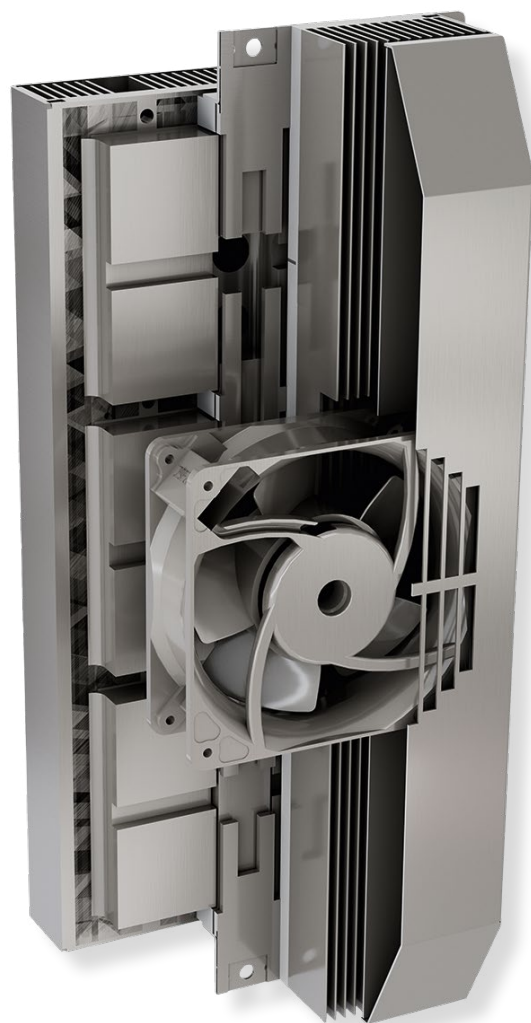


ENCLOSURE COOLING WITHOUT REFRIGERANT

SOLITHERM PELTIER



WALL MOUNTED / RECESSED

OPERATING TEMPERATURE
RANGE -20°C - 70°C

AMBIENT FAN IP 68

FOR INDOOR AND
OUTDOOR APPLICATIONS

WITH AC AND DC
VOLTAGE AVAILABLE

PROTECTION CLASS IP 66
NEMA / TYPE 4X

EFFICIENT ENCLOSURE COOLING WITH PELTIER TECHNOLOGY

SOLITHERM PELTIER cooling units are based on the so-called Peltier effect.

When DC voltage is applied, Peltier elements generate a temperature difference which in combination with surface-enlarging heat sinks and forced ventilation, causes cooling inside the enclosure. The heat is dissipated into the environment via a separate ambient heat sink.

SOLITHERM PELTIER units do not require a refrigerant. They have no compressor and no pressure circuit and can thus be installed in almost any position. Condensate management must be considered separately.

Peltier cooling units withstand the most extreme environments and work reliably even in very dusty and oily conditions and at temperatures between -20°C and 70°C.

SOLITHERM PELTIER cooling units with ATEX zone classifications can be used for hazardous applications.



SOLITHERM PELTIER

Thermo electric cooling units for DC voltage

TG 3030 - TG 3035

