

# Climate control

## Rittal – The System.

Faster – better – everywhere.



Type of climate control	Air cooling	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 <sup>3</sup> /h	20 – 1069	–	
Specific thermal output W/K	17.5 – 90	–	
Total cooling output W	–	100 – 6000	
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, energy savings of up to 75% can be achieved.	
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	Liquid cooling	Enclosure heaters	Climate control accessories
	The enclosure interior air may also be cooled to below the level of the external temperature by using cooling water and air/water heat exchangers. The waste heat from the enclosure does not raise the temperature of the ambient air, provided the heat exchanger and cold water supply system are spatially separated from one another.	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.	Superbly coordinated components tailor climate control perfectly to your specific requirements, whether you need targeted air routing, precise control of the equipment or matching consumables.
	–	–	–
	–	–	–
	300 – 40000	–	–
	–	10 – 800	–
	Ideal for dissipating particularly high heat loads. Both the output and the installation type of the air/water heat exchangers may be individually selected depending on requirements.	Heaters with self-regulating PTC technology ensure constant heat distribution and are easily attached to a 35 mm top hat rail or mounting plate.	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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# Air cooling

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# TopTherm fan-and-filter units



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## Colour:

– RAL 7035

## Supply includes:

– Complete unit ready to install, including filter mat

## Note:

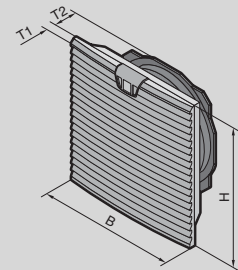
– With the fan-and-filter unit 3237.XXX, electrical connection is made via two single wires on the unit; for all other fan-and-filter units, a screwless spring terminal is used.

## Approvals:

Available on the Internet

## Performance diagrams:

Available on the Internet



## Air throughput 20 – 55 m<sup>3</sup>/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)	
<b>Air throughput, unimpeded air flow m<sup>3</sup>/h</b>		<b>20 / 25</b>	<b>20 / 25</b>	<b>20</b>	<b>55 / 66</b>	<b>55 / 66</b>	<b>55</b>	
Rated current A		0.065 / 0.052	0.12 / 0.1	0.125	0.12 / 0.11	0.24 / 0.22	0.24	
Pre-fuse A		2	2	2	2	2	2	
Motor circuit-breaker		–	–	–	–	–	–	
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, self-starting shaded pole motor	Axial, self-starting shaded pole motor	Axial, DC motor	Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	Diagonal, DC motor	
Operating temperature range		-15°C...+55°C	-15°C...+55°C	-15°C...+55°C	-10°C...+55°C	-10°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	
Weight kg		0.46	0.48	0.3	0.8	0.8	0.54	

## Accessories

Accessories		3237.200	3237.200	3237.200	3238.200	3238.200	3238.200	Page
Outlet filter	1 pc(s).	3237.200	3237.200	3237.200	3238.200	3238.200	3238.200	457
Spare filter mats	see page	see page	see page	see page	see page	see page	see page	456
Fine filter mats	5 pc(s).	–	–	–	3238.055	3238.055	3238.055	457
Hose-proof hood	1 pc(s).	3237.080	3237.080	3237.080	3238.080	3238.080	3238.080	458
Blanking cover	2 pc(s).	3237.020	3237.020	3237.020	3238.020	3238.020	3238.020	459
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	3110.100	3110.100	467
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	466

# TopTherm fan-and-filter units

## Air throughput 105 – 180 m<sup>3</sup>/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)	
<b>Air throughput, unimpeded air flow</b> m <sup>3</sup> /h		<b>105 / 120</b>	<b>105 / 120</b>	<b>105</b>	<b>180 / 160</b>	<b>180 / 160</b>	<b>180</b>	
Rated current A		0.12 / 0.11	0.24 / 0.22	0.23	0.21 / 0.19	0.42 / 0.38	0.43	
Pre-fuse A		2	2	2	2	4	2	
Motor circuit-breaker		–	–	–	–	–	–	
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		Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	Diagonal, DC motor	Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	Diagonal, DC motor	
Operating temperature range		-10°C...+55°C	-10°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	
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	457
Spare filter mats		see page	see page	see page	see page	see page	see page	456
Fine filter mats	5 pc(s).	3181.100	3181.100	3181.100	3182.100	3182.100	3182.100	457
Hose-proof hood	1 pc(s).	3239.080	3239.080	3239.080	3240.080	3240.080	3240.080	458
Blanking cover	2 pc(s).	3239.020	3239.020	3239.020	3240.020	3240.020	3240.020	459
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	3110.100	3110.100	467
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	466

## Air throughput 230 – 550 m<sup>3</sup>/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	
<b>Air throughput, unimpeded air flow</b> m <sup>3</sup> /h		<b>230 / 250</b>	<b>230 / 250</b>	<b>230</b>	<b>550 / 600</b>	<b>550 / 600</b>	
Rated current A		0.26 / 0.24	0.52 / 0.48	0.8	0.37 / 0.39	0.78 / 0.8	
Pre-fuse A		4	4	2	4	6	
Motor circuit-breaker		–	–	–	–	–	
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, self-starting shaded pole motor	Diagonal, self-starting 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	
Weight kg		2.235	2.26	2.04	3.58	3.58	

### Accessories

Outlet filter	1 pc(s).	3240.200	3240.200	3240.200	3243.200	3243.200	457
Spare filter mats		see page	see page	see page	see page	see page	456
Fine filter mats	5 pc(s).	3182.100	3182.100	3182.100	3183.100	3183.100	457
Hose-proof hood	1 pc(s).	3240.080	3240.080	3240.080	3243.080	3243.080	458
Blanking cover	2 pc(s).	3240.020	3240.020	3240.020	3243.020	3243.020	459
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	3110.100	467
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	466

# TopTherm fan-and-filter units


Air throughput 700 m<sup>3</sup>/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~, 50 460, 3~, 60	
<b>Air throughput, unimpeded air flow</b> m <sup>3</sup> /h		<b>700 / 770</b>	<b>700 / 770</b>	<b>700 / 770</b>	
Rated current A		0.43 / 0.6	0.9 / 1.25	0.17 / 0.21	
Pre-fuse A		4	6	-	
Motor circuit-breaker A		-	-	0.2...0.4	
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	
Weight kg		4.3	4.3	4.1	

## Accessories

Outlet filter	1 pc(s).	3243.200	3243.200	3243.200	457
Spare filter mats		see page	see page	see page	456
Fine filter mats	5 pc(s).	3183.100	3183.100	3183.100	457
Hose-proof hood	1 pc(s).	3243.080	3243.080	3243.080	458
Blanking cover	2 pc(s).	3243.020	3243.020	3243.020	459
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	467
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	466

Accessories



## Spare filter mats

see page 456

# TopTherm fan-and-filter units



**Air throughputs incl. outlet filter and protection categories** Page 401 **Accessories for climate control** Page 454 **Therm software** Page 474

## Colour:

- RAL 7035

## Supply includes:

- Complete unit ready to install, including filter mat

## Note:

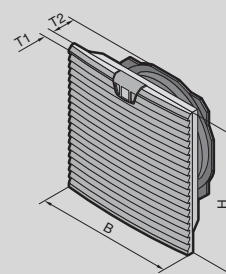
- For energy-efficient operation of the fan-and-filter units, we recommend using the enclosure internal thermostat, the speed control or the digital enclosure internal temperature display and thermostat

## Approvals:

Available on the Internet

## Performance diagrams:

Available on the Internet



## Air throughput 20 – 180 m<sup>3</sup>/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	
<b>Air throughput, unimpeded air flow</b> m <sup>3</sup> /h		<b>20 / 25</b>	<b>55 / 66</b>	<b>105 / 120</b>	<b>180 / 160</b>	
Rated current A		0.065 / 0.052	0.12 / 0.11	0.12 / 0.11	0.21 / 0.19	
Pre-fuse A		2	2	2	2	
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, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	Diagonal, self-starting shaded pole motor	
Operating temperature range		-15°C...+55°C	-10°C...+55°C	-10°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	
Weight kg		0.485	2.0	1.2	2.12	

## Accessories

Accessories	Packs of	3237.600	3238.600	3239.600	3240.600	Page
Outlet filter	1 pc(s).	3237.060	3238.060	3239.060	3240.060	457
Spare filter mats	5 pc(s).	3237.066	3238.066	3239.066	3240.066	456
Fine filter mats	5 pc(s).	-	3238.055	3181.100	3182.100	457
Hose-proof hood	1 pc(s).	3237.080	3238.080	3239.080	3240.080	458
Speed control	1 pc(s).	3120.200	3120.200	3120.200	3120.200	470
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	467
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	466
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	468
Hygrostat with strain relief	1 pc(s).	3118.100	3118.100	3118.100	3118.100	468



# TopTherm fan-and-filter units

Air throughput 230 – 900 m<sup>3</sup>/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	
<b>Air throughput, unimpeded air flow</b> m <sup>3</sup> /h		<b>230 / 250</b>	<b>550 / 600</b>	<b>700 / 770</b>	<b>900</b>	
Rated current A		0.26 / 0.24	0.37 / 0.39	0.43 / 0.6	1.33 / 1.33	
Pre-fuse A		4	4	4	4	
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, self-starting 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	
Weight kg		2.12	3.56	4.28	3.5	

## Accessories

Outlet filter	1 pc(s).	3240.060	3243.060	3243.060	3243.060	457
Spare filter mats	5 pc(s).	3240.066	3243.066	3243.066	3243.066	456
Fine filter mats	5 pc(s).	3182.100	3183.100	3183.100	3183.100	457
Hose-proof hood	1 pc(s).	3240.080	3243.080	3243.080	3245.080	458
Speed control	1 pc(s).	3120.200	3120.200	3120.200	-	470
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	467
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	466
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	468
Hygrostat with strain relief	1 pc(s).	3118.100	3118.100	3118.100	3118.100	468

Accessories



EC speed control

see page 469

# TopTherm fan-and-filter units



**Air throughputs incl. outlet filter and protection categories** Page 401 **Accessories for climate control** Page 454 **Therm software** Page 474

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 tachometer 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:**

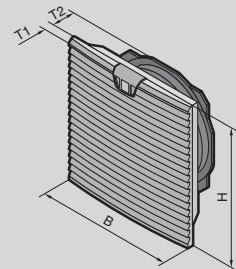
- For even more efficient operation or for monitoring the fan-and-filter units, we recommend the use of an EC speed control for EC fan-and-filter units

**Approvals:**

Available on the Internet

**Performance diagrams:**

Available on the Internet



## Air throughput 55 – 230 m<sup>3</sup>/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	
<b>Air throughput, unimpeded air flow m<sup>3</sup>/h</b>		<b>55</b>	<b>105</b>	<b>180</b>	<b>230</b>	
Rated current A		0.05	0.05	0.12	0.17	
Pre-fuse A		6	6	6	6	
Power consumption W		6	6	11	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	53	47	52	
Weight kg		0.615	0.91	2.01	1.983	

**Accessories**

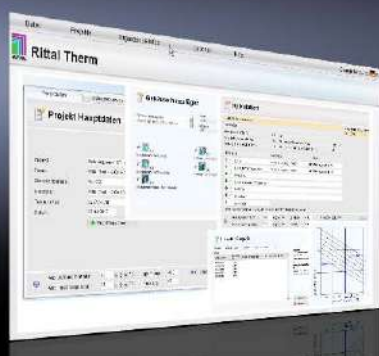
Accessories		3238.200	3239.200	3240.200	3240.200	Page
Outlet filter	1 pc(s).	3238.200	3239.200	3240.200	3240.200	457
Spare filter mats		see page	see page	see page	see page	456
Fine filter mats	5 pc(s).	3238.055	3181.100	3182.100	3182.100	457
Hose-proof hood	1 pc(s).	3238.080	3239.080	3240.080	3240.080	458
Blanking cover	2 pc(s).	3238.020	3239.020	3240.020	3240.020	459
EC speed control – Control unit for EC fan	1 pc(s).	–	–	3235.440	3235.440	469
EC speed control – Sensor for speed control	1 pc(s).	–	–	3235.450	3235.450	469
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	467
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	466

# TopTherm fan-and-filter units

Air throughput 550 – 900 m<sup>3</sup>/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	
<b>Air throughput, unimpeded air flow m<sup>3</sup>/h</b>		<b>550</b>	<b>700</b>	<b>900</b>	<b>900</b>	
Rated current A		0.5	0.7	1.33	2.1	
Pre-fuse A		6	6	4	6	
Power consumption W		51	80	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	64	72	72	
Weight kg		2.92	2.7	3.46	3.76	
<b>Accessories</b>						
Outlet filter	1 pc(s).	3243.200	3243.200	3243.200	3243.200	457
Spare filter mats		see page	see page	see page	see page	456
Fine filter mats	5 pc(s).	3183.100	3183.100	3183.100	3183.100	457
Hose-proof hood	1 pc(s).	3243.080	3243.080	3245.080	3245.080	458
Blanking cover	2 pc(s).	3243.020	3243.020	3243.020	3243.020	459
EC speed control – Control unit for EC fan	1 pc(s).	3235.440	3235.440	3235.440	3235.440	469
EC speed control – Sensor for speed control	1 pc(s).	3235.450	3235.450	3235.450	3235.450	469
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	467
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	466

Accessories



Therm software

see page 474

# TopTherm fan-and-filter units

## Air throughput and protection category

### TopTherm fan-and-filter units

Model No.	Air throughput m <sup>3</sup> /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	
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 54/ Type 12	-	IP 56/ Type 3, 3R	
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			IP 55/ Type 12	-	IP 56/ Type 3, 3R Type 4, 4X
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 3240.200 203/230	1 x 3243.200 203/230	IP 55/ Type 12		-	IP 56/ Type 3, 3R Type 4, 4X	
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	-	IP 55/ Type 12		-	IP 56/ Type 3, 3R Type 4, 4X	
3243.110									
3244.100	700/770	1 x 3243.200 544/587	2 x 3243.200 614/662	-					IP 55/ Type 12
3244.110									
3244.140									

### TopTherm fan-and-filter units, EMC

Model No.	Air throughput m <sup>3</sup> /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								
3239.600	55/66	1 x 3238.060 43/50	2 x 3238.060 46/56					
3240.600	105/120	1 x 3239.060 87/100	2 x 3239.060 93/108	1 x 3240.060 98/111		IP 54/ Type 12	-	IP 56/ Type 3, 3R Type 4, 4X
3241.600								
3242.600	180/160	1 x 3240.060 138/121	2 x 3240.060 165/140	1 x 3243.060 165/140				
3243.600	230/250	1 x 3240.060 183/205	2 x 3240.060 203/230	1 x 3243.060 203/230		IP 55/ Type 12	-	IP 56/ Type 3, 3R Type 4, 4X
3244.600								
3245.600	550/600	1 x 3243.060 465/510	2 x 3243.060 508/548					
3246.600	700/770	1 x 3243.060 544/587	2 x 3243.060 630/690	-		IP 55/ Type 12	-	IP 56/ Type 3, 3R Type 4, 4X
3247.600								
3248.600	900	1 x 3243.060 680	2 x 3243.060 820					

### TopTherm fan-and-filter units with EC technology

Model No.	Air throughput m <sup>3</sup> /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								
3240.500	105	1 x 3239.200 87	2 x 3239.200 93	1 x 3240.200 98				
3241.500	180	1 x 3240.200 138	2 x 3240.200 165	1 x 3243.200 165		IP 54/ Type 12	IP 55/ Type 12	IP 56/ Type 3, 3R Type 4, 4X
3242.500								
3243.500	230	1 x 3240.200 183	2 x 3240.200 203	1 x 3243.200 203				
3244.500	550	1 x 3243.200 465	2 x 3243.200 508	-		IP 54/ Type 12	IP 55/ Type 12	IP 56/ Type 3, 3R Type 4, 4X
3245.500								
3246.500	700	1 x 3243.200 544	2 x 3243.200 630					
3247.500	900	1 x 3243.200 680	2 x 3243.200 820	-		IP 51	IP 52	IP 56/ Type 1, 12 Type 3, 3R
3248.500								
3249.500	900	1 x 3243.200 680	2 x 3243.200 820					

