

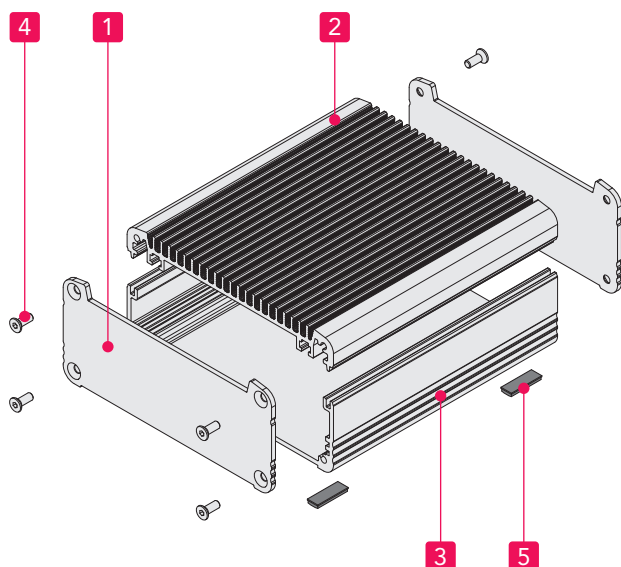
Serie EXH

Kühlkörper Aluminium Gehäuse



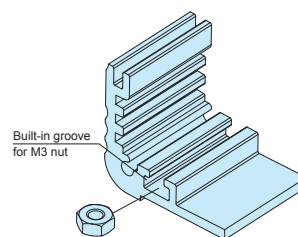
EXH Series

Heat-sink aluminium enclosure



- Aluminium Gehäuse mit hoch effizientem Kühlkörperdeckel.
- Geeignet als Lüfterloser PC, Verstärkergehäuse oder Netzteilgehäuse.
- Verfügbar in 64 verschiedenen Größen und 2 Farbkombinationen.
- Integrierte Führungsnuten im Kühlkörperdeckel und Bodenprofil zur Aufnahme von M3 – Schiebemuttern.

- Aluminium enclosure equipped with a highly efficient heat-sink top cover.
- Suitable to be used as a fanless PC, power amplifier, power supply etc. where heat dissipation is required.
- Selectable in 64 different sizes and 2 different color combinations.
- Grooves for M3 sliding nut are built into the heat-sink top cover and bottom frame (140mm or wider). Optional nut is available.



Einzelteile

Nr.	Bezeichnung	Stück	Material	Farbe / Oberfläche
1	Frontplatten	2	Aluminium A1050P	silber • schwarz / eloxiert
2	Kühlkörperdeckel	1	Aluminiumprofil A6063S-T5	silber • schwarz / eloxiert
3	Bodenprofil	1	Aluminiumprofil A6063S-T5	silber • schwarz / eloxiert
4	Schraube (Hexagonal)	8	Edelstahl	unbehandelt
5	Gummifüße	4	Polyurethan	schwarz

■ Rubber feet material : Polyurethane : EXH8-□ ~ 19-□ models • Synthetic rubber : EXH23-□ ~ 29-□ models.

Components

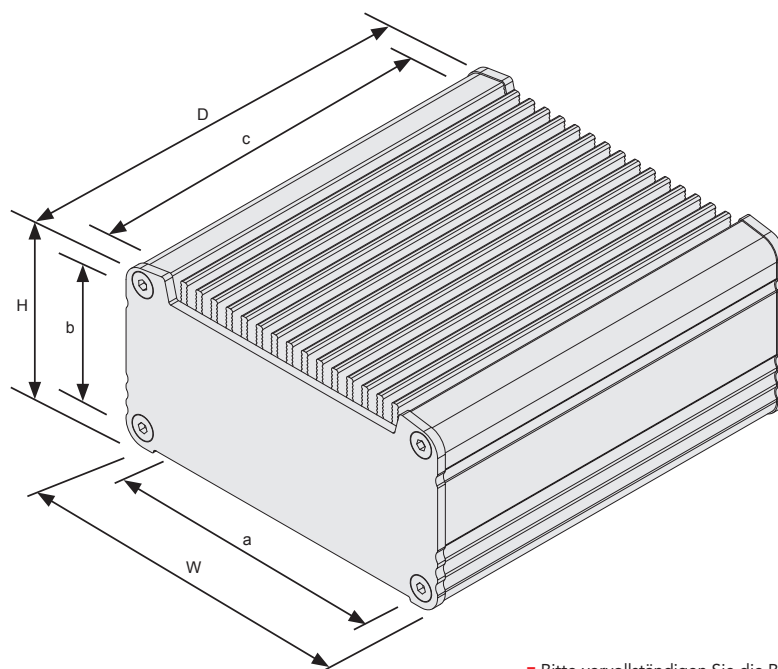
No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1050P	Silver • Black / Anodized
2	Heat-sink top cover	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized
3	Bottom frame	1	Extruded aluminium A6063S-T5	Silver • Black / Anodized
4	Screw (Hexagonal)	8	Stainless steel	Unfinished
5	Rubber feet	4	Polyurethane • Synthetic rubber	Black

■ Rubber feet material : Polyurethane : EXH8-□ ~ 19-□ models • Synthetic rubber : EXH23-□ ~ 29-□ models.

Farbvarianten - Color Types

Farbcode Color code	S S silber / silber S S Silver / Silver	S B schwarz / schwarz S B Black / Black
Farbe Color		

Included screws
EXH8-□ models : M2.5-8 x 8 pcs
EXH11-□, 14-□ models : M3-8 x 8 pcs
EXH19-□ models : M4-10 x 8 pcs
EXH23-□, 29-□ models : M5-10 x 8 pcs
※Hexagonal wrench included.



