	
Total cooling output 50/60 Hz L35 L35 kW			2.2 / 2.56	2.2 / 2.55	
Total cooling output 50/60 Hz L35 L50 kW			1.82 / 1.95	1.65 / 1.89	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Width (B) mm			400	400	
Height (H) mm			1580	1580	
Depth (T) mm			295	295	
Rated current max. A			6.1 / 6.6	2.8 / 3.3	
Start-up current A			20 / 22	6.8 / 7.8	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.91 / 1.03	0.92 / 1.15	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.4 / 2.47	2.4 / 2.22	
Refrigerant g			R134a, 950	R134a, 950	
Weight kg			66.0	67.0	
Accessories					
IoT interface		1 pc(s).	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	555
Door-operated switch		1 pc(s).	4127.010	4127.010	1024
Filter mat		3 pc(s).	3286.400	3286.400	533
Metal filter		1 pc(s).	3286.410	3286.410	534
Master/slave cable		1 pc(s).	3124.100	3124.100	550
Air diverter		1 pc(s).	3213.320	3213.320	542
Condensate hose		1 pc(s).	3301.612	3301.612	544
RiDiag		1 pc(s).	3159.100	3159.100	559
Eyebolts		4 pc(s).	4568.000	4568.000	964

TopTherm wall-mounted cooling units Blue e

Output class 2500 W

Model No.		Packs of	**3329.500**	**3329.540**	Page
Material	Sheet steel		■	■	
Colour	RAL 7035		■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**2.55**	**2.55**	
Total cooling output 50/60 Hz L35 L35 kW			2.55 / 2.71	2.55 / 2.75	
Total cooling output 50/60 Hz L35 L50 kW			1.8 / 1.8	1.95 / 2	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Width (B) mm			400	400	
Height (H) mm			1580	1580	
Depth (T) mm			295	295	
Rated current max. A			7.9 / 9.3	3.3 / 3.4	
Start-up current A			25 / 22	6.8 / 7.6	
Power consumption P_{el} 50/60 Hz L35 L35 kW			1.21 / 1.35	1.19 / 1.39	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.11 / 2.01	2.11 / 1.97	
Refrigerant g			R134a, 950	R134a, 950	
Weight kg			69.0	70.0	
Accessories					
IoT interface		1 pc(s).	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	555
Door-operated switch		1 pc(s).	4127.010	4127.010	1024
Filter mat		3 pc(s).	3286.400	3286.400	533
Metal filter		1 pc(s).	3286.410	3286.410	534
Master/slave cable		1 pc(s).	3124.100	3124.100	550
Air diverter		1 pc(s).	3213.320	3213.320	542
Condensate hose		1 pc(s).	3301.612	3301.612	544
RiDiag		1 pc(s).	3159.100	3159.100	559
Eyebolts		4 pc(s).	4568.000	4568.000	964

TopTherm wall-mounted cooling units Blue e, slimline

Accessories for climate control Page 533 **Therm software** Page 558 **RiDiag software** Page 559

Energy-efficient Blue e wall-mounted cooling units with e-Comfort controller integrated as standard, RiNano coating on the condenser and electrical condensate evaporation. Slimline design.

Benefits:
– May be linked to the IoT interface via the Blue e IoT adaptor

Temperature control:
– e-Comfort controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 54

Supply includes:
– Nano-coated condenser
– Integral electric condensate evaporation
– Fully wired ready for connection (plug-in terminal strip)
– Drilling template
– Assembly parts for internal mounting

Note:
– For external mounting of the cooling unit, trim frame 3377.000 including assembly parts may be fitted. This gives the cooling unit a closed front appearance.

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Output class 1500 W

Model No.		Packs of	**3366.500**	**3366.540**	Page
Material	Sheet steel		■	■	
Colour	RAL 7035		■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**1.6**	**1.6**	
Total cooling output 50/60 Hz L35 L35 kW			1.6 / 1.6	1.6 / 1.6	
Total cooling output 50/60 Hz L35 L50 kW			1.15 / 1.2	1.08 / 1.18	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Width mm			435	435	
Height mm			1590	1590	
Depth mm			205	205	
Rated current max. A			6.7 / 6.9	2.7 / 2.9	
Start-up current A			22 / 24	8 / 8.8	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.84 / 0.97	0.9 / 1.05	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			1.9 / 1.65	1.9 / 1.52	
Refrigerant g			R134a, 700	R134a, 700	
Weight kg			45.0	46.0	
Accessories					
IoT interface		1 pc(s).	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	555
Door-operated switch		1 pc(s).	4127.010	4127.010	1024
Filter mat		3 pc(s).	3286.400	3286.400	533
Metal filter		1 pc(s).	3286.410	3286.410	534
Master/slave cable		1 pc(s).	3124.100	3124.100	550
Trim frame		1 pc(s).	3377.000	3377.000	556
Condensate hose		1 pc(s).	3301.612	3301.612	544
RiDiag		1 pc(s).	3159.100	3159.100	559

Wall-mounted cooling units Blue e+

The world's most efficient range of cooling units.

Incredibly efficient

- Average 75% energy savings with innovative hybrid technology
- 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

Intelligent networking

- In conjunction with the IoT interface, all Blue e+ cooling units can now be networked and digitalised

  The benefits for you:
  – Continuous monitoring of temperature levels
  – Avoidance of downtime costs and consequential damage
  – Automatic notification of any cooling unit malfunctions
  – Asset Management: Localisation and organisation of cooling units
  – Remote access: Device parameters can be configured remotely

Easier to operate

- Fast unit analysis using RiDiag III software via USB port
- Fast parameterisation, data reading and plain-text system messages via the intelligent, multilingual, industry-grade display
- Contactless on-site information sharing and fast, direct analysis via the NFC interface with the Blue e+ app

Maximum flexibility

- One device for all voltages and networks, suitable for worldwide use thanks to inverter technology:
  – 110 to 240 V, 1~, 50/60 Hz
  – 380 to 480 V, 3~, 50/60 Hz
- International approvals and certifications
- Available in sheet steel or stainless steel
- One version for external mounting, partial internal mounting and full internal mounting with identical mounting cut-out

Wall-mounted cooling units Blue e+

Accessories for climate control Page 533 **Therm software** Page 558 **Blue e+ app** Page 559 **IoT interface** Page 554

Benefits:
- Average 75% energy savings thanks 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

Temperature control:
- e+ controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
- Internal circuit IP 55

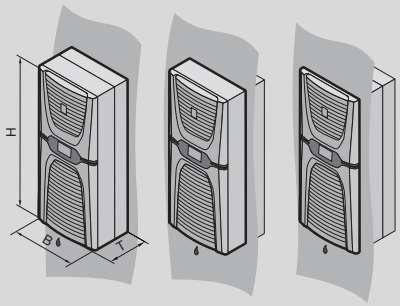
Supply includes:
- Nano-coated condenser
- Integral electric condensate evaporation
- Assembly parts
- Fully wired ready for connection (plug-in terminal strip)

Optional:
- For remote monitoring and networking of cooling units and chillers in the Blue e+ generation, please use the IoT interface (Model No. 3124.300). Increase machine availability and process reliability with remote monitoring of device data, statuses and system messages.

Note:
- Please observe the mounting instructions.
- Firmware can be updated using the RiDiag III software (3159.300)

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



Output class 1600 W

Model No.		Packs of	**3185.530**	**3185.830**	Page
Material	Sheet steel		–	■	
	Stainless steel 1.4301 (AISI 304)		■	–	
Colour	RAL 7035		–	■	
	RAL 9007		■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**1.6**	**1.6**	
Total cooling output 50/60 Hz L35 L35 kW			1.6 / 1.6	1.6 / 1.6	
Total cooling output 50/60 Hz L35 L50 kW			1.2 / 1.2	1.2 / 1.2	
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	
Width (B) mm			400	400	
Height (H) mm			950	950	
Depth (T) mm			310	310	
Rated power input kW			0.62	0.62	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.54 / 0.54	0.54 / 0.54	
Operating temperature range			-20 °C...+60 °C	-20 °C...+60 °C	
Setting range			+20 °C...+50 °C	+20 °C...+50 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			3.1 / 3.1	3.1 / 3.1	
Seasonal energy efficiency ratio (SEER) 50/60 Hz			6.4	6.4	
Refrigerant g			R134a, 750	R134a, 750	
Weight kg			36.3	37.1	
Accessories					
IoT interface		1 pc(s).	3124.300	3124.300	554
Door-operated switch		1 pc(s).	4127.010	4127.010	1024
Filter mat		3 pc(s).	3285.800	3285.800	533
Metal filter		1 pc(s).	3285.810	3285.810	534
Temperature sensor		1 pc(s).	3124.400	3124.400	549
Condensate hose		1 pc(s).	3301.612	3301.612	544
Eyebolts		4 pc(s).	4568.000	4568.000	964
RiDiag		1 pc(s).	3159.300	3159.300	559

Wall-mounted cooling units Blue e+

Accessories for climate control Page 533 **Therm software** Page 558 **Blue e+ app** Page 559 **IoT interface** Page 554

Benefits:
- Average 75% energy savings thanks 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

Temperature control:
- e+ controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
- Internal circuit IP 55

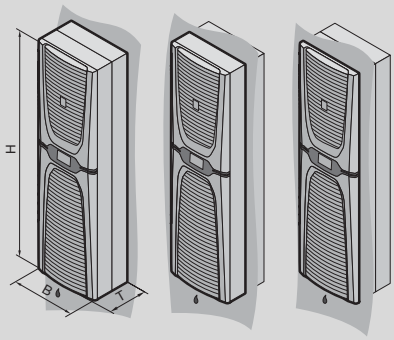
Supply includes:
- Nano-coated condenser
- Integral electric condensate evaporation
- Assembly parts
- Fully wired ready for connection (plug-in terminal strip)

Optional:
- For remote monitoring and networking of cooling units and chillers in the Blue e+ generation, please use the IoT interface (Model No. 3124.300). Increase machine availability and process reliability with remote monitoring of device data, statuses and system messages.

Note:
- Please observe the mounting instructions.
- Firmware can be updated using the RiDiag III software (3159.300)

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



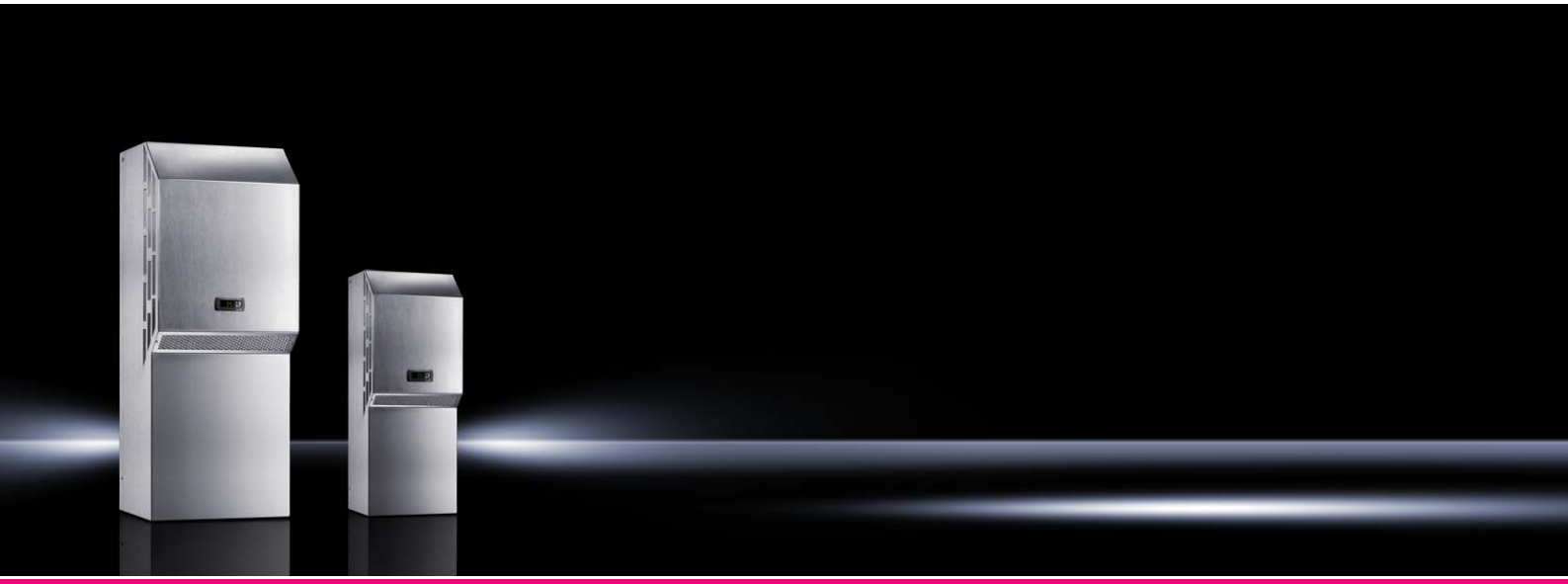
Output class 2000 – 2600 W

Model No.		Packs of	**3186.630**	**3186.930**	**3187.630**	**3187.930**	Page
Material	Sheet steel		–	■	–	■	
	Stainless steel 1.4301 (AISI 304)		■	–	■	–	
Colour	RAL 7035		–	■	–	■	
	RAL 9007		■	–	■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**2**	**2**	**2.6**	**2.6**	
Total cooling output 50/60 Hz L35 L35 kW			2 / 2	2 / 2	2.6 / 2.6	2.6 / 2.6	
Total cooling output 50/60 Hz L35 L50 kW			1.29 / 1.29	1.29 / 1.29	1.82 / 1.82	1.82 / 1.82	
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	110 - 240, 1~, 50/60 380 - 480, 3~, 50/60	110 - 240, 1~, 50/60 380 - 480, 3~, 50/60	
Width (B) mm			450	450	450	450	
Height (H) mm			1600	1600	1600	1600	
Depth (T) mm			294	294	294	294	
Rated power input kW			0.73	0.73	1.05	1.05	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.57 / 0.57	0.57 / 0.57	0.99 / 0.99	0.99 / 0.99	
Operating temperature range			-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	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			3.5 / 3.5	3.5 / 3.5	2.63 / 2.63	2.63 / 2.63	
Seasonal energy efficiency ratio (SEER) 50/60 Hz			8.1	8.1	6.2	6.2	
Refrigerant g			R134a, 1150	R134a, 1150	R134a, 1150	R134a, 1150	
Note on Model No.			–	–	–	–	
Weight kg			54.8	55.2	54.8	55.2	
Accessories							
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	3124.300	554
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Filter mat		3 pc(s).	3285.900	3285.900	3285.900	3285.900	533
Metal filter		1 pc(s).	3285.910	3285.910	3285.910	3285.910	534
Temperature sensor		1 pc(s).	3124.400	3124.400	3124.400	3124.400	549
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	3301.612	544
Eyebolts		4 pc(s).	4568.000	4568.000	4568.000	4568.000	964
RiDiag		1 pc(s).	3159.300	3159.300	3159.300	3159.300	559

Output class 4200 – 5800 W

Model No.		Packs of	**3188.640**	**3188.940**	**3189.640**	**3189.940**	Page
Material	Sheet steel		–	■	–	■	
	Stainless steel 1.4301 (AISI 304)		■	–	■	–	
Colour	RAL 7035		–	■	–	■	
	RAL 9007		■	–	■	–	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**4.2**	**4.2**	**5.8**	**5.8**	
Total cooling output 50/60 Hz L35 L35 kW			4.2 / 4.2	4.2 / 4.2	5.8 / 5.8	5.8 / 5.8	
Total cooling output 50/60 Hz L35 L50 kW			3.02 / 3.02	3.02 / 3.02	4.2 / 4.2	4.2 / 4.2	
Rated operating voltage V, ~, Hz			380 - 480, 3~, 50/60	380 - 480, 3~, 50/60	380 - 480, 3~, 50/60	380 - 480, 3~, 50/60	
Width (B) mm			450	450	450	450	
Height (H) mm			1600	1600	1600	1600	
Depth (T) mm			393	393	393	393	
Rated power input kW			1.3	1.3	2.2	2.2	
Power consumption P_{el} 50/60 Hz L35 L35 kW			1.21 / 1.21	1.21 / 1.21	2.2 / 2.2	2.2 / 2.2	
Operating temperature range			-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	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			3.46 / 3.46	3.46 / 3.46	2.64 / 2.64	2.64 / 2.64	
Seasonal energy efficiency ratio (SEER) 50/60 Hz			8.1	8.1	6.2	6.2	
Refrigerant g			R134a, 1750	R134a, 1750	R134a, 1750	R134a, 1750	
Note on Model No.			Full installation not possible	Full installation not possible	Full installation not possible	Full installation not possible	
Weight kg			71.2	72.4	71.2	72.4	
Accessories							
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	3124.300	554
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Filter mat		3 pc(s).	3285.900	3285.900	3285.900	3285.900	533
Metal filter		1 pc(s).	3285.910	3285.910	3285.910	3285.910	534
Temperature sensor		1 pc(s).	3124.400	3124.400	3124.400	3124.400	549
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	3301.612	544
Eyebolts		4 pc(s).	4568.000	4568.000	4568.000	4568.000	964
RiDiag		1 pc(s).	3159.300	3159.300	3159.300	3159.300	559

TopTherm wall-mounted cooling units Blue e, NEMA 4X



Accessories for climate control Page 533 **Therm software** Page 558 **RiDiag software** Page 559

Energy-efficient Blue e wall-mounted cooling units with e-Comfort controller integrated as standard, RiNano coating on the condenser and electrical condensate evaporation. Protection category NEMA 4X.

Benefits:
– May be linked to the IoT interface via the Blue e IoT adaptor

Temperature control:
– e-Comfort controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 55

Protection category NEMA:
– NEMA 4X

Supply includes:
– Nano-coated condenser
– Fully wired ready for connection (plug-in terminal strip)
– Drilling template
– Assembly parts

Please observe the product-specific scope of supply.