# Roof-mounted fan, roof vent



## Accessories for climate control Page 454

### Colour:

– RAL 7035

### Protection category IP to IEC 60 529:

– IP 21 without filter mat  
– IP 55 including filter mat

### Supply includes:

– Complete unit ready to install, including filter mat

### Note:

– For energy-efficient operation of the fans, 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 – 873 m<sup>3</sup>/h

Model No.	Packs of	3138.000	3139.100	3139.110	3140.100	3140.110	3140.140	Page
Rated operating voltage V, ~, Hz		–	230, 1~, 50/60	115, 1~, 50/60	230, 1~, 50/60	115, 1~, 50/60	400, 3~, 50/60 460, 3~, 60	
<b>Air throughput, unimpeded air flow (without filter mats) m<sup>3</sup>/h</b>		–	<b>500 / 525</b>	<b>500 / 525</b>	<b>873 / 965</b>	<b>873 / 965</b>	<b>863 / 942</b>	
<b>Air throughput, unimpeded air flow (with filter mats) m<sup>3</sup>/h</b>		–	<b>417 / 446</b>	<b>417 / 446</b>	<b>725 / 759</b>	<b>725 / 759</b>	<b>700 / 749</b>	
Rated current A		–	0.22 / 0.27	0.43 / 0.55	0.43 / 0.56	0.88 / 1.17	0.17 / 0.19	
Pre-fuse A		–	6	6	6	6	–	
Motor circuit-breaker A		–	–	–	–	–	6.3...10	
Power consumption W		–	50 / 62	49 / 62	98 / 130	101 / 135	90 / 122	
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		-30°C...+55°C	-30°C...+55°C	-30°C...+55°C	-30°C...+55°C	-30°C...+55°C	-30°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	

### Accessories

Outlet filter	1 pc(s).	3243.200	3243.200	3243.200	3243.200	3243.200	3243.200	457
Spare filter mats	12 pc(s).	3174.100	3174.100	3174.100	3174.100	3174.100	3174.100	456
Thermostat	1 pc(s).	–	3110.000	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	–	3110.100	3110.100	3110.100	3110.100	3110.100	467
Digital enclosure internal temperature display and thermostat	1 pc(s).	–	3114.200	3114.200	3114.200	3114.200	3114.200	466
Hygrostat	1 pc(s).	–	3118.000	3118.000	3118.000	3118.000	3118.000	468
Hygrostat with strain relief	1 pc(s).	–	3118.100	3118.100	3118.100	3118.100	3118.100	468



## Accessories for climate control Page 454

Energy-efficient and powerful design of the roof-mounted fans. The fan may be activated via the control interface with tachometer 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

### 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 m<sup>3</sup>/h, with EC technology

Model No.	Packs of	3140.500	3140.510	Page
Control interface		■	■	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	115, 1~, 50/60	
<b>Air throughput, unimpeded air flow (without filter mats) m<sup>3</sup>/h</b>		<b>1069 / 1069</b>	<b>1069 / 1069</b>	
<b>Air throughput, unimpeded air flow (with filter mats) m<sup>3</sup>/h</b>		<b>841 / 841</b>	<b>841 / 841</b>	
Rated current A		0.99 / 0.99	1.45 / 1.45	
Pre-fuse A		6	6	
Power consumption W		129 / 129	106 / 106	
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		-30°C...+55°C	-30°C...+55°C	
Storage temperature range		-40°C...+70°C	-40°C...+70°C	
<b>Accessories</b>				
Outlet filter	1 pc(s).	3243.200	3243.200	457
Spare filter mats	12 pc(s).	3174.100	3174.100	456
EC speed control Control unit for EC fan	1 pc(s).	3235.440	3235.440	469
EC speed control Sensor for speed control	1 pc(s).	3235.450	3235.450	469
Thermostat	1 pc(s).	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	467
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	466
Hygrostat	1 pc(s).	3118.000	3118.000	468
Hygrostat with strain relief	1 pc(s).	3118.100	3118.100	468

# Rack-mounted fans for 482.6 mm (19")



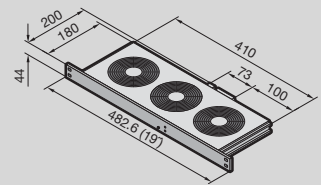
Accessories for climate control Page 454

### 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 m<sup>3</sup>/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)	
<b>Air throughput, unimpeded air flow m<sup>3</sup>/h</b>		<b>320</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>	
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	
Pre-fuse A		6	6	6	6	6	6	
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

Accessories	Quantity	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	Page
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	466
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	3110.100	3110.100	467
Speed control	1 pc(s).	3120.200	3120.200	3120.200	-	3120.200	-	470

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



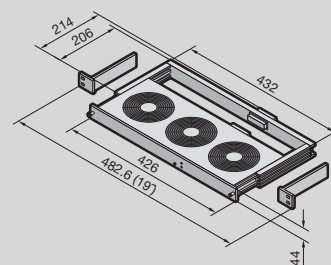
## Accessories for climate control Page 454

### 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 m<sup>3</sup>/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)	
<b>Air throughput, unimpeded air flow m<sup>3</sup>/h</b>		<b>320</b>	<b>480</b>	<b>480</b>	<b>480</b>	
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	
Pre-fuse A		6	6	6	6	
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	
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### Accessories

Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	466
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	467
Speed control	1 pc(s).	3120.200	3120.200	3120.200	-	470



# Tangential fans for 482.6 mm (19")



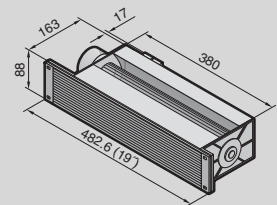
Accessories for climate control Page 454

**Supply includes:**

- Fully wired unit ready for connection
- Filter mat

**Approvals:**

Available on the Internet



## Air throughput, unimpeded air flow 320 m<sup>3</sup>/h

Model No.	Packs of	3144.000	Page
Rated operating voltage V, ~, Hz		230, 1~, 50/60	
<b>Air throughput, unimpeded air flow m<sup>3</sup>/h</b>		<b>320</b>	
Rated current A		0.16	
Power consumption W		37	
Width mm		482.6	
Height mm		88	
Depth mm		158	
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	
<b>Accessories</b>			
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	466
Thermostat	1 pc(s).	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	467
Filter mats	5 pc(s).	3177.000	454
Front outlet grille 2 U	1 pc(s).	3176.000	459
Speed control	1 pc(s).	3120.200	470

# TopTherm air/air heat exchanger



## Accessories for climate control Page 454

### 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

### Supply includes:

- Complete unit ready for connection
- Plug-in terminal strip
- Floating fault signal contact in case of overtemperature

### 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	
<b>Specific thermal output W/K</b>		<b>17.5</b>	<b>30</b>	<b>45</b>	<b>60</b>	<b>90</b>	
Max. rated current per fan A		0.11 / 0.13	0.28 / 0.34	0.3 / 0.4	0.38 / 0.4	0.67 / 0.88	
Pre-fuse A		2	2	2	2	4	
Output per fan W		23 / 27	60 / 75	70 / 90	85 / 90	150 / 200	
Air throughput of fans (unimpeded air flow), external circuit m <sup>3</sup> /h		265 / 315	480 / 525	600 / 625	860 / 900	850 / 945	
Air throughput of fans (unimpeded air flow), internal circuit m <sup>3</sup> /h		265 / 315	480 / 525	600 / 625	860 / 900	850 / 945	
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	
<b>Accessories</b>							
Filter mats	3 pc(s).	3286.300	3286.400	3286.400	3286.400	3286.400	454
Metal filters	1 pc(s).	3286.310	3286.410	3286.410	3286.410	3286.410	455

# Air/air heat exchanger



Accessories for climate control Page 454 Therm software Page 474

**Colour:**

- RAL 7035
- RAL 9005

**Protection category IP to IEC 60 529:**

- Internal circuit IP 54

**Supply includes:**

- Complete unit ready for connection
- The fans are connected via two 3-wire connection cables, with wire end ferrules

**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	
<b>Specific thermal output W/K</b>		<b>66</b>	
No. of fans		2	
Max. rated current per fan A		0.45 / 0.55	
Pre-fuse A		4	
Output per fan W		75	
Air throughput of fans (unimpeded air flow), external circuit m <sup>3</sup> /h		965	
Air throughput of fans (unimpeded air flow), internal circuit m <sup>3</sup> /h		965	
Width mm		595	
Height mm		362	
Depth mm		440	
Operating temperature range		-5°C...+55°C	
Type of electrical connection		Connection cable	
Weight kg		16.8	
<b>Accessories</b>			
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	466
Thermostat	1 pc(s).	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	467
Hygrostat	1 pc(s).	3118.000	468
Hygrostat with strain relief	1 pc(s).	3118.100	468
Speed control	1 pc(s).	3120.200	470

# Rittal – The System.

Faster – better – everywhere.

## Roof-mounted fans – Simple assembly and a high protection category



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES



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# Cooling units

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## World's first The world's most efficient range of cooling units – Blue e+

### The principle:

- **Efficient** – Energy savings of up to 75% due to speed-regulated components and heat pipe technology
- **Versatile** – Unique multi-voltage capability supports global use
- **Safe** – Longer service life of all components inside the enclosure and the cooling unit due to component-friendly cooling
- **User-friendly** – Touch display and intelligent interfaces support intuitive operation

# Thermoelectric cooler



Accessories for climate control Page 454 Therm software Page 474

## Material:

- Device: Aluminium, anodised

## Colour:

- Colour of cover: RAL 7024

## Protection category IP to IEC 60 529:

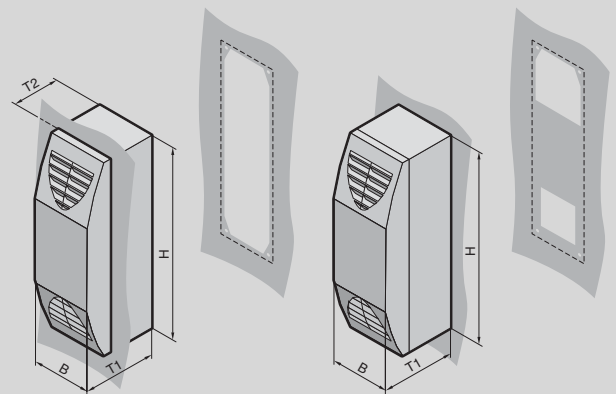
- External circuit IP 34
- Internal circuit IP 54

## Supply includes:

- Thermoelectric climate control unit
- Fully wired ready for connection (plug-in terminal strip)
- Mounting accessories
- Parameterisation software

## Performance diagrams:

Available on the Internet



## Total cooling/heating output 100 W

Model No.	Packs of	3201.200	3201.300	Page
Rated operating voltage V, ~, Hz		100 - 240, 1~, 50/60	24 (DC)	
<b>Total cooling output L35 L35 W</b>		<b>100 / 100</b>	<b>100</b>	
<b>Thermal output W</b>		<b>100</b>	<b>100</b>	
Width (B) mm		125	125	
Height (H) mm		400	400	
Depth (T1) mm		155	155	
Installation depth (T2) mm		100	100	
Pre-fuse A		4	10	
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		1	1.2	
Power pack integrated		■	-	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m³/h		45 / 45	45 / 45	
Weight kg		3.0	2.4	
<b>Accessories</b>				
Spare filter mats	5 pc(s).	3201.050	3201.050	456
Master/slave adaptor	1 pc(s).	3201.070	3201.070	471
Condensate hose	1 pc(s).	3301.606	3301.606	464

# TopTherm wall-mounted cooling units, horizontal format



Accessories for climate control Page 454 Therm software Page 474

## Temperature control:

- Basic controller (factory setting +35°C)

## Colour:

- RAL 7035

## Protection category IP to IEC 60 529:

- External circuit IP 34
- Internal circuit IP 54

## Supply includes:

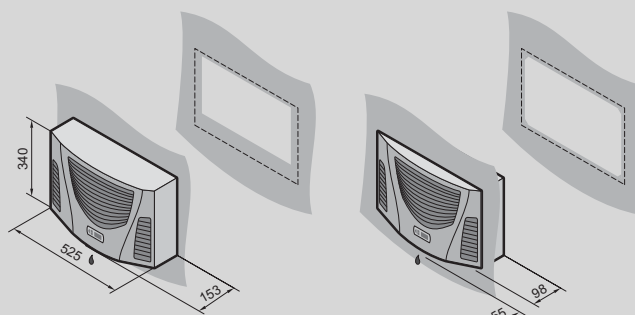
- Nano-coated condenser
- Fully wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly parts

## 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	■	■	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>0.36</b>	-	
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	
Pre-fuse A		10	10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.27 / 0.29	0.32	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		0.31 / 0.33	0.37	
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 Hz L35 L35 to DIN EN 14511		1.3	1.18	
Refrigerant g		R134a, 100	R134a, 95	
Permissible operating pressure (p. max.) bar		25	25	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		310 / 310	300 / 300	
Weight kg		13.0	13.0	
<b>Accessories</b>				
Filter mats	3 pc(s).	3286.110	3286.110	454
Metal filters	1 pc(s).	3286.120	3286.120	455
Door-operated switch	1 pc(s).	4127.010	4127.010	755
Condensate hose	1 pc(s).	3301.608	3301.608	464



# TopTherm wall-mounted cooling units



Accessories for climate control Page 454 Therm software Page 474

#### 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:

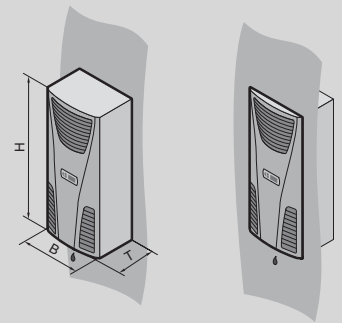
- Nano-coated condenser
- Fully wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly parts

#### 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	-	-	■	
Colour	RAL 7035	■	■	-	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>0.36</b>	-	<b>0.36</b>	
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	
Pre-fuse A		10	10	10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.27 / 0.28	0.32	0.27 / 0.28	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		0.28 / 0.3	0.37	0.28 / 0.3	
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 Hz L35 L35 to DIN EN 14511		1.3	1.18	1.3	
Refrigerant g		R134a, 100	R134a, 100	R134a, 100	
Permissible operating pressure (p. max.) bar		25	25	25	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		345 / 310	345 / 310	345 / 310	
Weight kg		13.0	13.0	13.0	
<b>Accessories</b>					
Filter mats	3 pc(s).	3286.300	3286.300	3286.300	454
Metal filters	1 pc(s).	3286.310	3286.310	3286.310	455
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	755
Condensate hose	1 pc(s).	3301.608	3301.608	3301.608	464

# TopTherm wall-mounted cooling units "Blue e"



Accessories for climate control Page 454 Therm software Page 474 RiDiag software Page 474

## 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:

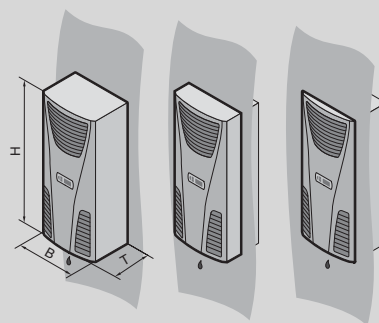
- Nano-coated condenser
- Fully wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly parts