■ Bitte vervollständigen Sie die Bestellnummer mit dem Farbcode am Ende.

■ Please suffix color code at the end of the product number.

Best.-Nr. / Maße - Product no. / Dimensions

Best-Nr. Product no.	Maße - External dimensions			Maße - Internal dimensions			※Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
EXH 8-3- 6□□	80.6	30.7	60	69.6	20.3	56	7.32
EXH 8-3- 9□□	80.6	30.7	90	69.6	20.3	86	5.65
EXH 8-3-12□□	80.6	30.7	120	69.6	20.3	116	4.72
EXH 8-4- 6□□	80.6	40.7	60	69.6	30.3	56	7.32
EXH 8-4- 9□□	80.6	40.7	90	69.6	30.3	86	5.65
EXH 8-4-12□□	80.6	40.7	120	69.6	30.3	116	4.72
EXH 8-6- 6□□	80.6	55.7	60	69.6	45.3	56	7.32
EXH 8-6- 9□□	80.6	55.7	90	69.6	45.3	86	5.65
EXH 8-6-12□□	80.6	55.7	120	69.6	45.3	116	4.72
EXH11-3- 8□□	106	31.1	78	94.6	19.3	74	4.82
EXH11-3-12□□	106	31.1	118	94.6	19.3	114	3.72
EXH11-3-16□□	106	31.1	164	94.6	19.3	160	3.03
EXH11-5- 8□□	106	46.1	78	94.6	34.3	74	4.82
EXH11-5-12□□	106	46.1	118	94.6	34.3	114	3.72
EXH11-5-16□□	106	46.1	164	94.6	34.3	160	3.03
EXH11-6- 8□□	106	61.1	78	94.6	49.3	74	4.82
EXH11-6-12□□	106	61.1	118	94.6	49.3	114	3.72
EXH11-6-16□□	106	61.1	164	94.6	49.3	160	3.03
EXH14-4-10□□	141	36.1	97	129.6	24.3	93	3.4
EXH14-4-14□□	141	36.1	137	129.6	24.3	133	2.75
EXH14-4-19□□	141	36.1	187	129.6	24.3	183	2.27
EXH14-5-10□□	141	51.1	97	129.6	39.3	93	3.4
EXH14-5-14□□	141	51.1	137	129.6	39.3	133	2.75
EXH14-5-19□□	141	51.1	187	129.6	39.3	183	2.27
EXH14-7-10□□	141	71.1	97	129.6	59.3	93	3.4
EXH14-7-14□□	141	71.1	137	129.6	59.3	133	2.75
EXH14-7-19□□	141	71.1	187	129.6	59.3	183	2.27
EXH14-9-10□□	141	91.1	97	129.6	79.3	93	3.4
EXH14-9-14□□	141	91.1	137	129.6	79.3	133	2.75
EXH14-9-19□□	141	91.1	187	129.6	79.3	183	2.27

※Thermal resistance test condition

- Ambient air cooling.
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Painted aluminium extrusion.
- Heat source is applied on the opposite side (inner side) of the fins.

Best-Nr. Product no.	External dimensions			Internal dimensions			※Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
EXH19- 4-13□□	186.5	43.5	125	131	26.8	120	1.92
EXH19- 4-18□□	186.5	43.5	177	131	26.8	172	1.56
EXH19- 4-23□□	186.5	43.5	230	131	26.8	225	1.32
EXH19- 4-29□□	186.5	43.5	285	131	26.8	280	1.15
EXH19- 6-13□□	186.5	61.5	125	131	44.8	120	1.92
EXH19- 6-18□□	186.5	61.5	177	131	44.8	172	1.56
EXH19- 6-23□□	186.5	61.5	230	131	44.8	225	1.32
EXH19- 6-29□□	186.5	61.5	285	131	44.8	280	1.15
EXH19- 8-13□□	186.5	81.5	125	131	64.8	120	1.92
EXH19- 8-18□□	186.5	81.5	177	131	64.8	172	1.56
EXH19- 8-23□□	186.5	81.5	230	131	64.8	225	1.32
EXH19- 8-29□□	186.5	81.5	285	131	64.8	280	1.15
EXH19-11-13□□	186.5	106.5	125	131	89.8	120	1.92
EXH19-11-18□□	186.5	106.5	177	131	89.8	172	1.56
EXH19-11-23□□	186.5	106.5	230	131	89.8	225	1.32
EXH19-11-29□□	186.5	106.5	285	131	89.8	280	1.15
EXH23- 5-15□□	232	52	153	176	34.8	147	1.47
EXH23- 5-21□□	232	52	213	176	34.8	207	1.2
EXH23- 5-27□□	232	52	273	176	34.8	267	1.03
EXH23- 5-33□□	232	52	333	176	34.8	327	0.91
EXH23- 8-15□□	232	77	153	176	59.8	147	1.47
EXH23- 8-21□□	232	77	213	176	59.8	207	1.2
EXH23- 8-27□□	232	77	273	176	59.8	267	1.03
EXH23- 8-33□□	232	77	333	176	59.8	327	0.91
EXH23-10-15□□	232	102	153	176	84.8	147	1.47
EXH23-10-21□□	232	102	213	176	84.8	207	1.2
EXH23-10-27□□	232	102	273	176	84.8	267	1.03
EXH23-10-33□□	232	102	333	176	84.8	327	0.91
NEW EXH29- 8-23□□	287.5	77.5	234	230	59.5	228	0.97
NEW EXH29- 8-30□□	287.5	77.5	304	230	59.5	298	0.82
NEW EXH29- 8-38□□	287.5	77.5	384	230	59.5	378	0.71
NEW EXH29-13-23□□	287.5	127.5	234	230	109.5	228	0.97
NEW EXH29-13-30□□	287.5	127.5	304	230	109.5	298	0.82
NEW EXH29-13-38□□	287.5	127.5	384	230	109.5	378	0.71

■ Sonderlängen verfügbar. - ■ Custom length available.