- ✓ Cooling capacity: 30 W
- ✓ For indoor and outdoor applications
- ✓ Can be mounted in any position ¹⁾
- ✓ NEMA / Type 4X rated
- ✓ Ingress protection IP 66
- ✓ Maintenance free



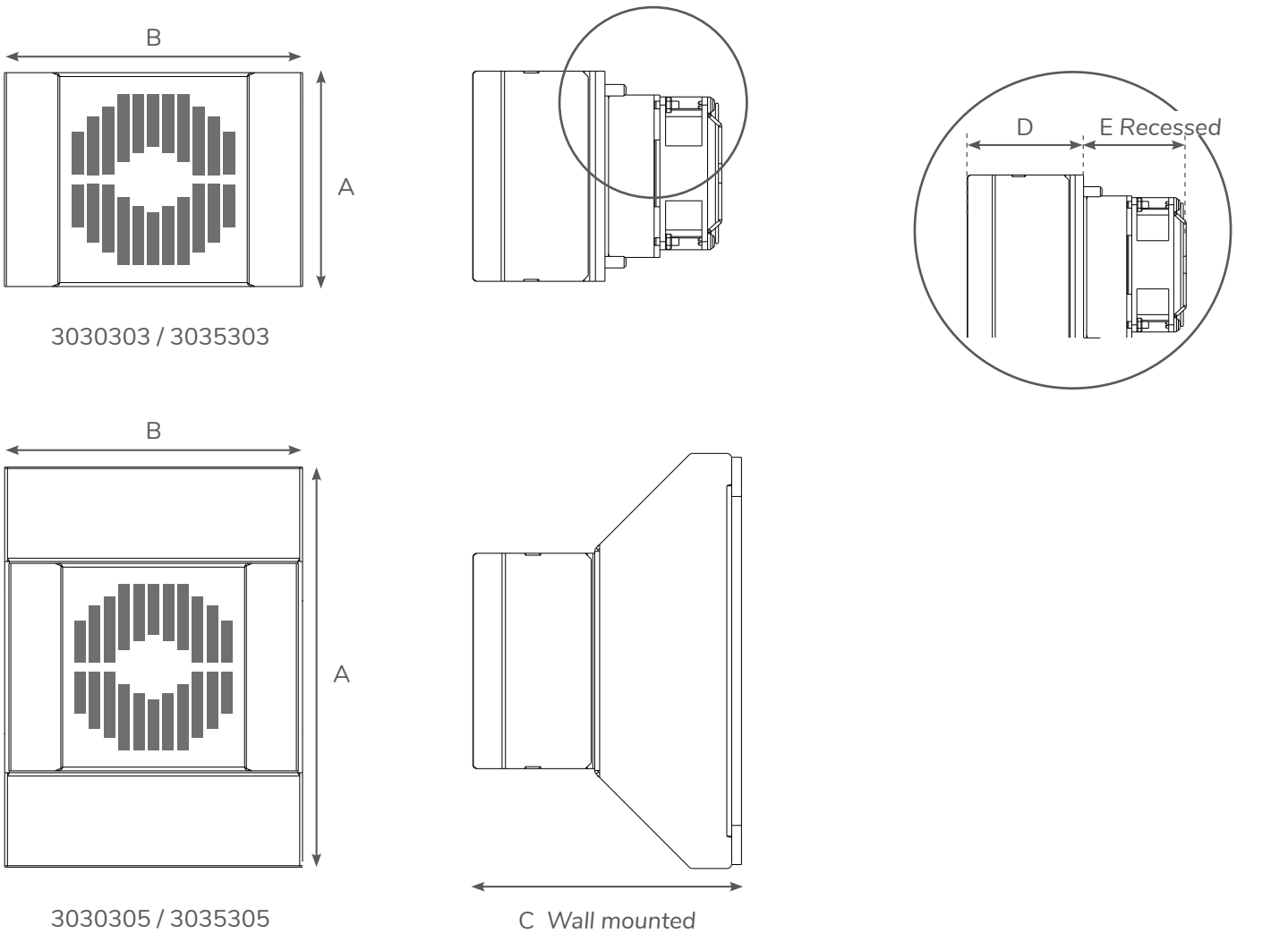
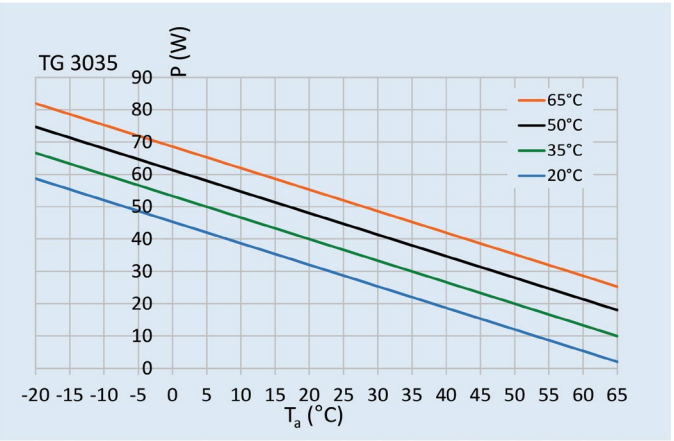
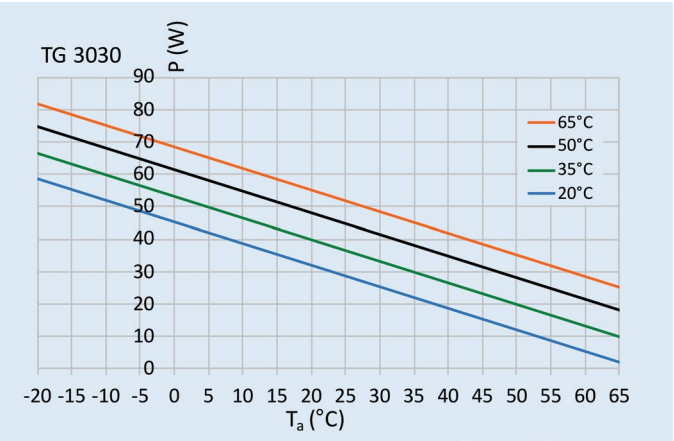
Model	TG 3030	TG 3035
Order no. recess mounting	3030303	3035303
Order no. wall mounting (with frame)	3030305	3035305
Order no. in stainless steel 316 (V4A)	303030X4	303530X4
Cooling capacity L35L35	30 W	
Operating temperature range ²⁾	-20°C - 70°C	
System air flow ³⁾	39 / 20 m³/h	39 / 20 m³/h
Unimpeded air flow ³⁾	75 / 62 m³/h	75 / 62 m³/h
Mounting	Recessed / wall mounted (with frame)	
Dimensions A x B x C (D+E) recessed	110 x 154 x 132 (67+65) mm	110 x 154 x 129 (62+67) mm
Dimensions A x B x C wall mounted	212 x 158 x 137 mm	
Housing material	Stainless steel 304 (V2A)	
Weight (recessed / wall mounted)	1.8 / 2.6 kg	1.8 / 2.6 kg
ELECTRICAL DATA		
Voltage / Frequency	12 V DC	24 V DC
Current L35L35	2.8 A	2 A
Starting current	4.3 A	4 A
Max. current	2.9 A	2.2 A
Nominal power L35L35	34 W	50 W
Max. power	35 W	52 W
Fuse rating	5 A (T)	5 A (T)
Connection	Terminal block	
Ingress protection	IP 66 / Type 12, 4, 4X	
Certification	CE, cULus	CE