## Approvals:

Available on the Internet

## Performance diagrams:

Available on the Internet



## Output class 500 W

Model No.	Packs of	3303.500	3303.510	3303.600	Page
Material	Sheet steel	■	■	-	
	Stainless steel	-	-	■	
Colour	RAL 7035	■	■	-	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>0.55</b>	-	<b>0.55</b>	
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	
Pre-fuse A		10	10	10	
Transformer circuit-breaker		-	-	-	
Toroidal transformer (external) Ø x D		-	-	-	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.39 / 0.41	0.5	0.39 / 0.41	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		0.45 / 0.42	0.53	0.45 / 0.42	
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 Hz L35 L35 to DIN EN 14511		1.4	1.4	1.4	
Refrigerant g		R134a, 170	R134a, 170	R134a, 170	
Permissible operating pressure (p. max.) bar		28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		265 / 315	280 / 345	265 / 315	
Weight kg		17.0	17.0	17.0	

## Accessories

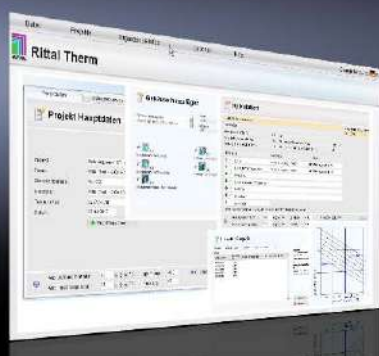
Accessories	Packs of	3286.300	3286.310	3286.310	Page
Filter mats	3 pc(s).	3286.300	3286.310	3286.310	454
Metal filters	1 pc(s).	3286.310	3286.310	3286.310	455
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	755
Interface board	1 pc(s).	3124.200	3124.200	3124.200	470

# TopTherm wall-mounted cooling units "Blue e"

## Output class 750 W

Model No.	Packs of	3361.500	3361.510	3361.540	3361.600	Page
Material	Sheet steel	■	■	■	–	
	Stainless steel	–	–	–	■	
Colour	RAL 7035	■	■	■	–	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>0.85</b>	–	<b>0.85</b>	<b>0.85</b>	
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	
Pre-fuse A		10	10	–	10	
Transformer circuit-breaker A		–	–	6.3...10	–	
Toroidal transformer (external) Ø x D mm		–	–	126 x 65	–	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.4 / 0.43	0.55	0.4 / 0.43	0.4 / 0.43	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		0.47 / 0.5	0.66	0.47 / 0.5	0.47 / 0.5	
Operating temperature range		+10°C...+55°C	+10°C...+55°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 Hz L35 L35 to DIN EN 14511		2.08	1.59	2.08	2.08	
Refrigerant g		R134a, 280	R134a, 260	R134a, 280	R134a, 280	
Permissible operating pressure (p. max.) bar		28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		230 / 550	230 / 625	230 / 550	230 / 550	
Weight kg		22.0	22.0	22.0	22.0	
<b>Accessories</b>						
Filter mats	3 pc(s).	3286.300	3286.300	3286.300	3286.300	454
Metal filters	1 pc(s).	3286.310	3286.310	3286.310	3286.310	455
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	755
Interface board	1 pc(s).	3124.200	3124.200	3124.200	3124.200	470

## Accessories



## Therm software

see page 474

# TopTherm wall-mounted cooling units "Blue e"



Accessories for climate control Page 454 Therm software Page 474 RiDiag software Page 474

## 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:

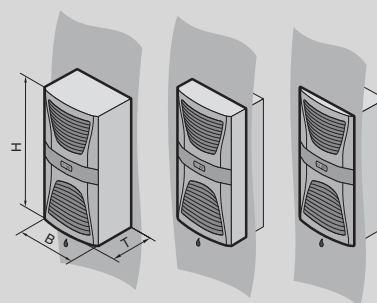
- Nano-coated condenser
- Integral electric condensate evaporation
- Fully wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly parts

## Approvals:

Available on the Internet

## Performance diagrams:

Available on the Internet



## Output class 1000 W

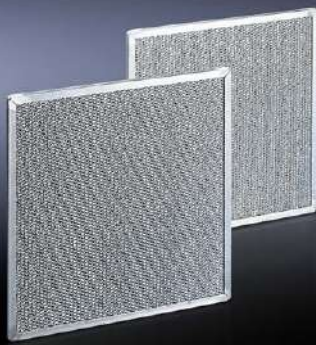
Model No.	Packs of	3304.500	3304.510	3304.540	3304.600	3304.640	Page
Material	Sheet steel	■	■	■	-	-	
	Stainless steel	-	-	-	■	■	
Colour	RAL 7035	■	■	■	-	-	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>1.1</b>	<b>1.1</b>	<b>1.1</b>	<b>1.1</b>	<b>1.1</b>	
Total cooling output 50/60 Hz L35 L35 kW		1.1 / 1.25	1.1 / 1.25	1.1 / 1.25	1.1 / 1.25	1.1 / 1.25	
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	5.4 / 5	2.8 / 2.4	
Start-up current A		12 / 14	26 / 28	11.5 / 12.7	12 / 14	11.5 / 12.7	
Pre-fuse A		10	-	-	10	-	
Transformer circuit-breaker A		-	11...16	-	-	-	
Motor circuit-breaker A		-	-	6.3...10	-	6.3...10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.64 / 0.68	0.64 / 0.68	0.64 / 0.79	0.64 / 0.68	0.64 / 0.79	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		0.71 / 0.81	0.71 / 0.81	0.73 / 0.9	0.71 / 0.81	0.73 / 0.9	
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 Hz L35 L35 to DIN EN 14511		1.83	1.83	1.72	1.83	1.72	
Refrigerant g		R134a, 325	R134a, 325	R134a, 325	R134a, 325	R134a, 325	
Permissible operating pressure (p. max.) bar		28	28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		600 / 900	600 / 900	600 / 900	600 / 900	600 / 900	
Weight kg		39.0	44.0	40.0	39.0	40.0	
<b>Accessories</b>							
Filter mats		3 pc(s).	3286.400	3286.400	3286.400	3286.400	454
Metal filters		1 pc(s).	3286.410	3286.410	3286.410	3286.410	455
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	755

# TopTherm wall-mounted cooling units "Blue e"

## Output class 1500 W

Model No.	Packs of	3305.500	3305.510	3305.540	3305.600	3305.640	Page
Material	Sheet steel	■	■	■	–	–	
	Stainless steel	–	–	–	■	■	
Colour	RAL 7035	■	■	■	–	–	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	
Total cooling output 50/60 Hz L35 L35 kW		1.6 / 1.76	1.6 / 1.76	1.6 / 1.61	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	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	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		5.5 / 5.8	11.5 / 12.5	2.5 / 2.8	5.5 / 5.8	2.5 / 2.8	
Start-up current A		12 / 14	26 / 28	12.2 / 11.3	12 / 14	12.2 / 11.3	
Pre-fuse A		16	–	–	16	–	
Transformer circuit-breaker A		–	14...20	–	–	–	
Motor circuit-breaker A		–	–	6.3...10	–	6.3...10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.87 / 0.98	0.87 / 0.98	0.9 / 1.08	0.87 / 0.98	0.9 / 1.08	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		1.03 / 1.15	1.03 / 1.15	1.06 / 1.25	1.03 / 1.15	1.06 / 1.25	
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 Hz L35 L35 to DIN EN 14511		1.83	1.83	1.83	1.83	1.83	
Refrigerant g		R134a, 500	R134a, 500	R134a, 500	R134a, 500	R134a, 500	
Permissible operating pressure (p. max.) bar		28	28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		800 / 900	800 / 900	800 / 900	800 / 900	800 / 900	
Weight kg		41.0	46.0	42.0	41.0	42.0	
<b>Accessories</b>							
Filter mats	3 pc(s).	3286.400	3286.400	3286.400	3286.400	3286.400	454
Metal filters	1 pc(s).	3286.410	3286.410	3286.410	3286.410	3286.410	455
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	755

Accessories



## Metal filters

see page 455

# TopTherm wall-mounted cooling units "Blue e"



Accessories for climate control Page 454 Therm software Page 474 RiDiag software Page 474

## 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:

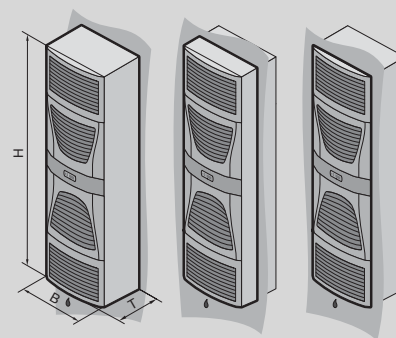
- Nano-coated condenser
- Integral electric condensate evaporation
- Fully wired ready for connection (plug-in terminal strip)
- Drilling template
- Assembly parts

## Approvals:

Available on the Internet

## Performance diagrams:

Available on the Internet



## Output class 2000 W

Model No.	Packs of	3328.500	3328.510	3328.540	3328.600	3328.640	Page
Material	Sheet steel	■	■	■	-	-	
	Stainless steel	-	-	-	■	■	
Colour	RAL 7035	■	■	■	-	-	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>2.2</b>	<b>2.2</b>	<b>2.2</b>	<b>2.2</b>	<b>2.2</b>	
Total cooling output 50/60 Hz L35 L35 kW		2.2 / 2.56	2.2 / 2.56	2.2 / 2.55	2.2 / 2.56	2.2 / 2.55	
Total cooling output 50/60 Hz L35 L50 kW		1.82 / 1.95	1.82 / 1.95	1.65 / 1.89	1.82 / 1.95	1.65 / 1.89	
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		1580	1580	1580	1580	1580	
Depth (T) mm		295	295	295	295	295	
Rated current max. A		6.1 / 6.6	13.4 / 14.8	2.8 / 3.3	6.1 / 6.6	2.8 / 3.3	
Start-up current A		20 / 22	40 / 38	6.8 / 7.8	20 / 22	6.8 / 7.8	
Pre-fuse A		16	-	-	16	-	
Transformer circuit-breaker A		-	18...25	-	-	-	
Motor circuit-breaker A		-	-	6.3...10	-	6.3...10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.91 / 1.03	0.91 / 1.03	0.92 / 1.15	0.91 / 1.03	0.92 / 1.15	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		1.06 / 1.23	1.06 / 1.23	1.15 / 1.4	1.06 / 1.23	1.15 / 1.4	
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 Hz L35 L35 to DIN EN 14511		2.4	2.4	2.4	2.4	2.4	
Refrigerant g		R134a, 950	R134a, 950	R134a, 950	R134a, 950	R134a, 950	
Permissible operating pressure (p. max.) bar		28	28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		980 / 980	980 / 980	900 / 900	980 / 980	900 / 900	
Weight kg		66.0	73.0	67.0	66.0	67.0	

## Accessories

Filter mats	3 pc(s).	3286.400	3286.400	3286.400	3286.400	3286.400	454
Metal filters	1 pc(s).	3286.410	3286.410	3286.410	3286.410	3286.410	455

# TopTherm wall-mounted cooling units "Blue e"

## Output class 2500 W

Model No.	Packs of	3329.500	3329.510	3329.540	3329.600	3329.640	Page
Material	Sheet steel	■	■	■	-	-	
	Stainless steel	-	-	-	■	■	
Colour	RAL 7035	■	■	■	-	-	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>2.55</b>	<b>2.55</b>	<b>2.55</b>	<b>2.55</b>	<b>2.55</b>	
Total cooling output 50/60 Hz L35 L35 kW		2.55 / 2.71	2.55 / 2.71	2.55 / 2.75	2.55 / 2.71	2.55 / 2.75	
Total cooling output 50/60 Hz L35 L50 kW		1.89 / 1.97	1.89 / 1.97	1.95 / 2	1.89 / 1.97	1.95 / 2	
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		1580	1580	1580	1580	1580	
Depth (T) mm		295	295	295	295	295	
Rated current max. A		8.2 / 9.3	17 / 22	3.7 / 3.8	8.2 / 9.3	3.7 / 3.8	
Start-up current A		20 / 24	44 / 42	6.8 / 7.6	20 / 24	6.8 / 7.6	
Pre-fuse A		16	-	-	16	-	
Transformer circuit-breaker A		-	18...25	-	-	-	
Motor circuit-breaker A		-	-	6.3...10	-	6.3...10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		1.21 / 1.35	1.21 / 1.35	1.19 / 1.39	1.21 / 1.35	1.19 / 1.39	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		1.41 / 1.64	1.41 / 1.64	1.45 / 1.75	1.41 / 1.64	1.45 / 1.75	
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 Hz L35 L35 to DIN EN 14511		2.11	2.11	2.11	2.11	2.11	
Refrigerant g		R134a, 950	R134a, 950	R134a, 950	R134a, 950	R134a, 950	
Permissible operating pressure (p. max.) bar		28	28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		1230 / 1230	1230 / 1230	1200 / 1200	1230 / 1230	1200 / 1200	
Weight kg		69.0	76.0	70.0	69.0	70.0	
<b>Accessories</b>							
Filter mats	3 pc(s).	3286.400	3286.400	3286.400	3286.400	3286.400	454
Metal filters	1 pc(s).	3286.410	3286.410	3286.410	3286.410	3286.410	455

## Output class 4000 W

Model No.	Packs of	3332.540	3332.640	Page
Material	Sheet steel	■	-	
	Stainless steel	-	■	
Colour	RAL 7035	■	-	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>3.95</b>	<b>3.95</b>	
Total cooling output 50/60 Hz L35 L35 kW		3.95 / 4.35	3.95 / 4.35	
Total cooling output 50/60 Hz L35 L50 kW		3.02 / 3.52	3.02 / 3.52	
Rated operating voltage V, ~, Hz		400, 3~, 50/460, 3~, 60	400, 3~, 50/460, 3~, 60	
Width (B) mm		500	500	
Height (H) mm		1580	1580	
Depth (T) mm		340	340	
Rated current max. A		4.2 / 4.2	4.2 / 4.2	
Start-up current A		9.2 / 11	9.2 / 11	
Pre-fuse		-	-	
Transformer circuit-breaker		-	-	
Motor circuit-breaker A		6.3...10	6.3...10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		1.6 / 2	1.6 / 2	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		1.87 / 2.34	1.87 / 2.34	
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 Hz L35 L35 to DIN EN 14511		2.47	2.47	
Refrigerant g		R134a, 2995	R134a, 2995	
Permissible operating pressure (p. max.) bar		28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		1500 / 2000	1500 / 2000	
Weight kg		91.0	91.0	
<b>Accessories</b>				
Filter mats	3 pc(s).	3286.400	3286.400	454
Metal filters	1 pc(s).	3286.410	3286.410	455

# TopTherm wall-mounted cooling units "Blue e", slimline



Accessories for climate control Page 454 Therm software Page 474 RiDiag software Page 474

#### 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 1500 W

Model No.	Packs of	3366.500	3366.540	Page
Material	Sheet steel	■	■	
Colour	RAL 7035	■	■	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>1.6</b>	<b>1.6</b>	
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 W		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	
Pre-fuse A		10	-	
Transformer circuit-breaker		-	-	
Motor circuit-breaker A		-	6.3...10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.84 / 0.97	0.9 / 1.05	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		1.02 / 1.13	1.08 / 1.25	
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 Hz L35 L35 to DIN EN 14511		1.9	1.9	
Refrigerant g		R134a, 700	R134a, 700	
Permissible operating pressure (p. max.) bar		28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		860 / 910	860 / 910	
Weight kg		45.0	46.0	

#### Accessories

Filter mats	3 pc(s).	3286.400	3286.400	454
Metal filters	1 pc(s).	3286.410	3286.410	455
Door-operated switch	1 pc(s).	4127.010	4127.010	755
Condensate hose	1 pc(s).	3301.612	3301.612	464



# Wall-mounted cooling units Blue e+



## Get information faster

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



## Blue e+ app

- Contactless information exchange and rapid, direct on-site analysis via an NFC interface
- Send simple repair, maintenance and spare parts enquiries directly from your smartphone
- Save device data directly on the device



## Easier to operate

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



# Wall-mounted cooling units Blue e+



## Assembly made easy

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



## Fast assembly

- Handle serves as both carrying and positioning aid
- Mounting clip as a securing aid
- Eyebolts for easy mounting



## Maximum versatility with unique multi-voltage capability

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



# Wall-mounted cooling units Blue e+



Accessories for climate control Page 454 Therm software Page 474 RiDiag software Page 474

## Benefits:

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

## Temperature control:

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

## Material:

- Sheet steel

## Colour:

- RAL 7035

## Protection category IP to IEC 60 529:

- Internal circuit IP 55

## Supply includes:

- Assembly parts
- Fully wired ready for connection (plug-in terminal strip)

## Note:

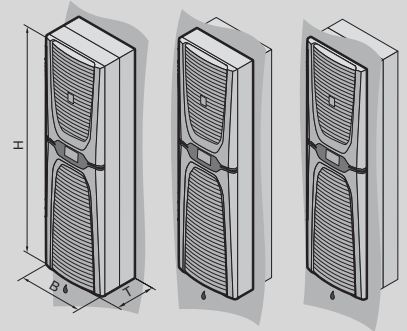
- Please observe the mounting instructions.