Serie EXHE

Kühlkörper Aluminium Gehäuse



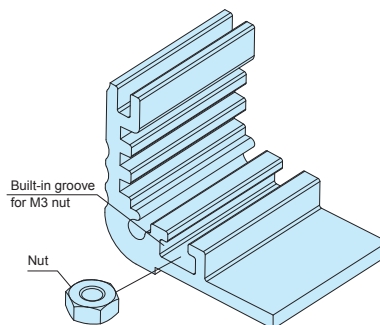
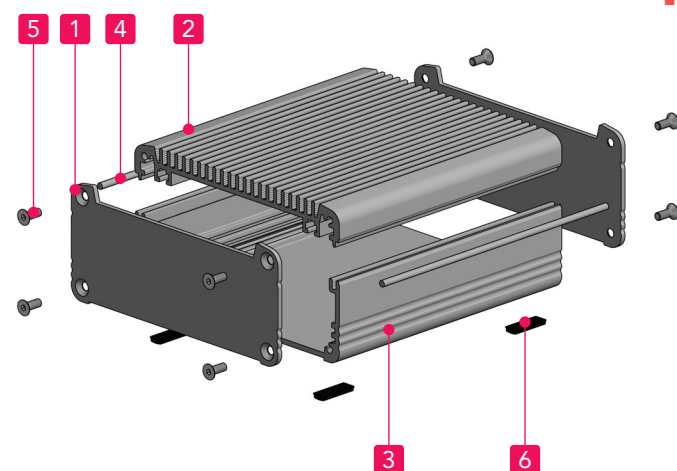
EXHE Series

Heat-sink aluminium EMC shielded enclosure



- EMV Abschirmung durch leitende Oberflächen innerhalb des Gehäuses und leitfähiges Dichtungsmaterial.
- Hocheffizienter Aluminium-Kühlkörperdeckel.
- Integrierte Führungsnuten im Kühlkörperdeckel und Bodenprofil zur Aufnahme von M3-Schiebemuttern.

- EMC shielding is achieved by having the unfinished inner sides of the heat-sink top cover, bottom frame and panels, as well as the shielding gasket in contact with one another.
- Aluminum enclosure equipped with a highly efficient heat-sink top cover.
- Grooves for M3 sliding nut are built into the heat-sink top cover and bottom frame (140mm or wider). Optional nut is available.



Einzelteile

Nr.	Bezeichnung	Stück	Material	Farbe / Oberfläche
1	Frontplatten	2	Aluminium A1050P	silber / lackiert (innen unbehandelt)
2	Kühlkörperdeckel	1	Aluminiumprofil A6063S-T5	silber / lackiert (innen unbehandelt)
3	Bodenprofil	1	Aluminiumprofil A6063S-T5	silber / lackiert (innen unbehandelt)
4	Leitfähige Dichtung	2	Leitfähige Dichtung : TPE	grau
5	Schraube (Hexagonal)	8	Edelstahl	unbehandelt
6	Gummifüße	4	Polyurethan	schwarz

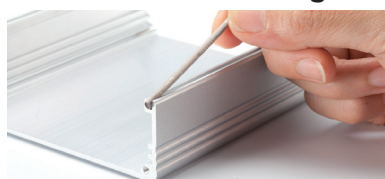
■ Gummifüße Material: Polyurethan : EXHE8-□ ~ 19-□Serien • Synthetisches Gummi : EXHE23-□ ~ 29-□ Serien.

Components

No.	Part name	Pcs	Material	Color / Finish
1	Panel	2	Aluminium A1050P	Metallic silver / Painted (Unfinished inside)
2	Heat-sink top cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
3	Bottom frame	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
4	Fabric-over-foam gasket	2	Conductive fabric : TPE	Metallic gray
5	Screw (Hexagonal)	8	Stainless steel	Unfinished
6	Rubber feet	4	Polyurethane • Synthetic rubber	Black

■ Rubber feet material : Polyurethane : EXHE8-□ ~ 19-□models • Synthetic rubber : EXHE23-□ ~ 29-□ models.

Installation der Dichtungen - How to install shield gaskets



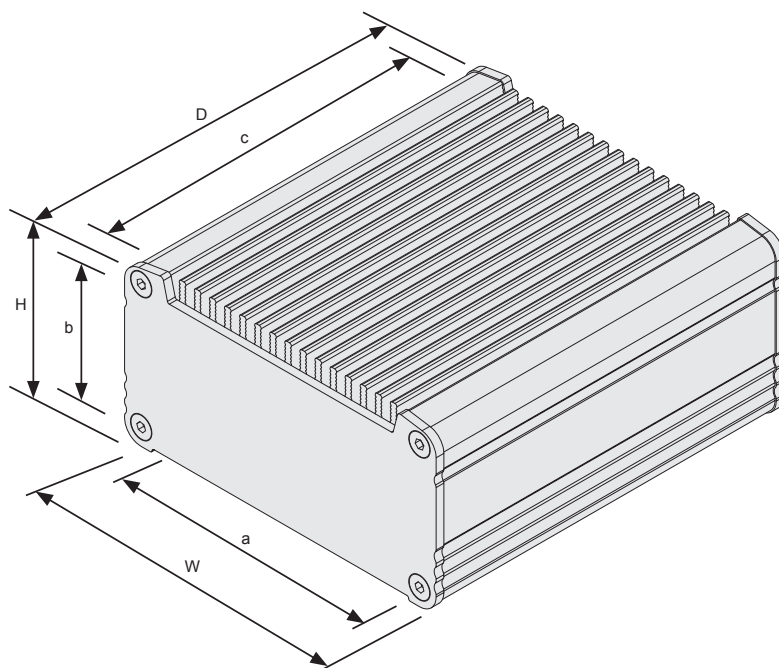
- Bitte die Dichtungen von beiden Seiten in die Führungsnuten des Deckels einlegen.
- Insert fabric-over-foam gaskets into the joint-grooves on both sides of the bottom cover.