¹⁾ Depending on the mounting situation the condensation management may need to be considered and possibly adjusted

²⁾ Operating temperature range according to UL -20°C - 65°C

³⁾ Ambient / enclosure

Condensate kit, temperature controller and other accessories on page 98





SOLITHERM PELTIER

Thermo electric cooling units for DC voltage

TG 3050 - TG 3075 - TG 3102

- ✓ Cooling capacity: 50 W, 75 W and 100 W
- ✓ For indoor and outdoor applications
- ✓ Can be mounted in any position ¹⁾
- ✓ NEMA / Type 4X rated
- ✓ Ingress protection IP 66
- ✓ Maintenance free



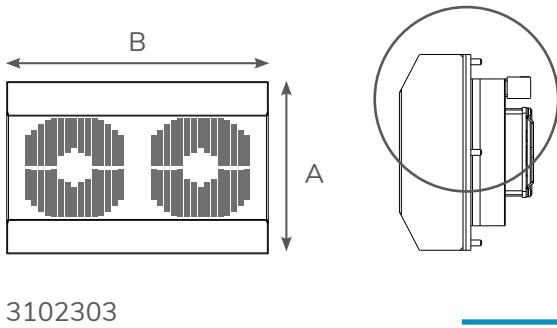
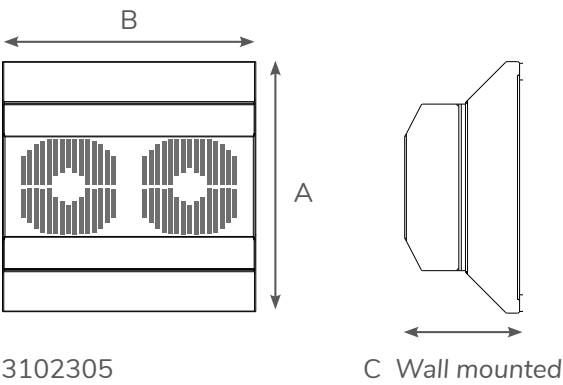
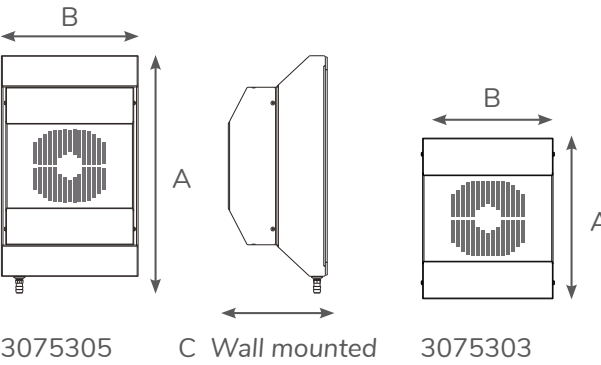
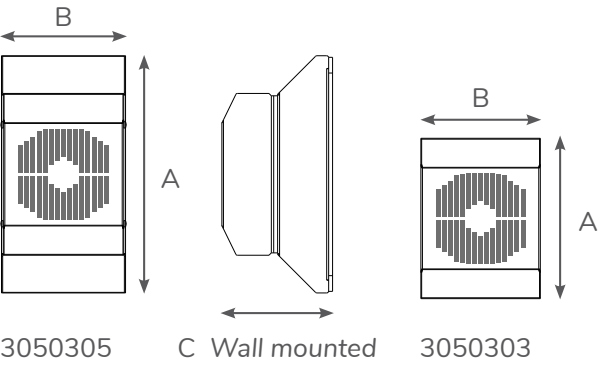
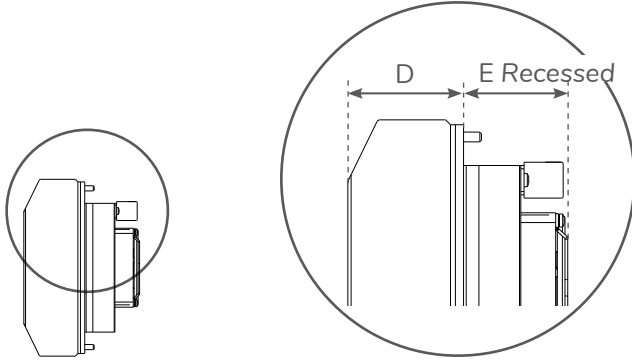
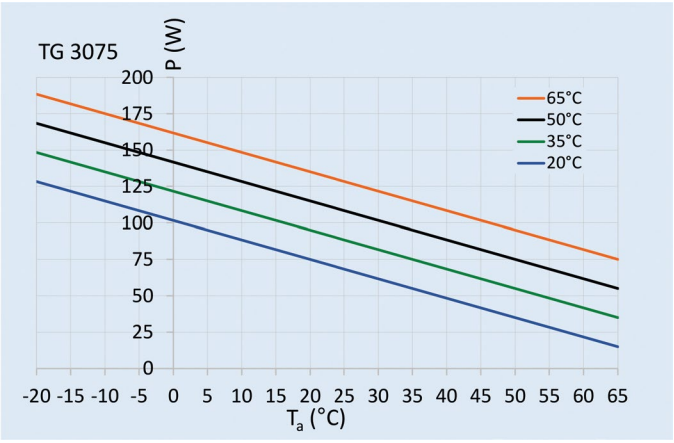
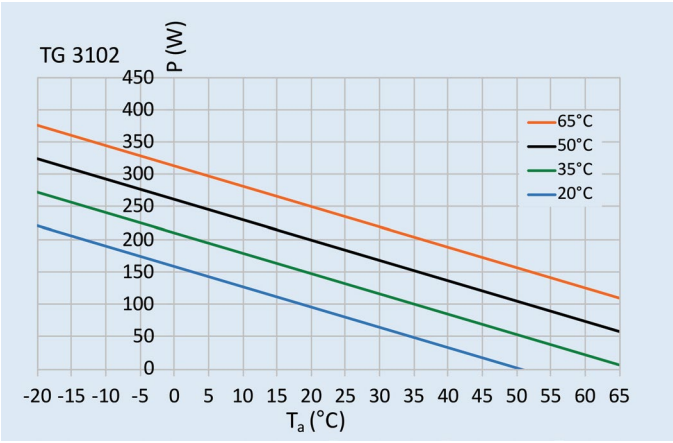
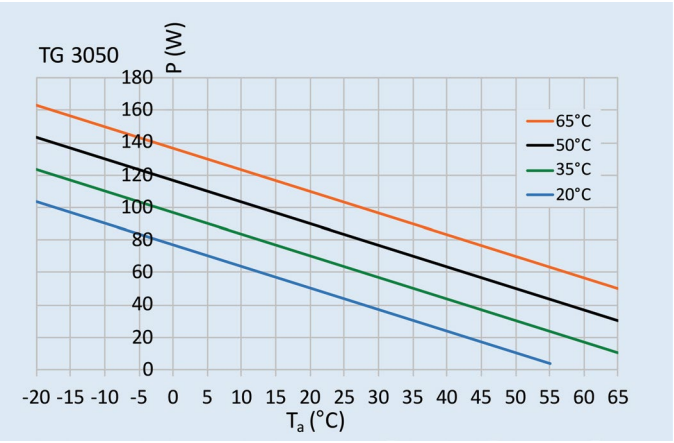
Model	TG 3050	TG 3075	TG 3102
Order no. recess mounting	3050303	3075303	3102303
Order no. wall mounting (with frame)	3050305	3075305	3102305
Order no. in stainless steel 316 (V4A)	305030X4	307530X4	310230X4
Cooling capacity L35L35	50 W	75 W	100 W
Operating temperature range ²⁾	-20°C - 70°C		
System air flow ³⁾	64 / 23 m³/h	116 / 58 m³/h	128 / 46 m³/h
Unimpeded air flow ³⁾	170 / 72 m³/h	306 / 182 m³/h	213 / 90 m³/h
Mounting	Recessed / wall mounted (with frame)		
Dimensions A x B x C (D+E) recessed	200 x 154 x 138 (65+73) mm	250 x 203 x 160 (86+74) mm	200 x 305 x 138 (65+73) mm
Dimensions A x B x C wall mounted	302 x 158 x 141 mm	350 x 217 x 157 mm	302 x 306 x 141 mm
Housing material	Stainless steel 304 (V2A)		
Weight (recessed / wall mounted)	3.3 / 3.9 kg	5.2 kg	5.9 / 7.4 kg
	ELECTRICAL DATA		
Voltage / Frequency	24 V DC	24 V DC	24 V DC
Current L35L35	2.4 A	4.6 A	4.8 A
Starting current	3.7 A	6.9 A	7.4 A
Max. current	2.5 A	5.3 A	4.9 A
Nominal power L35L35	58 W	110 W	124 W
Max. power	60 W	127 W	118 W
Fuse rating	4 A (T)	8 A (T)	
Connection	Terminal block		
Ingress protection	IP 66 / Type 12, 4, 4X		
Certification	CE, cURus		

¹⁾ Depending on the mounting situation the condensation management may need to be considered and possibly adjusted

²⁾ Operating temperature range according to UL -20°C - 65°C

³⁾ Ambient / enclosure

Condensate kit, temperature controller and other accessories on page 98





SOLITHERM PELTIER

Thermo electric cooling units for DC voltage

TG 3155 - TG 3152 - TG 3200

- ✓ Cooling capacity: 125 W, 150 W and 200 W
- ✓ For indoor and outdoor applications
- ✓ Can be mounted in any position ¹⁾
- ✓ NEMA / Type 4X rated
- ✓ Ingress protection IP 66
- ✓ Maintenance free