## Approvals:

- Available on the Internet

## Performance diagrams:

- Available on the Internet



## Output class 2000 – 6000 W

Model No.	Packs of	3186.930	3187.930	3188.940	3189.940	Page
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>2</b>	<b>2.6</b>	<b>4.2</b>	<b>5.8</b>	
Total cooling output 50/60 Hz L35 L35 kW		2 / 2	2.6 / 2.6	4.2 / 4.2	5.8 / 5.8	
Total cooling output 50/60 Hz L35 L50 kW		1.29 / 1.29	1.82 / 1.82	3.02 / 3.02	4.2 / 4.2	
Rated operating voltage V, ~, Hz		110 - 240, 1~, 50/60 380 - 480, 3~, 50/60	110 - 240, 1~, 50/60 380 - 480, 3~, 50/60	380 - 480, 3~, 50/60	380 - 480, 3~, 50/60	
Width (B) mm		450	450	450	450	
Height (H) mm		1600	1600	1600	1600	
Depth (T) mm		294	294	393	393	
Rated output kW		0.73	1.05	1.3	2.2	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.57 / 0.57	0.99 / 0.99	1.21 / 1.21	2.2 / 2.2	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		0.6 / 0.6	0.94 / 0.94	1.28 / 1.28	2.2 / 2.2	
Operating temperature range		-20°C...+60°C	-20°C...+60°C	-20°C...+60°C	-20°C...+60°C	
Setting range		+20°C...+50°C	+20°C...+50°C	+20°C...+50°C	+20°C...+50°C	
Storage temperature range		-40°C...+70°C	-40°C...+70°C	-40°C...+70°C	-40°C...+70°C	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511		3.5	2.63	3.46	2.64	
Seasonal energy efficiency ratio (SEER) 50/60 Hz L35 L35		8.1	6.2	8.1	6.2	
Refrigerant g		R134a, 1150	R134a, 1150	R134a, 1750	R134a, 1750	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		1250 / 1250	1250 / 1250	2300 / 2300	2300 / 2300	
Weight kg		55.2	55.2	72.4	72.4	
Note on Model No.		-	-	Full installation not possible	Full installation not possible	
<b>Accessories</b>						
Filter mats	3 pc(s).	3285.900	3285.900	3285.900	3285.900	454
Metal filters	1 pc(s).	3285.910	3285.910	3285.910	3285.910	455

# Revolutionary energy efficiency with innovative hybrid technology



## Unbelievably efficient

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

## Transparent efficiency comparisons

- Energy Efficiency Ratio: The standard KPI
- Seasonal Energy Efficiency Ratio: Reflecting actual consumption

## Amazingly economical

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

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



Accessories for climate control Page 454 Therm software Page 474 RiDiag software Page 474

#### Temperature control:

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

#### Protection category NEMA:

- NEMA 4X

#### Supply includes:

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

#### Note:

- 3303.XXX without integral condensate evaporation

#### 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)	■	■	■	■	■	■		
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>0.55</b>	–	<b>1.1</b>	<b>1.1</b>	<b>1.6</b>	<b>1.6</b>		
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 / 0.91	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		
Pre-fuse A		10	10	10	–	16	–		
Transformer circuit-breaker		–	–	–	–	–	–		
Motor circuit-breaker A		–	–	–	6.3...10	–	6.3...10		
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.39 / 0.41	0.47	0.64 / 0.68	0.64 / 0.79	0.87 / 0.98	0.9 / 1.08		
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		0.42 / 0.39	0.5	0.71 / 0.81	0.73 / 0.93	0.9 / 1.15	1.06 / 1.25		
Operating temperature range		+10°C...+50°C	+10°C...+50°C	+10°C...+50°C	+10°C...+50°C	+10°C...+50°C	+10°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 Hz L35 L35 to DIN EN 14511		1.4	1.31	1.83	1.83	1.83	1.83		
Refrigerant g		R134a, 170	R134a, 170	R134a, 325	R134a, 325	R134a, 600	R134a, 600		
Permissible operating pressure (p. max.) bar		28	28	28	28	28	28		
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		265 / 315	280 / 345	600 / 900	600 / 900	800 / 900	800 / 900		
Weight kg		25.0	25.0	49.0	50.0	51.0	52.0		
<b>Accessories</b>									
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	4127.010	755	

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

Output class 2000 – 2500 W

Model No.	Packs of	3328.504	3328.544	3329.504	3329.544	Page
Material	Stainless steel 1.4404 (AISI 316L)	■	■	■	■	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>		<b>2.2</b>	<b>2.2</b>	<b>2.55</b>	<b>2.55</b>	
Total cooling output 50/60 Hz L35 L35 kW		2.2 / 2.56	2.2 / 2.55	2.55 / 2.71	2.55 / 2.75	
Total cooling output 50/60 Hz L35 L50 kW		1.62 / 1.75	1.45 / 1.69	1.84 / 1.92	1.9 / 1.95	
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	
Width mm		405	405	405	405	
Height mm		1650	1650	1650	1650	
Depth mm		388	388	388	388	
Rated current max. A		6.1 / 6.6	2.8 / 3.3	8.2 / 9.3	3.7 / 3.8	
Start-up current A		20 / 22	6.8 / 7.8	20 / 24	6.8 / 7.6	
Pre-fuse A		16	–	16	–	
Transformer circuit-breaker		–	–	–	–	
Motor circuit-breaker A		–	6.3...10	–	6.3...10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.91 / 1.03	0.92 / 1.15	1.21 / 1.35	1.19 / 1.39	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		1.06 / 1.25	1.15 / 1.4	1.41 / 1.64	1.44 / 1.75	
Operating temperature range		+10°C...+50°C	+10°C...+50°C	+10°C...+50°C	+10°C...+50°C	
Setting range		+20°C...+50°C	+20°C...+50°C	+20°C...+50°C	+20°C...+50°C	
Energy efficiency ratio (EER) 50 Hz L35 L35 to DIN EN 14511		2.4	2.4	2.11	2.11	
Refrigerant g		R134a, 900	R134a, 900	R134a, 900	R134a, 900	
Permissible operating pressure (p. max.) bar		28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		980 / 980	900 / 900	1230 / 1230	1200 / 1200	
Weight kg		80.0	81.0	83.0	84.0	
<b>Accessories</b>						
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	755

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# TopTherm roof-mounted cooling units "Blue e"



Accessories for climate control Page 454 Therm software Page 474 RiDiag software Page 474 Air routing Page 461

#### 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		-	-	■	
Colour	RAL 7035		■	■	-	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>			<b>0.55</b>	<b>0.55</b>	<b>0.55</b>	
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	
Pre-fuse A			10	-	10	
Transformer circuit-breaker A			-	6.3...10	-	
Motor circuit-breaker			-	-	-	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW			0.27 / 0.31	0.27 / 0.31	0.27 / 0.32	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW			0.31 / 0.37	0.31 / 0.37	0.31 / 0.37	
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 Hz L35 L35 to DIN EN 14511			2.04	2.04	2.04	
Refrigerant g			R134a, 300	R134a, 300	R134a, 300	
Permissible operating pressure (p. max.) bar			28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h			170 / 800	170 / 800	170 / 800	
Weight kg			30.0	35.0	30.0	
<b>Accessories</b>						
Filter mats		3 pc(s).	3286.500	3286.500	3286.500	454
Metal filters		1 pc(s).	3286.510	3286.510	3286.510	455
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	755
Air duct system		1 pc(s).	3286.870	3286.870	3286.870	461

# TopTherm roof-mounted cooling units "Blue e"

## Output class 750 W

Model No.		Packs of	3359.500	3359.510	3359.540	3359.600	Page
Material	Sheet steel		■	■	■	–	
	Stainless steel		–	–	–	■	
Colour	RAL 7035		■	■	■	–	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>			<b>0.77</b>	<b>0.77</b>	<b>0.77</b>	<b>0.77</b>	
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	
Pre-fuse A			10	–	–	10	
Transformer circuit-breaker A			–	11...16	6.3...10	–	
Motor circuit-breaker			–	–	–	–	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW			0.33 / 0.43	0.33 / 0.43	0.33 / 0.43	0.33 / 0.43	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW			0.49 / 0.42	0.49 / 0.42	0.49 / 0.42	0.49 / 0.42	
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 Hz L35 L35 to DIN EN 14511			2.28	2.28	2.28	2.28	
Refrigerant g			R134a, 400	R134a, 400	R134a, 400	R134a, 400	
Permissible operating pressure (p. max.) bar			28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h			585 / 800	440 / 910	585 / 800	585 / 800	
Weight kg			32.0	37.0	37.0	32.0	
<b>Accessories</b>							
Filter mats		3 pc(s).	3286.500	3286.500	3286.500	3286.500	454
Metal filters		1 pc(s).	3286.510	3286.510	3286.510	3286.510	455
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	755
Air duct system		1 pc(s).	3286.870	3286.870	3286.870	3286.870	461

## Output class 1000 W

Model No.		Packs of	3383.500	3383.510	3383.540	3383.600	Page
Material	Sheet steel		■	■	■	–	
	Stainless steel		–	–	–	■	
Colour	RAL 7035		■	■	■	–	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>			<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	
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	
Pre-fuse A			10	–	–	10	
Transformer circuit-breaker A			–	11...16	6.3...10	–	
Motor circuit-breaker			–	–	–	–	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW			0.38 / 0.47	0.38 / 0.45	0.38 / 0.45	0.38 / 0.47	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW			0.45 / 0.57	0.43 / 0.54	0.42 / 0.54	0.43 / 0.55	
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 Hz L35 L35 to DIN EN 14511			2.58	2.58	2.58	2.58	
Refrigerant g			R134a, 650	R134a, 650	R134a, 650	R134a, 650	
Permissible operating pressure (p. max.) bar			28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h			491 / 1600	491 / 1600	491 / 1600	491 / 1600	
Weight kg			40.0	46.0	46.0	40.0	
<b>Accessories</b>							
Filter mats		3 pc(s).	3286.500	3286.500	3286.500	3286.500	454
Metal filters		1 pc(s).	3286.510	3286.510	3286.510	3286.510	455
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	755
Air duct system		1 pc(s).	3286.870	3286.870	3286.870	3286.870	461

# 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		–	–	–	–	■	
Colour	RAL 7035		■	■	■	■	–	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>			<b>1.1</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	
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	
Pre-fuse A			10	10	–	–	10	
Transformer circuit-breaker A			–	–	14...20	6.3...10	–	
Motor circuit-breaker			–	–	–	–	–	
Power consumption P <sub>el</sub> 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	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW			0.59 / 0.73	0.79 / 0.91	0.8 / 0.93	0.79 / 0.93	0.79 / 0.91	
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 Hz L35 L35 to DIN EN 14511			2.12	2.24	2.24	2.24	2.24	
Refrigerant g			R134a, 700	R134a, 700	R134a, 700	R134a, 700	R134a, 700	
Permissible operating pressure (p. max.) bar			28	28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h			440 / 1760	491 / 1600	491 / 1600	491 / 1600	491 / 1600	
Weight kg			42.0	41.0	47.0	47.0	41.0	

### Accessories

Filter mats	3 pc(s).	3286.500	3286.500	3286.500	3286.500	3286.500	454
Metal filters	1 pc(s).	3286.510	3286.510	3286.510	3286.510	3286.510	455
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	755
Air duct system	1 pc(s).	3286.870	3286.870	3286.870	3286.870	3286.870	461

## Output class 2000 W

Model No.		Packs of	3385.500	3385.510	3385.540	3385.600	3385.640	Page
Material	Sheet steel		■	■	■	–	–	
	Stainless steel		–	–	–	■	■	
Colour	RAL 7035		■	■	■	–	–	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>			<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	
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	
Pre-fuse A			10	–	–	10	–	
Transformer circuit-breaker A			–	14...20	6.3...10	–	6.3...10	
Motor circuit-breaker			–	–	–	–	–	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW			0.95 / 1.14	0.95 / 1.17	0.95 / 1.17	0.95 / 1.14	0.96 / 1.17	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW			1.07 / 1.23	1.07 / 1.24	1.07 / 1.24	1.07 / 1.23	1.07 / 1.24	
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 Hz L35 L35 to DIN EN 14511			2.09	2.09	2.09	2.09	2.09	
Refrigerant g			R134a, 900	R134a, 900	R134a, 900	R134a, 900	R134a, 900	
Permissible operating pressure (p. max.) bar			28	28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h			470 / 1760	470 / 1760	470 / 1760	470 / 1760	470 / 1760	
Weight kg			42.0	48.0	48.0	42.0	48.0	

### Accessories

Filter mats	3 pc(s).	3286.500	3286.500	3286.500	3286.500	3286.500	454
Metal filters	1 pc(s).	3286.510	3286.510	3286.510	3286.510	3286.510	455
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	755
Air duct system	1 pc(s).	3286.870	3286.870	3286.870	3286.870	3286.870	461

# 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		–	■	–	■	
Colour	RAL 7035		■	–	■	–	
<b>Total cooling output 50 Hz L35 L35 to DIN EN 14511 kW</b>			<b>3</b>	<b>3</b>	<b>3.8</b>	<b>3.8</b>	
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	
Pre-fuse			–	–	–	–	
Transformer circuit-breaker			–	–	–	–	
Motor circuit-breaker A			6.3...10	6.3...10	6.3...10	6.3...10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW			1.17 / 1.48	1.17 / 1.48	1.59 / 2.03	1.59 / 2.03	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW			1.42 / 1.76	1.42 / 1.76	1.84 / 2.31	1.84 / 2.31	
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 Hz L35 L35 to DIN EN 14511			2.56	2.56	2.38	2.38	
Refrigerant g			R134a, 1600	R134a, 1600	R134a, 1800	R134a, 1800	
Permissible operating pressure (p. max.) bar			28	28	28	28	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h			1280 / 3450	1280 / 3450	1420 / 3870	1420 / 3870	
Weight kg			70.0	70.0	77.0	77.0	
<b>Accessories</b>							
Filter mats		3 pc(s).	3286.600	3286.600	3286.600	3286.600	454
Metal filters		1 pc(s).	3286.610	3286.610	3286.610	3286.610	455
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	755
Air duct system		1 pc(s).	3286.970	3286.970	3286.970	3286.970	461



# Modular climate control concept - Cooling module "Blue e"



Accessories for climate control Page 454 TS 8 enclosures Page 74 Therm software Page 474 RiDiag software Page 474

All cooling modules can be combined individually with every section door.