- Bitte sicherstellen, dass die Dichtung ein wenig übersteht, damit eine Verbindung zu den Deckelplatten gewährleistet ist.
- Ensure that a small portion of the fabric-over-foam gasket protrudes out in order to maintain connections with the end panels.

EXHE Maße

EXHE dimensions



Included screws
 EXHE8-□ models : M2.5-8 x 8 pcs
 EXHE11-□, 14-□ models : M3-8 x 8 pcs
 EXHE19-□ models : M4-10 x 8 pcs
 EXHE23-□, 29-□ models : M5-10 x 8 pcs
 ※Hexagonal wrench included.

Best-Nr. / Maße - Product no. / Dimensions

Best-Nr. Product no.	External dimensions			Internal dimensions			※Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
EXHE 8-3- 6SS	80.6	30.7	60	66	15	56	7.32
EXHE 8-3- 9SS	80.6	30.7	90	66	15	86	5.65
EXHE 8-3-12SS	80.6	30.7	120	66	15	116	4.72
EXHE 8-4- 6SS	80.6	40.7	60	66	25	56	7.32
EXHE 8-4- 9SS	80.6	40.7	90	66	25	86	5.65
EXHE 8-4-12SS	80.6	40.7	120	66	25	116	4.72
EXHE 8-6- 6SS	80.6	55.7	60	66	40	56	7.32
EXHE 8-6- 9SS	80.6	55.7	90	66	40	86	5.65
EXHE 8-6-12SS	80.6	55.7	120	66	40	116	4.72
EXHE11-3- 8SS	106	31.1	78	88.5	14	74	4.82
EXHE11-3-12SS	106	31.1	118	88.5	14	114	3.72
EXHE11-3-16SS	106	31.1	164	88.5	14	160	3.03
EXHE11-5- 8SS	106	46.1	78	88.5	29	74	4.82
EXHE11-5-12SS	106	46.1	118	88.5	29	114	3.72
EXHE11-5-16SS	106	46.1	164	88.5	29	160	3.03
EXHE11-6- 8SS	106	61.1	78	88.5	44	74	4.82
EXHE11-6-12SS	106	61.1	118	88.5	44	114	3.72
EXHE11-6-16SS	106	61.1	164	88.5	44	160	3.03
EXHE14-4-10SS	141	36.1	97	101.8	24.3	93	3.4
EXHE14-4-14SS	141	36.1	137	101.8	24.3	133	2.75
EXHE14-4-19SS	141	36.1	187	101.8	24.3	183	2.27
EXHE14-5-10SS	141	51.1	97	101.8	39.3	93	3.4
EXHE14-5-14SS	141	51.1	137	101.8	39.3	133	2.75
EXHE14-5-19SS	141	51.1	187	101.8	39.3	183	2.27
EXHE14-7-10SS	141	71.1	97	101.8	59.3	93	3.4
EXHE14-7-14SS	141	71.1	137	101.8	59.3	133	2.75
EXHE14-7-19SS	141	71.1	187	101.8	59.3	183	2.27
EXHE14-9-10SS	141	91.1	97	101.8	79.3	93	3.4
EXHE14-9-14SS	141	91.1	137	101.8	79.3	133	2.75
EXHE14-9-19SS	141	91.1	187	101.8	79.3	183	2.27

※Thermal resistance test condition

- Ambient air cooling.
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Painted aluminium extrusion.
- Heat source is applied on the opposite side (inner side) of the fins.