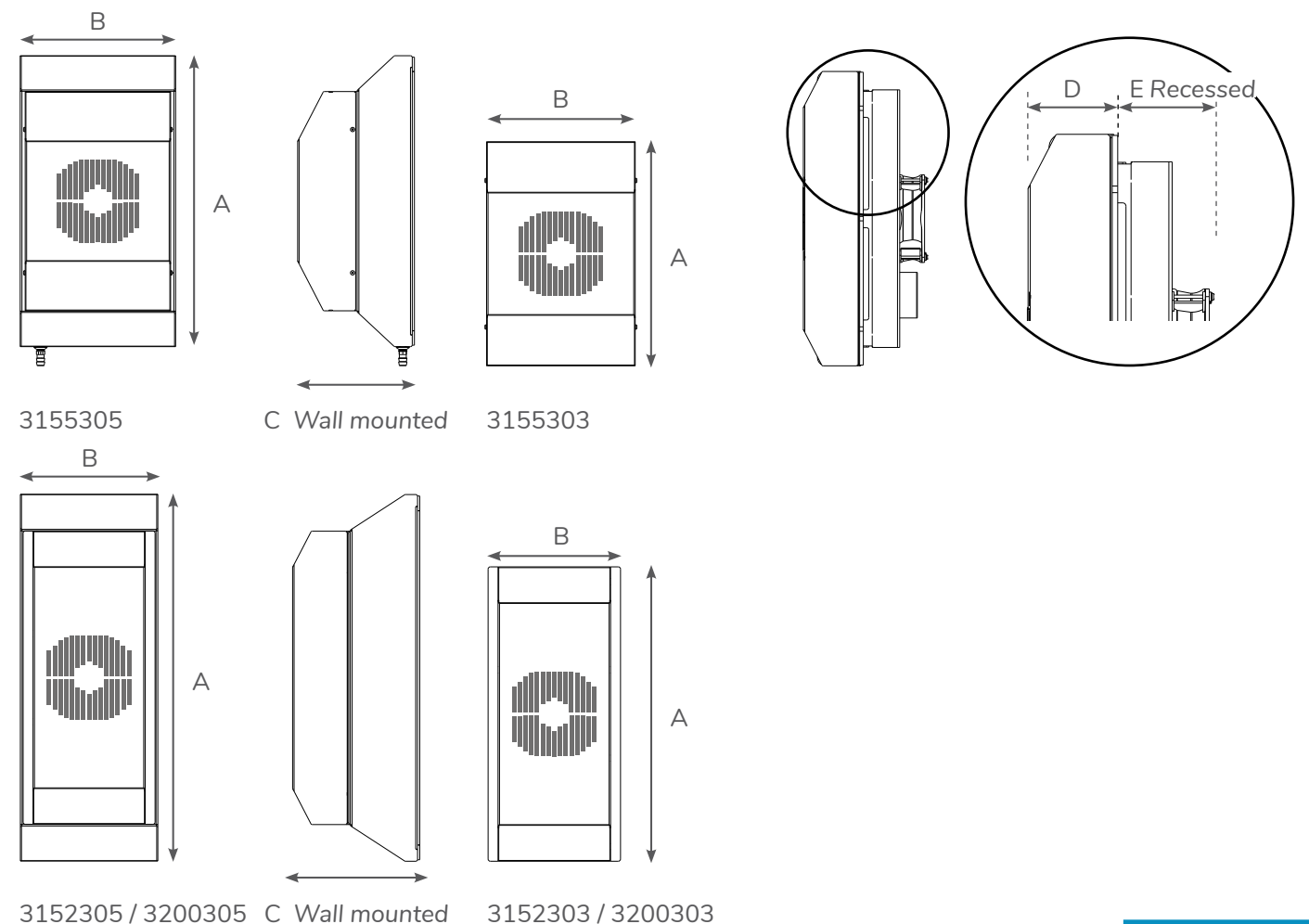
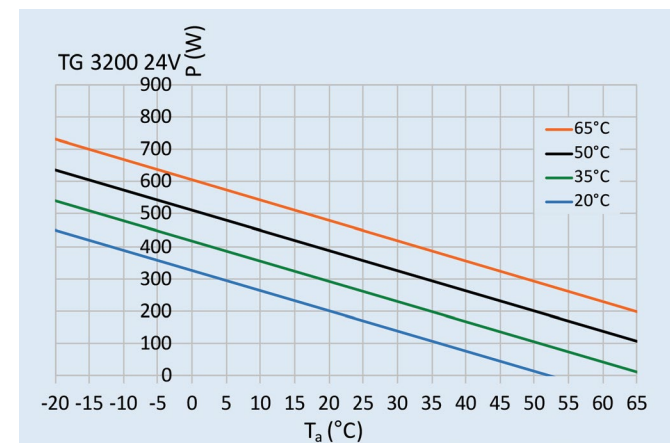
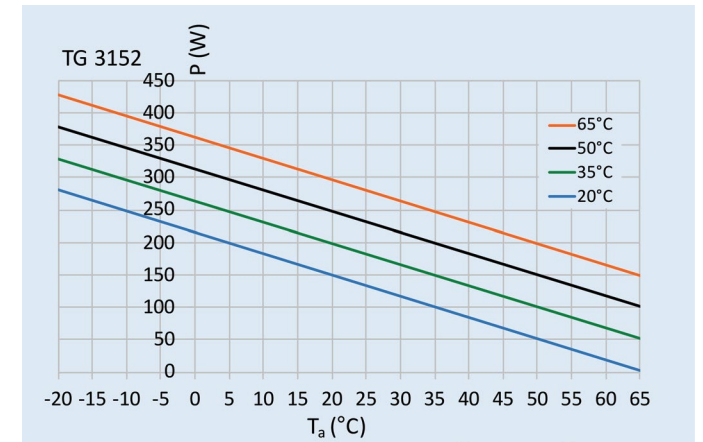
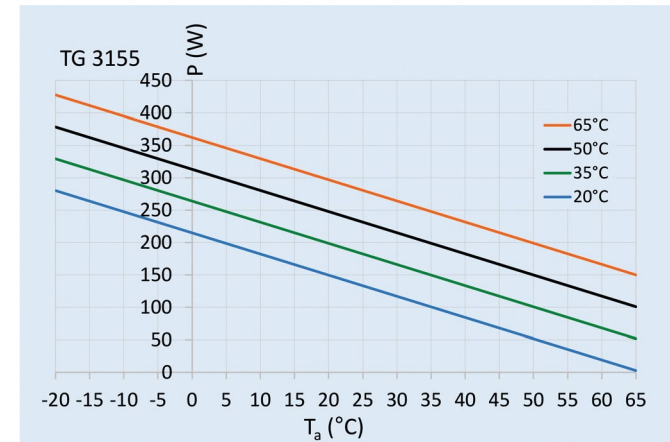
Model	TG 3155	TG 3152	TG 3200	
Order no. recess mounting	3155303	3152303	3200303	3200308
Order no. wall mounting (with frame)	3155305	3152305	3200305	3200310
Order no. in stainless steel 316 (V4A)	315530X4	315230X4	320030X4	32003XX4
Cooling capacity L35L35	125 W	150 W	200 W	
Operating temperature range ²⁾	-20°C - 70°C			
System air flow ³⁾	182 / 58 m³/h	120 / 120 m³/h		
Unimpeded air flow ³⁾	442 / 168 m³/h	260 / 260 m³/h		
Mounting	Recessed / wall mounted (with frame)			
Dimensions A x B x C (D+E) recessed	306 x 203 x 160 (86+74) mm	400 x 180 x 170 (79+91) mm		
Dimensions A x B x C wall mounted	406 x 217 x 163 mm	500 x 188 x 172 mm		
Housing material	Stainless steel 304 (V2A)			
Weight (recessed / wall mounted)	6.7 kg	9 / 12.7 kg	10 / 13.7 kg	
	ELECTRICAL DATA			
Voltage / Frequency	24 V DC	24 V DC	24 V DC	48 V DC
Current L35L35	9.5 A	6.3 A	9.4 A	4.7 A
Starting current	14.3 A	11 A	17.1 A	9.5 A
Max. current	10.9 A	7.5 A	13.5 A	7.5 A
Nominal power L35L35	228 W	170 W	226 W	226 W
Max. power	262 W	180 W	324 W	360 W
Fuse rating	15 A (T)	10 A (T)	16 A (T)	10 A (T)
Connection	Terminal block			
Ingress protection	IP 66 / Type 12, 4, 4X			
Certification	CE, cURus			

¹⁾ Depending on the mounting situation the condensation management may need to be considered and possibly adjusted

²⁾ Operating temperature range according to UL -20°C - 65°C

³⁾ Ambient / enclosure

Condensate kit, temperature controller and other accessories on page 98



3152305 / 3200305 C Wall mounted 3152303 / 3200303



SOLITHERM PELTIER

Thermo electric cooling units for AC voltage

TG 6105 - TG 6155 - TG 6205

- ✓ Cooling capacity: 100 W, 150 W and 200 W
- ✓ For indoor and outdoor applications
- ✓ Can be mounted in any position ¹⁾
- ✓ NEMA / Type 4X rated
- ✓ Ingress protection IP 66
- ✓ Maintenance free