#### 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 section door
- Nano-coated condenser
- Integral electric condensate evaporation
- Fully wired ready for connection (plug-in terminal strip)

#### Note:

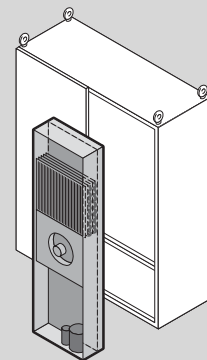
- A base/plinth with a height of 100 or 200 mm is required for efficient operation

#### 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
Material	Sheet steel	■	■	■	■	
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	
<b>Total cooling output 50/60 Hz L35 L35 kW</b>		<b>1.55 / 1.55</b>	<b>1.55 / 1.55</b>	<b>2.5 / 2.52</b>	<b>2.5 / 2.5</b>	
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	
Pre-fuse A		16	-	16	-	
Motor circuit-breaker A		-	6.3...10	-	6.3...10	
Power consumption P <sub>el</sub> 50/60 Hz L35 L35 kW		0.85 / 1.05	0.79 / 1	1.31 / 1.52	1.13 / 1.48	
Power consumption P <sub>el</sub> 50/60 Hz L35 L50 kW		1 / 1.15	0.9 / 1.1	1.48 / 1.85	1.4 / 1.75	
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 Hz L35 L35 to DIN EN 14511		1.76	1.9	1.91	2.21	
Refrigerant g		R134a, 700	R134a, 700	R134a, 1175	R134a, 1175	
Permissible operating pressure (p. max.) bar		28	28	30	30	
Air throughput of fans (unimpeded air flow), internal circuit/external circuit m <sup>3</sup> /h		600 / 1100	600 / 1100	1100 / 1100	1100 / 1100	
Weight kg		68.0	68.0	73.0	72.0	

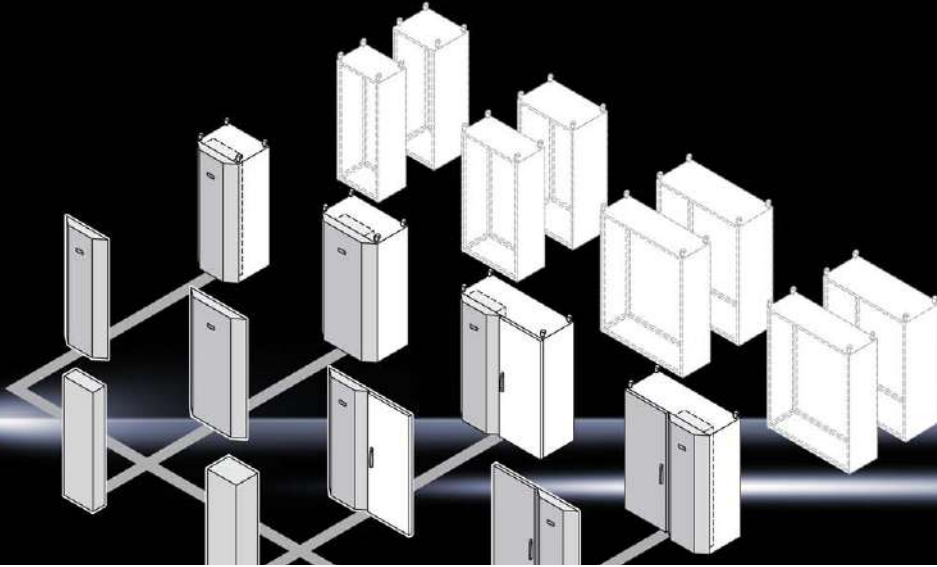
#### Also required

Modular climate control concept - Section doors		see page	see page	see page	see page	435
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#### Accessories

Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	755
Master/slave cable	1 pc(s).	3124.100	3124.100	3124.100	3124.100	471
Interface board	1 pc(s).	3124.200	3124.200	3124.200	3124.200	470

# Modular climate control concept - Section doors



Accessories for climate control Page 454 TS 8 enclosures Page 74 Therm software Page 474

**Material:**

- Sheet steel

**Colour:**

- RAL 7035

**Supply includes:**

- Section door without preconfigured cooling module
- TS 8 hinges, door opening angle approx. 110°

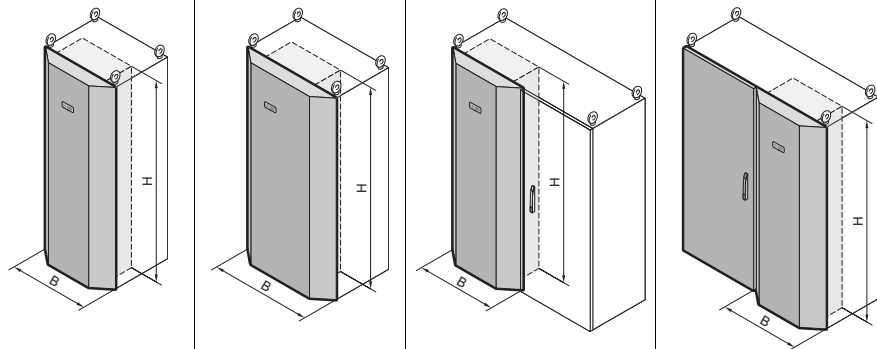
**Note:**

- The following information applies to 1200 mm wide TS 8 enclosures
- With the unit positioned on the right, one pack consists of a section door for installing in the right-hand half of the enclosure plus a special lockable door for the left-hand half.
- With the unit positioned on the left, one pack consists of a section door for installing in the left-hand half of the enclosure. The existing lockable door on the right may be used.

**Approvals:**

Available on the Internet

## for installing cooling modules



Model No.	Packs of	3300.040	3300.050	3300.060	3300.070	3300.080	3300.090	3300.110	3300.120	Page
Dimensions to fit enclosure type		TS 8	TS 8	TS 8	TS 8	TS 8	TS 8	TS 8	TS 8	
with height mm		1800	2000	1800	2000	1800	2000	1800	2000	
with width mm		600	600	800	800	1200	1200	1200	1200	
Unit positioned on the left		-	-	-	-	■	■	-	-	
Unit positioned on the right		-	-	-	-	-	-	■	■	
Weight kg		24.0	27.0	34.0	35.0	25.0	28.0	48.0	57.5	
<b>Also required</b>										
Modular climate control concept - Cooling module "Blue e"		see page	see page	see page	see page	see page	see page	see page	see page	434
<b>Accessories</b>										
Metal filters	1 pc(s).	3284.210	3284.210	3284.210	3284.210	3284.210	3284.210	3284.210	3284.210	455

# Rittal – The System.

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# Liquid cooling

## Air/water heat exchangers

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## Liquid Cooling Package

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## Chillers

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TopTherm .....	20000 – 40000 W .....	450





# Air/water heat exchangers



Accessories for climate control Page 454 Chillers Page 446 Therm software Page 474

**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:**

- Integral non-return valve for version with e-Comfort controller

**Approvals:**

Available on the Internet

**Performance diagrams:**

Available on the Internet

## Output class 300 – 500 W, wall-mounted

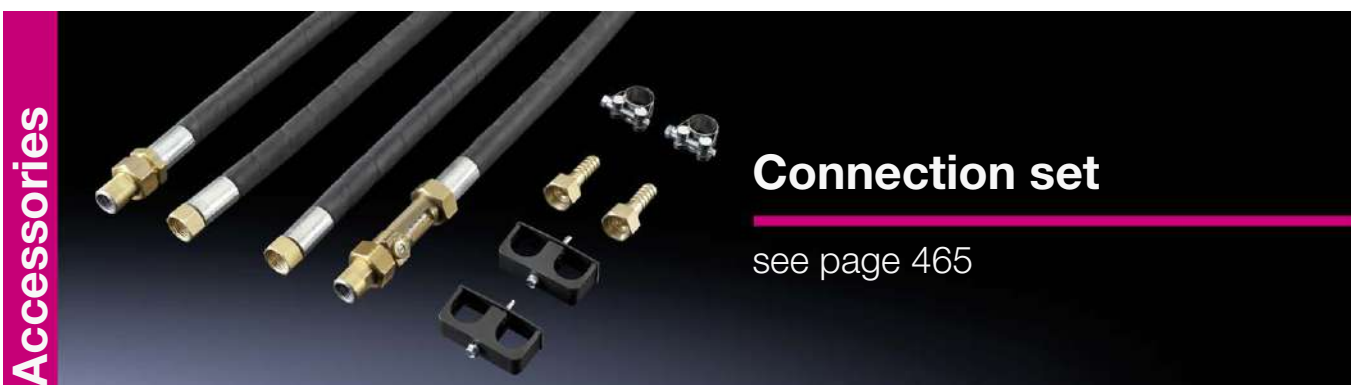
Model No.		Packs of	3212.024	3212.230	3363.100	3363.500	Page
Design	Water-carrying parts, copper/brass (Cu/CuZn)		■	■	■	■	
Temperature control	Basic controller (factory setting +35°C)		–	–	■	–	
	e-Comfort controller (factory setting +35°C)		–	–	–	■	
<b>Total cooling output L35 W10, 200 l/h kW</b>			<b>0.3</b>	<b>0.3</b>	–	–	
<b>Total cooling output L35 W10, 400 l/h kW</b>			–	–	<b>0.5</b>	<b>0.5</b>	
Power consumption P <sub>el</sub> 50/60 Hz W			26	23 / 27	37 / 38	37 / 38	
Rated operating voltage V			24 (DC)	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Width mm			150	150	280	280	
Height mm			300	300	550	550	
Depth mm			85	85	120	120	
Rated current max. A			1.2	0.11 / 0.13	0.18 / 0.18	0.18 / 0.18	
Pre-fuse A			2	2	4	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	
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 ¾" external thread		–	–	■	■	
	¾" connector sleeve		■	■	–	–	
Permissible operating pressure (p. max.) bar			1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), internal circuit 50/60 Hz m³/h			250	280 / 310	290 / 345	290 / 345	
Weight kg			3.2	3.2	8.0	8.0	

Accessories							
Condensate hose	1 pc(s).	3301.610	3301.610	3301.612	3301.612	464	
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	755	
Toroidal transformer	1 pc(s).	–	3201.960	see page	see page	471	
Fitting G ¾"	2 pc(s).	–	–	3201.900	3201.900	465	
Flow regulator valve		see page	see page	see page	see page	465	
Connection set	1 pc(s).	–	–	3201.990	3201.990	465	
Cooling medium (ready-mixed)		see page	see page	see page	see page	465	
Master/slave cable	1 pc(s).	–	–	–	3124.100	471	
Interface board	1 pc(s).	–	–	–	3124.200	470	

# Air/water heat exchangers

## Output class 600 – 1000 W, wall-mounted

Model No.		Packs of	3214.100	3364.504	3364.100	3364.500	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		■	–	–	–	
<b>Total cooling output L35 W10, 200 l/h kW</b>			<b>0.6</b>	–	–	–	
<b>Total cooling output L35 W10, 400 l/h kW</b>			<b>0.7</b>	<b>0.95</b>	<b>1</b>	<b>1</b>	
Power consumption P <sub>el</sub> 50/60 Hz W			36 / 37	37 / 38	37 / 38	37 / 38	
Rated operating voltage V, –, Hz			230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Width mm			200	280	280	280	
Height mm			500	550	550	550	
Depth mm			100	120	120	120	
Rated current max. A			0.17 / 0.18	0.18 / 0.18	0.18 / 0.18	0.18 / 0.18	
Pre-fuse A			2	4	4	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 ¾" external thread		–	■	■	■	
Permissible operating pressure (p. max.) bar			1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), internal circuit 50/60 Hz m³/h			280 / 310	290 / 345	290 / 345	290 / 345	
Weight kg			7.0	9.0	9.0	9.0	
<b>Accessories</b>							
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	3301.612	464
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	755
Toroidal transformer			see page	see page	see page	see page	471
Fitting G ¾"		2 pc(s).	–	3201.900	3201.900	3201.900	465
Flow regulator valve			see page	see page	see page	see page	465
Connection set		1 pc(s).	–	3201.990	3201.990	3201.990	465
Cooling medium (ready-mixed)			see page	see page	see page	see page	465
Master/slave cable		1 pc(s).	–	3124.100	–	3124.100	471
Interface board		1 pc(s).	–	3124.200	–	3124.200	470



# Air/water heat exchangers

## Output class 1250 – 3000 W, wall-mounted

Model No.		Packs of	3215.100	3373.100	3373.500	3374.504	3374.100	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		■	–	–	–	–	
<b>Total cooling output L35 W10, 200 l/h kW</b>			<b>1.25</b>	–	–	–	–	
<b>Total cooling output L35 W10, 400 l/h kW</b>			<b>1.3</b>	<b>2</b>	<b>2</b>	<b>2.8</b>	<b>3</b>	
Power consumption P <sub>el</sub> 50/60 Hz W			83 / 85	110 / 140	110 / 140	169 / 232	169 / 232	
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	
Width mm			200	400	400	400	400	
Height mm			950	950	950	950	950	
Depth mm			100	145	145	145	145	
Rated current max. A			0.38 / 0.4	0.49 / 0.61	0.49 / 0.61	0.76 / 1.01	0.76 / 1.01	
Pre-fuse A			4	4	4	4	4	
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	+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 ¾" external thread		–	■	■	■	■	
Permissible operating pressure (p. max.) bar			1 - 10	1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), internal circuit 50/60 Hz m³/h			680 / 735	880 / 950	880 / 950	1150 / 1300	1150 / 1300	
Weight kg			13.0	20.0	20.0	23.0	23.0	

<b>Accessories</b>								
Condensate hose	1 pc(s).	3301.612	3301.612	3301.612	3301.612	3301.612	3301.612	464
Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	4127.010	755
Toroidal transformer		see page	–	–	–	–	–	471
Fitting G ¾"	2 pc(s).	–	3201.900	3201.900	3201.900	3201.900	3201.900	465
Flow regulator valve		see page	see page	see page	see page	see page	see page	465
Connection set	1 pc(s).	–	3201.990	3201.990	3201.990	3201.990	3201.990	465
Cooling medium (ready-mixed)		see page	see page	see page	see page	see page	see page	465
Master/slave cable	1 pc(s).	–	–	3124.100	3124.100	–	–	471
Interface board	1 pc(s).	–	–	3124.200	3124.200	–	–	470

Accessories



## TopTherm chillers

see page 446

# Air/water heat exchangers

## Output class 3000 – 5000 W, wall-mounted

Model No.		Packs of	3374.500	3375.504	3375.100	3375.500	Page
Design	Copper/brass (Cu/CuZn)		–	–	–	■	
	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)		■	■	–	■	
<b>Total cooling output L35 W10, 200 l/h W</b>			–	–	–	–	
<b>Total cooling output L35 W10, 400 l/h kW</b>			<b>3</b>	<b>4.5</b>	<b>5</b>	<b>5</b>	
Power consumption P <sub>el</sub> 50/60 Hz W			169 / 232	170 / 170	170 / 170	170 / 170	
Rated operating voltage V, –, Hz			230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Width mm			400	450	450	450	
Height mm			950	1400	1400	1400	
Depth mm			145	220	220	220	
Rated current max. A			0.76 / 1.01	1.45 / 1.45	1.45 / 1.45	1.45 / 1.45	
Pre-fuse A			4	4	4	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 ¾" external thread		■	■	■	■	
Permissible operating pressure (p. max.) bar			1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), internal circuit 50/60 Hz m³/h			1150 / 1300	1490 / 1660	1490 / 1660	1490 / 1660	
Weight kg			23.0	39.0	39.0	39.0	
<b>Accessories</b>							
Condensate hose		1 pc(s).	3301.612	3301.612	3301.612	3301.612	464
Door-operated switch		1 pc(s).	4127.010	4127.010	4127.010	4127.010	755
Toroidal transformer			–	–	–	–	
Fitting G ¾"		2 pc(s).	3201.900	3201.900	3201.900	3201.900	465
Flow regulator valve			see page	see page	see page	see page	465
Connection set		1 pc(s).	3201.990	3201.990	3201.990	3201.990	465
Cooling medium (ready-mixed)			see page	see page	see page	see page	465
Master/slave cable		1 pc(s).	3124.100	3124.100	–	3124.100	471
Interface board		1 pc(s).	3124.200	3124.200	–	3124.200	470

Accessories



## LCP – Liquid Cooling Package

see page 445

# Air/water heat exchangers



Accessories for climate control Page 454 Chillers Page 446 Therm software Page 474

**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	■	
<b>Total cooling output L35 W10, 500 l/h kW</b>		<b>7</b>	
<b>Total cooling output L35 W20, 500 l/h kW</b>		<b>4.5</b>	
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 1.2	
Pre-fuse A		4	
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 ¾" external thread	■	
Permissible operating pressure (p. max.) bar		1 - 10	
Air throughput of fans (unimpeded air flow), internal circuit 50/60 Hz m³/h		3630 / 4670	
Weight kg		79.0	
<b>Accessories</b>			
Door-operated switch	1 pc(s).	4127.010	755
Condensate hose	1 pc(s).	3301.612	464
Flow regulator valve		see page	465
Connection set	1 pc(s).	3201.990	465
Cooling medium (ready-mixed)		see page	465

# Air/water heat exchangers



Accessories for climate control Page 454 Chillers Page 446 Therm software Page 474

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 (plug-in terminal strip)
- 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.