Best-Nr. Product no.	External dimensions			Internal dimensions			※Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
EXHE19- 4-13SS	186.5	43.5	125	131	26.8	120	1.92
EXHE19- 4-18SS	186.5	43.5	177	131	26.8	172	1.56
EXHE19- 4-23SS	186.5	43.5	230	131	26.8	225	1.32
EXHE19- 4-29SS	186.5	43.5	285	131	26.8	280	1.15
EXHE19- 6-13SS	186.5	61.5	125	131	44.8	120	1.92
EXHE19- 6-18SS	186.5	61.5	177	131	44.8	172	1.56
EXHE19- 6-23SS	186.5	61.5	230	131	44.8	225	1.32
EXHE19- 6-29SS	186.5	61.5	285	131	44.8	280	1.15
EXHE19- 8-13SS	186.5	81.5	125	131	64.8	120	1.92
EXHE19- 8-18SS	186.5	81.5	177	131	64.8	172	1.56
EXHE19- 8-23SS	186.5	81.5	230	131	64.8	225	1.32
EXHE19- 8-29SS	186.5	81.5	285	131	64.8	280	1.15
EXHE19-11-13SS	186.5	106.5	125	131	89.8	120	1.92
EXHE19-11-18SS	186.5	106.5	177	131	89.8	172	1.56
EXHE19-11-23SS	186.5	106.5	230	131	89.8	225	1.32
EXHE19-11-29SS	186.5	106.5	285	131	89.8	280	1.15
EXHE23- 5-15SS	232	52	153	176	34.8	147	1.47
EXHE23- 5-21SS	232	52	213	176	34.8	207	1.2
EXHE23- 5-27SS	232	52	273	176	34.8	267	1.03
EXHE23- 5-33SS	232	52	333	176	34.8	327	0.91
EXHE23- 8-15SS	232	77	153	176	59.8	147	1.47
EXHE23- 8-21SS	232	77	213	176	59.8	207	1.2
EXHE23- 8-27SS	232	77	273	176	59.8	267	1.03
EXHE23- 8-33SS	232	77	333	176	59.8	327	0.91
EXHE23-10-15SS	232	102	153	176	84.8	147	1.47
EXHE23-10-21SS	232	102	213	176	84.8	207	1.2
EXHE23-10-27SS	232	102	273	176	84.8	267	1.03
EXHE23-10-33SS	232	102	333	176	84.8	327	0.91
EXHE29- 8-23SS	287.5	77.5	234	230	59.5	228	0.97
EXHE29- 8-30SS	287.5	77.5	304	230	59.5	298	0.82
EXHE29- 8-38SS	287.5	77.5	384	230	59.5	378	0.71
EXHE29-13-23SS	287.5	127.5	234	230	109.5	228	0.97
EXHE29-13-30SS	287.5	127.5	304	230	109.5	298	0.82
EXHE29-13-38SS	287.5	127.5	384	230	109.5	378	0.71

■ Sonderlängen möglich. ■ Custom length is available.

Serie EXHF

Aluminiumgehäuse mit Montageflansch



EXHF Series

Flanged heat-sink aluminium enclosure

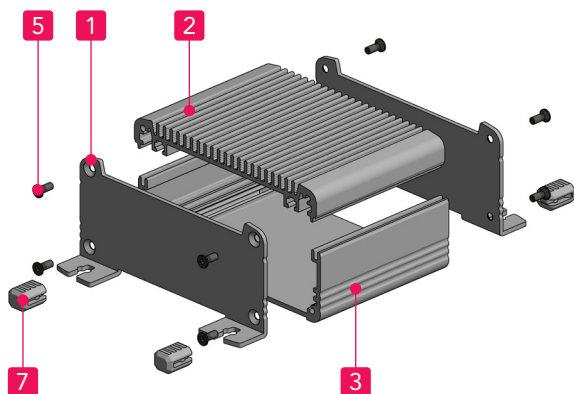


Heat Resistant

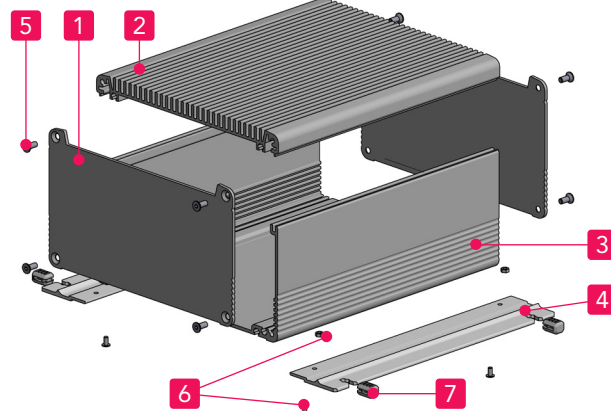
- Ausgestattet mit Montageflansch für einfache Wandmontage.
- Hocheffizienter Aluminium-Kühlkörperdeckel.
- Equipped with flanged bracket for easy wall mounting.
- Aluminum enclosure equipped with a highly efficient heat-sink top cover.



EXHF8-□, 11-□, 14-□



EXHF19-□, 23-□, 29-□



Einzelteile

Nr.	Bezeichnung	Stück	Material	Farbe / Oberfläche
1	Deckelplatte mit Flansch (EXHF8-□, 11-□, 14-□) Deckelplatte (EXHF19-□, 23-□, 29-□)	2	Aluminium A1050P	silber / lackiert (innen unbehandelt) : schwarz / eloxiert
2	Kühlkörperdeckel	1	Aluminiumprofil A6063S-T5	silber / lackiert (innen unbehandelt) : schwarz / eloxiert
3	Bodenprofil	1	Aluminiumprofil A6063S-T5	silber / lackiert (innen unbehandelt) : schwarz / eloxiert
4	Montageflansch	2	Aluminiumprofil A6063S-T5	silber / lackiert • schwarz / eloxiert
5	Frontplattenschraube (Hexagonal)	8	Edelstahl	unbehandelt
6	Schraube für Montagewinkel	4	Stahl	schwarz chromatiert
7	Gummifuß	4	Silikon	schwarz

Components

No.	Part name	Pcs	Material	Color / Finish
1	Flanged panel (EXHF8-□, 11-□, 14-□) Panel (EXHF19-□, 23-□, 29-□)	2	Aluminium A1050P	Metallic silver / Painted (Unfinished inside) : Black / Anodized
2	Heat-sink top cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside) : Black / Anodized
3	Bottom frame	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside) : Black / Anodized
4	Flange bracket	2	Extruded aluminium A6063S-T5	Metallic silver / Painted • Black / Anodized
5	Panel screw (Hexagonal)	8	Stainless steel	Unfinished
6	Flange screw & nut	4	Steel	Trivalent chromate
7	Rubber feet	4	Silicone	Black