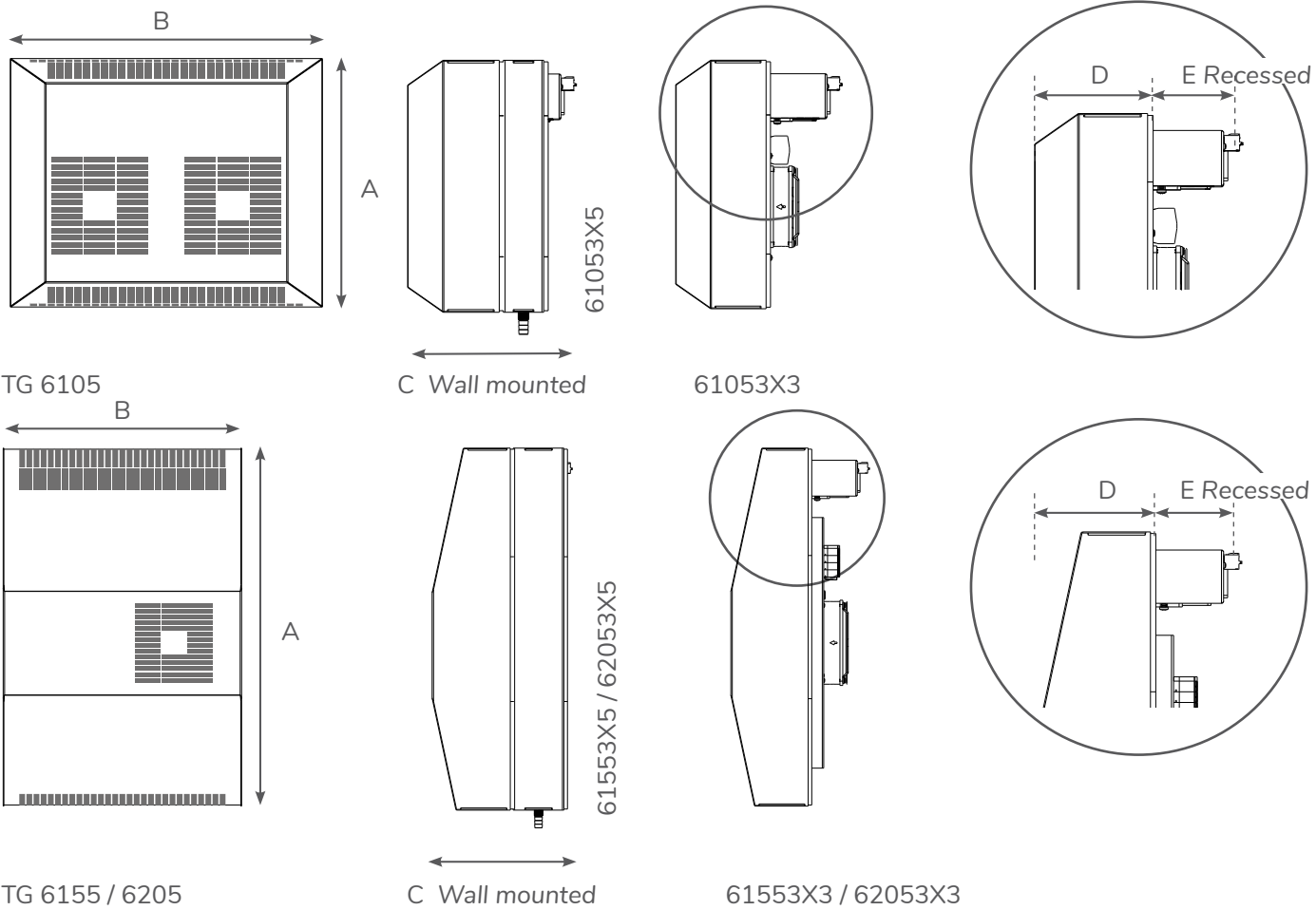
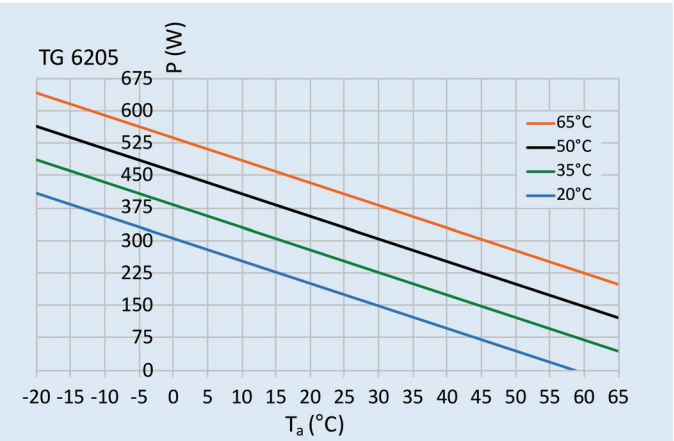
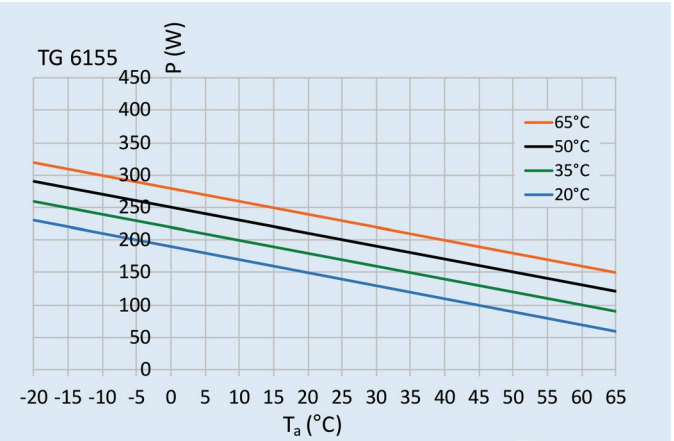
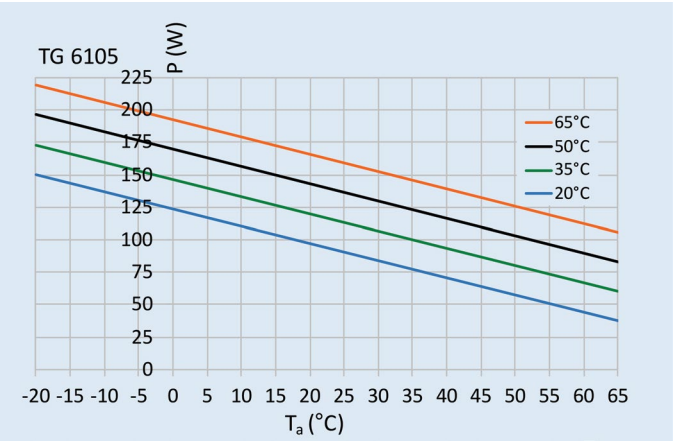