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Output class 500 – 1500 W

Model No.	Packs of	**3303.504**	**3303.514**	**3304.504**	**3304.544**	**3305.504**	**3305.544**	Page
Material: Stainless steel 1.4404 (AISI 316L)		■	■	■	■	■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW		**0.55**	–	**1.1**	**1.1**	**1.6**	**1.6**	
Total cooling output 50/60 Hz L35 L35 kW		0.55 / 0.66	0.66	1.1 / 1.25	1.1 / 1.26	1.6 / 1.76	1.6 / 1.61	
Total cooling output 50/60 Hz L35 L50 kW		0.33 / 0.4	0.4	0.91 / 0.9	0.98 / 1.09	1.25 / 1.37	1.33 / 1.35	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 60	230, 1~, 50/60	400, 3~, 50 460, 3~, 60	230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Width mm		285	285	405	405	405	405	
Height mm		620	620	1020	1020	1020	1020	
Depth mm		298	298	358	358	358	358	
Rated current max. A		2.6 / 2.6	5.7	3.9 / 4.3	2.2 / 2.1	5.5 / 5.8	2.5 / 2.8	
Start-up current A		5.1 / 6.4	11.5	12 / 14	11.5 / 12.7	12 / 14	12.2 / 11.3	
Power consumption P_{el} 50/60 Hz L35 L35 kW		0.39 / 0.41	0.5	0.64 / 0.68	0.64 / 0.79	0.87 / 0.98	0.9 / 1.08	
Operating temperature range		+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Setting range		+20 °C...+50 °C	+20 °C...+50 °C	+20 °C...+50 °C	+20 °C...+50 °C	+20 °C...+50 °C	+20 °C...+50 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35		1.4	1.31	1.83 / 1.84	1.83 / 1.56	1.83 / 1.79	1.83 / 1.49	
Refrigerant g		R134a, 170	R134a, 170	R134a, 325	R134a, 325	R134a, 500	R134a, 500	
Weight kg		25.0	25.0	49.0	50.0	51.0	52.0	
Product-specific scope of supply								
Integral electric condensate evaporation		–	–	■	■	■	■	
Accessories								
IoT interface	1 pc(s).	3124.300	3124.300	3124.300	3124.300	3124.300	3124.300	554
Blue e IoT adaptor	1 pc(s).	3124.310	3124.310	3124.310	3124.310	3124.310	3124.310	555
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	4127.010	1024
Master/slave cable	1 pc(s).	3124.100	3124.100	3124.100	3124.100	3124.100	3124.100	550
Air diverter	1 pc(s).	–	–	3213.310	3213.310	3213.310	3213.310	542
RiDiag	1 pc(s).	3159.100	3159.100	3159.100	3159.100	3159.100	3159.100	559

TopTherm wall-mounted cooling units Blue e, NEMA 4X

Output class 2000 – 2500 W

Model No.	Packs of	**3328.544**	**3329.544**	Page
Material Stainless steel 1.4404 (AISI 316L)		■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW		**2.2**	**2.55**	
Total cooling output 50/60 Hz L35 L35 kW		2.2 / 2.55	2.55 / 2.75	
Total cooling output 50/60 Hz L35 L50 kW		1.45 / 1.69	1.9 / 1.95	
Rated operating voltage V, ~, Hz		400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Width mm		405	405	
Height mm		1650	1650	
Depth mm		388	388	
Rated current max. A		2.8 / 3.3	3.3 / 3.4	
Start-up current A		6.8 / 7.8	6.8 / 7.6	
Power consumption P_{el} 50/60 Hz L35 L35 kW		0.92 / 1.15	1.19 / 1.39	
Operating temperature range		+10 °C...+50 °C	+10 °C...+50 °C	
Setting range		+20 °C...+50 °C	+20 °C...+50 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35		2.4 / 2.22	2.11 / 1.97	
Refrigerant g		R134a, 900	R134a, 900	
Weight kg		81.0	84.0	
Product-specific scope of supply				
Integral electric condensate evaporation		■	■	
Accessories				
IoT interface	1 pc(s).	3124.300	3124.300	554
Blue e IoT adaptor	1 pc(s).	3124.310	3124.310	555
Door-operated switch	1 pc(s).	4127.010	4127.010	1024
Master/slave cable	1 pc(s).	3124.100	3124.100	550
Air diverter	1 pc(s).	3213.320	3213.320	542
RiDiag	1 pc(s).	3159.100	3159.100	559

Wall-mounted cooling unit TopTherm Blue e, UL Type 3R/4

For indoor and outdoor

Suitable for outdoor siting

- Vandalism-protected (e-Comfort controller on the rear of the cooling unit)
- Outdoor paint finish in accordance with UL 1332
- Temperature range: -20 °C to +50 °C (in compressor mode +10 °C to +50 °C)

Optimum protection

- Protection category: UL Type 3R/4/12 and IP 56
- The cooling units provide protection against damaging influences, e.g. water and external icing
- The RiNano coating prevents the accumulation of dirt deposits on the condenser, thereby extending maintenance intervals and ensuring a constant long-term cooling output

Benefits of Blue e technology

- Energy savings of up to 45%
- Intelligent control with Comfort controller, icing protection and motor monitoring
- Eco-mode control: The evaporator coil fan cuts out as necessary, depending on the enclosure internal temperature
- Longer service life of components in the enclosure and cooling units, because efficient components such as fans and compressors run at their optimum operating point
- The integral electric condensate evaporation system means that condensate evaporates and dissipates to the ambient air via the external fan

Worldwide use

- International approvals (cULus Listed, cULus FTTA, CE and EAC)
- Worldwide service and spare parts availability

Intelligent networking

- In conjunction with the IoT interface and Blue e IoT adaptor, it is a simple matter to integrate the cooling units into Industry 4.0 environments
- Condition monitoring of up to 10 cooling units in a master/slave arrangement

TopTherm wall-mounted cooling units Blue e, UL Type 3R/4

Accessories for climate control Page 533 **Therm software** Page 558 **RiDiag software** Page 559

Energy-efficient Blue e wall-mounted cooling units with integral e-Comfort controller, RiNano coating on the condenser and electric condensate evaporation as standard, protection category UL Type 3R/4, 12.

Benefits:
– Suitable for outdoor siting
– Blue e technology
– May be linked to the IoT interface via the Blue e IoT adaptor

Temperature control:
– e-Comfort controller (factory setting +35 °C)

Material:
– Sheet steel

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 56

Protection category NEMA:
– UL Type 3R
– UL Type 4
– UL Type 12

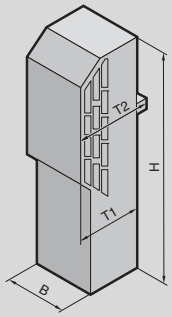
Supply includes:
– Nano-coated condenser
– Fully wired ready for connection (plug-in terminal strip)
– Connection box
– Drilling template
– Assembly parts

Please observe the product-specific scope of supply.

Note:
– Compressor cooling mode from +10 °C ambient temperature. Only the internal fan is active in the temperature range -20 °C to +10 °C.

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



TopTherm wall-mounted cooling units Blue e, UL Type 3R/4

Output class 500 – 2500 W

Model No.	Packs of	3303.508	3303.518	3304.508	3304.548	3305.548	3329.548	Page
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW		**0.46**	–	**1.1**	**1.15**	**1.49**	**2.55**	
Total cooling output 50/60 Hz L35 L35 kW		0.46 / 0.55	0.55	1.1 / 1.26	1.15 / 1.3	1.49 / 1.7	2.55 / 2.75	
Total cooling output 50/60 Hz L35 L50 kW		0.27 / 0.32	0.32	0.9 / 1.07	0.95 / 1.11	1.04 / 1.17	1.95 / 2.00	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 60	230, 1~, 50/60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Width (B) mm		285	285	405	405	405	405	
Height (H) mm		620	620	1020	1020	1020	1650	
Depth (T1) mm		298	298	358	358	358	388	
Installation depth of connection box (T2) mm		350	350	410	410	410	440	
Rated current max. A		2.6 / 2.6	5.7	3.9 / 4.3	2.2 / 2.1	2.5 / 2.8	3.3 / 3.4	
Start-up current A		5.1 / 6.4	11.5	12 / 14	11.5 / 12.7	12.2 / 11.3	6.8 / 7.6	
Power consumption P_{el} 50/60 Hz L35 L35 kW		0.35 / 0.42	0.42	0.62 / 0.68	0.75 / 0.78	0.65 / 0.82	1.19 / 1.39	
Operating temperature range		-20 °C...+50 °C	-20 °C...+50 °C	-20 °C...+50 °C	-20 °C...+50 °C	-20 °C...+50 °C	-20 °C...+50 °C	
Setting range		+20 °C...+50 °C	+20 °C...+50 °C	+20 °C...+50 °C	+20 °C...+50 °C	+20 °C...+50 °C	+20 °C...+50 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35		1.31 / 1.3	1.3	1.75 / 1.86	1.53 / 1.67	2.28 / 2.07	2.14 / 1.97	
Refrigerant g		R134a, 170	R134a, 170	R134a, 325	R134a, 325	R134a, 500	R134a, 900	
Weight kg		25.0	25.0	49.0	50.0	52.0	84.0	
Product-specific scope of supply								
Integral electric condensate evaporation		–	–	■	■	■	■	
Accessories								
IoT interface	1 pc(s).	3124.300	3124.300	3124.300	3124.300	3124.300	3124.300	554
Blue e IoT adaptor	1 pc(s).	3124.310	3124.310	3124.310	3124.310	3124.310	3124.310	555
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	4127.010	1024
RiDiag	1 pc(s).	3159.100	3159.100	3159.100	3159.100	3159.100	3159.100	559
Master/slave cable	1 pc(s).	3124.100	3124.100	3124.100	3124.100	3124.100	3124.100	550
Air diverter	1 pc(s).	–	–	3213.310	3213.310	3213.310	3213.320	542
Eyebolts	4 pc(s).	4568.000	4568.000	4568.000	4568.000	4568.000	4568.000	964

Wall-mounted cooling unit Blue e+ outdoor

Energy efficiency for the outdoor sector

Suitable for outdoor siting

- Vandalism-protected enclosure (e+ controller on the rear of the cooling unit)
- For universal mounting on outdoor enclosures
- Aluminium enclosure with outdoor spray finish to UL 1332
- Temperature range: -30 °C to +60 °C

Optimum protection

- Protection category: UL type 3R/4/12 and IP 56
- The cooling units provide protection against damage e.g. from water and external icing
- The RiNano coating prevents the accumulation of dirt deposits on the condenser, thereby extending maintenance intervals and ensuring a consistent cooling output for longer

Benefits of Blue e+ technology

- Efficiency – Average 75% energy savings thanks to speed-controlled components and heat pipe technology
- Versatility – Unique multi-voltage capability supports global use
- Reliability – Component-friendly cooling helps extend the service life of all components inside the enclosure and the cooling unit
- User-friendliness – Touch display and smart interfaces support intuitive operation

Global use

- International approvals (cULus Listed, cULus FTTA, CE and EAC)
- Worldwide service and spare parts availability

Intelligent networking
In conjunction with the IoT interface, all Blue e+ cooling units can now be networked and digitalised

- Continuous monitoring of temperature levels
- Avoidance of downtime costs and consequential damage
- Automatic notification of any cooling unit malfunctions
- Asset management: Localisation and organisation of cooling units
- Remote access: Device parameters can be configured remotely

Wall-mounted cooling unit Blue e+ outdoor

Accessories for climate control Page 533 **Toptec** Page 270 **RiDiag software** Page 559

The energy-efficient wall-mounted cooling unit Blue e+ Outdoor can be used worldwide, thanks to its multi-voltage capability, and is suitable for use with Toptec project solutions, for example.

Benefits:
- Average 75% energy savings thanks to speed-regulated components and heat pipe technology
- 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

Temperature control:
- e+ controller (factory setting +35 °C)

Material:
- Aluminium AlMg3

Surface finish:
- Powder-coated
- UV-resistant pure polyester

Colour:
- RAL 7035

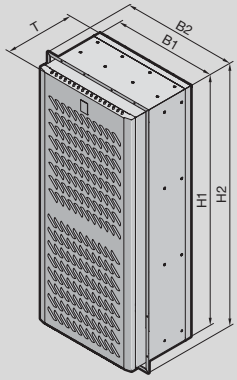
Protection category IP to IEC 60 529:
- Internal circuit IP 56

Protection category NEMA:
- UL Type 4/3R/12

Supply includes:
- Nano-coated condenser
- Integral electric condensate evaporation
- Fully wired ready for connection (plug-in terminal strip)
- Sealing frame for universal attachment to outdoor enclosures for external, partial internal and full internal mounting.
- Assembly parts

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet



Output class 1500 W

Model No.	Packs of	**3185.330**	Page
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW		**1.5**	
Total cooling output 50/60 Hz L35 L35 kW		1.5 / 1.5	
Total cooling output 50/60 Hz L35 L50 kW		1.2 / 1.2	
Rated operating voltage V, ~, Hz		110 - 240, 1~, 50/60 380 - 480, 3~, 50/60	
Width (B1) mm		415	
Height (H1) mm		990	
Depth (T) mm		279	
Enclosure dimensions including sealing frame and designer cover (B2 x H2 x T) mm		467 x 1042 x 279	
Dimensions to fit enclosure type		Toptec	
with height mm		≥ 1200	
with width mm		≥ 600	
Rated power input kW		0.62	
Power consumption P_{el} 50/60 Hz L35 L35 kW		0.54 / 0.54	
Operating temperature range		-30 °C...+60 °C	
Setting range		+20 °C...+50 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35		3.1 / 3.1	
Seasonal energy efficiency ratio (SEER) 50/60 Hz		6.4	
Refrigerant g		R134a, 750	
Weight kg		37.1	
Also required			
Enclosure heater		see page	531
Thermostat	1 pc(s).	3110.000	547
Hygrostat	1 pc(s).	3118.000	547
Accessories			
IoT interface	1 pc(s).	3124.300	554
Door-operated switch	1 pc(s).	4127.010	1024

TopTherm roof-mounted cooling units Blue e

Accessories for climate control Page 533 **Therm software** Page 558 **RiDiag software** Page 559 **Air routing** Page 540

Energy-efficient Blue e roof-mounted cooling units with integral e-Comfort controller, RiNano coating on the condenser and electric condensate evaporation as standard.

Benefits:
– May be linked to the IoT interface via the Blue e IoT adaptor

Temperature control:
– e-Comfort controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 54

Supply includes:
– Nano-coated condenser
– Integral electric condensate evaporation
– Fully wired ready for connection (plug-in terminal strip)
– Drilling template
– Assembly parts

Note:
– The roof-mounted cooling unit 3273.500 is also suitable for office applications, thanks to its low noise level.

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Output class 500 W

Model No.		Packs of	**3382.500**	**3382.510**	**3382.600**	Page
Material	Sheet steel		■	■	–	
	Stainless steel 1.4301 (AISI 304)		–	–	■	
Colour	RAL 7035		■	■	–	
	RAL 9007		–	–	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**0.55**	**0.55**	**0.55**	
Total cooling output 50/60 Hz L35 L35 kW			0.55 / 0.62	0.55 / 0.62	0.55 / 0.62	
Total cooling output 50/60 Hz L35 L50 kW			0.42 / 0.48	0.42 / 0.48	0.42 / 0.48	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	
Width mm			597	597	597	
Height mm			417	417	417	
Depth mm			380	380	380	
Rated current max. A			2.3 / 2.6	4.7 / 5.4	2.3 / 2.6	
Start-up current A			9.1 / 8.8	18.2 / 15.9	9.1 / 8.8	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.27 / 0.31	0.27 / 0.31	0.27 / 0.31	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Operating temperature (max.) 60 Hz			–	–	–	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.04 / 1.96	2.04 / 1.96	2.04 / 1.96	
Refrigerant g			R134a, 300	R134a, 300	R134a, 300	
Weight kg			30.0	35.0	30.0	
Accessories						
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	3124.310	555
Filter mat		3 pc(s).	3286.500	3286.500	3286.500	533
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	1024
Metal filter		1 pc(s).	3286.510	3286.510	3286.510	534
Air duct system		1 pc(s).	3286.870	3286.870	3286.870	540
Shallow air duct system		1 pc(s).	3286.850	3286.850	3286.850	541
Air duct adaptor		1 pc(s).	3286.840	3286.840	3286.840	540
Stoppers		2 pc(s).	3286.780	3286.780	3286.780	542

Output class 750 W

Model No.		Packs of	**3359.500**	**3359.510**	**3359.540**	**3359.600**	Page
Material	Sheet steel		■	■	■	–	
	Stainless steel 1.4301 (AISI 304)		–	–	–	■	
Colour	RAL 7035		■	■	■	–	
	RAL 9007		–	–	–	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**0.77**	**0.77**	**0.77**	**0.77**	
Total cooling output 50/60 Hz L35 L35 kW			0.77 / 0.79	0.77 / 0.79	0.77 / 0.79	0.77 / 0.79	
Total cooling output 50/60 Hz L35 L50 kW			0.52 / 0.47	0.52 / 0.47	0.52 / 0.47	0.52 / 0.47	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	400, 2~, 50/60	230, 1~, 50/60	
Width mm			597	597	597	597	
Height mm			417	417	417	417	
Depth mm			380	380	380	380	
Rated current max. A			2.8 / 3.7	5.6 / 7.4	1.6 / 2.1	2.8 / 3.7	
Start-up current A			9.2 / 9	18.4 / 18	5.4 / 5.2	9.2 / 9	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.33 / 0.42	0.33 / 0.43	0.33 / 0.43	0.33 / 0.42	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Operating temperature (max.) 60 Hz			–	–	–	–	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.28 / 1.85	2.28 / 1.82	2.28 / 1.82	2.28 / 1.85	
Refrigerant g			R134a, 400	R134a, 400	R134a, 400	R134a, 400	
Weight kg			32.0	37.0	37.0	32.0	
Accessories							
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	3124.310	3124.310	555
Filter mat		3 pc(s).	3286.500	3286.500	3286.500	3286.500	533
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Metal filter		1 pc(s).	3286.510	3286.510	3286.510	3286.510	534
Air duct system		1 pc(s).	3286.870	3286.870	3286.870	3286.870	540
Shallow air duct system		1 pc(s).	3286.850	3286.850	3286.850	3286.850	541
Air duct adaptor		1 pc(s).	3286.840	3286.840	3286.840	3286.840	540
Stoppers		2 pc(s).	3286.780	3286.780	3286.780	3286.780	542

Output class 1000 W

Model No.		Packs of	**3383.500**	**3383.510**	**3383.540**	**3383.600**	Page
Material	Sheet steel		■	■	■	–	
	Stainless steel 1.4301 (AISI 304)		–	–	–	■	
Colour	RAL 7035		■	■	■	–	
	RAL 9007		–	–	–	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**1**	**1**	**1**	**1**	
Total cooling output 50/60 Hz L35 L35 kW			1 / 1.09	1 / 1.09	1 / 1.09	1 / 1.09	
Total cooling output 50/60 Hz L35 L50 kW			0.71 / 0.81	0.71 / 0.81	0.71 / 0.81	0.71 / 0.81	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	400, 2~, 50/60	230, 1~, 50/60	
Width mm			597	597	597	597	
Height mm			417	417	417	417	
Depth mm			475	475	475	475	
Rated current max. A			2.9 / 3.9	6.2 / 8.4	1.7 / 2.2	2.9 / 3.9	
Start-up current A			8.8 / 10.1	14.4 / 15.8	4.6 / 5.7	8.8 / 10.1	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.38 / 0.47	0.38 / 0.45	0.38 / 0.45	0.38 / 0.47	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Operating temperature (max.) 60 Hz			–	–	–	–	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.58 / 2.28	2.58 / 2.28	2.58 / 2.28	2.58 / 2.28	
Refrigerant g			R134a, 650	R134a, 650	R134a, 650	R134a, 650	
Weight kg			40.0	46.0	46.0	40.0	
Accessories							
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	3124.310	3124.310	555
Filter mat		3 pc(s).	3286.500	3286.500	3286.500	3286.500	533
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Metal filter		1 pc(s).	3286.510	3286.510	3286.510	3286.510	534
Air duct system		1 pc(s).	3286.870	3286.870	3286.870	3286.870	540
Shallow air duct system		1 pc(s).	3286.850	3286.850	3286.850	3286.850	541
Air duct adaptor			–	–	–	–	540
Stoppers		2 pc(s).	3286.880	3286.880	3286.880	3286.880	542