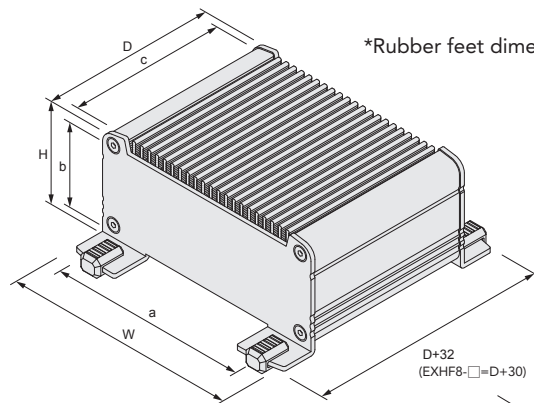
Farbcode - Color Type

Code	S S silber / silber S S silver / silver	S B schwarz / schwarz S B black / black
Farbe Color		

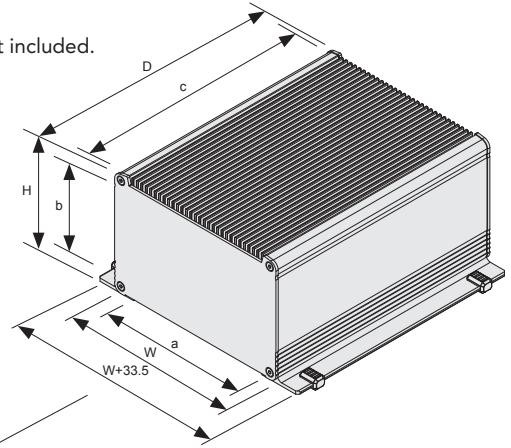
Included screws
EXHF8-□ models : M2.5-8 x 8 pcs
EXHF11-□, 14-□ models : M3-8 x 8 pcs
EXHF19-□ models : M4-10 x 8 pcs
EXHF23-□, 29-□ models : M5-10 x 8 pcs
※Hexagonal wrench included.

EXHF8-□, 11-□, 14-□

EXHF19-□, 23-□, 29-□



*Rubber feet dimensions are not included.



■ Bitte vervollständigen Sie die Bestellnummer mit dem Farbcode am Ende.

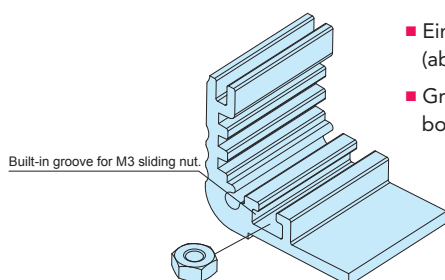
■ Please suffix color code at the end of the product number.

Best-Nr. / Maße - Product no. / Dimensions

Best-Nr. Product no.	External dimensions			Internal dimensions			※Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
NEW EXHF 8-3- 6□□	80.6	32.8	60	66	15	56	7.32
NEW EXHF 8-3- 9□□	80.6	32.8	90	66	15	86	5.65
NEW EXHF 8-3-12□□	80.6	32.8	120	66	15	116	4.72
NEW EXHF 8-4- 6□□	80.6	42.8	60	66	25	56	7.32
NEW EXHF 8-4- 9□□	80.6	42.8	90	66	25	86	5.65
NEW EXHF 8-4-12□□	80.6	42.8	120	66	25	116	4.72
NEW EXHF 8-6- 6□□	80.6	57.8	60	66	40	56	7.32
NEW EXHF 8-6- 9□□	80.6	57.8	90	66	40	86	5.65
NEW EXHF 8-6-12□□	80.6	57.8	120	66	40	116	4.72
NEW EXHF11-3- 8□□	106	33.1	78	88.5	14	74	4.82
NEW EXHF11-3-12□□	106	33.1	118	88.5	14	114	3.72
NEW EXHF11-3-16□□	106	33.1	164	88.5	14	160	3.03
NEW EXHF11-5- 8□□	106	48.1	78	88.5	29	74	4.82
NEW EXHF11-5-12□□	106	48.1	118	88.5	29	114	3.72
NEW EXHF11-5-16□□	106	48.1	164	88.5	29	160	3.03
NEW EXHF11-6- 8□□	106	63.1	78	88.5	44	74	4.82
NEW EXHF11-6-12□□	106	63.1	118	88.5	44	114	3.72
NEW EXHF11-6-16□□	106	63.1	164	88.5	44	160	3.03
NEW EXHF14-4-10□□	141	38.1	97	101.8	24.3	93	3.4
NEW EXHF14-4-14□□	141	38.1	137	101.8	24.3	133	2.75
NEW EXHF14-4-19□□	141	38.1	187	101.8	24.3	183	2.27
NEW EXHF14-5-10□□	141	53.1	97	101.8	39.3	93	3.4
NEW EXHF14-5-14□□	141	53.1	137	101.8	39.3	133	2.75
NEW EXHF14-5-19□□	141	53.1	187	101.8	39.3	183	2.27
NEW EXHF14-7-10□□	141	73.1	97	101.8	59.3	93	3.4
NEW EXHF14-7-14□□	141	73.1	137	101.8	59.3	133	2.75
NEW EXHF14-7-19□□	141	73.1	187	101.8	59.3	183	2.27
NEW EXHF14-9-10□□	141	93.1	97	101.8	79.3	93	3.4
NEW EXHF14-9-14□□	141	93.1	137	101.8	79.3	133	2.75
NEW EXHF14-9-19□□	141	93.1	187	101.8	79.3	183	2.27

※Thermal resistance test condition

- Ambient air cooling.
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Painted aluminium extrusion.
- Heat source is applied on the opposite side (inner side) of the fins.