Model	TG 6105		TG 6155		TG 6205	
Order no. recess mounting	6105323	6105313	6155323	6155313	6205323	6205313
Order no. wall mounting (with frame)	6105325	6105315	6155325	6155315	6205323	6205313
Order no. in stainless steel 316 (V4A)	61053XX4		61553XX4		62053XX4	
Cooling capacity L35L35	100 W		150 W		200 W	
Operating temperature range	-20°C - 70°C					
Setting range	20°C - 50°C (cooling)					
System air flow ²⁾	128 / 46 m³/h		120 / 60 m³/h		106 / 150 m³/h	
Unimpeded air flow ²⁾	213 / 90 m³/h		260 / 170 m³/h		260 / 260 m³/h	
Mounting	Recessed / wall mounted (with frame)					
Dimensions A x B x C (D+E) recessed	281 x 353 x 175 (107+68) mm		500 x 333 x 181 (113+68) mm			
Dimensions A x B x C wall mounted	281 x 353 x 175 mm		500 x 333 x 187 mm			
Housing material	Stainless steel 304 (V2A)					
Weight (recessed / wall mounted)	9.4 / 11 kg		18 / 19 kg		17.2 / 21 kg	
	ELECTRICAL DATA					
Voltage / Frequency	230 V ~ 50/60 Hz	120 V ~ 60 Hz	230 V ~ 50/60 Hz	120 V ~ 60 Hz	230 V ~ 50/60 Hz	120 V ~ 60 Hz
Current L35L35	0.5 A	1.0 A	0.7 A	1.4 A	1.1 A	2.1 A
Starting current	0.8 A	1.6 A	1.1 A	2.1 A	1.7 A	3.2 A
Max. current	0.6 A	1.2 A	0.8 A	1.5 A	1.2 A	2.2 A
Nominal power L35L35	125 W		170 W		250 W	
Max. power	139 W		180 W		270 W	
Fuse rating	1 A (T)	2 A (T)	2 A (T)	3 A (T)	3 A (T)	4 A (T)
Connection	4 pole connector for power, 5 pole connector for signals					
Ingress protection	IP 66 / Type 12, 4, 4X					
Certification	CE, cURus					

¹⁾ Depending on the mounting situation the condensation management may need to be considered and possibly adjusted

²⁾ Ambient / enclosure

Condensate kit, temperature controller and other accessories on page 98





SOLITHERM PELTIER

Thermo electric cooling units for AC voltage

TG 6405 - TG 6805

- ✓ Cooling capacity: 400 W and 800 W
- ✓ For indoor and outdoor applications
- ✓ Can be mounted in any position ¹⁾
- ✓ NEMA / Type 4X rated
- ✓ Ingress protection IP 66
- ✓ Maintenance free

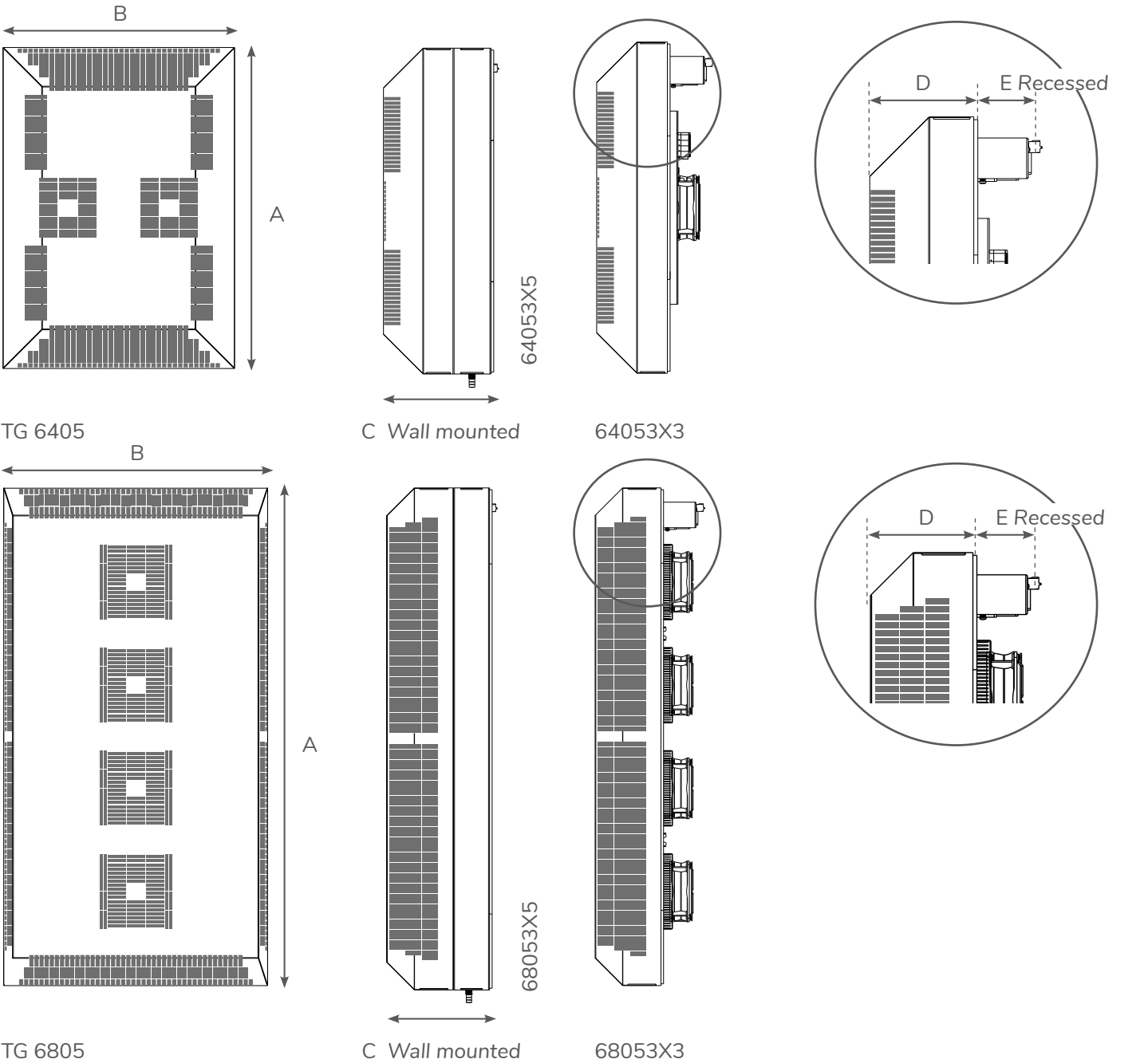
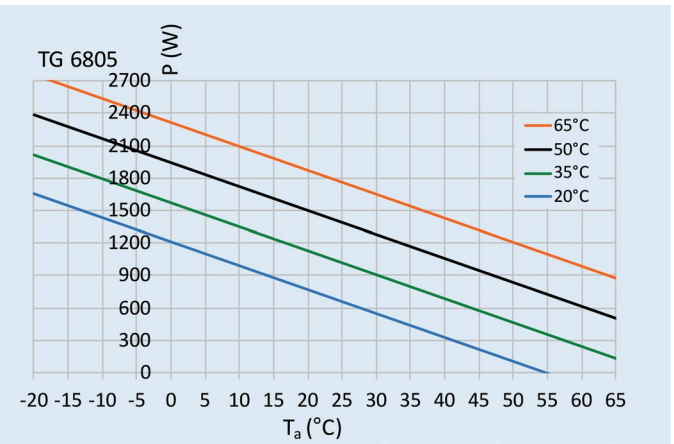
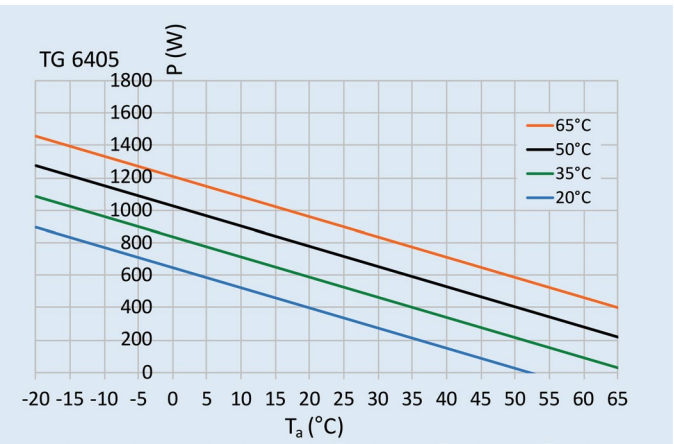