TopTherm roof-mounted cooling units Blue e

Output class 1100 – 1500 W

Model No.		Packs of	**3273.500**	**3384.500**	**3384.510**	**3384.540**	**3384.600**	Page
Material	Sheet steel		■	■	■	■	–	
	Stainless steel 1.4301 (AISI 304)		–	–	–	–	■	
Colour	RAL 7035		■	■	■	■	–	
	RAL 9007		–	–	–	–	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**1.1**	**1.5**	**1.5**	**1.5**	**1.5**	
Total cooling output 50/60 Hz L35 L35 kW			1.1 / 1.2	1.5 / 1.65	1.5 / 1.65	1.5 / 1.65	1.5 / 1.65	
Total cooling output 50/60 Hz L35 L50 kW			0.85 / 0.87	1.15 / 1.3	1.15 / 1.3	1.15 / 1.3	1.15 / 1.3	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	400, 2~, 50/60	230, 1~, 50/60	
Width mm			597	597	597	597	597	
Height mm			417	417	417	417	417	
Depth mm			475	475	475	475	475	
Rated current max. A			5.2 / 5.4	4.2 / 4.9	8.7 / 10.1	2.5 / 2.9	4.2 / 4.9	
Start-up current A			15.5 / 16.5	14.7 / 13.6	27.2 / 23.2	8.7 / 7.6	14.7 / 13.6	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.51 / 0.53	0.67 / 0.77	0.67 / 0.76	0.67 / 0.76	0.67 / 0.77	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Operating temperature (max.) 60 Hz			+50 °C	–	–	–	–	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.12 / 2.23	2.24 / 2.13	2.24 / 2.13	2.24 / 2.13	2.24 / 2.13	
Refrigerant g			R134a, 700	R134a, 700	R134a, 700	R134a, 700	R134a, 700	
Weight kg			42.0	41.0	47.0	47.0	41.0	
Accessories								
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	3124.310	3124.310	3124.310	555
Filter mat		3 pc(s).	3286.500	3286.500	3286.500	3286.500	3286.500	533
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	1024
Metal filter		1 pc(s).	3286.510	3286.510	3286.510	3286.510	3286.510	534
Air duct system		1 pc(s).	3286.870	3286.870	3286.870	3286.870	3286.870	540
Shallow air duct system		1 pc(s).	3286.850	3286.850	3286.850	3286.850	3286.850	541
Air duct adaptor			–	–	–	–	–	540
Stoppers		2 pc(s).	3286.880	3286.880	3286.880	3286.880	3286.880	542

Output class 2000 W

Model No.		Packs of	**3385.500**	**3385.510**	**3385.540**	**3385.600**	**3385.640**	Page
Material	Sheet steel		■	■	■	–	–	
	Stainless steel 1.4301 (AISI 304)		–	–	–	■	■	
Colour	RAL 7035		■	■	■	–	–	
	RAL 9007		–	–	–	■	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**2**	**2**	**2**	**2**	**2**	
Total cooling output 50/60 Hz L35 L35 kW			2 / 2.14	2 / 2.14	2 / 2.14	2 / 2.14	2 / 2.14	
Total cooling output 50/60 Hz L35 L50 kW			1.41 / 1.51	1.41 / 1.51	1.41 / 1.51	1.41 / 1.51	1.41 / 1.51	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	115, 1~, 50/60	400, 2~, 50/60	230, 1~, 50/60	400, 2~, 50/60	
Width mm			597	597	597	597	597	
Height mm			417	417	417	417	417	
Depth mm			475	475	475	475	475	
Rated current max. A			5.9 / 6.3	13.3 / 13.5	3.5 / 3.7	5.9 / 6.3	3.5 / 3.7	
Start-up current A			19.7 / 17.9	42.2 / 31.1	11.7 / 11.7	19.7 / 17.9	11.7 / 11.7	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.95 / 1.14	0.95 / 1.17	0.95 / 1.17	0.95 / 1.14	0.95 / 1.17	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Operating temperature (max.) 60 Hz			–	–	–	–	–	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.09 / 1.88	2.09 / 1.88	2.09 / 1.88	2.09 / 1.88	2.09 / 1.88	
Refrigerant g			R134a, 900	R134a, 900	R134a, 900	R134a, 900	R134a, 900	
Weight kg			42.0	48.0	48.0	42.0	48.0	
Accessories								
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	3124.310	3124.310	3124.310	555
Filter mat		3 pc(s).	3286.500	3286.500	3286.500	3286.500	3286.500	533
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	1024
Metal filter		1 pc(s).	3286.510	3286.510	3286.510	3286.510	3286.510	534
Air duct system		1 pc(s).	3286.870	3286.870	3286.870	3286.870	3286.870	540
Shallow air duct system		1 pc(s).	3286.850	3286.850	3286.850	3286.850	3286.850	541
Air duct adaptor			–	–	–	–	–	540
Stoppers		2 pc(s).	3286.880	3286.880	3286.880	3286.880	3286.880	542

TopTherm roof-mounted cooling units Blue e

Output class 3000 – 4000 W

Model No.		Packs of	**3386.540**	**3386.640**	**3387.540**	**3387.640**	Page
Material	Sheet steel		■	–	■	–	
	Stainless steel 1.4301 (AISI 304)		–	■	–	■	
Colour	RAL 7035		■	–	■	–	
	RAL 9007		–	■	–	■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**3**	**3**	**3.8**	**3.8**	
Total cooling output 50/60 Hz L35 L35 kW			3 / 3.3	3 / 3.3	3.8 / 4	3.8 / 4	
Total cooling output 50/60 Hz L35 L50 kW			2.2 / 2.5	2.2 / 2.5	3.05 / 3.3	3.05 / 3.3	
Rated operating voltage V, ~, Hz			400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Width mm			796	796	796	796	
Height mm			470	470	470	470	
Depth mm			580	580	580	580	
Rated current max. A			3.4 / 3.4	3.4 / 3.4	3.9 / 3.9	3.9 / 3.9	
Start-up current A			8 / 9	8 / 9	17 / 19	17 / 19	
Power consumption P_{el} 50/60 Hz L35 L35 kW			1.17 / 1.48	1.17 / 1.48	1.59 / 2.03	1.59 / 2.03	
Operating temperature range			+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Operating temperature (max.) 60 Hz			–	–	–	–	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.56 / 2.23	2.56 / 2.23	2.38 / 1.97	2.38 / 1.97	
Refrigerant g			R134a, 1600	R134a, 1600	R134a, 1800	R134a, 1800	
Weight kg			70.0	70.0	77.0	77.0	
Accessories							
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	3124.300	554
Blue e IoT adaptor		1 pc(s).	3124.310	3124.310	3124.310	3124.310	555
Filter mat		3 pc(s).	3286.600	3286.600	3286.600	3286.600	533
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Metal filter		1 pc(s).	3286.610	3286.610	3286.610	3286.610	534
Air duct system		1 pc(s).	3286.970	3286.970	3286.970	3286.970	540
Shallow air duct system			–	–	–	–	541
Air duct adaptor			–	–	–	–	540
Stoppers		2 pc(s).	3286.980	3286.980	3286.980	3286.980	542

VX25 Blue e+ integration solution/ Blue e+ roof-mounted cooling units

With revolutionary efficiency

Time and cost savings

- Plug and play: Cooling unit, door limit switches and cabling are pre-installed and ready to connect
- The cooling unit pulls forwards easily for maintenance purposes

Comfort

- Intuitive operation with touch display

Optimum data quality

- All cooling solutions are available in duplicate – real and digital. Thanks to the digital twin, planning, ordering, machining and much more can be carried out by the person who knows your company the best: You.

Efficiency

- High level of energy efficiency, also when used as an autonomous roof-mounted cooling unit

Ready for Industry 4.0

- Digitalisation and networking offer huge opportunities for every company. With the IoT interface (optional), Rittal cooling solutions are easily connected to Industry 4.0 environments.

Blue e+ roof-mounted cooling unit

Accessories for climate control Page 533 **Therm software** Page 558 **RiDiag software** Page 559 **IoT interface** Page 554

Benefits:
- Average 75% energy savings thanks 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

Temperature control:
- e+ controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
- External circuit IP 54 with pleated filter
- Internal circuit IP 54 with pleated filter

Supply includes:
- Blue e+ roof-mounted cooling unit
- Pleated filter
- Fully wired ready for connection
- Assembly parts
- Condensate hose (3 m)

Optional:
- For remote monitoring and networking of cooling units and chillers in the Blue e+ generation, please use the IoT interface (Model No. 3124.300). Increase machine availability and process reliability with remote monitoring of device data, statuses and system messages.

Note:
- Only suitable for mounting on enclosures with minimum dimensions (W x D) 800 x 600 mm
- Operation without a pleated filter is inadmissible
- Firmware can be updated using the RiDiag III software (3159.300)

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Output class 1300 W

Model No.		Packs of	**3185.730**	Page
Material	Sheet steel		■	
Colour	RAL 7035		■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**1.3**	
Total cooling output 50/60 Hz L35 L35 kW			1.3 / 1.3	
Total cooling output 50/60 Hz L35 L50 kW			0.76 / 0.76	
Rated operating voltage V, ~, Hz			110 - 240, 1~, 50/60 380 - 480, 3~, 50/60	
Width mm			700	
Height mm			308	
Depth mm			560	
Rated power input kW			0.75	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.67 / 0.67	
Operating temperature range			-20 °C...+55 °C	
Setting range			+20 °C...+50 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.04 / 2.04	
Seasonal energy efficiency ratio (SEER) 50/60 Hz			5.3	
Refrigerant g			R134a, 590	
Weight kg			38.0	
Accessories				
IoT interface		1 pc(s).	3124.300	554
Door-operated switch		1 pc(s).	4127.010	1024
Pleated filter		3 pc(s).	3285.700	536
Temperature sensor		1 pc(s).	3124.400	549
Display frame		1 pc(s).	3355.700	557
Electrical condensate evaporation		1 pc(s).	3355.720	543
RiDiag		1 pc(s).	3159.300	559

VX25 Blue e+ integration solution

Accessories for climate control Page 533 **RiDiag software** Page 559 **Blue e+ roof-mounted cooling unit** Page 504 **IoT interface** Page 554

Benefits:
- The perfect symbiosis of the VX25 baying enclosure system and Blue e+ cooling unit
- The cooling unit is easily pulled out forwards for maintenance purposes
- No assembly work required – the cooling unit, door-operated switch and connection cabling are installed ready-to-connect
- Cooling unit offers all the benefits of Blue e+ Technology

Temperature control:
- e+ controller (factory setting +35 °C)

Protection category IP to IEC 60 529:
- External circuit IP 54 with pleated filter
- Internal circuit IP 54 with pleated filter

Supply includes:
- Basic enclosure VX25, door, roof, rear panel, side panels, gland plates, mounting plate
- Lock: 3 mm double-bit
- Integral door-operated switch
- Integral Blue e+ cooling unit
- Electric condensate evaporator
- Pleated filter
- Condensate hose (3 m)

Optional:
- For remote monitoring and networking of cooling units and chillers in the Blue e+ generation, please use the IoT interface (Model No. 3124.300). Increase machine availability and process reliability with remote monitoring of device data, statuses and system messages.

Note:
- Operation without a pleated filter is inadmissible
- Firmware can be updated using the RiDiag III software (3159.300)

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Output class 1300 W

Model No.		Packs of	**3185.030**	Page
Material	Sheet steel		■	
Colour	RAL 7035		■	
Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW			**1.3**	
Total cooling output 50/60 Hz L35 L35 kW			1.3 / 1.3	
Total cooling output 50/60 Hz L35 L50 kW			0.76 / 0.76	
Rated operating voltage V, ~, Hz			110 - 240, 1~, 50/60 380 - 480, 3~, 50/60	
Width mm			800	
Height mm			2200	
Depth mm			600	
Mounting plate width mm			699	
Mounting plate height mm			1696	
Rated power input kW			0.75	
Power consumption P_{el} 50/60 Hz L35 L35 kW			0.67 / 0.67	
Operating temperature range			-20 °C...+55 °C	
Setting range			+20 °C...+50 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35			2.04 / 2.04	
Seasonal energy efficiency ratio (SEER) 50/60 Hz			5.3	
Refrigerant g			R134a, 590	
Weight kg			180.0	
Accessories				
IoT interface		1 pc(s).	3124.300	554
Pleated filter		3 pc(s).	3285.700	536
Temperature sensor		1 pc(s).	3124.400	549
Display frame		1 pc(s).	3355.700	557

Modular climate control concept – cooling module Blue e

Accessories for climate control Page 533 **VX25 enclosures** Page 116 **Therm software** Page 558 **RiDiag software** Page 559

All cooling modules may be individually combined with any climate control door. The cooling modules are equipped with energy-efficient Blue e technology, with integral e-Comfort controller, RiNano coating on the condenser and electric condensate evaporation as standard.

Benefits:
– May be linked to the IoT interface via the Blue e IoT adaptor

Temperature control:
– e-Comfort controller (factory setting +35 °C)

Material:
– Sheet steel

Colour:
– RAL 7035

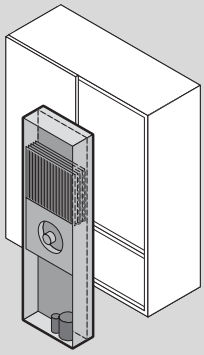
Protection category IP to IEC 60 529:
– External circuit IP 34
– Internal circuit IP 54

Supply includes:
– Cooling module prepared for installation in climate control door
– Nano-coated condenser
– Integral electric condensate evaporation
– Fully wired ready for connection (plug-in terminal strip)

Note:
– A base/plinth with a height of 100 or 200 mm is required for efficient operation

Approvals:
Available on the Internet

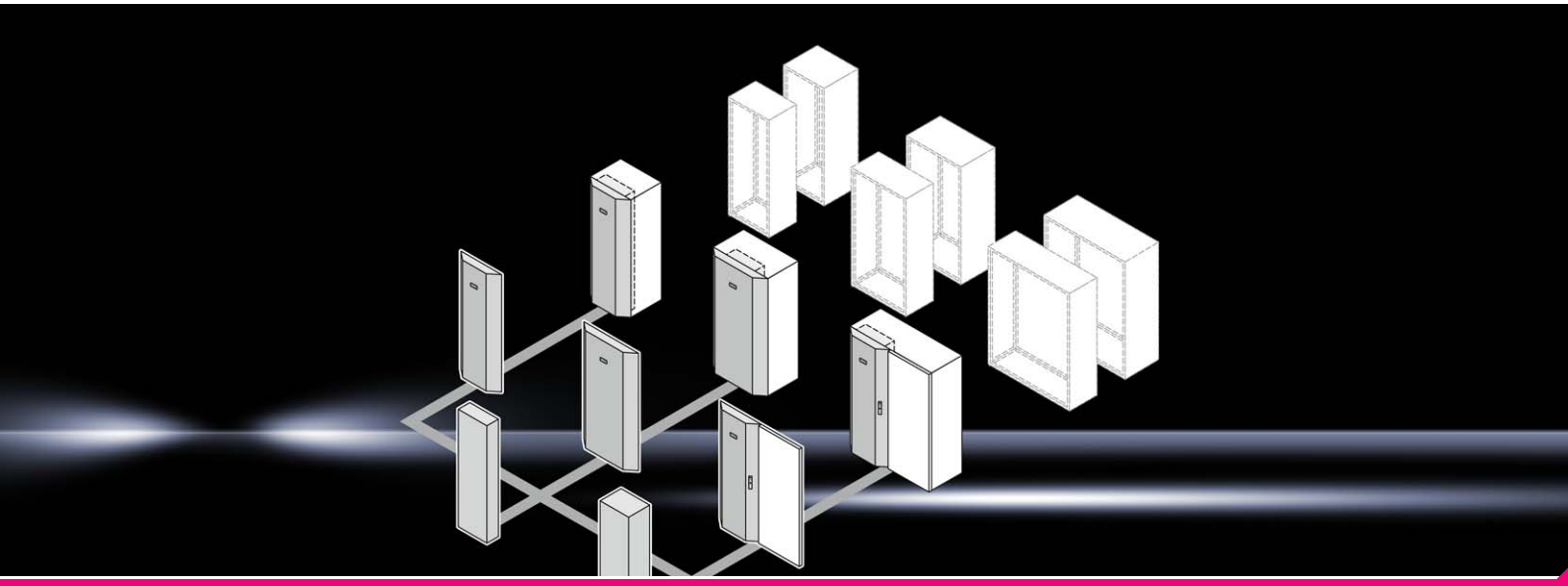
Performance diagrams:
Available on the Internet



Output class 1500 – 2500 W

Model No.	Packs of	**3307.700**	**3307.740**	**3310.700**	**3310.740**	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	400, 3~, 50 460, 3~, 60	230, 1~, 50/60	400, 3~, 50 460, 3~, 60	
Total cooling output 50/60 Hz L35 L35 kW		**1.5 / 1.55**	**1.5 / 1.55**	**2.5 / 2.52**	**2.5 / 2.5**	
Total cooling output 50/60 Hz L35 L50 kW		0.85 / 0.9	0.93 / 0.95	1.62 / 1.76	1.76 / 1.8	
Rated current max. A		6 / 6.1	2.5 / 2.7	7.6 / 9.4	3.5 / 3.7	
Start-up current A		22 / 24	8.5 / 9.2	22 / 24	13 / 14	
Power consumption P_{el} 50/60 Hz L35 L35 kW		0.85 / 1.05	0.79 / 1	1.31 / 1.52	1.13 / 1.48	
Operating temperature range		+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	+10 °C...+55 °C	
Setting range		+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Energy efficiency ratio (EER) 50/60 Hz L35 L35		1.76 / 1.48	1.9 / 1.55	1.91 / 1.66	2.21 / 1.69	
Refrigerant g		R134a, 700	R134a, 700	R134a, 1175	R134a, 1175	
Weight kg		68.0	68.0	73.0	72.0	
Also required						
Modular climate control concept – climate control door VX25		see page	see page	see page	see page	507
Accessories						
IoT interface	1 pc(s).	3124.300	3124.300	3124.300	3124.300	554
Blue e IoT adaptor	1 pc(s).	3124.310	3124.310	3124.310	3124.310	555
Master/slave cable	1 pc(s).	3124.100	3124.100	3124.100	3124.100	550
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024

Modular climate control concept – climate control door VX25



Accessories for climate control Page 533 **VX25 enclosures** Page 116 **Therm software** Page 558

Sheet steel climate control doors for the installation of climate control module types SK 3307.7XX to 3310.7XX. The climate control doors fit perfectly with the overall design of the enclosure.

Material:
– Sheet steel

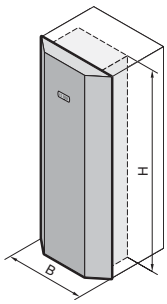
Colour:
– RAL 7035

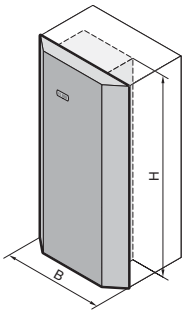
Supply includes:
– Climate control door without preconfigured cooling module
– 180° hinges, door opening angle approx. 130°

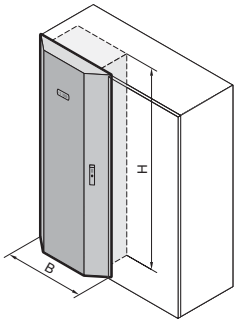
Note:
– To fit VX enclosures
– For 1200 mm wide VX enclosures, the existing hinged door may be used, irrespective of the device position (left or right)

Approvals:
Available on the Internet

for installing cooling modules







Model No.	Packs of	**3201.800**	**3201.810**	**3201.820**	**3201.830**	**3201.840**	**3201.850**	Page
Dimensions to fit enclosure type		VX	VX	VX	VX	VX	VX	
with height mm		1800	2000	1800	2000	1800	2000	
with width mm		600 1200	600 1200	800	800	600 1200	600 1200	
Unit positioned on the left		–	–	–	–	■	■	
Note on Model No.		R/h door hinge	R/h door hinge	R/h door hinge	R/h door hinge	L/h door hinge	L/h door hinge	
Weight kg		19.0	20.0	27.0	31.0	19.0	22.0	
Also required								
Modular climate control concept - cooling module Blue e		see page	see page	see page	see page	see page	see page	506
Accessories								
Metal filter	1 pc(s).	3284.210	3284.210	3284.210	3284.210	3284.210	3284.210	534
Comfort handle VX	1 pc(s).	8618.250	8618.250	8618.250	8618.250	8618.250	8618.250	937
Ride-up roller	10 pc(s).	–	8618.420	–	8618.420	–	8618.420	956

Rittal – The System.

Faster – better – everywhere.