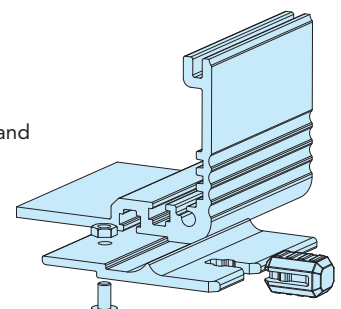


Built-in groove for M3 sliding nut.

- Einschiebenut für M3 Schiebemutter in Deckel- und Bodenprofil (ab 140 mm Breite).
- Grooves for M3 sliding nut are built into the heat-sink top cover and bottom frame (140mm or wider).

■ Montagewinkel bitte wie in der Abbildung montieren.

■ Flange bracket is installed as per the diagram below.



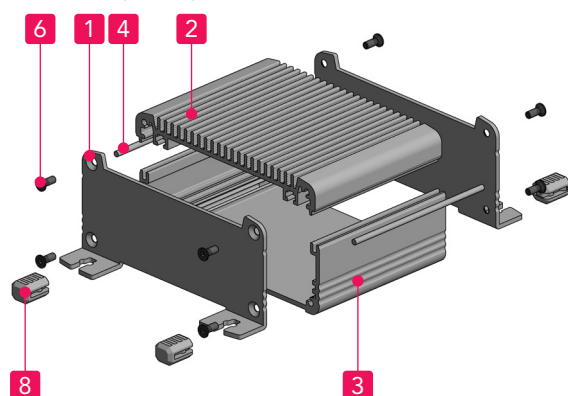
Serie EXHFE EMV Aluminium Gehäuse mit Montageflansch

EXHFE Series Flanged heat-sink aluminium EMC shielded enclosure

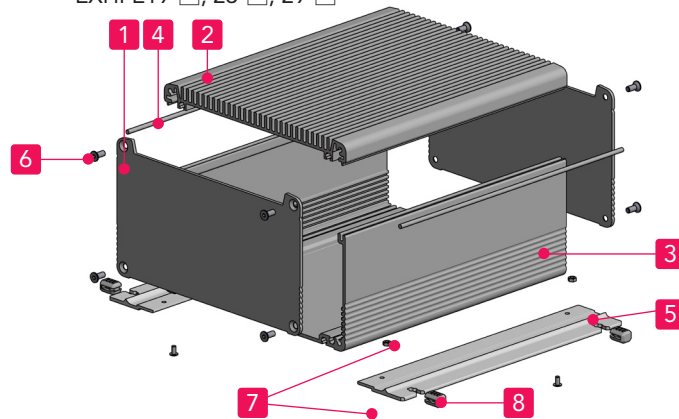


- EMV Abschirmung durch leitende Oberflächen innerhalb des Gehäuses und leitfähiges Dichtungsmaterial.
- Hocheffizienter Aluminium-Kühlkörperdeckel.
- Ausgestattet mit Montageflansch für einfache Wandmontage.
- EMC shielding is achieved by having the unfinished internal parts of the enclosure, as well as the fabric-over-foam gasket, in contact with one another.
- Aluminum enclosure equipped with a highly efficient heat-sink top cover.
- Equipped with flanged bracket for easy wall mounting.

EXHFE8-□, 11-□, 14-□



EXHFE19-□, 23-□, 29-□



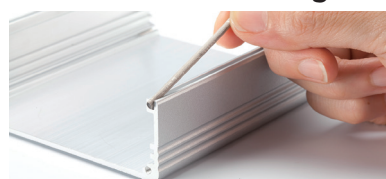
Einzelteile

Nr.	Bezeichnung	Stück	Material	Farbe / Oberfläche
1	Deckelplatte mit Flansch (EXHF8-□, 11-□, 14-□) Deckelplatte (EXHF19-□, 23-□, 29-□)	2	Aluminium A1050P	silber / lackiert (innen unbehandelt)
2	Kühlkörperdeckel	1	Aluminiumprofil A6063S-T5	silber / lackiert (innen unbehandelt)
3	Bodenprofil	1	Aluminiumprofil A6063S-T5	silber / lackiert (innen unbehandelt)
4	Leitfähige Dichtung	2	Leitfähige Dichtung : TPE	grau
5	Montageflansch	2	Aluminiumprofil A6063S-T5	silber / lackiert
6	Frontplattenschraube (Hexagonal)	8	Edelstahl	unbehandelt
7	Schraube für Montagewinkel	je 4	Stahl	schwarz chromatiert
8	Gummifuß	4	Silikon	schwarz

Components

No.	Part name	Pcs	Material	Color / Finish
1	Flanged panel (EXHF8-□, 11-□, 14-□) Panel (EXHF19-□, 23-□, 29-□)	2	Aluminium A1050P	Metallic silver / Painted (Unfinished inside)
2	Heat-sink top cover	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
3	Bottom frame	1	Extruded aluminium A6063S-T5	Metallic silver / Painted (Unfinished inside)
4	Fabric-over-foam gasket	2	Conductive fabric : TPE	Metallic gray
5	Flange bracket	2	Extruded aluminium A6063S-T5	Metallic silver / Painted
6	Panel screw (Hexagonal)	8	Stainless steel	Unfinished
7	Flange screw & nut	4 each	Steel	Black trivalent chromate
8	Rubber feet	4	Silicone	Black