Model	TG 6405		TG 6805	
Order no. recess mounting	6405323	6405313	6805323	6805313
Order no. wall mounting (with frame)	6405325	6405315	6805325	6805315
Order no. in stainless steel 316 (V4A)	64053XX4		68053XX4	
Cooling capacity L35L35	400 W		800 W	
Operating temperature range	-20°C - 70°C			
Setting range	20°C - 50°C (cooling)			
System air flow ²⁾	240 / 240 m³/h		480 / 480 m³/h	
Unimpeded air flow ²⁾	325 / 325 m³/h		650 / 650 m³/h	
Mounting	Recessed / wall mounted (with frame)			
Dimensions A x B x C (D+E) recessed	600 x 433 x 199 (133+66) mm		975 x 517 x 202 (134+68) mm	
Dimensions A x B x C wall mounted	600 x 433 x 203 mm		975 x 517 x 205 mm	
Housing material	Stainless steel 304 (V2A)			
Weight (recessed / wall mounted)	34 / 37 kg		66 / 70 kg	
	ELECTRICAL DATA			
Voltage / Frequency	230 V ~ 50/60 Hz	120 V ~ 60 Hz	230 V ~ 50/60 Hz	120 V ~ 60 Hz
Current L35L35	2.1 A	4.1 A	4.3 A	8.2 A
Starting current	3.4 A	6.5 A	8 A	14 A
Max. current	2.3 A	4.5 A	4.7 A	9.0 A
Nominal power L35L35	490 W		980 W	
Max. power	537 W		1,078 W	
Fuse rating	4 A (T)	7 A (T)	7 A (T)	13 A (T)
Connection	4 pole connector for power, 5 pole connector for signals			
Ingress protection	IP 66 / Type 12, 4, 4X			
Certification	CE, cURus			

¹⁾ Depending on the mounting situation the condensation management may need to be considered and possibly adjusted

²⁾ Ambient / enclosure

Condensate kit, temperature controller and other accessories on page 98

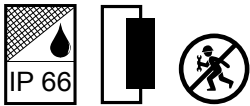




SOLITHERM PELTIER
Thermo electric cooling unit explosion protected

TG 31529556 EX

- ✓ Cooling capacity: 150 W
- ✓ For indoor and outdoor applications
- ✓ Can be mounted in any position ¹⁾
- ✓ Ingress protection IP 66
- ✓ Maintenance free
- ✓ ATEX classification II -/3 D Ex tc IIIC T90 °C -/Dc

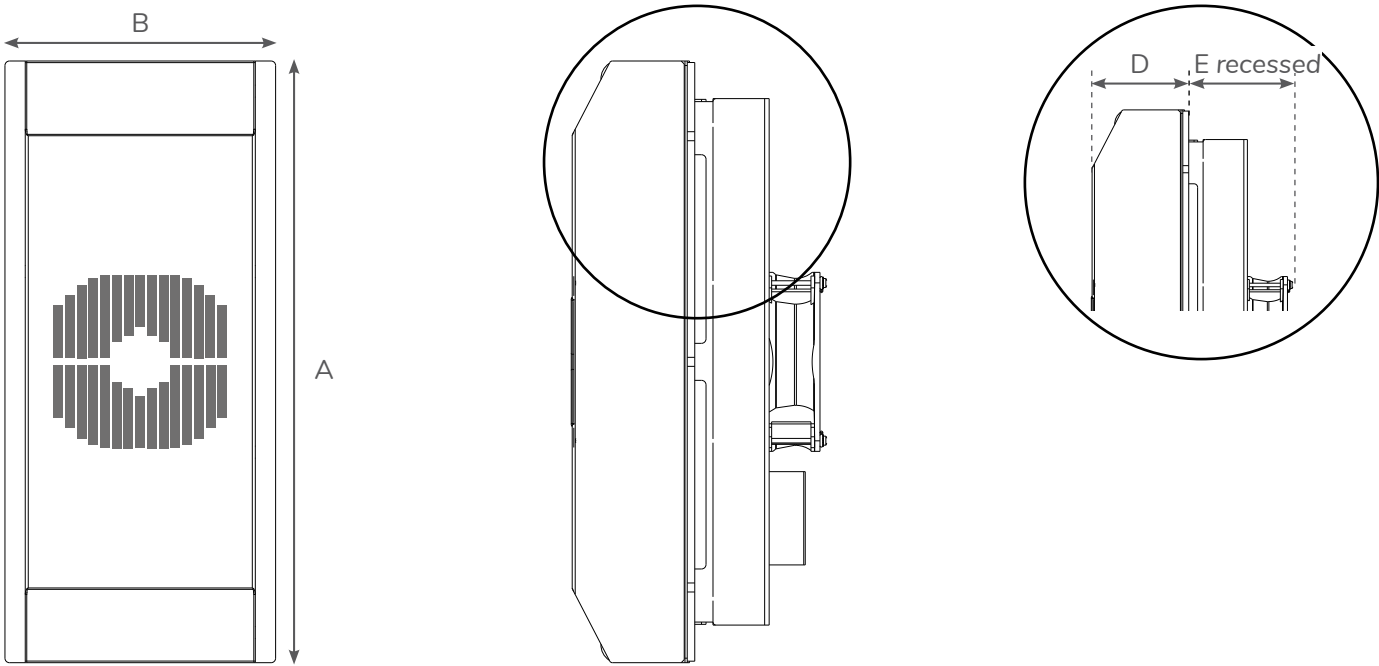
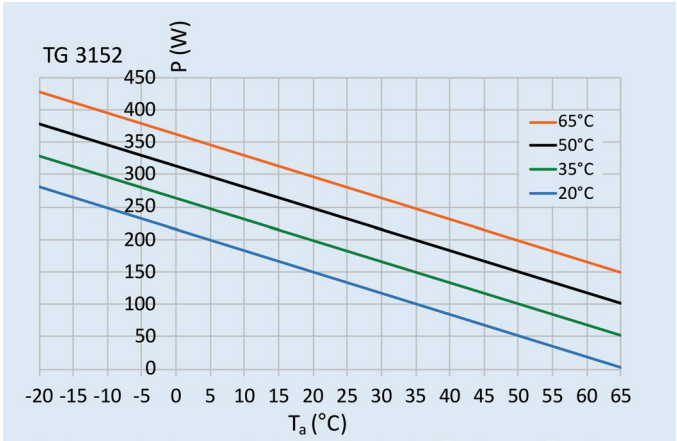


Model	TG 31529556 EX
Order number	31529556
Cooling capacity L35L35	150 W
Operating temperature range	-20°C - 55°C
System air flow ²⁾	140 / 90 m³/h
Unimpeded air flow ²⁾	260 / 170 m³/h
Mounting	recessed
Dimensions A x B x C (D+E)	405 x 185 x 165 (82+83) mm
Housing material	Stainless steel 304 (V2A)
Weight	9 kg
ELECTRICAL DATA	
Voltage / Frequency	24 V DC
Current L35L35	7 A
Starting current	11 A
Max. current	7.5 A
Nominal power L35L35	170 W
Max. power	180 W
Fuse rating	13 A (T)
Connection	Connector
Ingress protection	IP 66
Certification	CE, ATEX (zones 2,22)