Liquid cooling

Air/water heat exchangers

Wall-mounted ..... 300 – 600 W 510
Wall-mounted ..... 950 – 1250 W 511
Wall-mounted ..... 2000 – 2800 W 512
Wall-mounted ..... 3000 W 512
Wall-mounted ..... 4500 – 5000 W 513
Wall-mounted ..... 7000 W 514
Wall-mounted HD ..... 600 – 1200 W 515
Roof-mounted ..... 1875 – 3000 W 516
Roof-mounted ..... 4000 W 517

Liquid Cooling Package

LCP Rack Industry ..... 10000 W 518

Chillers

TopTherm, roof-mounted ..... 1000 – 1500 W 519

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Blue e+ ..... 2500 – 5500 W 522

Product advantages 524
Blue e ..... 11000 – 15000 W 526
Blue e ..... 20000 – 25000 W 527

VX25 TopTherm ..... 8000 – 12000 W 528
VX25 TopTherm ..... 16000 – 25000 W 529

DGUV Test

NV 17040

Hygiene geprüft
hygiene tested

dguv.de/pruefzeichen

The DGUV test certificate applies to HD air/water heat exchangers.

Air/water heat exchangers

Accessories for climate control Page 533 **Chillers** Page 519 **Therm software** Page 558

For use in harsh environments and temperature ranges up to +70 °C. User-friendly assembly plus flexible water connection options. External mounting or full internal mounting are supported.

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 55

Cooling medium:
– Water (see Internet for specifications)

Supply includes:
– Fully wired ready for connection
– Drilling template
– Sealing and assembly parts

Note:
– Integral non-return valve for version with e-Comfort controller

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Output class 300 – 600 W, wall-mounted

Model No.		Packs of	**3212.024**	**3212.230**	**3363.100**	**3363.500**	**3214.100**	Page
Design	Water-carrying parts, copper/brass (Cu/CuZn)		■	■	■	■	■	
Temperature control	Basic controller (factory setting +35 °C)		–	–	■	–	–	
	e-Comfort controller (factory setting +35 °C)		–	–	–	■	–	
	Thermostat-controlled magnetic valve		–	–	–	–	■	
Total cooling output L35 W10, 200 l/h kW			**0.3**	**0.3**	–	–	**0.6**	
Total cooling output L35 W10, 400 l/h kW			–	–	**0.5**	**0.5**	**0.7**	
Power consumption P_{el} 50/60 Hz W			–	23 / 27	37 / 38	37 / 38	36 / 37	
Power consumption P_{el} W			26	–	–	–	–	
Rated operating voltage V			24 (DC)	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Width mm			150	150	280	280	200	
Height mm			300	300	550	550	500	
Depth mm			85	85	120	120	100	
Rated current max. A			1.2	0.11 / 0.13	0.18 / 0.18	0.18 / 0.18	0.17 / 0.18	
Operating temperature range			+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	
Setting range			–	–	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Water inlet temperature			+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	
Water connection	½" connector sleeve		–	–	■	■	■	
	G ⅜" external thread		–	–	■	■	–	
	⅜" connector sleeve		■	■	–	–	–	
Permissible operating pressure (p) bar			1 - 10	1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), Internal circuit 50/60 Hz m^3/h			–	280 / 310	290 / 345	290 / 345	280 / 310	
Air throughput of fans (unimpeded air flow), Internal circuit with DC m^3/h			250	–	–	–	–	
Weight as delivered kg			3.2	3.2	8.0	8.0	7.0	
Accessories								
Condensate hose		1 pc(s).	3301.610	3301.610	3301.612	3301.612	3301.612	544
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	1024
Toroidal transformer			–	see page	see page	see page	see page	550
Flow regulator valve			see page	see page	see page	see page	see page	545

Output class 950 – 1250 W, wall-mounted

Model No.		Packs of	**3364.504**	**3364.100**	**3364.500**	**3215.100**	Page
Design	Water-carrying parts, copper/brass (Cu/CuZn)		–	■	■	■	
	Water-carrying parts, stainless steel (1.4571)		■	–	–	–	
Temperature control	Basic controller (factory setting +35 °C)		–	■	–	–	
	e-Comfort controller (factory setting +35 °C)		■	–	■	–	
	Thermostat-controlled magnetic valve		–	–	–	■	
Total cooling output L35 W10, 200 l/h kW			–	–	–	**1.25**	
Total cooling output L35 W10, 400 l/h kW			**0.95**	**1**	**1**	**1.3**	
Power consumption P_{el} 50/60 Hz W			37 / 38	37 / 38	37 / 38	83 / 85	
Power consumption P_{el}			–	–	–	–	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Width mm			280	280	280	200	
Height mm			550	550	550	950	
Depth mm			120	120	120	100	
Rated current max. A			0.18 / 0.18	0.18 / 0.18	0.18 / 0.18	0.38 / 0.4	
Operating temperature range			+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Water inlet temperature			+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	
Water connection	½" connector sleeve		■	■	■	■	
	G ⅜" external thread		■	■	■	–	
Permissible operating pressure (p) bar			1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), Internal circuit 50/60 Hz m^3/h			290 / 345	290 / 345	290 / 345	680 / 735	
Air throughput of fans (unimpeded air flow), Internal circuit with DC			–	–	–	–	
Weight as delivered kg			9.0	9.0	9.0	13.0	
Accessories							
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	3301.612	544
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Toroidal transformer			see page	see page	see page	see page	550
Flow regulator valve			see page	see page	see page	see page	545

Air/water heat exchangers

Output class 2000 – 2800 W, wall-mounted

Model No.		Packs of	**3373.100**	**3373.140**	**3373.500**	**3374.504**	Page
Design	Water-carrying parts, copper/brass (Cu/CuZn)		■	■	■	–	
	Water-carrying parts, stainless steel (1.4571)		–	–	–	■	
Temperature control	Basic controller (factory setting +35 °C)		■	■	–	–	
	e-Comfort controller (factory setting +35 °C)		–	–	■	■	
Total cooling output L35 W10, 200 l/h			–	–	–	–	
Total cooling output L35 W10, 400 l/h kW			**2**	**2**	**2**	**2.8**	
Power consumption P_{el} 50/60 Hz W			110 / 140	110 / 140	110 / 140	169 / 232	
Power consumption P_{el}			–	–	–	–	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	400, 2~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Width mm			400	400	400	400	
Height mm			950	950	950	950	
Depth mm			145	145	145	145	
Rated current max. A			0.49 / 0.61	0.28 / 0.35	0.49 / 0.61	0.76 / 1.01	
Operating temperature range			+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Water inlet temperature			+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	
Water connection	½" connector sleeve		■	■	■	■	
	G ⅜" external thread		■	■	■	■	
Permissible operating pressure (p) bar			1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), Internal circuit 50/60 Hz m^3/h			880 / 950	880 / 950	880 / 950	1150 / 1300	
Air throughput of fans (unimpeded air flow), Internal circuit with DC			–	–	–	–	
Weight as delivered kg			20.0	23.0	20.0	23.0	
Accessories							
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	3301.612	544
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Toroidal transformer			–	–	–	–	550
Flow regulator valve			see page	see page	see page	see page	545

Output class 3000 W, wall-mounted

Model No.		Packs of	**3374.100**	**3374.140**	**3374.500**	**3374.540**	Page
Design	Water-carrying parts, copper/brass (Cu/CuZn)		■	■	■	■	
Temperature control	Basic controller (factory setting +35 °C)		■	■	–	–	
	e-Comfort controller (factory setting +35 °C)		–	–	■	■	
Total cooling output L35 W10, 200 l/h			–	–	–	–	
Total cooling output L35 W10, 400 l/h kW			**3**	**3**	**3**	**3**	
Power consumption P_{el} 50/60 Hz W			169 / 232	169 / 232	169 / 232	169 / 232	
Power consumption P_{el}			–	–	–	–	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	400, 2~, 50/60	230, 1~, 50/60	400, 2~, 50/60	
Width mm			400	400	400	400	
Height mm			950	950	950	950	
Depth mm			145	145	145	145	
Rated current max. A			0.76 / 1.01	0.44 / 0.58	0.76 / 1.01	0.44 / 0.58	
Operating temperature range			+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Water inlet temperature			+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	
Water connection	½" connector sleeve		■	■	■	■	
	G ⅜" external thread		■	■	■	■	
Permissible operating pressure (p) bar			1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), Internal circuit 50/60 Hz m^3/h			1150 / 1300	1150 / 1300	1150 / 1300	1150 / 1300	
Air throughput of fans (unimpeded air flow), Internal circuit with DC			–	–	–	–	
Weight as delivered kg			23.0	26.0	23.0	26.0	
Accessories							
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	3301.612	544
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Toroidal transformer			–	–	–	–	550
Flow regulator valve			see page	see page	see page	see page	545

Output class 4500 – 5000 W, wall-mounted

Model No.		Packs of	**3375.504**	**3375.100**	**3375.500**	**3375.540**	Page
Design	Water carrying parts copper/brass (Cu/CuZn)		–	■	■	■	
	Water-carrying parts, stainless steel (1.4571)		■	–	–	–	
Temperature control	Basic controller (factory setting +35 °C)		–	■	–	–	
	e-Comfort controller (factory setting +35 °C)		■	–	■	■	
Total cooling output L35 W10, 200 l/h			–	–	–	–	
Total cooling output L35 W10, 400 l/h kW			**4.5**	**5**	**5**	**5**	
Power consumption P_{el} 50/60 Hz W			172 / 172	172 / 172	172 / 172	183 / 183	
Power consumption P_{el}			–	–	–	–	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	400, 2~, 50/60	
Width mm			450	450	450	450	
Height mm			1400	1400	1400	1400	
Depth mm			220	220	220	220	
Rated current max. A			1.45 / 1.45	1.45 / 1.45	1.45 / 1.45	0.8 / 0.8	
Operating temperature range			+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Water inlet temperature			+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	
Water connection	½" connector sleeve		■	■	■	■	
	G ⅜" external thread		■	■	■	■	
Permissible operating pressure (p) bar			1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), Internal circuit 50/60 Hz m^3/h			1500 / 1500	1500 / 1500	1500 / 1500	1500 / 1500	
Air throughput of fans (unimpeded air flow), Internal circuit with DC			–	–	–	–	
Weight as delivered kg			39.0	39.0	39.0	42.0	
Accessories							
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	3301.612	544
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Toroidal transformer			–	–	–	–	550
Flow regulator valve			see page	see page	see page	see page	545

Air/water heat exchangers

Accessories for climate control Page 533 **Chillers** Page 519 **Therm software** Page 558

For use in harsh environments and temperature ranges up to +70 °C. With thermostatically controlled magnetic valve.

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 55

Cooling medium:
– Water (see Internet for specifications)

Supply includes:
– Fully wired ready for connection (plug-in terminal strip)
– Drilling template
– Sealing and assembly parts

Note:
– Use 3-pole miniature circuit-breaker

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Output class 7000 W, wall-mounted

Model No.		Packs of	**3216.480**	Page
Temperature control	Thermostat-controlled magnetic valve		■	
Total cooling output L35 W10, 500 l/h kW			**7**	
Total cooling output L35 W20, 500 l/h kW			**4.5**	
Rated operating voltage V, ~, Hz			400, 3~, 50/60 480, 3~, 60	
Width mm			450	
Height mm			1800	
Depth mm			300	
Rated current max. A			1.4 / 1.6	
Operating temperature range			+1 °C...+70 °C	
Setting range			+20 °C...+55 °C	
Water inlet temperature			+1 °C...+30 °C	
Water connection	½" connector sleeve		■	
	G ⅜" external thread		■	
Permissible operating pressure (p) bar			1 - 10	
Air throughput of fans (unimpeded air flow), Internal circuit 50/60 Hz m^3/h			4075 / 4840	
Weight as delivered kg			79.0	
Accessories				
Door-operated switch		1 pc(s).	4127.010	1024
Condensate hose		1 pc(s).	3301.612	544
Flow regulator valve			see page	545
Connection set		1 pc(s).	3201.990	545
Cooling medium (ready-mixed)			see page	545

Accessories for climate control Page 533 **Chillers** Page 519 **Therm software** Page 558 **Hygienic Design HD** Page 217

Air/water heat exchanger for hygienically sensitive production zones in the food and consumables industry – the optimum addition to the Rittal Hygienic Design range. The cleaning-friendly design reduces the risk of contamination and ensures food safety.

Benefits:
- Easy-to-clean, hygienic design
- A roof tilt of 30° prevents objects from being deposited on it, and allows liquids to run off quickly
- All-round external, replaceable silicone seal prevents the accumulation of dirt between the enclosure and the air/water heat exchanger

Material:
- Enclosure: Stainless steel 1.4301 (AISI 304)

Surface finish:
- Enclosure: Brushed, grain 400, peak-to-valley height < 0.8 µm

Protection category IP to IEC 60 529:
- IP 56/59

Protection category NEMA:
- NEMA 4X

Cooling medium:
- Water (see Internet for specifications)

Supply includes:
- Fully wired ready for connection
- Drilling template
- Sealing and assembly parts

Note:
- To achieve a protection category of IP 66/69 to IEC 60 529, the ingress of leakage air through the condensate discharge opening must be completely prevented

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Output class 600 – 1200 W, wall-mounted HD

Model No.		Packs of	**3214.700**	**3215.700**	Page
Temperature control	Thermostat-controlled magnetic valve		■	■	
Total cooling output L35 W10, 200 l/h kW			**0.6**	**1**	
Total cooling output L35 W10, 400 l/h kW			**0.65**	**1.2**	
Power consumption P_{el} 50/60 Hz W			33 / 34	77 / 104	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	
Width mm			220	215	
Height mm			526	982	
Depth mm			100	100	
Rated current max. A			0.16 / 0.14	0.38 / 0.47	
Operating temperature range			+1 °C...+70 °C	+1 °C...+70 °C	
Setting range			+20 °C...+60 °C	+20 °C...+60 °C	
Water inlet temperature			+1 °C...+30 °C	+1 °C...+30 °C	
Water connection	G ⅜" external thread		■	■	
Permissible operating pressure (p) bar			1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), Internal circuit 50/60 Hz m^3/h			280 / 310	680 / 735	
Weight as delivered kg			6.0	14.0	
Accessories					
Toroidal transformer			see page	see page	550
Cooling medium (ready-mixed)			see page	see page	545

Air/water heat exchangers

Accessories for climate control Page 533 **Chillers** Page 519 **Air routing** Page 540

For use in harsh environments and temperature ranges up to +70 °C. The air/water heat exchanger is assembled on the roof of the enclosure using flexible water connection options.

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 55

Cooling medium:
– Water (see Internet for specifications)

Supply includes:
– Fully wired ready for connection (plug-in terminal strip)
– Drilling template
– Sealing mat
– Assembly parts

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Output class 1875 – 3000 W, roof-mounted

Model No.		Packs of	**3209.504**	**3209.100**	**3209.500**	**3210.504**	Page
Design	Water-carrying parts, copper/brass (Cu/CuZn)		–	■	■	–	
	Water-carrying parts, stainless steel (1.4571)		■	–	–	■	
Temperature control	Basic controller (factory setting +35 °C)		–	■	–	–	
	e-Comfort controller (factory setting +35 °C)		■	–	■	■	
Total cooling output L35 W10, 400 l/h kW			**1.87**	**2.5**	**2.5**	**3**	
Power consumption P_{el} 50/60 Hz W			95 / 110	95 / 110	95 / 110	100 / 120	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Width mm			597	597	597	597	
Height mm			417	417	417	417	
Depth mm			475	475	475	475	
Rated current max. A			0.4 / 0.48	0.4 / 0.48	0.4 / 0.48	0.44 / 0.5	
Operating temperature range			+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Water inlet temperature			+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	
Water connection	½" connector sleeve		■	■	■	■	
	G ⅜" external thread		■	■	■	■	
Permissible operating pressure (p) bar			1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), Internal circuit 50/60 Hz m^3/h			925 / 1030	925 / 1030	925 / 1030	815 / 925	
Weight as delivered kg			23.5	23.5	23.5	25.5	
Accessories							
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	1024
Master/slave cable		1 pc(s).	3124.100	–	3124.100	3124.100	550
Air duct system		1 pc(s).	3286.870	3286.870	3286.870	3286.870	540
Stoppers		2 pc(s).	3286.880	3286.880	3286.880	3286.880	542
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	3301.612	544
Cooling medium (ready-mixed)			see page	see page	see page	see page	545

Output class 4000 W, roof-mounted

Model No.		Packs of	**3210.100**	**3210.500**	**3210.540**	Page
Design	Water-carrying parts, copper/brass (Cu/CuZn)		■	■	■	
Temperature control	Basic controller (factory setting +35 °C)		■	–	–	
	e-Comfort controller (factory setting +35 °C)		–	■	■	
Total cooling output L35 W10, 400 l/h kW			**4**	**4**	**4**	
Power consumption P_{el} 50/60 Hz W			100 / 120	100 / 120	102 / 125	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	400, 2~, 50/60	
Width mm			597	597	597	
Height mm			417	417	417	
Depth mm			475	475	475	
Rated current max. A			0.44 / 0.5	0.44 / 0.5	0.25 / 0.3	
Operating temperature range			+1 °C...+70 °C	+1 °C...+70 °C	+1 °C...+70 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	+20 °C...+55 °C	
Water inlet temperature			+1 °C...+30 °C	+1 °C...+30 °C	+1 °C...+30 °C	
Water connection	½" connector sleeve		■	■	■	
	G ⅜" external thread		■	■	■	
Permissible operating pressure (p) bar			1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), Internal circuit 50/60 Hz m^3/h			815 / 925	815 / 925	815 / 925	
Weight as delivered kg			25.5	25.5	29.5	
Accessories						
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	1024
Master/slave cable		1 pc(s).	–	3124.100	3124.100	550
Air duct system		1 pc(s).	3286.870	3286.870	3286.870	540
Stoppers		2 pc(s).	3286.880	3286.880	3286.880	542
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	544
Cooling medium (ready-mixed)			see page	see page	see page	545

Liquid Cooling Package

Accessories for climate control Page 533 **Chillers** Page 519 **Therm software** Page 558

Air/water heat exchanger in the bayed enclosure system VX25. To fit 600 or 800 mm deep and 2,000 mm high VX25 enclosures. Air outlet either with 5 kW on each side or 10 kW on one side only. Flexible options for water connection on the top or bottom of the unit.