## Output class 600 – 1300 W, wall-mounted HD

Model No.	Packs of	3214.700	3215.700	Page
Temperature control	Thermostat-controlled magnetic valve	■	■	
<b>Total cooling output L35 W10, 200 l/h kW</b>		<b>0.6</b>	<b>1</b>	
<b>Total cooling output L35 W10, 400 l/h kW</b>		<b>0.65</b>	<b>1.2</b>	
Power consumption P <sub>el</sub> 50/60 Hz W		36 / 37	83 / 85	
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	
Pre-fuse A		2	4	
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 3/8" external thread	■	■	
Permissible operating pressure (p. max.) bar		1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), internal circuit 50/60 Hz m³/h		280 / 310	680 / 735	
Weight kg		6.0	14.0	
<b>Accessories</b>				
Toroidal transformer		see page	see page	471
Cooling medium (ready-mixed)		see page	see page	465

# Air/water heat exchangers



Accessories for climate control Page 454 Chillers Page 446 Air routing Page 461

**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

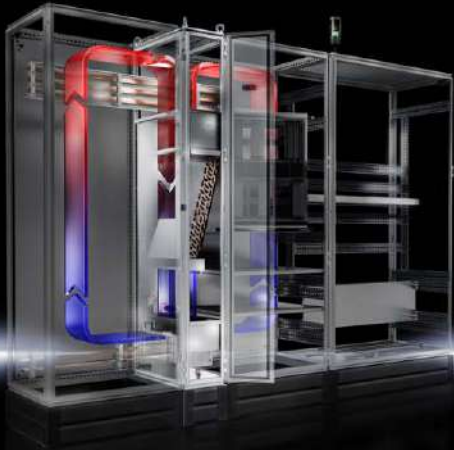
## Output class 1875 – 4000 W, roof-mounted

Model No.		Packs of	3209.504	3209.100	3209.500	3210.504	3210.100	3210.500	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)		■	–	■	■	–	■	
<b>Total cooling output L35 W10, 400 l/h kW</b>			<b>1.88</b>	<b>2.5</b>	<b>2.5</b>	<b>3</b>	<b>4</b>	<b>4</b>	
Power consumption P <sub>el</sub> 50/60 Hz W			95 / 110	95 / 110	95 / 110	98 / 115	98 / 115	98 / 115	
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	230, 1~, 50/60	
Width mm			597	597	597	597	597	597	
Height mm			417	417	417	417	417	417	
Depth mm			475	475	475	475	475	475	
Rated current max. A			0.4 / 0.48	0.4 / 0.48	0.4 / 0.48	0.44 / 0.5	0.44 / 0.5	0.44 / 0.5	
Pre-fuse A			4	4	4	4	4	4	
Operating temperature range			+1°C...+70°C	+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	+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	+1°C...+30°C	
Water connection	½" connector sleeve		■	■	■	■	■	■	
	G ¾" external thread		■	■	■	■	■	■	
Permissible operating pressure (p. max.) bar			1 - 10	1 - 10	1 - 10	1 - 10	1 - 10	1 - 10	
Air throughput of fans (unimpeded air flow), internal circuit 50/60 Hz m³/h			925 / 1030	925 / 1030	925 / 1030	815 / 925	815 / 925	815 / 925	
Weight kg			23.5	23.5	23.5	25.5	25.5	25.5	

**Accessories**

Door-operated switch	1 pc(s).	4127.010	4127.010	4127.010	4127.010	4127.010	4127.010	755
Master/slave cable	1 pc(s).	3124.100	–	3124.100	3124.100	–	3124.100	471
Interface board	1 pc(s).	3124.200	–	3124.200	3124.200	–	3124.200	470
Air duct system	1 pc(s).	3286.870	3286.870	3286.870	3286.870	3286.870	3286.870	461
Stoppers	2 pc(s).	3286.880	3286.880	3286.880	3286.880	3286.880	3286.880	463
Condensate hose	1 pc(s).	3301.612	3301.612	3301.612	3301.612	3301.612	3301.612	464
Flow regulator valve		see page	see page	see page	see page	see page	see page	465

# Liquid Cooling Package



Accessories for climate control Page 454 Chillers Page 446 Therm software Page 474

Air/water heat exchangers in TS 8 baying system, to fit 600 or 800 mm deep and 2000 mm high TS 8 enclosures. Air outlet either with 5 kW on each side or 10 kW on one side only. Flexible water connection options on the top or bottom of the unit.

**Colour:**

- RAL 7035

**Protection category IP to IEC 60 529:**

- IP 55

**Cooling medium:**

- Water (see Internet for specifications)

**Supply includes:**

- Wiring on terminal strip
- Front door

**Note:**

- Bayable by screw-fastening at the sides

**Approvals:**

Available on the Internet

**Performance diagrams:**

Available on the Internet

Photo shows a configuration example with equipment not included in the scope of supply

## Output class 10 kW, LCP rack industry

Model No.	Packs of	3378.200	3378.280	Page
Design	Water-carrying parts, copper/brass (Cu/CuZn)	■	■	
<b>Total cooling output L35 W10, 2000 l/h kW</b>		<b>9.5</b>	<b>9.5</b>	
Power consumption P <sub>el</sub> 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	
Pre-fuse A		4	4	
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. max.) bar		1 - 6	1 - 6	
Air throughput of fans (unimpeded air flow), internal circuit 50/60 Hz m³/h		1950 / 1950	1950 / 1950	
Weight kg		106.0	115.0	
<b>Accessories</b>				
Base/plinth components, front and rear, 100 mm	2 pc(s).	8601.915	8601.915	619
Base/plinth trim panels, side, 100 mm	2 pc(s).	8601.060	8601.080	620
Base/plinth components, front and rear, 200 mm	2 pc(s).	8602.915	8602.915	619
Base/plinth trim panels, side, 200 mm	2 pc(s).	8602.060	8602.080	620
Side panels, screw-fastened, sheet steel	2 pc(s).	8106.235	8108.235	643
Condensate hose	1 pc(s).	3301.612	3301.612	464
Master/slave cable	1 pc(s).	3124.100	3124.100	471



# TopTherm chillers



Accessories for climate control Page 454 Flow regulator valve Page 465 Chiller configurator Page 475

## 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

## Note:

- For 3334.660, two metal filters are required

## Characteristic curves of pump:

Available on the Internet

## Approvals:

Available on the Internet

## Output class 1000 – 1500 W

Model No.	Packs of	3318.600	3318.610	3319.600	3319.610	Page
Total cooling output at $T_w = 10^\circ\text{C}/T_u = 32^\circ\text{C}$ kW		0.8 / 0.9	0.8 / 0.9	1.2 / 1.3	1.2 / 1.3	
<b>Total cooling output at <math>T_w = 18^\circ\text{C}/T_u = 32^\circ\text{C}</math> kW</b>		<b>1 / 1.1</b>	<b>1 / 1.1</b>	<b>1.5 / 1.7</b>	<b>1.5 / 1.7</b>	
Power consumption $P_{el}$ 50/60 Hz kW		0.69 / 1.07	0.69 / 1.07	0.86 / 0.99	0.86 / 0.99	
Rated operating voltage V, ~, Hz		230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	230, 1~, 50/60	
Width mm		600	600	600	600	
Height mm		400	400	400	400	
Depth mm		430	430	430	430	
Rated current max. A		5.1 / 5.6	5.1 / 5.6	5.7 / 5.6	5.7 / 5.6	
Operating temperature range		+10°C...+43°C	+10°C...+43°C	+10°C...+43°C	+10°C...+43°C	
Refrigerant		R134a	R134a	R134a	R134a	
Water connection	G ½" internal thread	■	■	■	■	
Temperature hysteresis		± 2 K	± 2 K	± 2 K	± 2 K	
Temperature of liquid		+10°C...+30°C	+10°C...+30°C	+10°C...+30°C	+10°C...+30°C	
Design		Pressure-sealed	Open	Pressure-sealed	Open	
Tank		-	PP plastic	-	PP plastic	
Tank capacity l		-	2.5	-	2.5	
Weight kg		48.0	48.0	51.0	51.0	
<b>Accessories</b>						
Metal filters	1 pc(s).	3286.510	3286.510	3286.510	3286.510	455
Levelling feet		-	-	-	-	
Twin castors		-	-	-	-	
Cooling medium (ready-mixed)		see page	see page	see page	see page	465

# TopTherm chillers

## Output class 3000 – 6000 W

Model No.	Packs of	3320.600	3334.600	3334.660	Page
Total cooling output at $T_w = 10^\circ\text{C}/T_u = 32^\circ\text{C}$ kW		2.7 / 3	3.9 / 4.7	4.8 / 5.2	
<b>Total cooling output at <math>T_w = 18^\circ\text{C}/T_u = 32^\circ\text{C}</math> kW</b>		<b>3 / 3.4</b>	<b>4.5 / 5.4</b>	<b>6.1 / 6.6</b>	
Power consumption $P_{el}$ 50/60 Hz kW		2.03 / 2.67	2.88 / 3.24	3.98 / 5.32	
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		602	602	605	
Height mm		676	676	1034	
Depth mm		645	645	645	
Rated current max. A		4.05 / 4.35	5.6 / 6.15	8.2 / 8.5	
Operating temperature range		+10°C...+43°C	+10°C...+43°C	+10°C...+43°C	
Refrigerant		R134a	R134a	R134a	
Integral tank level display		■	■	■	
Water connection	G ½" internal thread	■	■	-	
	G ¾" internal thread	-	-	■	
Temperature hysteresis		± 2 K	± 2 K	± 2 K	
Temperature of liquid		+10°C...+30°C	+10°C...+30°C	+10°C...+30°C	
Design		Open	Open	Open	
Tank		PP plastic	PP plastic	PP plastic	
Tank capacity l		30	30	30	
Weight kg		88.0	94.0	125.0	
<b>Accessories</b>					
Metal filters	1 pc(s).	3286.520	3286.520	3286.510	455
Levelling feet	4 pc(s).	7493.100	7493.100	7493.100	628
Twin castors	1 pc(s).	6148.000	6148.000	6148.000	628
Cooling medium (ready-mixed)		see page	see page	see page	465

New



## Chiller configurator

see page 475

# TopTherm chillers



Accessories for climate control Page 454 Chiller configurator Page 475

## Design:

- Compact, modular layout of the refrigeration components
- Nano-coated condenser
- Pump to convey the medium
- Open system with tank

## 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:

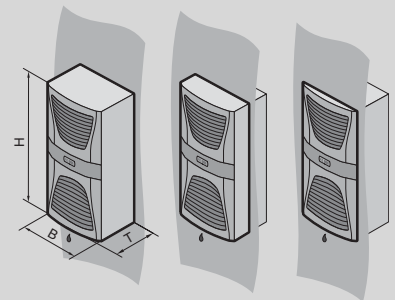
- Complete unit ready for connection
- Multilingual documentation including functional diagram and wiring plans

## Characteristic curves of pump:

Available on the Internet

## Approvals:

Available on the Internet



## Output class 1000 – 2500 W, wall-mounted

Model No.	Packs of	3360.100	3360.250	Page
Total cooling output at $T_w = 10^\circ\text{C}/T_u = 32^\circ\text{C}$ kW		0.8 / 0.9	2.1 / 2.3	
<b>Total cooling output at <math>T_w = 18^\circ\text{C}/T_u = 32^\circ\text{C}</math> kW</b>		<b>1 / 1.1</b>	<b>2.5 / 2.8</b>	
Power consumption $P_{el}$ 50/60 Hz kW		1.16 / 1.21	2.2 / 2.5	
Rated operating voltage V, ~, Hz		400, 3~, 50 460, 3~, 60	400, 3~, 50 460, 3~, 60	
Width (B) mm		400	400	
Height (H) mm		950	1580	
Depth (T) mm		310	290	
Rated current max. A		4.2 / 4	5.5 / 5.6	
Operating temperature range		+10°C...+43°C	+10°C...+43°C	
Refrigerant		R134a	R134a	
Water connection	Quick-release coupling (counterpart included in accessory bag)	■	■	
Temperature hysteresis		± 2 K	± 2 K	
Temperature of liquid		+10°C...+30°C	+10°C...+30°C	
Tank		PP plastic	PP plastic	
Tank capacity l		5	10	
Weight kg		47.0	78.0	
<b>Accessories</b>				
Metal filters	1 pc(s).	3286.410	3286.410	455
Flow regulator valve		see page	see page	465
Cooling medium (ready-mixed)		see page	see page	465



Accessories for climate control Page 454 Base/plinth Page 616 Chiller configurator Page 475

#### Benefits:

- Modular design
- Small footprint
- Convenient servicing
- High reliability thanks to icing protection
- One version for two frequencies = international compatibility
- Fast availability, because the basic platform is available off the shelf

#### Temperature control:

- Microcontroller control (factory setting +18°C, differential value control also possible)

#### 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
- Multilingual documentation including functional diagram and wiring plans

#### Note:

- For 3335.880 and 3335.890, two metal filters are required

#### Characteristic curves of pump:

Available on the Internet

#### Approvals:

Available on the Internet

## Output class 8000 – 16000 W

Model No.	Packs of	3335.790	3335.830	3335.840	3335.850	Page
Total cooling output at $T_w = 10^\circ\text{C}/T_u = 32^\circ\text{C}$ kW		6.5 / 7.5	6.5 / 7.5	10.3 / 11.3	13.8 / 15.2	
<b>Total cooling output at <math>T_w = 18^\circ\text{C}/T_u = 32^\circ\text{C}</math> kW</b>		<b>8 / 8.6</b>	<b>8 / 8.6</b>	<b>12 / 13.1</b>	<b>16 / 17.6</b>	
Power consumption $P_{el}$ 50/60 Hz kW		4.37 / 5.21	4.37 / 5.21	6.6 / 7.76	7.3 / 9.2	
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		805	805	805	805	
Height mm		1700	2100	2140	2140	
Depth mm		605	605	605	605	
Rated current max. A		8.2 / 7.7	8.2 / 7.7	10 / 11.4	12.7 / 13.3	
Operating temperature range		+10°C...+43°C	+10°C...+43°C	+10°C...+43°C	+10°C...+43°C	
Refrigerant		R410a	R410a	R410a	R410a	
Water connection	G 1" internal thread	■	■	■	■	
Temperature hysteresis		± 2 K	± 2 K	± 2 K	± 2 K	
Temperature of liquid		+10°C...+25°C	+10°C...+25°C	+10°C...+25°C	+10°C...+25°C	
Tank capacity l		75	75	75	75	
Weight kg		242.0	248.0	282.0	282.0	
<b>Accessories</b>						
Metal filters	1 pc(s).	3286.550	3286.550	3286.530	3286.530	455
Levelling feet	4 pc(s).	7493.100	7493.100	7493.100	7493.100	628
Flow regulator valve		see page	see page	see page	see page	465
Cooling medium (ready-mixed)		see page	see page	see page	see page	465
Twin castors	4 pc(s).	7495.000	7495.000	7495.000	7495.000	628