¹⁾ Depending on the mounting situation the condensation management may need to be considered and possibly adjusted

²⁾ Ambient / enclosure

Condensate kit, temperature controller and other accessories on page 98



31529556 EX

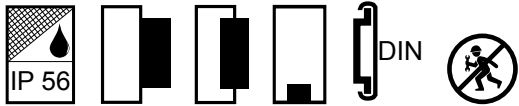


SOLITHERM PELTIER

Thermoelectric dehumidifier

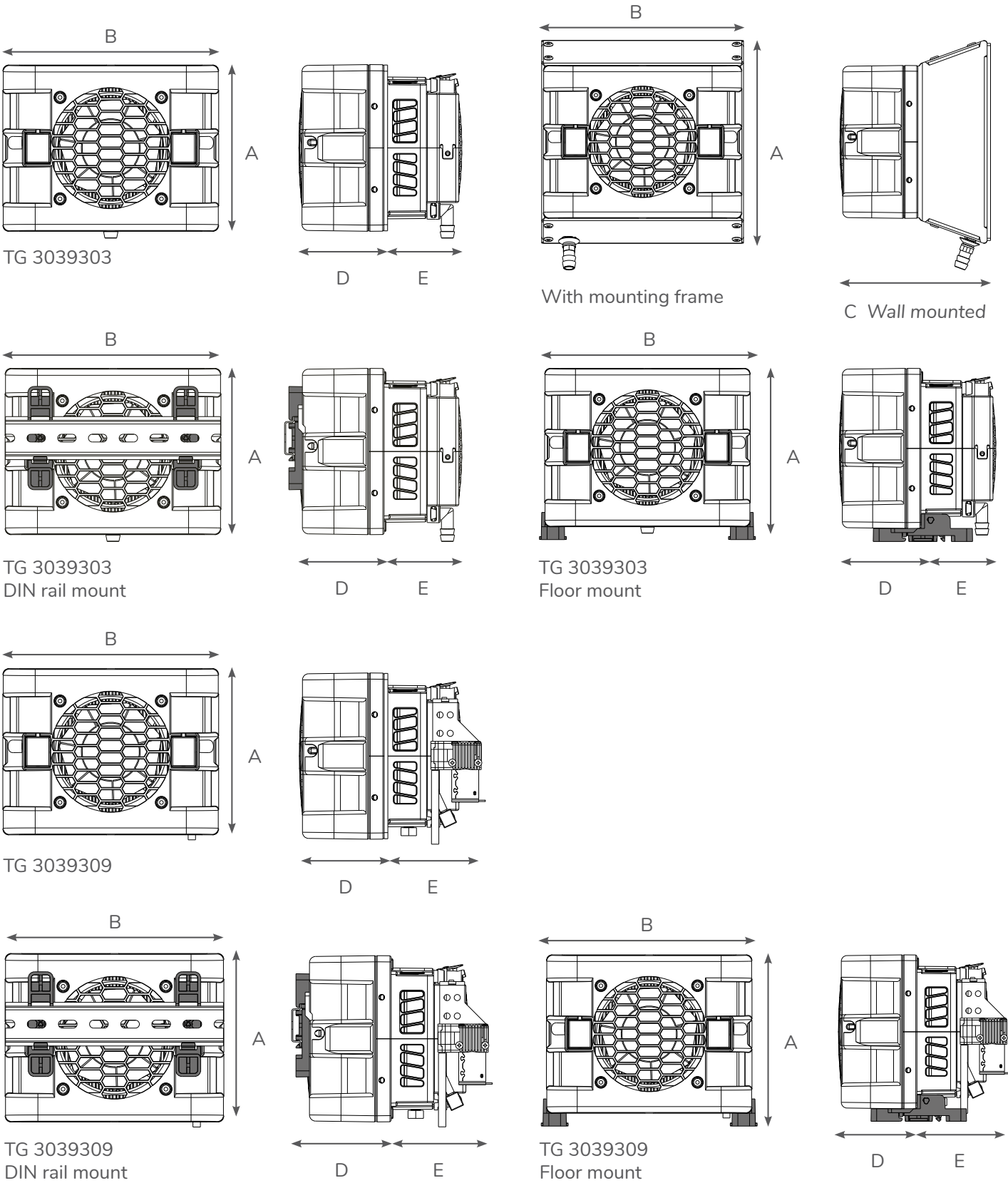
TG 3039

- ✓ For indoor and outdoor applications
- ✓ Condensate pump optional
- ✓ Ingress protection IP 56
- ✓ Maintenance free
- ✓ Flexible mounting options



Model	TG 3039	
Order number	3039303	3039309
With condensate pump	No	Yes
Condensation rate (30°C / 80% rF)	23 ml / hr.	
Operating temperature range	0°C - 65°C	
Operating humidity range	0% - 90% rF	
Mounting	Recessed / DIN rail / enclosure floor / Wall mounted ¹⁾	Recessed / DIN rail / enclosure floor
Dimensions A x B x C (D+E)	136 x 176 x 133 (72+61) mm / ¹⁾ 179 x 179 x 133 mm	136 x 176 x 133 (72+61) mm
Housing material / colour	Plastic / RAL 9011	
Weight	1.8 kg	2.3 kg
ELECTRICAL DATA		
Voltage / Frequency	24 V DC	
Power consumption L35L35	50 W	
Connection	2 - pole connector	
Ingress protection	IP 56 / Type 3S	
Protection (condensate management)	IP 66 / Type 4 / 4X	
Certification	CE, cURus	

¹⁾ With mounting frame order no. 1019305



SOLITHERM PELTIER accessories

Order number	Description
1001303	Condensate kit for Peltier TG 3050 / 3050
1002303	Condensate kit for Peltier TG 3152 / 3200
1003303	Condensate kit for Peltier TG 3102 / 6155 / 6205
1004303	Condensate kit for Peltier TG 6105
1005303	Condensate kit for Peltier TG 6405
1006303	Condensate kit for Peltier TG 6805
1008303	Condensate kit for Peltier TG 3075 / 3155

Order number	Description
7800000	Bi-metal controller for heating / cooling of Peltier units with DC voltage. 24 V DC max. 20 A, cooling: 0 - 60°C heating: -10 - 59°C

Order number	Description
3100001	Door contact switch with mounting bracket, 2 x M4 screws

Compatible with the door contact interface of the cooling unit. Prevents the formation of condensation when the enclosure door is open.

Order number	Description
301510	Electronic change-over thermostat, 24 V DC / 16 A Setting range: 0 - 60°C, Hyst. 3K / Sw. Pt. tol 3K
301512	Electronic change-over thermostat, 24 V DC / 16 A Setting range: 0 - 60°C, Hyst. 1K / Sw. Pt. tol 3K

Order number	Description
1011305	Mounting frame for Peltier TG 3030 / 3035
1012305	Mounting frame for Peltier TG 3050
	Mounting frame for Peltier TG 3075
1013305	Mounting frame for Peltier TG 3102
1020305	Mounting frame for Peltier TG 3155
1014305	Mounting frame for Peltier TG 3152 / 3200
1015305	Mounting frame for Peltier TG 6105
1016305	Mounting frame for Peltier TG 6155 / 6205
1017305	Mounting frame for Peltier TG 6405
1018305	Mounting frame for Peltier TG 6805
1019305	Mounting frame for dehumidifer TG 3905

Cannot be used for EX protected units

Order number	Description
AC-TG-6XXX-M-01	Water drain socket IP 66