Temperature control:
– e-Comfort controller (factory setting +35 °C)

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 55

Cooling medium:
– Water (see Internet for specifications)

Supply includes:
– Cooling unit ready for connection, wired to terminal strip
– Front door with display
– Rear panel
– Multilingual documentation

Note:
– Bayable by screw-fastening at the sides

Approvals:
Available on the Internet

Performance diagrams:
Available on the Internet

Output class 10000 W, LCP rack industry

Model No.		Packs of	**3378.300**	**3378.380**	Page
Design	Water-carrying parts, copper/brass (Cu/CuZn)		■	■	
Total cooling output L35 W10, 2000 l/h kW			**9.5**	**9.5**	
Power consumption P_{el} 50/60 Hz W			350 / 350	350 / 350	
Rated operating voltage V, ~, Hz			230, 1~, 50/60	230, 1~, 50/60	
Width mm			300	300	
Height mm			2000	2000	
Depth mm			600	800	
Rated current max. A			2.65 / 2.62	2.65 / 2.62	
Operating temperature range			+5 °C...+70 °C	+5 °C...+70 °C	
Setting range			+20 °C...+55 °C	+20 °C...+55 °C	
Water inlet temperature			+7 °C...+30 °C	+7 °C...+30 °C	
Water connection	G ¾" internal thread		■	■	
Permissible operating pressure (p) bar			1 - 6	1 - 6	
Air throughput of fans (unimpeded air flow), Internal circuit 50/60 Hz m^3/h			1950 / 1950	1950 / 1950	
Weight as delivered kg			106.0	115.0	
Accessories					
Base/plinth corner piece with base/plinth trim panels, front and rear, 100 mm		2 pc(s).	8640.000	8640.000	881
Base/plinth trim panels, sides, 100 mm		2 pc(s).	8640.033	8640.034	882
Base/plinth corner piece with base/plinth trim panels, front and rear, 200 mm		2 pc(s).	8640.020	8640.020	881
Base/plinth trim panels, sides, 200 mm		2 pc(s).	8640.043	8640.044	882
Baying connector, external		6 pc(s).	8617.502	8617.502	912
Side panel, screw-fastened, sheet steel		2 pc(s).	8106.245	8108.245	901
Condensate hose		1 pc(s).	3301.612	3301.612	544
EC speed control		1 pc(s).	3235.440	3235.440	548
Comfort handle VX		1 pc(s).	8618.250	8618.250	937
Master/slave cable		1 pc(s).	3124.100	3124.100	550
Cooling medium (ready-mixed)			see page	see page	545

Accessories for climate control Page 533 **Chiller configurator** Page 558

Design:
- Compact, modular layout of the refrigeration components
- Nano-coated condenser
- Pump to convey the medium

Benefits:
- Precise temperature control, based on microprocessor technology
- Collective fault signal with floating contact
- One version for two frequencies = international compatibility

Temperature control:
- Microcontroller control (factory setting +20 °C)

Colour:
- RAL 7035

Protection category IP to IEC 60 529:
- IP 44 (electrics)

Supply includes:
- Complete unit ready for connection
- Multilingual documentation including functional diagram and wiring plans

Characteristic curves of pump:
Available on the Internet

Approvals:
Available on the Internet

Output class 1000 – 1500 W

Model No.	Packs of	**3318.610**	**3319.610**	Page
Total cooling output at T_w = 10 °C/T_u = 32 °C kW		0.8 / 0.9	1.2 / 1.3	
Total cooling output at T_w = 18 °C/T_u = 32 °C kW		**1 / 1.1**	**1.5 / 1.7**	
Power consumption P_{el} 50/60 Hz kW		0.69 / 1.07	0.86 / 0.99	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	230, 1~, 50/60	
Width mm		600	600	
Height mm		400	400	
Depth mm		455	455	
Rated current max. A		5.1 / 5.6	5.7 / 5.6	
Operating temperature range		+10 °C...+43 °C	+10 °C...+43 °C	
Refrigerant g		R134a, 975	R134a, 975	
Water connection G ½" internal thread		■	■	
Pump pressure bar		2.5	2.5	
Volumetric flow (cooling medium) l/min		4 / 6	4 / 6	
Air throughput of fans (unimpeded air flow), 50/60 Hz m^3/h		900 / 900	900 / 900	
Temperature hysteresis		± 2 K	± 2 K	
Temperature of liquid		+10 °C...+30 °C	+10 °C...+30 °C	
Water circuit version		hermetically open	hermetically open	
Tank		PP plastic	PP plastic	
Tank capacity l		2.5	2.5	
Weight as delivered kg		48.0	51.0	
Also required				
Cooling medium (ready-mixed)		see page	see page	545
Accessories				
Metal filter	1 pc(s).	3286.510	3286.510	534

Blue e+ chillers with the e+ principle

Forward-looking climate control

- Active cooling circuit with speed-controlled components for demand-based cooling
- High control accuracy thanks to DC inverter technology with two regulating modes
- Excellent operational reliability thanks to integrated flow sensor, overflow valve and electronic fill level monitoring
- Temperature limits from -5 °C to +50 °C
- 55% less refrigerant thanks to the use of microchannel technology
- Energy savings of up to 70%

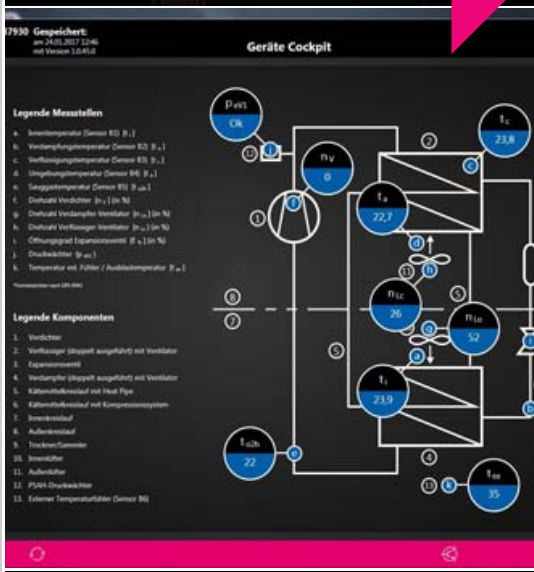
Intelligent networking

- In conjunction with the IoT interface, all Blue e+ chillers can now be networked and digitalised

  The benefits for you:
  – Continuous monitoring of temperature accuracy
  – Avoidance of downtime costs and consequential damage
  – Temperature records and energy efficiency analyses
  – Enhanced process reliability

Easier to operate

- Fast unit analysis using RiDiag III software via the USB port
- Fast parameterisation, data reading and plain-text system messages via the intelligent, multilingual, industry-grade display (21 languages pre-installed)



Maximum flexibility with assembly and siting

- Simple plug & play assembly
- Identical footprint for all performance classes
- Eyebolts for easier transportation
- Service-friendly thanks to optimum accessibility of all components
- Easy replacement of components

For global use

- One device for all voltages and networks:
  – 380 to 415 V, 3~, 50 Hz
  – 440 to 480 V, 3~, 60 Hz
- International approvals:
  cULus Listed, EAC, CB-Report
- Pre-configured option packages

Chillers Blue e+

Accessories for climate control Page 533 **Chiller configurator** Page 558 **IoT interface** Page 554

Benefits:
- Blue e+ chillers ensure centralised and efficient cooling of liquid media with a high level of temperature accuracy and innovative DC inverter technology
- Suitable for international use thanks to its unique multi-voltage capability (without rewiring) and high operating limits
- Maximum reliability thanks to integral overflow valve and monitoring sensors
- Intuitive operation due to touch display and intelligent interfaces
- Compact and modular layout ensures minimum footprint
- Pumps with highly efficient IE3 motors

Temperature control:
- e+ controller (factory setting +20 °C)

Colour:
- Textured RAL 7035

Protection category IP to IEC 60 529:
- IP 24

Supply includes:
- Complete unit ready for connection (plug-in terminal strip)
- Multilingual documentation

Optional:
- For remote monitoring and networking of cooling units and chillers in the Blue e+ generation, please use the IoT interface (Model No. 3124.300). Increase machine availability and process reliability with remote monitoring of device data, statuses and system messages.

Approvals:
Available on the Internet

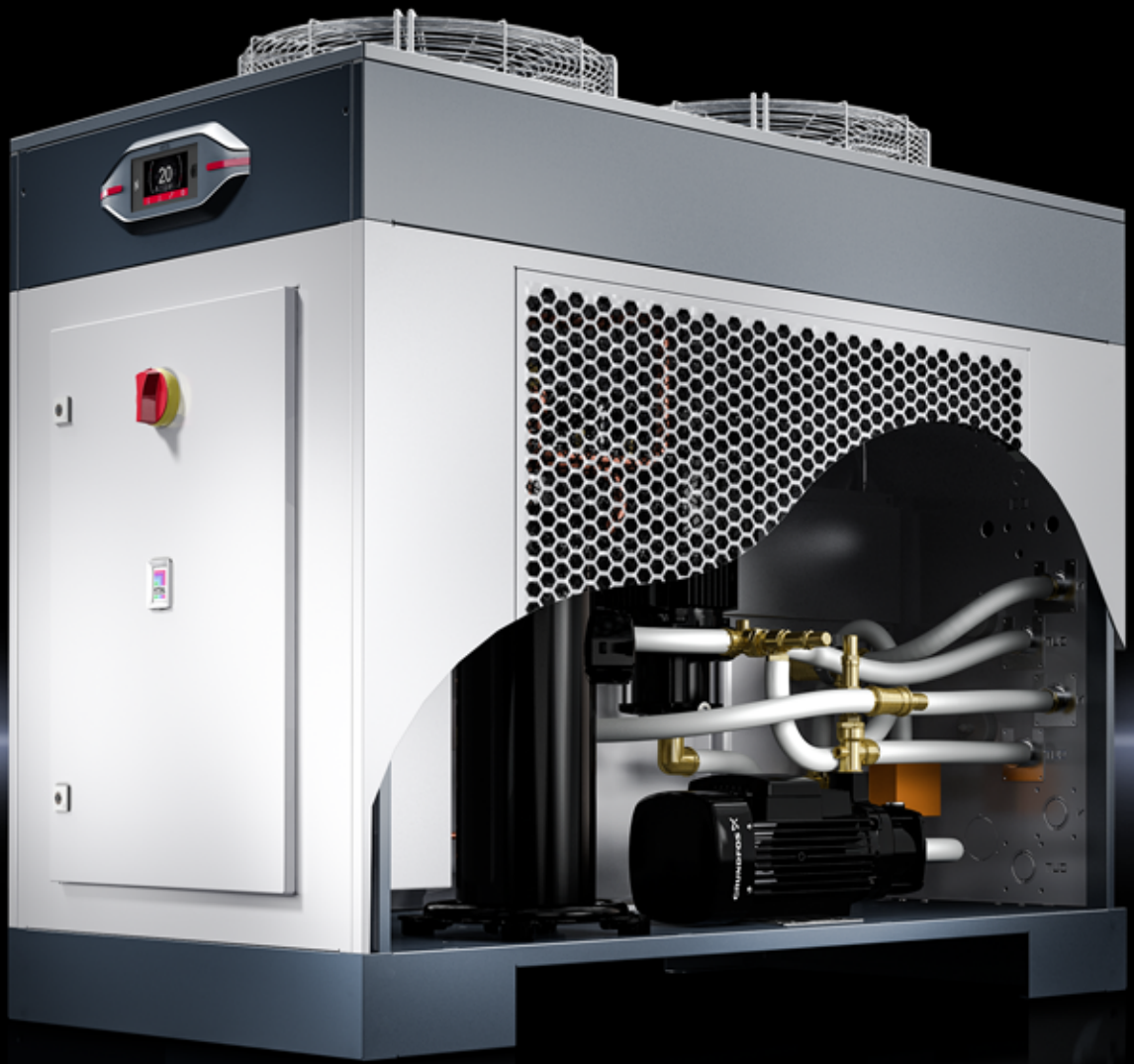
Performance diagrams:
Available on the Internet

Output class 2500 – 5500 W

Model No.		Packs of	3320.200	3334.300	3334.400	Page
Total cooling output at T_w = 18 °C/T_u = 35 °C to DIN EN 14511 kW			**2.5 / 2.4**	**4 / 3.9**	**5.5 / 5.4**	
Power consumption P_{el} 50/60 Hz kW			1.38 / 1.57	2.49 / 2.72	2.49 / 2.72	
Rated operating voltage V, ~, Hz			380 - 415, 3~, 50 440 - 480, 3~, 60	380 - 415, 3~, 50 440 - 480, 3~, 60	380 - 415, 3~, 50 440 - 480, 3~, 60	
Width mm			450	450	450	
Height mm			820	820	1000	
Depth mm			710	710	710	
Rated current max. A			2.17 / 1.95	3.95 / 3.47	3.95 / 3.47	
Operating temperature range			-5 °C...+50 °C	-5 °C...+50 °C	-5 °C...+50 °C	
Refrigerant g			R134a, 460	R134a, 760	R134a, 930	
Water connection	¾" internal thread		■	■	■	
Pump pressure bar			2.4	2.9	2.9	
Volumetric flow (cooling medium) l/min			7 / 25	15 / 30	15 / 30	
Temperature hysteresis			± 0.5 K	± 0.5 K	± 0.5 K	
Temperature of liquid			+5 °C...+35 °C	+5 °C...+35 °C	+5 °C...+35 °C	
Water circuit version			hermetically open	hermetically open	hermetically open	
Tank			PE plastic	PE plastic	PE plastic	
Tank capacity l			12	12	12	
Weight as delivered kg			84.0	90.0	96.0	
Also required						
Cooling medium (ready-mixed)			see page	see page	see page	545
Accessories						
Filter mat for cooling units, air/air heat exchangers and chillers		3 pc(s).	3285.920	3285.920	3285.900	533
Filter mat for Blue e+ chillers (inverter housings)		3 pc(s).	3285.940	3285.940	3285.940	533
Metal filter		1 pc(s).	3285.930	3285.930	3285.910	534
IoT interface		1 pc(s).	3124.300	3124.300	3124.300	554
RiDiag		1 pc(s).	3159.300	3159.300	3159.300	559
Temperature sensor		1 pc(s).	3124.400	3124.400	3124.400	549
Cross member		2 pc(s).	8601.680	8601.680	8601.680	891
Levelling feet		4 pc(s).	4612.000	4612.000	4612.000	892
Twin castors		1 pc(s).	6148.000	6148.000	6148.000	893
Flow regulator valve			see page	see page	see page	545

Blue e chillers

Targeted cooling output with exceptional efficiency



Simple user prompting

- Fast parameterisation, data reading and plain-text system messages via the intelligent, multilingual, industry-grade touch display
- Prioritised error messages with three escalation levels (warning, error, maintenance)

Targeted climate control

- Central activation of the fan and compressor via a digital controller
- Hysteresis with precision controller (HGBP) ± 0.25 K

Sustainably eco-friendly

- 40% less refrigerant thanks to the use of microchannel technology
- No galvanic corrosion, as the microchannel heat exchanger is made from 100% aluminium

Simple assembly

- Plug & play
- Fully wired ready for connection
- Service-friendly thanks to optimum accessibility of all components

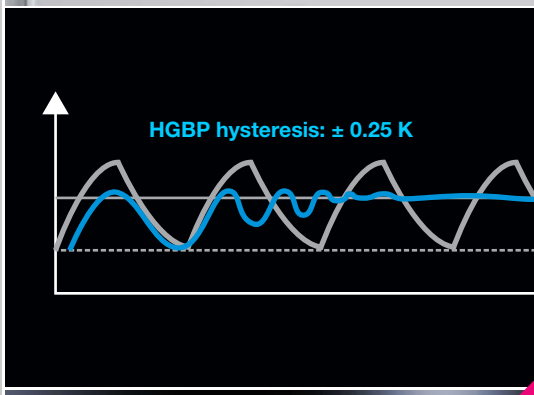
Integral safety functions

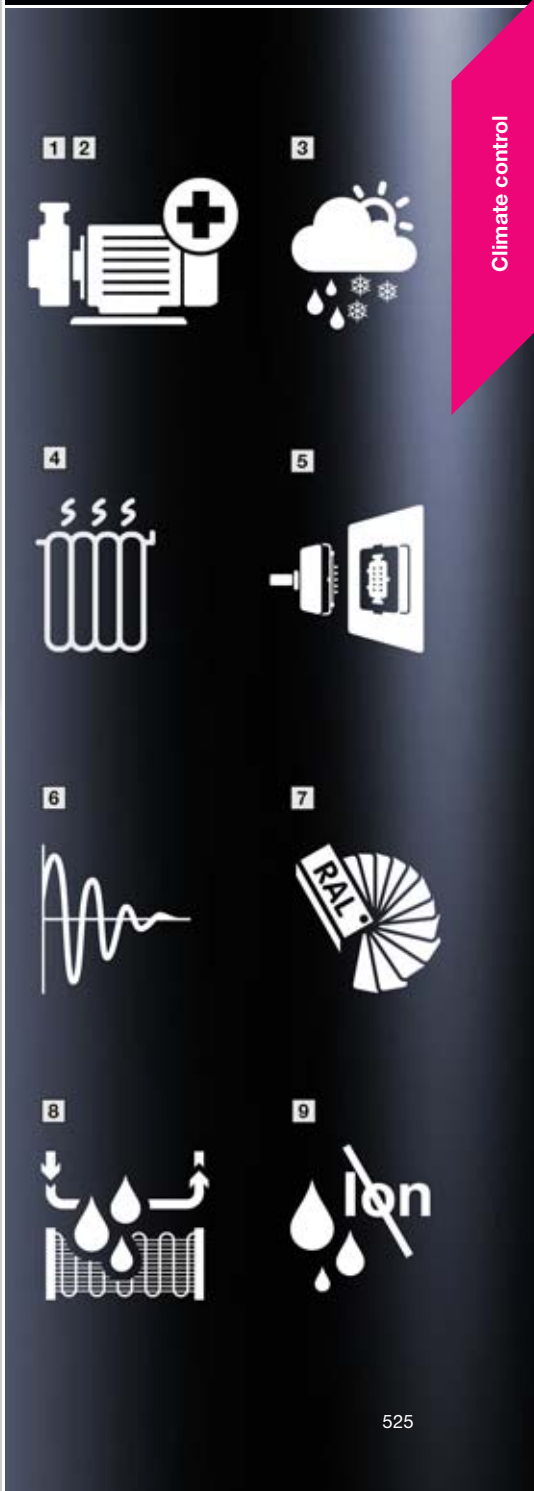
- Integral overflow valves
- Fill level monitoring
- Flow monitor

Pre-configured options (also available as add-on packages)

- For shorter delivery times and a simplified ordering process

1 Increased-output pump (4 and 6 bar)
2 Pumps: Multi-circuit systems
3 Outdoor (up to -20 °C)
4 Heater
5 Industrial connector
6 Precision controller (HGBP)
7 Special spray finish
8 Water-cooled condenser
9 Laser application





Chillers Blue e

Accessories for climate control Page 533 **Cooling medium** Page 545

Design:
- Robust industrial standard
- Variable air routing is possible via the l/h or r/h side panel
- Floating contact for collective fault signal

Benefits:
- Reduced volume of refrigerant, thanks to microchannel technology
- Touch display for simplified user guidance
- Intelligent interfaces
- Integral safety functions
- Pre-configured options

Colour:
- Enclosure: RAL 7035
- Base/plinth: RAL 7016

Protection category IP to IEC 60 529:
- IP 44 (electrics)

Supply includes:
- Chiller wired ready for connection
- Multilingual documentation including functional diagram and wiring plans

Approvals:
Available on the Internet

Output class 11000 – 15000 W

Model No.	Packs of	**3336.400**	**3336.405**	**3336.410**	**3336.415**	Page
Total cooling output at T_w = 10 °C/T_u = 32 °C kW		10.2 / 11.7	10.2 / 11.7	12.2 / 12.3	12.2 / 12.3	
Total cooling output at T_w = 18 °C/T_u = 32 °C kW		**11.8 / 13.2**	**11.8 / 13.2**	**14.3 / 14.8**	**14.3 / 14.8**	
Power consumption P_{el} 50/60 Hz kW		6.3 / 8.8	6.3 / 8.8	7.02 / 8.75	7.7 / 9.9	
Rated operating voltage V, ~, Hz		400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Width mm		660	660	660	660	
Height mm		1265	1265	1265	1265	
Depth mm		1315	1315	1315	1315	
Rated current max. A		10.2 / 11.3	11.1 / 13.1	12.9 / 12.9	13.8 / 14.65	
Performance-enhanced pump		–	■	–	■	
Control voltage 24 V DC		–	■	–	■	
Precision controller		–	■	–	■	
Operating temperature range		+10 °C...+43 °C	+10 °C...+43 °C	+10 °C...+43 °C	+10 °C...+43 °C	
Refrigerant g		R410a, 1350	R410a, 1350	R410a, 1350	R410a, 1350	
Water connection R 1" internal thread		■	■	■	■	
Pump pressure bar		2 / 2	5 / 7	2 / 2	5 / 7	
Volumetric flow (cooling medium) l/min		30 / 55	30 / 55	35/ 55	35/ 55	
Air throughput of fans (unimpeded air flow), 50/60 Hz m^3/h		6000 / 7200	6000 / 7200	6000 / 7200	6000 / 7200	
Temperature hysteresis		± 2 K	± 0.25 K	± 2 K	± 0.25 K	
Temperature of liquid		+10 °C...+25 °C	+10 °C...+25 °C	+10 °C...+25 °C	+10 °C...+25 °C	
Tank		PE plastic	PE plastic	PE plastic	PE plastic	
Tank capacity l		49	49	49	49	
Weight as delivered kg		247.0	247.0	253.0	253.0	
Accessories						
Cooling medium (ready-mixed)		see page	see page	see page	see page	545
Metal filter	2 pc(s).	3286.560	3286.560	3286.560	3286.560	534