# TopTherm chillers

## Output class 20000 – 40000 W

Model No.	Packs of	3335.860	3335.870	3335.880	3335.890	Page
Total cooling output at $T_w = 10^\circ\text{C}/T_u = 32^\circ\text{C}$ kW		16.6 / 18.7	20.8 / 23.8	27 / 30.4	32.5 / 37.5	
<b>Total cooling output at <math>T_w = 18^\circ\text{C}/T_u = 32^\circ\text{C}</math> kW</b>		<b>20 / 21.8</b>	<b>25 / 27.6</b>	<b>32 / 35.2</b>	<b>40 / 44</b>	
Power consumption $P_{el}$ 50/60 Hz kW		9.2 / 12	11.4 / 13.9	14.95 / 17.6	17.91 / 23.1	
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		1205	1205	1605	2405	
Height mm		2140	2140	2140	2140	
Depth mm		605	605	605	605	
Rated current max. A		20.1 / 17.3	22.8 / 23.8	26.3 / 26.7	38.4 / 32.7	
Operating temperature range		+10°C...+43°C	+10°C...+43°C	+10°C...+43°C	+10°C...+43°C	
Refrigerant		R410a	R410a	R410a	R410a	
Water connection	G 1" internal thread	■	■	–	–	
	G 1¼" internal thread	–	–	■	■	
Temperature hysteresis		± 2 K	± 2 K	± 2 K	± 2 K	
Temperature of liquid		+10°C...+25°C	+10°C...+25°C	+10°C...+25°C	+10°C...+25°C	
Tank capacity l		150	150	75	150	
Weight kg		360.0	374.0	511.0	646.0	
<b>Accessories</b>						
Metal filters	1 pc(s).	3286.540	3286.540	3286.530	3286.540	455
Levelling feet	4 pc(s).	7493.100	7493.100	7493.100	7493.100	628
Flow regulator valve		see page	see page	see page	see page	465
Cooling medium (ready-mixed)		see page	see page	see page	see page	465
Twin castors	4 pc(s).	7495.000	7495.000	7495.000	7495.000	628

Accessories



## Flex-Block base/plinth system

see page 616



Accessories for climate control Page 454 Therm software Page 474

**Supply includes:**

- PTC heater
- Quick-connection terminal
- Assembly parts

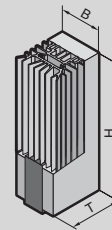
**Note:**

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

- 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.
- The installation of heaters is generally advisable, in order to prevent condensation.

**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	
<b>Continuous thermal output at T<sub>u</sub> = 10°C W</b>		<b>8 - 10</b>	<b>18 - 20</b>	<b>23 - 30</b>	<b>49 - 50</b>	<b>63 - 75</b>	<b>86 - 100</b>	<b>130 - 150</b>	
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	
Pre-fuse A		2	2	4	4	4	4	4	
<b>Accessories</b>									
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	3110.100	3110.100	3110.100	467
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	468
Hygrostat with strain relief	1 pc(s).	3118.100	3118.100	3118.100	3118.100	3118.100	3118.100	3118.100	468
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	466
Bottom-mounted adaptor	1 pc(s).	3110.200	3110.200	3110.200	3110.200	3110.200	3110.200	3110.200	469

# Enclosure heaters



Accessories for climate control Page 454 Therm software Page 474

### Supply includes:

- PTC heater with fan
- Quick-connection terminal
- Assembly parts

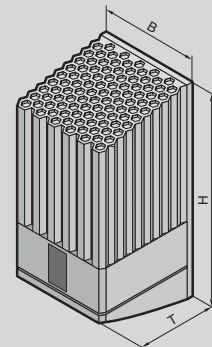
### Note:

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

- 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.
- The installation of heaters is generally advisable, in order to prevent condensation.

### 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	
<b>Continuous thermal output at T<sub>u</sub> = 10°C 50/60 Hz W</b>		<b>235 / 250</b>	<b>250 / 265</b>	<b>355 / 400</b>	<b>400 / 415</b>	<b>710 / 800</b>	<b>800 / 870</b>	
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	
Pre-fuse A		4	4	6	6	10	6	
<b>Accessories</b>								
Thermostat	1 pc(s).	3110.000	3110.000	3110.000	3110.000	3110.000	3110.000	467
Thermostat with strain relief	1 pc(s).	3110.100	3110.100	3110.100	3110.100	3110.100	3110.100	467
Hygrostat	1 pc(s).	3118.000	3118.000	3118.000	3118.000	3118.000	3118.000	468
Hygrostat with strain relief	1 pc(s).	3118.100	3118.100	3118.100	3118.100	3118.100	3118.100	468
Digital enclosure internal temperature display and thermostat	1 pc(s).	3114.200	3114.200	3114.200	3114.200	3114.200	3114.200	466
Bottom-mounted adaptor	1 pc(s).	3110.200	3110.200	3110.200	3110.200	3110.200	3110.200	469

# Rittal – The System.

Faster – better – everywhere.





# Accessories for climate control

## Filter technology



### Filter mats

#### 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).	<b>3177.000</b>



### Filter mats

#### for cooling units and air/air heat exchangers

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	W x H x D mm	Packs of	Model No.
3302.300/3203.310	■	–	190 x 95 x 10	3 pc(s).	<b>3286.110</b>
3273..../3382..../3383..../3384..../ 3385..../3359....	■	–	530 x 255 x 10	3 pc(s).	<b>3286.500</b>
3386..../3387....	■	–	720 x 300 x 10	3 pc(s).	<b>3286.600</b>
3186.930/3187.930/3188.940/ 3189.940	■	–	380 x 358 x 10	3 pc(s).	<b>3285.900</b>
3302..../3303..../3361..../3126.100/ 3126.115	■	■	265 x 200 x 10	3 pc(s).	<b>3286.300</b>
3304..../3305..../3328..../3329..../ 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).	<b>3286.400</b>

# Accessories for climate control

## Filter technology

### Metal filters

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

**Note:**

- 2 metal filters are required for 3334.660, 3335.880 and 3335.890



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.
3186.930/3187.930/ 3188.940/3189.940	■	–	–	–	380 x 358 x 10	1 pc(s).	<b>3285.910</b>
3300.040/3300.050/ 3300.060/3300.070/ 3300.080/3300.090/ 3300.110/3300.120	–	–	–	■	425 x 78 x 10	1 pc(s).	<b>3284.210</b>
3302.300/3302.310	■	–	–	–	190 x 95 x 10	1 pc(s).	<b>3286.120</b>
3302.100/3302.110/ 3302.200/3303..../ 3361..../3126.100/ 3126.115	■	■	–	–	265 x 200 x 10	1 pc(s).	<b>3286.310</b>
3304..../3305..../ 3328..../3329..../ 3332..../3366..../ 3127.100/3127.115/ 3128.100/3128.115/ 3129.100/3129.115/ 3130.100/3130.115/ 3360.100/3360.250	■	■	■	–	344 x 268 x 10	1 pc(s).	<b>3286.410</b>
3273..../3382..../ 3383..../3384..../ 3385..../3359..../ 3318.600/3318.610/ 3319.600/3319.610/ 3334.660	■	–	■	–	530 x 255 x 10	1 pc(s).	<b>3286.510</b>
3320.600/3334.600	–	–	■	–	500 x 558 x 8	1 pc(s).	<b>3286.520</b>
3386..../3387....	■	–	–	–	720 x 300 x 10	1 pc(s).	<b>3286.610</b>
3335.840/3335.850/ 3335.880	–	–	■	–	595 x 1030 x 20	1 pc(s).	<b>3286.530</b>
3335.860/3335.870/ 3335.890	–	–	■	–	1000 x 1035 x 20	1 pc(s).	<b>3286.540</b>
3335.790/3335.830	–	–	■	–	595 x 780 x 20	1 pc(s).	<b>3286.550</b>

# Accessories for climate control

## Filter technology

### Spare filter mats

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.

#### 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).	<b>3174.100</b>

#### 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).	<b>3237.066</b>
3238.6..	Copper-nickel-chrome coated chemical fibres	125 x 125 x 12	G2	5 pc(s).	<b>3238.066</b>
3239.6..	Copper-nickel-chrome coated chemical fibres	178 x 178 x 17	G3	5 pc(s).	<b>3239.066</b>
3240.6../3241.6..	Copper-nickel-chrome coated chemical fibres	226 x 226 x 17	G3	5 pc(s).	<b>3240.066</b>
3243.6../3244.6../3245.6..	Copper-nickel-chrome coated chemical fibres	294 x 294 x 17	G3	5 pc(s).	<b>3243.066</b>

#### 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 fibres	89 x 89 x 10	G2	5 pc(s).	<b>3321.700</b>
3237....	Chemical fibres	89 x 89 x 10	G2	50 pc(s).	<b>3321.705</b>
3238....	Chemical fibres	120 x 120 x 12	G2	5 pc(s).	<b>3322.700</b>
3238....	Chemical fibres	120 x 120 x 12	G2	50 pc(s).	<b>3322.705</b>
3239....	Chemical fibres	173 x 173 x 17	G3	5 pc(s).	<b>3171.100</b>
3239....	Chemical fibres	173 x 173 x 17	G3	50 pc(s).	<b>3171.105</b>
3240..../3241....	Chemical fibres	221 x 221 x 17	G3	5 pc(s).	<b>3172.100</b>
3240..../3241....	Chemical fibres	221 x 221 x 17	G3	50 pc(s).	<b>3172.105</b>
3243..../3244..../3245....	Chemical fibres	289 x 289 x 17	G3	5 pc(s).	<b>3173.100</b>
3243..../3244..../3245....	Chemical fibres	289 x 289 x 17	G3	50 pc(s).	<b>3173.105</b>

#### 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).	<b>3201.050</b>



### Fine filter mats

#### 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 from a particle size of 10 µm.

#### Material:

- Chemical fibres

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).	<b>3238.055</b>
3239....	173 x 173 x 12	F5/M5	5 pc(s).	<b>3181.100</b>
3240..../3241....	221 x 221 x 12	F5/M5	5 pc(s).	<b>3182.100</b>
3243..../3244..../3245....	289 x 289 x 12	F5/M5	5 pc(s).	<b>3183.100</b>



### Outlet filter

#### Standard

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

#### Material:

- ABS
- Material resistance to UL 94-5VA

#### Colour:

- RAL 7035

#### Protection category IP to IEC 60 529:

- IP 54 including filter mat

#### Supply includes:

- Outlet filter
- Filter mat



#### Accessories:

- Spare filter mats, see page 456
- Fine filter mats, see page 457
- Hose-proof hood, see page 458
- Blanking cover, see page 459



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).	<b>3237.200</b>
148.5 x 148.5 x 24	124	124	1 pc(s).	<b>3238.200</b>
204 x 204 x 24	177	177	1 pc(s).	<b>3239.200</b>
255 x 255 x 25	224	224	1 pc(s).	<b>3240.200</b>
323 x 323 x 25	292	292	1 pc(s).	<b>3243.200</b>

# Accessories for climate control

## Filter technology



### Outlet filter

#### EMC

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

#### Material:

- ABS
- Material resistance to UL 94-5VA

#### Colour:

- RAL 7035

#### Protection category IP to IEC 60 529:

- IP 54 including filter mat

#### Supply includes:

- Outlet filter
- Filter mat

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).	<b>3237.060</b>
148.5 x 148.5 x 24	124	124	1 pc(s).	<b>3238.060</b>
204 x 204 x 24	177	177	1 pc(s).	<b>3239.060</b>
255 x 255 x 25	224	224	1 pc(s).	<b>3240.060</b>
323 x 323 x 25	292	292	1 pc(s).	<b>3243.060</b>



### 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 12	1 pc(s).	<b>3237.080</b>
3238....	176 x 245 x 55	NEMA 1 NEMA 12 NEMA 3 NEMA 4 NEMA 4X	1 pc(s).	<b>3238.080</b>
3239....	233 x 330 x 55	NEMA 1 NEMA 12 NEMA 3 NEMA 4 NEMA 4X	1 pc(s).	<b>3239.080</b>
3240..../3241....	282 x 390 x 85	NEMA 1 NEMA 12 NEMA 3 NEMA 4 NEMA 4X	1 pc(s).	<b>3240.080</b>
3243..../3244....	350 x 480 x 110	NEMA 1 NEMA 12 NEMA 3 NEMA 4 NEMA 4X	1 pc(s).	<b>3243.080</b>
3245....	350 x 480 x 160	NEMA 1 NEMA 12 NEMA 3R	1 pc(s).	<b>3245.080</b>

# Accessories for climate control

## Filter technology

### 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:

- Plastic

#### Colour:

- Anthracite

#### Protection category IP to IEC 60 529:

- IP 54

To fit Model No.	Packs of	Model No.
3237....	2 pc(s).	<b>3237.020</b>
3238....	2 pc(s).	<b>3238.020</b>
3239....	2 pc(s).	<b>3239.020</b>
3240..../3241....	2 pc(s).	<b>3240.020</b>
3243..../3244..../3245....	2 pc(s).	<b>3243.020</b>



### Front outlet grille 2 U

#### for tangential fans

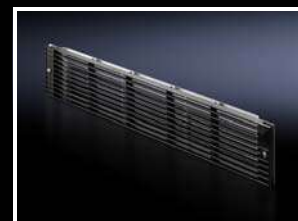
This front outlet grille is required if a 482.6 mm (19") cross-flow blower (SK 3144.000/SK 3145.000) is used in the lower section of the electronic enclosure and the hot air is to be expelled to the outside from the upper section of the enclosure. The design of the grille matches that of the intake grille 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).	<b>3176.000</b>



#### Accessories:

- Filter mats, see page 454



### Enclosure internal fan

#### for TS

To prevent hot-spots and support the air routing of active enclosure climate control components.

Adjustable in two axes. Attached to the TS 8 frame section. Several fans may be cascaded using the quick-release clamping strip.