Output class 20000 – 25000 W

Model No.	Packs of	**3336.430**	**3336.435**	**3336.450**	**3336.455**	Page
Total cooling output at T_w = 10 °C/T_u = 32 °C kW		16.3 / 19.2	16.3 / 19.2	19.9 / 22.9	19.9 / 22.9	
Total cooling output at T_w = 18 °C/T_u = 32 °C kW		**19.3 / 22**	**19.3 / 22**	**24.4 / 26.3**	**24.4 / 26.3**	
Power consumption P_{el} 50/60 Hz kW		8.5 / 10.9	8.5 / 10.9	10.6 / 13.3	11.3 / 14.4	
Rated operating voltage V, ~, Hz		400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Width mm		760	760	760	760	
Height mm		1265	1265	1265	1265	
Depth mm		1515	1515	1515	1515	
Rated current max. A		19 / 15.9	19.9 / 17.2	21.7 / 22.4	22.6 / 24.1	
Performance-enhanced pump		–	■	–	■	
Control voltage 24 V DC		–	■	–	■	
Precision controller		–	■	–	■	
Operating temperature range		+10 °C...+43 °C	+10 °C...+43 °C	+10 °C...+43 °C	+10 °C...+43 °C	
Refrigerant g		R410a, 1450	R410a, 1450	R410a, 1450	R410a, 1450	
Water connection R 1¼" internal thread		■	■	■	■	
Pump pressure bar		2 / 2	4.75 / 6.75	2 / 2	4.5 / 6.7	
Volumetric flow (cooling medium) l/min		45 / 75	45 / 75	55 / 75	55 / 75	
Air throughput of fans (unimpeded air flow), 50/60 Hz m^3/h		12000 / 14500	12000 / 14500	12000 / 14500	12000 / 14500	
Temperature hysteresis		± 2 K	± 0.25 K	± 2 K	± 0.25 K	
Temperature of liquid		+10 °C...+25 °C	+10 °C...+25 °C	+10 °C...+25 °C	+10 °C...+25 °C	
Tank		PE plastic	PE plastic	PE plastic	PE plastic	
Tank capacity l		78	78	78	78	
Weight as delivered kg		310.0	310.0	326.0	326.0	
Accessories						
Cooling medium (ready-mixed)		see page	see page	see page	see page	545
Metal filter	2 pc(s).	3286.570	3286.570	3286.570	3286.570	534

VX25 TopTherm chillers

Accessories for climate control Page 533 **Chiller configurator** Page 558

TopTherm chillers in a VX25 enclosure with a small footprint are perfect for integrating into an enclosure suite. Their dual-frequency compatibility makes them extremely flexible. The microchannel technology reduces the volume of refrigerant required.

Benefits:
- Convenient servicing
- High reliability thanks to icing protection
- One version for two frequencies = international compatibility
- Reduced volume of refrigerant, thanks to microchannel technology
- Bayable by screw-fastening at the sides
- Integral safety functions

Temperature control:
- e-controller (factory setting +18 °C)

Colour:
- RAL 7035

Protection category IP to IEC 60 529:
- IP 44 (electrics)

Supply includes:
- Fully wired unit ready for connection with side panels and door

Note:
- Regular leak tests are not prescribed by law.

Characteristic curves of pump:
Available on the Internet

Approvals:
Available on the Internet

Output class 8000 – 12000 W

Model No.	Packs of	**3335.920**	**3335.930**	**3335.940**	Page
Total cooling output at T_w = 18 °C/T_u = 32 °C kW		**8 / 8.6**	**8 / 8.6**	**12 / 13.1**	
Power consumption P_{el} 50/60 Hz kW		4.34 / 5.22	4.65 / 5.71	6.35 / 7.31	
Rated operating voltage V, ~, Hz		400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Width mm		805	805	805	
Height mm		1700	2100	2140	
Depth mm		605	605	605	
Rated current max. A		8.4 / 7.5	9 / 8.3	9.9 / 10.8	
Operating temperature range		+10 °C...+43 °C	+10 °C...+43 °C	+10 °C...+43 °C	
Refrigerant g		R410a, 1200	R410a, 1200	R410a, 1400	
Water connection G 1" internal thread		■	■	■	
Pump pressure bar		2.5	2.5	2.5	
Volumetric flow (cooling medium) l/min		30 / 45	30 / 45	35 / 55	
Temperature hysteresis		± 2 K	± 2 K	± 2 K	
Temperature of liquid		+10 °C...+25 °C	+10 °C...+25 °C	+10 °C...+25 °C	
Tank capacity l		75	75	75	
Weight as delivered kg		242.0	248.0	282.0	
Accessories					
Metal filter	1 pc(s).	3286.650	3286.630	3286.630	
Cooling medium (ready-mixed)		see page	see page	see page	545
Flow regulator valve		see page	see page	see page	545
Comfort handle VX	1 pc(s).	8618.250	8618.250	8618.250	937
Twin castors	1 pc(s).	7495.000	7495.000	7495.000	893
Base/plinth corner piece with base/plinth trim panels, front and rear, 100 mm	2 pc(s).	8640.003	8640.003	8640.003	881
Base/plinth trim panels, sides, 100 mm	2 pc(s).	8640.033	8640.033	8640.033	882
Base/plinth corner piece with base/plinth trim panels, front and rear, 200 mm	2 pc(s).	8640.023	8640.023	8640.023	881
Base/plinth trim panels, sides, 200 mm	2 pc(s).	8640.043	8640.043	8640.043	882

Output class 16000 – 25000 W

Model No.	Packs of	3335.950	3335.960	3335.970	Page
Total cooling output at T_w = 18 °C/T_u = 32 °C kW		**16 / 17.6**	**20 / 21.8**	**25 / 27.6**	
Power consumption P_{el} 50/60 Hz kW		7.05 / 8.71	9.21 / 11.75	11.31 / 14.12	
Rated operating voltage V, ~, Hz		400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Width mm		805	1205	1205	
Height mm		2140	2140	2140	
Depth mm		605	605	605	
Rated current max. A		12.6 / 12.3	20.2 / 17.3	22.9 / 23.8	
Operating temperature range		+10 °C...+43 °C	+10 °C...+43 °C	+10 °C...+43 °C	
Refrigerant g		R410a, 1400	R410a, 1550	R410a, 1700	
Water connection G 1" internal thread		■	■	■	
Pump pressure bar		2.5	2.5	2.5	
Volumetric flow (cooling medium) l/min		35 / 65	45 / 75	50 / 85	
Temperature hysteresis		± 2 K	± 2 K	± 2 K	
Temperature of liquid		+10 °C...+25 °C	+10 °C...+25 °C	+10 °C...+25 °C	
Tank capacity l		75	150	150	
Weight as delivered kg		282.0	360.0	374.0	
Accessories					
Metal filter	1 pc(s).	3286.630	3286.640	3286.640	
Cooling medium (ready-mixed)		see page	see page	see page	545
Flow regulator valve		see page	see page	see page	545
Comfort handle VX	1 pc(s).	8618.250	8618.250	8618.250	937
Twin castors	1 pc(s).	7495.000	7495.000	7495.000	893
Base/plinth corner piece with base/plinth trim panels, front and rear, 100 mm	2 pc(s).	8640.003	8640.007	8640.007	881
Base/plinth trim panels, sides, 100 mm	2 pc(s).	8640.033	8640.033	8640.033	882
Base/plinth corner piece with base/plinth trim panels, front and rear, 200 mm	2 pc(s).	8640.023	8640.025	8640.025	881
Base/plinth trim panels, sides, 200 mm	2 pc(s).	8640.043	8640.043	8640.043	882

Enclosure heaters

Accessories for climate control Page 533 **Therm software** Page 558

Enclosure heaters to regulate relative humidity, prevent temperatures from dropping below the dew point and stop condensation forming inside the enclosure. This prevents consequential damage associated with corrosion or electrical short circuits.

Material:
– Aluminium, anodised

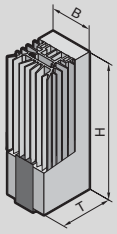
Protection category IP to IEC 60 529:
– IP 20

Protection class:
– II (all-insulated)

Supply includes:
– PTC heater
– Quick-connection terminal
– Assembly parts

Note:
– A thermostat is recommended for precise temperature control inside the enclosure
– In order to prevent condensation on assemblies, a hygrostat is recommended to regulate heating
– In larger enclosures, even heat distribution is best achieved by installing several low-output heaters

Approvals:
Available on the Internet



Continuous thermal output 10 – 150 W, without fan

Model No.	Packs of	**3105.310**	**3105.320**	**3105.330**	**3105.340**	**3105.350**	**3105.360**	**3105.370**	Page
Width (B) mm		45	45	64	64	64	90	90	
Height (H) mm		120	120	155	155	230	165	180	
Depth (T) mm		46	46	56	56	56	75	75	
Continuous thermal output at T_u = 10 °C W		**8 - 10**	**18 - 20**	**23 - 30**	**49 - 50**	**63 - 75**	**86 - 100**	**130 - 150**	
Rated operating voltage V, ~, Hz		110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	110 - 240, 1~, 50/60	
Accessories									
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	547
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	546
Bottom-mounted adaptor	1 pc(s).	3110.200	3110.200	3110.200	3110.200	3110.200	3110.200	3110.200	548

Accessories for climate control Page 533 **Therm software** Page 558

Enclosure heaters to regulate relative humidity, prevent temperatures from dropping below the dew point and stop condensation forming inside the enclosure. This prevents consequential damage associated with corrosion or electrical short circuits.

Material:
– Plastic

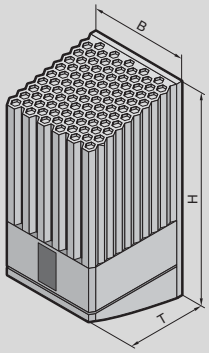
Protection category IP to IEC 60 529:
– IP 20

Protection class:
– II (all-insulated)

Supply includes:
– PTC heater with fan
– Assembly parts

Note:
– A thermostat is recommended for precise temperature control inside the enclosure
– In order to prevent condensation on assemblies, a hygrostat is recommended to regulate heating
– In larger enclosures, even heat distribution is best achieved by installing several low-output heaters

Approvals:
Available on the Internet



Continuous thermal output 235 – 800 W, with fan

Model No.	Packs of	**3105.410**	**3105.380**	**3105.420**	**3105.390**	**3105.430**	**3105.400**	Page
Width (B) mm		103	103	103	103	103	103	
Height (H) mm		200	200	200	200	200	200	
Depth (T) mm		103	103	103	103	103	103	
Continuous thermal output at T_u = 10 °C 50/60 Hz W		**235 / 250**	**250 / 265**	**355 / 400**	**400 / 415**	**710 / 800**	**800 / 870**	
Rated operating voltage V, ~, Hz		115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	
Accessories								
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	547
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	547
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	546

Innovative climate control accessories

Perfectly coordinated components customised to your requirements, from page 533

Filter mat

for tangential fans
Made of chopped-fibre mat with a progressive structure. Temperature-resistant to 100 °C, self-extinguishing category F1 to DIN 53 438. Dust-laden air side: Open structure. Clean-air side: Closed structure. Reliable filtering of virtually all types of dust from a particle size of 10 µm.

Material:
– Chemical fibres

For tangential fans/front outlet grilles 2 U

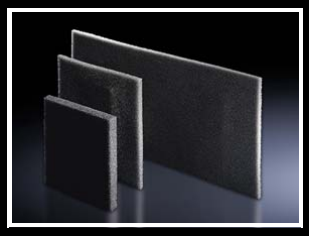
To fit Model No.	W x H x D mm	Packs of	Model No.
3144.000/ 3145.000/ 3176.000	425 x 85 x 8	5 pc(s).	**3177.000**

Filter mat

for cooling units, air/air heat exchangers and chillers
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



To fit Model No.	for cooling units	for air/air heat exchangers	for chillers	W x H x D mm	Packs of	Model No.
3320.200/3334.300	–	–	■	320 x 599 x 8	3 pc(s).	**3285.920**
3302.300/3303.310	■	–	–	190 x 95 x 10	3 pc(s).	**3286.110**
3273..../3382..../3383..../ 3384..../3385..../3359..../ 3301.800	■	–	–	530 x 255 x 10	3 pc(s).	**3286.500**
3386..../3387....	■	–	–	720 x 300 x 10	3 pc(s).	**3286.600**
3185.830/3185.530	■	–	–	360 x 297 x 10	3 pc(s).	**3285.800**
3186.930/3187.930/ 3188.940/3189.940/ 3186.630/3187.630/ 3188.640/3189.640/ 3334.400	■	–	■	390 x 397 x 10	3 pc(s).	**3285.900**
3302.1xx/3302.200/ 3303.xx0/3361..../ 3126.100/3126.115	■	■	–	265 x 200 x 10	3 pc(s).	**3286.300**
3304.xx0/3305.xx0/ 3328.xx0/3329.xx0/ 3332..../3366..../ 3127.100/3127.115/ 3128.100/3128.115/ 3129.100/3129.115/ 3130.100/3130.115	■	■	–	344 x 268 x 10	3 pc(s).	**3286.400**

Filter mat

for Blue e+ chillers (inverter housings)
Flat-pleated filter for Blue e+ chillers made from polyester with all-round frame and V brackets on the end face.

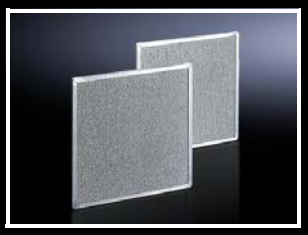
Material:
– Polyester

Filter class to DIN EN 779:
– G3

For Blue e+ chillers

To fit Model No.	W x H x D mm	Packs of	Model No.
3320.200/ 3334.300/ 3334.400	131 x 113 x 13	3 pc(s).	**3285.940**

Filter technology



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 detergents.

Material:
– Aluminium

To fit Model No.	for cooling units	for air/air heat exchangers	for chillers	for climate control door/ section door	W x H x D mm	Packs of	**Model No.**
3185.830/3185.530	■	–	–	–	320 x 280 x 10	1 pc(s).	**3285.810**
3320.200/3334.300	–	–	■	–	295 x 599 x 15	1 pc(s).	**3285.930**
3336.400/3336.405/ 3336.410/3336.415	–	–	■	–	700 x 724 x 20	2 pc(s).	**3286.560**
3336.430/3336.435/ 3336.450/3336.455	–	–	■	–	945 x 765 x 20	2 pc(s).	**3286.570**
3186.930/3187.930/ 3188.940/3189.940/ 3186.630/3187.630/ 3188.640/3189.640/ 3334.400	■	–	■	–	380 x 358 x 10	1 pc(s).	**3285.910**
3300.040/3300.050/ 3300.060/3300.070/ 3300.080/3300.090/ 3300.110/3300.120/ 3201.800/3201.810/ 3201.820/3201.830/ 3201.840/3201.850	–	–	–	■	425 x 78 x 10	1 pc(s).	**3284.210**
3302.300/3302.310	■	–	–	–	190 x 95 x 10	1 pc(s).	**3286.120**
3302.1xx/3302.200/ 3303.xx0/3361..../ 3126.100/3126.115	■	■	–	–	265 x 200 x 10	1 pc(s).	**3286.310**
3304.xx0/3305.xx0/ 3328.xx0/3329.xx0/ 3332..../3366.../ 3127.100/3127.115/ 3128.100/3128.115/ 3129.100/3129.115/ 3130.100/3130.115/ 3360.100	■	■	■	–	344 x 268 x 10	1 pc(s).	**3286.410**
3273..../3382..../3383..../ 3384..../3385..../3359..../ 3318.600/3318.610/ 3319.600/3319.610/ 3334.660	■	–	■	–	530 x 255 x 10	1 pc(s).	**3286.510**
3320.600/3334.600	–	–	■	–	500 x 558 x 8	1 pc(s).	**3286.520**
3386..../3387....	■	–	–	–	720 x 300 x 10	1 pc(s).	**3286.610**
3335.840/3335.850/ 3335.880	–	–	■	–	595 x 1030 x 20	1 pc(s).	**3286.530**
3335.860/3335.870/ 3335.890	–	–	■	–	1000 x 1035 x 20	1 pc(s).	**3286.540**
3335.790/3335.830	–	–	■	–	595 x 780 x 20	1 pc(s).	**3286.550**

Spare filter mat

Made of chopped-fibre mat with a progressive structure. Temperature-resistant to 100 °C, self-extinguishing category F1 to DIN 53 438. Dust-laden air side: Open structure. Clean-air side: Closed structure. Reliable filtering of virtually all types of dust from a particle size of 10 µm.

Note:
– Performance data, protection category and device approvals are only guaranteed when used in conjunction with original Rittal filter mats.

For roof-mounted fan

To fit Model No.	Material	W x H x D mm	Filter class to DIN EN 779	Packs of	**Model No.**
3138..../3139..../3140....	Chemical fibre	264 x 95 x 17	G3	12 pc(s).	**3174.100**

For EMC fan-and-filter units

To fit Model No.	Material	W x H x D mm	Filter class to DIN EN 779	Packs of	**Model No.**
3237.6..	Copper-nickel-chrome coated chemical fibres	92 x 92 x 10	G2	5 pc(s).	**3237.066**
3238.6..	Copper-nickel-chrome coated chemical fibres	125 x 125 x 12	G2	5 pc(s).	**3238.066**
3239.6..	Copper-nickel-chrome coated chemical fibres	178 x 178 x 17	G3	5 pc(s).	**3239.066**
3240.6../3241.6..	Copper-nickel-chrome coated chemical fibres	226 x 226 x 17	G3	5 pc(s).	**3240.066**
3243.6../3244.6../3245.6..	Copper-nickel-chrome coated chemical fibres	294 x 294 x 17	G3	5 pc(s).	**3243.066**

For fan-and-filter units

To fit Model No.	Material	W x H x D mm	Filter class to DIN EN 779	Packs of	**Model No.**
3237....	Chemical fibre	89 x 89 x 10	G2	5 pc(s).	**3321.700**
3237....	Chemical fibre	89 x 89 x 10	G2	50 pc(s).	**3321.705**
3238....	Chemical fibre	120 x 120 x 12	G2	5 pc(s).	**3322.700**
3238....	Chemical fibre	120 x 120 x 12	G2	50 pc(s).	**3322.705**
3239....	Chemical fibre	173 x 173 x 17	G3	5 pc(s).	**3171.100**
3239....	Chemical fibre	173 x 173 x 17	G3	50 pc(s).	**3171.105**
3240..../3241....	Chemical fibre	221 x 221 x 17	G3	5 pc(s).	**3172.100**
3240..../3241....	Chemical fibre	221 x 221 x 17	G3	50 pc(s).	**3172.105**
3243..../3244..../3245....	Chemical fibre	289 x 289 x 17	G3	5 pc(s).	**3173.100**
3243..../3244..../3245....	Chemical fibre	289 x 289 x 17	G3	50 pc(s).	**3173.105**

For Thermoelectric coolers

To fit Model No.	Material	W x H x D mm	Filter class to DIN EN 779	Packs of	**Model No.**
3201.200/3201.300	Chemical fibre	90 x 106 x 8	G2	5 pc(s).	**3201.050**

Filter technology

Fine filter mat

for fan-and-filter units
Made of chopped-fibre mat with a progressive structure. Temperature-resistant to 100 °C, self-extinguishing category F1 to DIN 53 438. Dust-laden air side: Open structure. Clean-air side: Closed structure. Reliable filtering of virtually all types of dust with a particle size of up to 1 µm.

Material:
– Chemical fibres

Note:
– Performance data, protection category and device approvals are only guaranteed when used in conjunction with original Rittal filter mats.

To fit Model No.	W x H x D mm	Filter class to DIN EN 779	Packs of	**Model No.**
3238....	120 x 120 x 12	F5/M5	5 pc(s).	**3238.055**
3239....	173 x 173 x 12	F5/M5	5 pc(s).	**3181.100**
3240..../3241....	221 x 221 x 12	F5/M5	5 pc(s).	**3182.100**
3243..../3244..../3245....	289 x 289 x 12	F5/M5	5 pc(s).	**3183.100**

Pleated filter

for Blue e+ roof-mounted cooling unit and VX25 Blue e+ integration solution
To achieve a protection category of IP 54 with roof-mounted cooling unit Blue e+ and VX25 Blue e+ integration solution.

Material:
– Non-woven fabric

Note:
– Operation without a pleated filter is inadmissible

Filter class to DIN EN 779:
– G4

To fit Model No.	W x H x D mm	Packs of	**Model No.**
3185.030/ 3185.730	652 x 158 x 15	3 pc(s).	**3285.700**

Outlet filter

Standard
For ventilation by convection, an outlet filter can be installed in the upper and lower sections of the enclosure.

Material:
– ABS

Colour:
– RAL 7035
– Optionally available in RAL 9005

Protection category IP to IEC 60 529:
– IP 54 including filter mat
– IP 55 with standard filter and additional fine filter
– IP 56 with standard filter and hose-proof hood

Protection category NEMA:
– NEMA 12

Supply includes:
– Outlet filter
– Filter mat

Accessories:
– Spare filter mat, see page 535
– Fine filter mat, see page 536
– Hose-proof hood, see page 538
– Blanking cover, see page 538

W x H x D mm	Required cut-out, width mm	Required cut-out, height mm	Packs of	Model No.
116.5 x 116.5 x 16	92	92	1 pc(s).	**3237.200**
148.5 x 148.5 x 24	124	124	1 pc(s).	**3238.200**
204 x 204 x 24	177	177	1 pc(s).	**3239.200**
255 x 255 x 25	224	224	1 pc(s).	**3240.200**
323 x 323 x 25	292	292	1 pc(s).	**3243.200**

Outlet filter

EMC
For ventilation by convection, an outlet filter can be installed in the upper and lower sections of the enclosure.

Material:
– ABS

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 54 including filter mat
– IP 55 with EMC filter mat and additional fine filter
– IP 56 with EMC filter mat and hose-proof hood

Supply includes:
– Outlet filter
– Filter mat

Accessories:
– Spare filter mat, see page 535
– Fine filter mat, see page 536
– Hose-proof hood, see page 538

W x H x D mm	Required cut-out, width mm	Required cut-out, height mm	Packs of	Model No.
116.5 x 116.5 x 16	92	92	1 pc(s).	**3237.060**
148.5 x 148.5 x 24	124	124	1 pc(s).	**3238.060**
204 x 204 x 24	177	177	1 pc(s).	**3239.060**
255 x 255 x 25	224	224	1 pc(s).	**3240.060**
323 x 323 x 25	292	292	1 pc(s).	**3243.060**

Filter technology

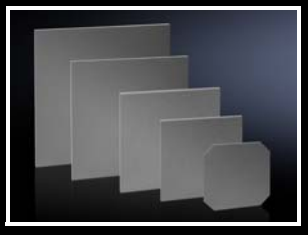
Hose-proof hood

to increase the protection category
For fan-and-filter units/outlet filters. Easy cleaning thanks to exterior silicone coating approved for use with foodstuffs.

Material:
– Stainless steel
– Silicone

Protection category IP to IEC 60 529:
– IP 56 when fitted over fan-and-filter unit/outlet filter with filter mat

To fit Model No.	W x H x D mm	Protection category	Packs of	**Model No.**
3237....	150 x 230 x 40	NEMA 1 NEMA 12 NEMA 3 NEMA 3R	1 pc(s).	**3237.080**
3238....	176 x 245 x 55	NEMA 1 NEMA 12 NEMA 3 NEMA 3R NEMA 4 NEMA 4X	1 pc(s).	**3238.080**
3239....	233 x 330 x 55	NEMA 1 NEMA 12 NEMA 3 NEMA 3R NEMA 4 NEMA 4X	1 pc(s).	**3239.080**
3240..../3241....	282 x 390 x 85	NEMA 1 NEMA 12 NEMA 3 NEMA 3R NEMA 4 NEMA 4X	1 pc(s).	**3240.080**
3243..../3244....	350 x 480 x 110	NEMA 1 NEMA 12 NEMA 3 NEMA 3R NEMA 4 NEMA 4X	1 pc(s).	**3243.080**
3245....	350 x 480 x 160	NEMA 1 NEMA 12 NEMA 3 NEMA 3R	1 pc(s).	**3245.080**



Blanking cover

for fan-and-filter units / outlet filters
If existing mounting cut-outs for fan-and-filter units/ outlet filters need to be closed to achieve a higher protection category, the filter mat of the fan-and-filter unit/outlet filter can simply be replaced with a blanking cover; welding or other mechanical modification of the enclosure is not necessary.

Material:
– PE, closed-cell

Colour:
– Anthracite

Protection category IP to IEC 60 529:
– IP 54

To fit Model No.	W x H x D mm	Packs of	**Model No.**
3237....	81 x 81 x 6	2 pc(s).	**3237.020**
3238....	114 x 114 x 8	2 pc(s).	**3238.020**
3239....	167 x 167 x 15	2 pc(s).	**3239.020**
3240..../ 3241....	214 x 214 x 15	2 pc(s).	**3240.020**
3243..../ 3244..../ 3245....	282 x 282 x 15	2 pc(s).	**3243.020**

Front outlet grille 2 U

for tangential fans

This front outlet grille is required if a 482.6 mm (19") cross-flow blower (SK 3144.000/SK 3145.000) is used in the lower section of the electronic enclosure and the hot air is to be expelled to the outside from the upper section of the enclosure. The design of the grille matches that of the intake grille in the cross-flow blower. These grilles can also be used as simple inflow and outflow grilles with natural convection.

Packs of	**Model No.**
1 pc(s).	**3176.000**

Accessories:

– Filter mat, see page 533

Enclosure internal fan

To prevent hot-spots and support the air routing of active enclosure climate control components. Adjustable in two axes. Attached to the frame section. Several fans may be cascaded using the quick-release clamping strip.

Supply includes:
– Complete unit with axial fan ready for connection
– Snap-on pivot device
– Assembly parts

Air throughput (unimpeded air flow) m^3/h	Rated operating voltage V, ~, Hz	Power consumption W	Rated current A	Packs of	**Model No.**
160	230, 1~, 50/60	19 / 18	0.12 / 0.11	1 pc(s).	**3108.100**
160	115, 1~, 50/60	19 / 18	0.24 / 0.23	1 pc(s).	**3108.115**
160	24 (DC)	3.5	0.15	1 pc(s).	**3108.024**

Mini fan

Compact DC fan for enclosure and component cooling in enclosures.

Supply includes:
– Fan
– Assembly screws
– Contact hazard protection

W x H x D mm	Air throughput (unimpeded air flow) m^3/h	Rated operating voltage V	Power consumption W	Operating temperature range	Noise level dB(A)	Packs of	**Model No.**
60 x 60 x 25.4	21	24 (DC)	1	-20 °C...+70 °C	20	1 pc(s).	**3236.124**

Integrated louvres

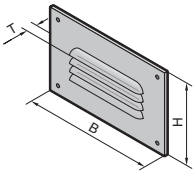
For ventilation by convection; easily retro-fitted using 4 screws.

Material:
– Sheet steel

Colour:
– RAL 7035

Supply includes:
– Assembly parts

W x H x D mm	Packs of	**Model No.**
160 x 110 x 8	4 pc(s).	**2541.235**
210 x 100 x 8	4 pc(s).	**2542.235**
330 x 110 x 8	4 pc(s).	**2543.235**



Air routing

Air duct system

for roof-mounted cooling units and roof-mounted air/water heat exchangers
Cold air may be routed directly to specific areas of the enclosure using the air duct system.
The risk of air short circuits due to self-ventilated installed devices is therefore eliminated.
The dimensions of the shallow duct are W x H x D 229 x 1500 x 29 mm, and can be shortened to the required length.

Material:
– Flame-resistant plastic to DIN 4102/B1

Colour:
– RAL 7035

Supply includes:
– Shallow duct
– Compensating hose

Note:
– Do not direct cold air straight at active components.
– When using the ducting system, the performance of the cooling unit may be reduced, depending on the application in question.
– For devices 3359..../3382...., the air duct adaptor 3286.840 is additionally required.

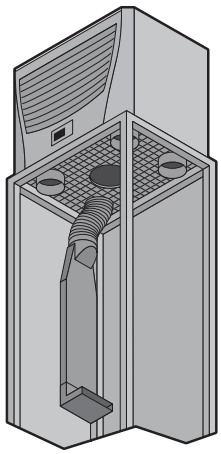
To fit Model No.	Packs of	Model No.
3209..../3210..../3273..../3359..../3382..../3383..../3384..../3385....	1 pc(s).	**3286.870**
3386..../3387....	1 pc(s).	**3286.970**

Also required:

– Support strip, see page 952

Accessories:

– Deflector, 90°, see page 540
– Stoppers, see page 542
– Flat duct extension, see page 541



Air duct adaptor

for air duct system and shallow air duct system
The adaptor serves as a connection between the roof-mounted cooling unit (air inlet opening) and the air-duct system.

Material:
– ABS

Colour:
– RAL 9005

To fit Model No.	Packs of	Model No.
3359..../3382....	1 pc(s).	**3286.840**

Deflector, 90°

for air duct system
For targeted air deflection at the end of the shallow duct.

Material:
– Flame-resistant plastic to DIN 4102/B1

Colour:
– RAL 7035

Packs of	Model No.
1 pc(s).	**3286.990**

Shallow air duct system

for roof-mounted cooling units and roof-mounted air/water heat exchangers
Cold air may be routed directly to specific areas of the enclosure using the air duct system.
The risk of air short circuits due to self-ventilated installed devices is therefore eliminated.
The dimensions of the shallow duct are W x H x D 229 x 1500 x 29 mm, and can be shortened to the required length.

Applications:
– Suitable for enclosures with widths of 800 mm or more and depths of 600 mm or more

Material:
– Flame-resistant plastic to DIN 4102/B1

Colour:
– RAL 7035

Supply includes:
– Shallow duct
– Adaptor
– Compensating piece
– Deflector, 90°

Note:
– Do not direct cold air straight at active components.
– When using the ducting system, the performance of the cooling unit may be reduced, depending on the application in question.
– Not suitable for use in conjunction with quick-change frame.

To fit Model No.	Packs of	Model No.
3209..../3210..../3273..../3383..../3384..../3385..../3359..../3382....	1 pc(s).	**3286.850**

Also required:
– Air duct adaptor, see page 540
– Support strip, see page 952

Assembly
– For devices 3359.XXX and 3382.XXX, the air duct adaptor 3286.840 is required for mounting.

Accessories:
– Deflector, 90°, see page 540
– Stoppers, see page 542
– Flat duct extension, see page 541

Flat duct extension

Extension kit for shallow air duct system 3286.850 for length compensation in the width, depth or height in enclosures.

Material:
– Flame-resistant plastic to DIN 4102/B1

Colour:
– RAL 7035

Supply includes:
– Shallow duct 1500 mm
– Connecting piece

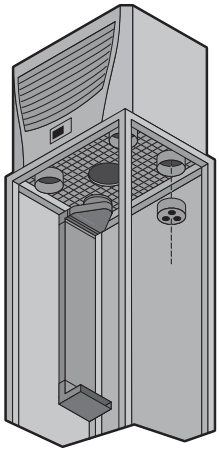
Packs of	Model No.
1 pc(s).	**3286.860**

Air routing

Stoppers

for roof-mounted cooling units and roof-mounted air/water heat exchangers
To cover any cold air outlets that are not required.

Material:
– Polyurethane foam



To fit Model No.	Ø mm	Max. no. of stoppers per unit	Packs of	**Model No.**
3359..../3382....	80	1	2 pc(s).	**3286.780**
3209..../3210..../3273..../3383..../3384..../3385....	100	2	2 pc(s).	**3286.880**
3386..../3387....	150	1	2 pc(s).	**3286.980**

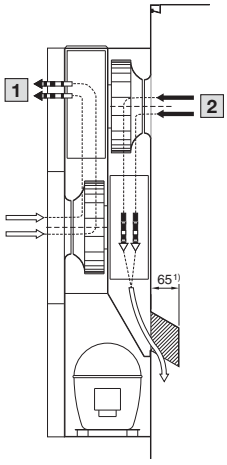
Air diverter

For use with wall-mounted cooling units, for targeted routing of cold air in a downward direction. Particularly well-suited for densely-packed electrical components in the lower section of the enclosure.

Material:
– Sheet steel

Colour:
– RAL 7035

To fit Model No.	Installation depth mm	Packs of	**Model No.**
3304..../3305....	65	1 pc(s).	**3213.310**
3328..../3329....	65	1 pc(s).	**3213.320**



1) 115 mm for 3213.330
1 External air circuit
2 Internal air circuit

Electric condensate evaporator

For external mounting on the enclosure. For use with all enclosure cooling units and air/water heat exchangers (wall-mounted).

Benefits:
– Suitable for international use thanks to multi-voltage support

Colour:
– RAL 7035

Supply includes:
– Electric condensate evaporator, ready to connect

W x H x D mm	Rated operating voltage V, ~, Hz	Operating temperature range	Evaporation performance	Packs of	**Model No.**
280 x 129 x 105	115 - 230, 1~, 50/60	+5 °C...+60 °C	230 V: 3.5 l/d 115 V: 3.0 l/d	1 pc(s).	**3301.500**
400 x 129 x 105	115 - 230, 1~, 50/60	+5 °C...+60 °C	230 V: 3.5 l/d 115 V: 3.0 l/d	1 pc(s).	**3301.505**

Electrical condensate evaporator

for Blue e+ roof-mounted cooling units
Tool-free mounting of the condensate evaporator on the underside of the roof-mounted Blue e+ so that it is not visible from the outside. Any condensation is evaporated and emitted to the ambient air via the air exhaust of the cooling unit.

Material:
– Plastic

Colour:
– RAL 9005

Supply includes:
– Electrical condensate evaporation
– Shipping brace screw
– Entry grommet

Note:
– Power is supplied via the cooling unit

To fit Model No.	W x H x D mm	Rated operating voltage V (DC)	Operating temperature range	Evaporation performance	Packs of	**Model No.**
3185.730	89 x 121 x 158	380	+5 °C...+60 °C	100 ml/h	1 pc(s).	**3355.720**

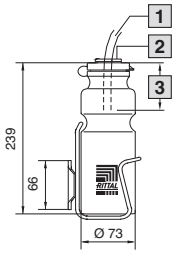
Water distribution

Condensate collecting bottle

For mounting on the enclosure. For use with all enclosure cooling units and air/water heat exchangers. Safety overflow at the side. Capacity approximately 0.75 l.

Supply includes:
– Condensate collecting bottle
– Bottle holder
– Assembly parts

Packs of	**Model No.**
1 pc(s).	**3301.600**



1 Condensate discharge tube
2 Membrane grommet
3 Max. 70 mm

Condensate hose

For discharging and transporting condensate. For connection to enclosure cooling units and air/water heat exchangers.

Material:
– PVC, transparent

To fit Model No.	Length m	Ø mm	Material thickness mm	Packs of	**Model No.**
3201....	5	6	1	1 pc(s).	**3301.606**
3302.300/3302.310	10	8	1.5	1 pc(s).	**3301.608**
3212..../3303..../3361..../3302.1xx/ 3302.2xx	10	10	1.5	1 pc(s).	**3301.610**
3209...3210/3214.100/3215.100/ 3216.480/3273..../3304...3305/ 3328...3329/3332..../3359..../ 3363...3364/3366..../3373...3375/ 3377...3378/3382...3385/3386...3387/ 3185.830/3185.530/3186.930/ 3186.630/3187.930/3187.630/ 3188.940/3188.640/3189.940/ 3189.640	10	12	2	1 pc(s).	**3301.612**

Connection set

for air/water heat exchangers
For professional laying of water connections and regulation of volumetric flow. The pressure hoses may be cut to length individually, depending on the application.

Material:
– Water-carrying parts EPDM/brass

Supply includes:
– Hose for water return
– Hose for water inlet including regulator valve for regulating the volumetric flow (setting range 3 to 12 l/min)
– Assembly parts

To fit Model No.	Length mm	Water connections	Permissible operating pressure (p. max.) bar	Packs of	**Model No.**
3209.XX0/3210.XX0/3216.480/ 3363.XX0/3364.XX0/3373.XX0/ 3374.XX0/3375.XX0	3600	G ⅜" internal thread	1 - 10	1 pc(s).	**3201.990**

Flow regulator valve

For use with air/water heat exchangers, especially if more than one heat exchanger (n > 1) is used in the water cooling circuit. The correctly set valve then ensures the same quantity of cooling medium for all equipment.

Applications:
– The valve is used for hydraulic balancing.

Material:
– Brass

Design	Setting range l/min	Packs of	**Model No.**
¾" x ½" for volumetric flow control	3 - 12	1 pc(s).	**3301.930**
¾" x ¾" for volumetric flow control	3 - 12	1 pc(s).	**3301.940**

Cooling medium (ready-mixed)

For chillers and air/water heat exchangers
As well as protecting against frost, this cooling medium also serves to inhibit bacterial growth and provide optimum corrosion protection.

Application	Antifreeze/water mixture	Container	Contents l	Operating temperature range	Packs of	**Model No.**
Outdoor	1 : 2	Canister	10	-20 °C...+60 °C	1 pc(s).	**3301.950**
Outdoor	1 : 2	Canister	25	-20 °C...+60 °C	1 pc(s).	**3301.955**
Standard	1 : 4	Canister	10	-10 °C...+60 °C	1 pc(s).	**3301.960**
Standard	1 : 4	Canister	25	-10 °C...+60 °C	1 pc(s).	**3301.965**

Control/regulation

Digital enclosure internal temperature display and thermostat

For installation in the enclosure door or wall.

Technical specifications:
– Three-digit, 7-segment display
– Option of switching between °C/°F
– Includes 1800 mm long NTC sensor
– Two relay outputs as change-over contact and normally open contact (max. contact load 230 V, 6 A)
– Freely selectable switching difference

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 54

Rated operating voltage V, ~, Hz	Installation depth mm	Setting range	Operating temperature range	Packs of	**Model No.**
100 - 230, 1~, 50/60 24 - 60 (DC)	100	+5 °C...+55 °C	+0 °C...+50 °C	1 pc(s).	**3114.200**

Digital enclosure internal temperature display and thermostat

integrated into a patch panel 1 U
Including cable attachment for connection cable and label holder.

Technical specifications:
– Three-digit, 7-segment display
– Option of switching between °C/°F
– Includes 1800 mm long NTC sensor
– Two relay outputs as change-over contact and normally open contact (max. contact load 230 V, 6 A)
– Freely selectable switching difference

Rated operating voltage V, ~, Hz	Installation depth mm	Setting range	Colour	Packs of	**Model No.**
100 - 230, 1~, 50/60 24 - 60 (DC)	100	+5 °C...+55 °C	RAL 7035	1 pc(s).	**7109.035**
100 - 230, 1~, 50/60 24 - 60 (DC)	100	+5 °C...+55 °C	RAL 9005	1 pc(s).	**5302.041**

Thermostat

Enclosure internal thermostat
Particularly suitable for controlling fans, heaters and heat exchangers, this thermostat can also be used as a signal generator for monitoring the enclosure internal temperature.