#### Supply includes:

- Complete unit with radial fan ready for connection
- Snap-on pivot device
- Assembly parts

Air throughput (unimpeded air flow) m³/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).	<b>3108.100</b>
160	115, 1~, 50/60	19 / 18	0.24 / 0.23	1 pc(s).	<b>3108.115</b>
160	24 (DC)	3.5	0.15	1 pc(s).	<b>3108.024</b>



# Accessories for climate control

## Filter technology



### 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 <sup>3</sup> /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).	<b>3236.124</b>



### Integrated louvres

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

**Material:**

- Sheet steel

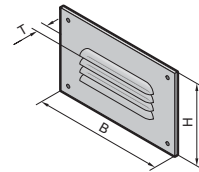
**Colour:**

- RAL 7035

**Supply includes:**

- Assembly parts

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



# Accessories for climate control

## 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).	<b>3286.870</b>
3386.../3387....	1 pc(s).	<b>3286.970</b>



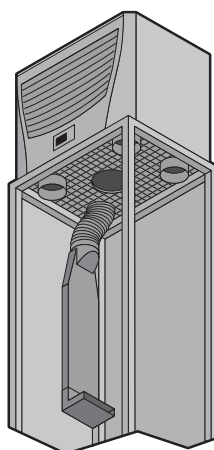
#### Also required:

- Mounting bars, see page 685



#### Accessories:

- Deflector, 90°, see page 461
- Stoppers, see page 463
- Flat duct extension, see page 462



### 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).	<b>3286.840</b>



### 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).	<b>3286.990</b>





# Accessories for climate control

## Air routing



### 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 TS 8 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).	<b>3286.850</b>



#### Also required:

- Air duct adaptor, see page 461
- Mounting bars, see page 685



#### Assembly instruction:

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



#### Accessories:

- Deflector, 90°, see page 461
- Stoppers, see page 463
- Flat duct extension, see page 462



### Flat duct extension

Extension kit for shallow air duct system 3286.850 for length compensation in the width, depth or height in TS 8 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).	<b>3286.860</b>

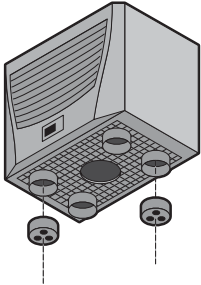
### Stoppers

For roof-mounted cooling units and roof-mounted air/water heat exchangers

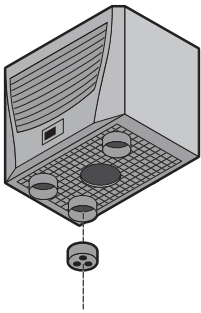
To cover any cold air outlets that are not required.

**Material:**

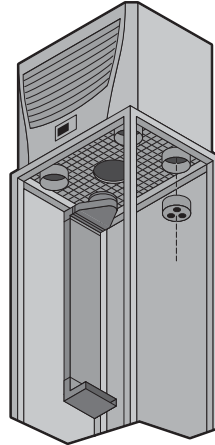
- Polyurethane foam



Max. 2 stoppers  
for 3209.../3210.../3383.../  
3384.../...3385.../3273...



Max. 1 stopper  
for 3359.../3382.../3386.../  
3387...



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

### 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.

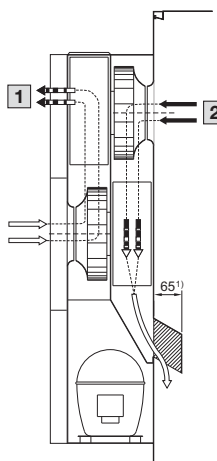
**Material:**

- Sheet steel

**Colour:**

- RAL 7035

To fit Model No.	Installation depth mm	Packs of	Model No.
3304.../3305....	65	1 pc(s).	<b>3213.310</b>
3328.../3329....	65	1 pc(s).	<b>3213.320</b>
3332....	115	1 pc(s).	<b>3213.330</b>



<sup>1)</sup> 115 mm for 3213.330

- 1** External air circuit
- 2** Internal air circuit



# Accessories for climate control

## Water distribution



### 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).	<b>3301.500</b>
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).	<b>3301.505</b>



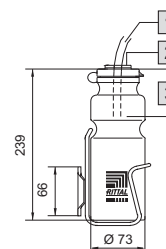
### Condensate collecting bottle

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).	<b>3301.600</b>



- 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).	<b>3301.606</b>
3202....	10	8	1.5	1 pc(s).	<b>3301.608</b>
3212..../3303..../3361....	10	10	1.5	1 pc(s).	<b>3301.610</b>
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	10	12	2	1 pc(s).	<b>3301.612</b>

# Accessories for climate control

## Water distribution

### 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 3/8" internal thread	1 - 10	1 pc(s).	<b>3201.990</b>

### 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.
3/4" x 1/2" for volumetric flow control	3 - 12	1 pc(s).	<b>3301.930</b>
3/4" x 3/4" for volumetric flow control	3 - 12	1 pc(s).	<b>3301.940</b>



### Fitting G 3/8"

The G 3/8" internal threaded adaptor can be used to create fixed piping on the air/water heat exchanger for both the inlet and return.

#### Material:

- Brass

To fit Model No.	Packs of	Model No.
3209...../3210...../3363...../ 3364...../3373...../3374...../ 3375.....	2 pc(s).	<b>3201.900</b>



### 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).	<b>3301.950</b>
Outdoor	1 : 2	Canister	25	-20°C...+60°C	1 pc(s).	<b>3301.955</b>
Standard	1 : 4	Canister	10	-10°C...+60°C	1 pc(s).	<b>3301.960</b>
Standard	1 : 4	Canister	25	-10°C...+60°C	1 pc(s).	<b>3301.965</b>



# Accessories for climate control

## Control/regulation



### Digital enclosure internal temperature display and thermostat

Protection category IP to IEC 60 529:  
– IP 54

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

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).	<b>3114.200</b>



### Digital enclosure internal temperature display and thermostat

Colour:  
– RAL 7035

**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	Packs of	Model No.
100 - 230, 1~, 50/60 24 - 60 (DC)	100	+5°C...+55°C	1 pc(s).	<b>7109.035</b>

### 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 TS/SE 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  $\cos \phi = 0.6$ ) / category 5- 4 (cooling): AC 5 (4) A (inductive load at  $\cos \phi = 0.6$ ) / DC = max. 30 W
- Switching difference: approx. 1 K  $\pm$  0.8 K

#### Colour:

- RAL 7035



#### Accessories:

- Bottom-mounted adaptor, see page 469
- Mounting plates, see page 727



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).	<b>3110.000</b>

### Thermostat with strain relief

For controlling fan-and-filter units, roof-mounted fans, heaters and heat exchangers, and also as a signal generator for monitoring the enclosure internal temperature.

#### Design:

- Strain relief and contact hazard protection

#### Benefits:

- Flexible mounting on a vertical or horizontal 35 mm support rail to EN 50 022, and snap fastening in the TS/SE enclosure section or on the mounting plate

#### 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  $\cos \phi = 0.6$ ) / category 5- 4 (cooling): AC 5 (4) A (inductive load at  $\cos \phi = 0.6$ )
- Switching difference: approx. 1 K  $\pm$  0.8 K
- Connection: Screwless spring terminal with PE entry

#### Colour:

- RAL 7016

#### Protection category IP to IEC 60 529:

- IP 20



Rated operating voltage V, ~	Setting range	Operating temperature range	Storage temperature range	Packs of	Model No.
24 - 230, 1~	+5°C...+60°C	-40°C...+60°C	-45°C...+70°C	1 pc(s).	<b>3110.100</b>

# Accessories for climate control

## Control/regulation



### Hygrostat

The hygrostat switches on the heater and/or fan when a preset relative humidity in the enclosure is exceeded. In this way, the relative humidity is reduced, and condensation on assemblies or electronic components is avoided.

#### 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 TS/SE 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  $\cos \phi = 0.6$ )/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 - 230, 1~ 12 - 75 (DC)	1 pc(s).	<b>3118.000</b>



#### Accessories:

- Bottom-mounted adaptor, see page 469
- Mounting plates, see page 727



### Hygrostat with strain relief

Switches on the heater and/or fan when a preset relative humidity in the enclosure is exceeded. In this way, the relative humidity is reduced, and condensation on assemblies or electronic components is avoided.

#### Design:

- Strain relief and contact hazard protection

#### Benefits:

- Flexible mounting on a vertical or horizontal 35 mm support rail to EN 50 022, and snap fastening in the TS/SE 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  $\cos \phi = 0.6$ )/DC = max. 20 W
- Setting range: 50 – 100% relative humidity
- Switching difference: approx. 4%

#### Colour:

- RAL 7016

#### Protection category IP to IEC 60 529:

- IP 20

Rated operating voltage V, ~	Operating temperature range	Storage temperature range	Packs of	Model No.
24 - 230, 1~ 12 - 75 (DC)	-40°C...+60°C	-45°C...+70°C	1 pc(s).	<b>3118.100</b>

# Accessories for climate control

## Control/regulation

### Bottom-mounted adaptor

#### for enclosure internal thermostat and hygostat

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).	<b>3110.200</b>



### 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).	<b>3235.440</b>



### 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).	<b>3235.450</b>





# Accessories for climate control

## Control/regulation



### 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 plates, see page 727

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).	<b>3120.200</b>



### Temperature sensor

#### for Blue e+ cooling units

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).

#### Supply includes:

- External sensor with connection cable (length 2.5 m)

Packs of	Model No.
1 pc(s).	<b>3124.400</b>



### Interface board

#### For equipment with e-Comfort controller

The interface board is an extension for equipment with e-Comfort controller. In this way it is possible, e.g. to monitor a master/slave combination of up to 10 cooling units. Control is achieved via standardised interfaces: RS232 (DB9) or RS485, one PLC interface (DB9). The extension board is built into a 1 U plastic housing. Power may be supplied externally using a Kycon connector.

#### Supply includes:

- Interface card integrated into plastic box
- Serial SUB-D cable, 1.5 m.

#### Note:

- Networking and monitoring plan may be found on the relevant product page on the Internet, under "Download".

W x H x D mm	Rated operating voltage V	Packs of	Model No.
136 x 44 x 129	24 (DC)	1 pc(s).	<b>3124.200</b>

# Accessories for climate control

## 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).	<b>3124.100</b>



### Master/slave adaptor

#### for Thermoelectric Cooler

The master-slave adaptor for the Rittal thermoelectric cooler allows up to 5 thermoelectric coolers to communicate with one another (1 master and up to 4 slaves). In this way, e.g. in complex bayed enclosure systems, the master-slave configuration facilitates optimum climate control results.

#### Supply includes:

- Adaptor
- Connection cable

To fit Model No.	Packs of	Model No.
3201.200/3201.300	1 pc(s).	<b>3201.070</b>



#### Also required:

- CMC III CAN bus connection cable, see page 557



### 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  $\pm 10\%$
- 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/3212.230/3214.100/3215.100	105 x 123 x 55	400 (primary), 2~, 50/60 230 (secondary), 1~, 50/60	1 pc(s).	<b>3201.960</b>
3363.X0X/3364.X0X/3214.100/3215.100	105 x 123 x 55	115 (primary), 1~, 50/60 230 (secondary), 1~, 50/60	1 pc(s).	<b>3201.970</b>



# Accessories for climate control

## Mounting accessories



### Roof plates TS

For mounting roof-mounted units, roof-mounted air/water heat exchangers, roof-mounted fans and vent attachment TS. The cut-outs in the roof plate are arranged so that the roof-mounted cooling units are positioned centrally on the enclosure.

**Benefits:**

- Simple, fast assembly

**Material:**

- Sheet steel

**Colour:**

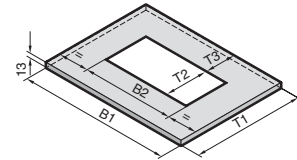
- RAL 7035

**Supply includes:**

- Assembly parts

**Note:**

- When mounting cooling units on the roof plate 8801.310, there may be a collision with the enclosure eyebolts; for this reason, roof fastening screws are supplied loose with the roof plates.
- Attached to the roof plate 8801.340 from the inside using metal brackets and retaining clamps.



B1 = Width  
T1 = Depth  
B2 = Cut-out width  
T2 = Cut-out depth  
T3 = Distance from cut-out to the rear

To fit enclosure width/depth mm	To fit Model No.	W x H x D mm	Cut-out width mm	Cut-out depth mm	Distance from cut-out to the rear mm	Packs of	Model No.
600 x 600	3209..../3210..../ 3383..../3384..../ 3385..../3273..../ 8801.380	567.5 x 13 x 567.5	490	390	61.3	1 pc(s).	<b>8801.310</b>
800 x 600	3382..../3359..../ 3149.4../3149.8..	767.5 x 13 x 567.5	475	260	129.3	1 pc(s).	<b>8801.320</b>
800 x 600	3209..../3210..../ 3383..../3384..../ 3385..../3273..../ 8801.380	767.5 x 13 x 567.5	490	390	61.3	1 pc(s).	<b>8801.330</b>
800 x 600	3386..../3387....	767.5 x 13 x 567.5	692	392	57.8	1 pc(s).	<b>8801.340</b>
1200 x 600	3209..../3210..../ 3383..../3384..../ 3385..../3273..../ 8801.380	1167.5 x 13 x 567.5	490	390	61.3	1 pc(s).	<b>8801.350</b>



### 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

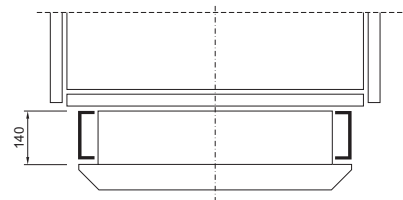
**Colour:**

- RAL 7035

**Supply includes:**

- Trim frame
- Sealing and assembly parts

To fit Model No.	Packs of	Model No.
3366....	1 pc(s).	<b>3377.000</b>



# Accessories for climate control

## Mounting accessories

### 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

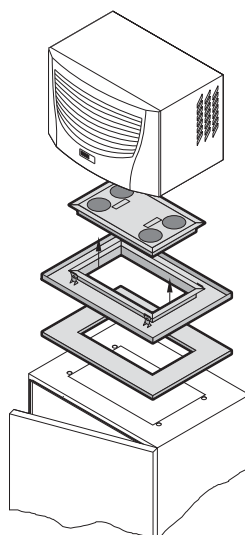
#### Colour:

- RAL 7035

#### Supply includes:

- Quick-change frame
- Seal
- Quick-release fasteners

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



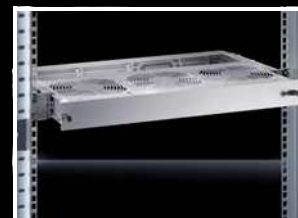
### Guide frame

#### 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	110 V (DC) 230 V	3	1 pc(s).	<b>3355.100</b>
3352.500	24 V DC 115 - 230 V	3	1 pc(s).	<b>3357.100</b>



# Climate control accessories



## Therm software

### Precise, efficient climate control

The Therm software takes care of the time-consuming calculation of the required cooling or heating output, and proposes a suitable selection of products.

### Benefits:

- Fast, thorough determination of climate control requirements
- Determining the correct climate control measures leads to cost savings
- 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:

- Download Therm for free at [www.rittal.com](http://www.rittal.com)



## Therm app

The Therm app for smartphones handles the time-consuming process of calculating climate control requirements for individual enclosure assemblies. With its fast selection feature, the app is a compact variant of the full software version "Therm".

The results can be sent quickly and easily as an email. An easy-to-use interface guides the user to the most suitable, correctly dimensioned climate control component using the typical smartphone controls.

All evaluations are closely based on the requirements of IEC/TR 60 890 AMD1/02.95 and EN 14 511 for enclosure cooling units.

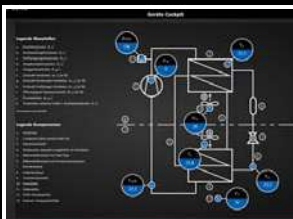
### Note:

- The Therm app can be downloaded for free from the App Store and from the Google Play Store



## 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 allows you to display and set the device's operating parameters. Logged measurement data can be tracked in real time in the form of a diagram.



## RiDiag III

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

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
- Creation of service enquiries and selection of spare parts
- All parameters stored locally for reuse
- Software and firmware updates for devices

### Note:

- Download RiDiag III for free at [www.rittal.com](http://www.rittal.com)

# Climate control accessories

## Chiller configurator

The chiller configurator is a cost-effective way of designing 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 capacity
- Add option packages and download bill of materials
- Transfer order list to shopping basket
- Send a quote request

### Note:

- The chiller configurator is available at [www.rittal.com](http://www.rittal.com)

## 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 the Chiller app for free from the App Store

## 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
- Access restriction via PIN request (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 links to online shop and service team
- Simple repair, maintenance and spare parts enquiries may be sent directly via your smartphone

### Note:

- Download the Blue e+ app for free from the App Store



# Rittal – The System.

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CLIMATE CONTROL

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