Benefits:
– Time-saving connection technique using a terminal strip with a screw connection from the outside
– Flexible mounting on a vertical or horizontal 35 mm support rail to EN 50 022, and snap fastening in the enclosure section or on the mounting plate using the supplied adaptor

Technical specifications:
– Bi-metal controller as a temperature-sensitive element with thermal feedback
– Contact population: Single-pole change-over contact as a quick-break contact
– Permissible contact load: Category 5 – 3 (heating) AC 10 (4) A (inductive load at cos ϕ = 0.6)/category 5- 4 (cooling): AC 5 (4) A (inductive load at cos ϕ = 0.6)/DC = max. 30 W
– Switching difference: approx. 1 K ± 0.8 K

Colour:
– RAL 7035

Accessories:
– Bottom-mounted adaptor, see page 548
– Mounting plate, see page 998

W x H x D mm	Rated operating voltage V, ~	Setting range	Packs of	**Model No.**
71 x 71 x 33.5	24 - 230, 1~ 24 - 60 (DC)	+5 °C...+60 °C	1 pc(s).	**3110.000**

Hygrostat

Activates the heater and/or fan when a preset relative humidity in the enclosure is exceeded. This reduces the relative humidity and prevents condensation on assemblies and electronic components.

Benefits:
– Time-saving connection technique using a terminal strip with a screw connection from the outside
– Flexible mounting on a vertical or horizontal 35 mm support rail to EN 50 022, and snap fastening in the enclosure section or on the mounting plate using the supplied adaptor

Technical specifications:
– Contact population: Single-pole change-over contact as a quick-break contact
– Permissible contact load: AC ~ 5 (0.2) A (inductive load at cos ϕ = 0.6)/DC = max. 20 W
– Setting range: 50 – 100% relative humidity
– Switching difference: approx. 4%

Colour:
– RAL 7035

W x H x D mm	Rated operating voltage V, ~	Packs of	**Model No.**
71 x 71 x 33.5	24 - 250, 1~ 24 - 75 (DC)	1 pc(s).	**3118.000**

Accessories:
– Bottom-mounted adaptor, see page 548
– Mounting plate, see page 998

Control/regulation

Bottom-mounted adaptor

for enclosure internal thermostat and hygrostat

With mounting option for screwed cable glands, for targeted cable infeed from appropriate equipment such as SK fan-and-filter units and enclosure heaters. In conjunction with screwed cable glands, it also provides strain relief.

Colour:
– RAL 7035

To fit Model No.	Packs of	Model No.
3110.000/3118.000	1 pc(s).	**3110.200**

EC speed control

Control unit for EC fan

Temperature-dependent speed control for EC fans to reduce noise and save energy. The function of the fan can also be monitored.

Functions:
– Activation and monitoring of up to 4 EC fan-and-filter units
– For mounting on a 35 mm support rail EN 50 022
– External temperature sensor to record the actual temperature
– Status LED to display the operating status
– Alarm relay for reporting overtemperature, fan defect, cable break and sensor failure

Supply includes:
– Speed control
– NTC sensor, length 1.80 m

To fit Model No.	Rated operating voltage V	Setting range	Packs of	Model No.
3240.500/3241.500/3243.500/ 3244.500/3245.XXX/3140.500/ 3140.510	100 - 250	+5 °C...+55 °C	1 pc(s).	**3235.440**

EC speed control

Sensor for speed control

NTC sensor for temperature-dependent speed control of EC fans to reduce noise and save energy. Activation and power supply via an EC fan-and-filter unit.

Technical specifications:
– Control characteristic: fixed setpoint at 35 °C, with linear control range between +35 °C (maximum speed 100%) and +20 °C (minimum speed 10%)

Protection category IP to IEC 60 529:
– IP 40

Supply includes:
– External sensor with connection cable (length 3 m)

To fit Model No.	Rated operating voltage V	Operating temperature range	Packs of	Model No.
3240.500/3241.500/ 3243.500/3244.500/ 3245.XXX/3140.500/ 3140.510	10 - 12 (DC)	-25 °C...+80 °C	1 pc(s).	**3235.450**

Speed control

For fan-and-filter units and air/air heat exchangers
Temperature-dependent speed control to minimise noise and save energy in part-load operation.

Technical specifications:
– For mounting on a 35 mm support rail EN 50 022
– Phase cross-over with microcontroller
– Maximum fan output 300 W or 2 A

Supply includes:
– Speed control
– NTC sensor, length 1.80 m

Note:
– Only suitable for use with single-phase AC motors and equipment
– Not suitable for EC motors

Accessories:
– Mounting plate, see page 998

W x H x D mm	Rated operating voltage V	Setting range	Packs of	**Model No.**
105 x 90.5 x 60.2	100 - 230	+20 °C...+55 °C	1 pc(s).	**3120.200**

Temperature sensor

for Blue e+ cooling units, Blue e+ chillers
NTC sensor to regulate Blue e+ cooling units according to an individual measurement point within the enclosure (control based on an external sensor), and according to the cold air outlet from the cooling unit inside the enclosure (control based on outlet temperature). For chillers: Differential control is used if it is necessary to regulate the temperature of the medium depending on the ambient temperature (positive or negative). For this, the temperature sensor needs to be positioned near the Blue e+ chiller.

Supply includes:
– External sensor with connection cable (length 2.5 m)

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

Control/regulation

Master/slave cable

for SK BUS system

The SK BUS system allows several cooling units and air/water heat exchangers with e-Comfort controller to communicate with one another Master-slave configuration for complex bayed enclosure systems, for optimum operating results.

Technical specifications:
- The master-slave layout facilitates common activation and deactivation via door limit switches, parallel activation and deactivation via a temperature setpoint, and common collective fault signals and temperature logging, eliminating the need for intricate wiring.

Supply includes:
- 3 m shielded interface cable
- Operating instructions on programming the cooling units

Note:
- $n_B = n_K - 1$
- n_B: Number of order units (SK BUS system)
- n_K: Number of cooling units to be linked

Packs of	**Model No.**
1 pc(s).	**3124.100**

Toroidal transformer

Primary connection 115 V/400 V

For the power supply of wall-mounted 230 V air/water heat exchangers. Available with 115 V or 400 V primary connection.

Technical specifications:
- Output 110 VA
- Voltage tolerance ±10%
- Primary connection 3500 mm long
- Secondary connection 1500 mm long
- For mounting on a 35 mm support rail EN 50 022

Supply includes:
- Toroidal transformer
- Assembly parts

To fit Model No.	W x H x D mm	Rated operating voltage V, ~, Hz	Packs of	**Model No.**
3363.X0X/3364.X0X/3212.230/ 3214.100/3214.700/3215.100/ 3215.700	105 x 123 x 55	400 (primary), 2~, 50/60 230 (secondary), 1~, 50/60	1 pc(s).	**3201.960**
3363.X0X/3364.X0X/3214.100/ 3214.700/3215.100/3215.700	105 x 123 x 55	115 (primary), 1~, 50/60 230 (secondary), 1~, 50/60	1 pc(s).	**3201.970**

Industrial Internet of Things

Fast, uninterrupted, automated production,
from page 552

IoT interface

Digitalised and networked

Industrial Internet of Things

- Fast, uninterrupted, automated production
- The Industrial Internet of Things (IIoT) makes it possible.

Condition monitoring for rack and process cooling

- In conjunction with the IoT interface, Rittal cooling solutions can now be networked and digitalised
- Continuous monitoring plays a key role in boosting system availability.

Sensors for enclosure monitoring

- The use of Rittal sensors allows reliable monitoring of a wide range of switchgear parameters.
- Potential failures are identified early on, and operational reliability is increased

Rittal Smart Service

- Data-based service for visualising the response of your networked cooling solutions
- Overview of energy and CO_2 consumption
- Centralised detection of maintenance requirements and critical errors, including recommended actions
- Fast problem analysis and troubleshooting

Rittal Smart Service

IoT interface

The IoT interface is a central component for the intelligent networking of Rittal cooling solutions or sensors for monitoring physical ambient conditions. Equipped with a wide range of interfaces and protocols, it is used to collate and transmit data to superordinate IT systems or to systems for the local monitoring of machine statuses.

Benefits:
– Digitalisation and networking offer huge opportunities for every company. With the IoT interface, Rittal cooling solutions and sensors for monitoring physical ambient conditions are easily connected to Industry 4.0 environments without affecting the automation logic.
– Plug and run: The IoT interface is quickly and conveniently configured and commissioned via the integral Web server, no programming required.

Material:
– Plastic to UL 94-V0

Colour:
– RAL 7016

Protection category IP to IEC 60 529:
– IP 20

Supply includes:
– IoT interface
– USB cable (USB-A connector on micro-USB-B connector)
– Angle bracket for Blue e+ cooling unit

Note:
– The IoT interface is only supported by Blue e+ cooling units from firmware version 1.11.0 or above. If applicable, update the firmware using the RiDiag III software (3159.300).
– To interlink cooling units in the Blue e series, the Blue e IoT adaptor (3124.310) is additionally required.

Assembly

– The IoT interface can be secured on a 35 x 7.5 top hat rail to DIN EN 60715 using a spring-loaded metal clip, or to the rear of a Blue e+ cooling unit using the angle bracket.

Accessories:

– Blue e IoT adaptor, see page 555

W x H x D mm	18 x 117 x 120
For	TopTherm cooling units with e-Comfort controller Blue e+ cooling units Blue e+ chillers Smart Monitoring System for NH fuse-switch disconnectors Rittal sensors
Operating temperature range	+0 °C...+70 °C
Protocols	OPC-UA/SNMPv1/SNMPv2c/SNMPv3/Modbus/TCP/TCP/IPv4/TCP/IPv6/Radius/Telnet/SSH/FTP/SFTP/HTTP/HTTPS/NTP/DHCP/DNS/SMTP/Syslog/LDAP
Interfaces	1 x Micro USB type B (device) for USB 2.0 1 x Micro-SD memory card slot for SD 2.0 1 x USB 2.0 high-speed functions (EHCI) 1 x acknowledgement button 1 x push-in spring connection terminal for NTC sensor 2 x RJ45 jack for RS 485 interface (climate control unit interface)
Network interface	Ethernet IPv4/IPv6 Ethernet to IEEE 802.3 via 10BASE-T, 100BASE-T and 1000BASE-T
Interface bus system	2 x RJ45 CAN bus
Type of electrical connection	Push-in spring connection terminal (24 V DC)
Weight kg	0.278
Packs of	1 pc(s).
Model No.	**3124.300**

Blue e IoT adaptor

In conjunction with the IoT interface, the adaptor supports intelligent networking of cooling units in the Blue e series.

Benefits:
- Digitalisation and networking offer huge opportunities for every company. In conjunction with the IoT interface (3124.300), cooling units in the Blue e series are easily connected to Industry 4.0 environments without affecting the automation logic.
- Plug and run: The IoT interface is quickly and conveniently configured and commissioned via the integral Web server, no programming required.
- Condition monitoring of up to 10 cooling units in a master/slave arrangement

Material:
- Plastic
- Front: Smooth
- Enclosure: Textured

Colour:
- Front: RAL 9005
- Enclosure: RAL 7035

Protection category IP to IEC 60 529:
- IP 30

Supply includes:
- Blue e IoT adaptor
- Installation and Short User's Guide
- Mounting bracket
- Assembly parts
- Sub-D to RJ11 connection cable
- Mounting clips for securing top-hat rails

Also required:
- IoT interface, see page 554

To fit Model No.	3303.5/6xx/3304.5/6xx/3305.5/6xx/3328.5/6xx/3329.5/6xx/3332.5/6xx/3361.5/6xx/3366.5/6xx/3377.5/6xx/3307.7xx/3310.7xx/3382.5/6xx/3359.5/6xx/3383.5/6xx/3273.500/3384.5/6xx/3385.5/6xx/3386.5/6xx/3387.5/6xx/9776.550
W x H x D mm	80 x 30 x 40
For	TopTherm cooling units with e-Comfort controller
Operating temperature range	+0 °C...+55 °C
Interfaces	1 x Modbus RTU 1 x cooling unit interface
Weight kg	0.201
Packs of	1 pc(s).
Model No.	**3124.310**

Mounting accessories

Trim frame

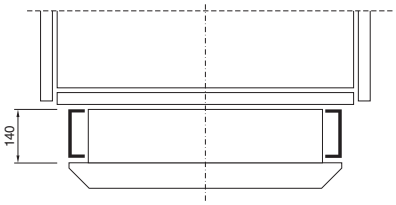
for slimline cooling units
Slimline cooling units can be internally or externally mounted on an enclosure door or wall. The trim frame presents a closed front for the cooling unit.

Material:
– Sheet steel

Colour:
– RAL 7035

Supply includes:
– Trim frame
– Sealing and assembly parts

To fit Model No.	W x H x D mm	Packs of	**Model No.**
3366....	448 x 1583 x 140	1 pc(s).	**3377.000**



Baying plate

for VX25 Blue e+ integration solution
The baying plate guarantees a protection category of IP 54 when baying the VX25 Blue e+ integration solution to a 2,000 mm high, 600 mm deep enclosure.

Material:
– Sheet steel

Colour:
– Textured RAL 7035

Supply includes:
– Baying plate
– Cross member
– Assembly parts and sealing material

To fit Model No.	W x H x D mm	Packs of	**Model No.**
3185.030	600 x 200 x 17	1 pc(s).	**3355.710**

Quick-change frame

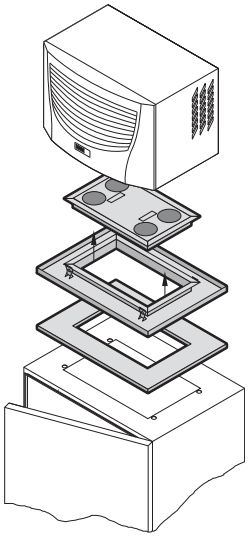
for roof-mounted cooling units
The quick-change frame is more than just an alternate frame. Together with the seal, the lower part of the frame is screw-fastened to the enclosure. In this way, it is possible to install and remove the connector-ready cooling unit with the upper part of the alternate frame previously mounted on the cooling unit with quick-release fasteners. During servicing work, this means shorter assembly times and hence minimised downtime. What is more, the quick-change frame offers effective protection against the ingress of oil into the enclosure in oily atmospheres, thanks to its integral drainage trough.

Material:
– Sheet steel

Colour:
– RAL 7035

Supply includes:
– Quick-change frame
– Seal
– Quick-release fasteners

To fit Model No.	Packs of	**Model No.**
3359..../3382....	1 pc(s).	**3286.700**
3209..../3210..../3383..../ 3384..../3385....	1 pc(s).	**3286.800**
3386..../3387....	1 pc(s).	**3286.900**



Guide frame

for Vario rack-mounted fan

Supply includes:
– Guide frame
– Connector and fitted connection cable
– Mounting bracket for optional attachment to the 482.6 mm (19") mounting level
– Assembly parts

To fit Model No.	Suitable for rated operating voltage	Length of connection cable m	Packs of	**Model No.**
3350.230/3351.230/ 3352.230	115 V, 50/60 Hz 230 V, 50/60 Hz	3	1 pc(s).	**3355.100**
3352.500	24 V DC 115 - 230 V	3	1 pc(s).	**3357.100**

Display frame

for Blue e+ roof-mounted cooling unit and VX25 Blue e+ integration solution
The display frame allows the touch display of the roof-mounted cooling unit Blue e+ or the VX25 Blue e+ integration solution to be positioned in the enclosure door.

Benefits:
– For positioning the display at the optimum operator height

Material:
– Plastic

Colour:
– RAL 7016

Protection category IP to IEC 60 529:
– IP 54

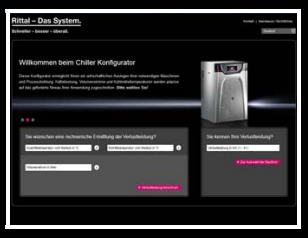
Supply includes:
– Display frame
– Blanking cover
– RJ 12 extension cable (3 m)
– Assembly parts and sealing material

To fit Model No.	W x H x D mm	Packs of	**Model No.**
3185.030/ 3185.730	316 x 118 x 27.5	1 pc(s).	**3355.700**

Configurators/tools/CAD data

Climate control

The optimum design, control and monitoring of the installation are crucial to efficient climate control. We support you with user-friendly tools and software for rapid calculation, plus Web-based tools and interfaces to easily control your climate control solution.



Chiller configurator

The chiller configurator is the cost-effective way to design your required machine and process cooling. Cooling output, volumetric flow and refrigerant temperatures are precisely tailored to your required application.

Benefits:
- Calculate the heat loss, either mathematically or manually
- Comprehensive range of accessories
- Drawings downloadable in dwg, pdf, or 3D pdf format
- Downloadable specifications/tender texts
- Interactive performance diagram: cooling output and pump output
- Add option packages and download bill of materials
- Transfer order list to shopping basket
- Send a quote request

Note:
- Configure online at www.rittal.com/configurators

Chiller app

The Rittal Chiller app allows users to make their selections from a mobile device. Alongside the existing online version of the chiller configurator, the app also supports automated calculation of the required cooling output. The matching chiller may be selected interactively in just four steps, with outputs ranging from 1 to 40 kW.

Note:
- Download free from the App Store

iPhone app

Therm software

Precise, efficient climate control

Therm undertakes the time-consuming calculation of the required cooling output and selects suitable products. The calculation provides you with detailed documentation for maximum peace of mind when designing the optimum climate control. Therm is based on the requirements of IEC/TR3 60890 AMD 1 and DIN 3168 for enclosure cooling units. The overtemperature to DIN 61439 is calculated with a single click.

Benefits:
- Fast, thorough determination of the required climate control measures
- Identification of the correct climate control measures can cut costs
- Easy calculation of the required actual cooling output, as well as any upgrades or enhancements to the switchgear
- Detailed documentation is supplied with the calculation

Note:
- Configure online at www.rittal.com/software

Therm app

Note:
- Downloaded free from the App Store and from the Google Play Store

Android app

iPhone app

RiDiag II

For the diagnosis, maintenance and long-term data capture of TopTherm units with e-Comfort controller. RiDiag logs equipment data and prepares an error list. RiDiag also offers the option of displaying and setting the device's operating parameters. Logged measurement data can be tracked in real time in the form of a diagram.

Packs of	Model No.
1 pc(s).	**3159.100**

Note:
– Download free at www.rittal.com/software

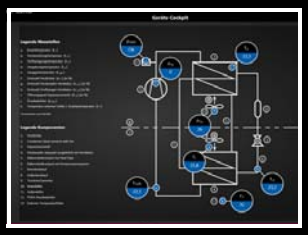
RiDiag III

Diagnosis software for the analysis and parameterisation of cooling units and chillers in the Blue e+ series.

The following functions may be used in the device and efficiency cockpit:
– Quick analysis and setting of all parameters
– Display configuration: e.g. NFC, language, PIN
– Reading of historical data from the last two years[1)]
– Creation of service enquiries and selection of spare parts
– Software and firmware updates for devices

	Model No.
[1)]This additional function can be enabled with a chargeable licence	**3159.300**

Note:
– Download RiDiag III for free at www.rittal.com/software



Blue e+ app

The Blue e+ app supports the contactless exchange of information as well as quick on-site analysis via the NFC interface.

Benefits:
– Saves time when reading the units
– Limit access by requesting a PIN (PIN of cooling unit)
– Superior operational reliability, thanks to improved fault and maintenance management
– Identical displays and menu prompting as on the Blue e+ device display
– Direct link to Rittal Service
– Simply send repair, maintenance and spare parts enquiries from your smartphone

Note:
– Download for free from the Google Play Store

Android app