Installation der Dichtungen - How to install shield gaskets

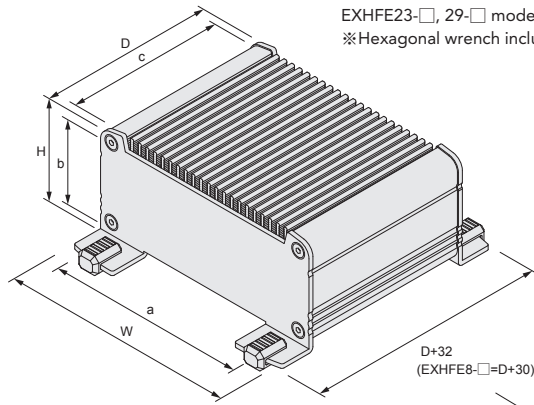


- Bitte die Dichtungen von beiden Seiten in die Führungsnuten des Deckels einlegen.
- Insert fabric-over-foam gaskets into the joint-grooves on both sides of the bottom cover.

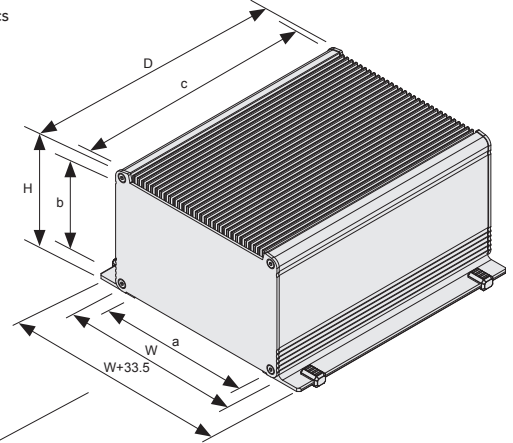


- Bitte sicherstellen, dass die Dichtung ein wenig übersteht, damit eine Verbindung zu den Deckelplatten gewährleistet ist.
- Ensure that a small portion of the fabric-over-foam gasket protrudes out in order to maintain connections with the end panels.

EXHFE8-□, 11-□, 14-□



EXHFE19-□, 23-□, 29-□



Included screws
EXHFE8-□ models : M2.5-8 x 8 pcs
EXHFE11-□, 14-□ models : M3-8 x 8 pcs
EXHFE19-□ models : M4-10 x 8 pcs
EXHFE23-□, 29-□ models : M5-10 x 8 pcs
※Hexagonal wrench included.

*Gummifüße (Maße) nicht berücksichtigt.

*Rubber feet dimensions are not included.

Best-Nr. / Maße - Product no. / Dimensions

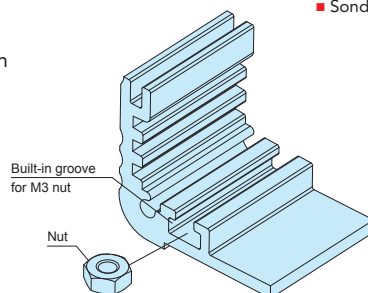
Best-Nr. Product no.	External dimensions			Internal dimensions			※Thermal resistance rate (°C/W)
	W	H	D	a	b	c	
EXHFE 8-3- 6SS	80.6	32.8	60	66	15	56	7.32
EXHFE 8-3- 9SS	80.6	32.8	90	66	15	86	5.65
EXHFE 8-3-12SS	80.6	32.8	120	66	15	116	4.72
EXHFE 8-4- 6SS	80.6	42.8	60	66	25	56	7.32
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EXHFE 8-4-12SS	80.6	42.8	120	66	25	116	4.72
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EXHFE11-3- 8SS	106	33.1	78	88.5	14	74	4.82
EXHFE11-3-12SS	106	33.1	118	88.5	14	114	3.72
EXHFE11-3-16SS	106	33.1	164	88.5	14	160	3.03
EXHFE11-5- 8SS	106	48.1	78	88.5	29	74	4.82
EXHFE11-5-12SS	106	48.1	118	88.5	29	114	3.72
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EXHFE14-4-14SS	141	38.1	137	101.8	24.3	133	2.75
EXHFE14-4-19SS	141	38.1	187	101.8	24.3	183	2.27
EXHFE14-5-10SS	141	53.1	97	101.8	39.3	93	3.4
EXHFE14-5-14SS	141	53.1	137	101.8	39.3	133	2.75
EXHFE14-5-19SS	141	53.1	187	101.8	39.3	183	2.27
EXHFE14-7-10SS	141	73.1	97	101.8	59.3	93	3.4
EXHFE14-7-14SS	141	73.1	137	101.8	59.3	133	2.75
EXHFE14-7-19SS	141	73.1	187	101.8	59.3	183	2.27
EXHFE14-9-10SS	141	93.1	97	101.8	79.3	93	3.4
EXHFE14-9-14SS	141	93.1	137	101.8	79.3	133	2.75
EXHFE14-9-19SS	141	93.1	187	101.8	79.3	183	2.27

※Thermal resistance test condition

- Ambient air cooling.
- Heat-sink fins are set perpendicular to the ground with temperature at 60°C.
- Painted aluminium extrusion.
- Heat source is applied on the opposite side (inner side) of the fins.

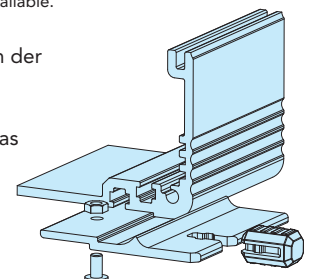
- Einschiebenut für M3 Schiebemutter in Deckel- und Bodenprofil (ab 140 mm Breite).

- Grooves for M3 sliding nut are built into the heat-sink top cover and bottom frame (140mm or wider). Optional nut is available.

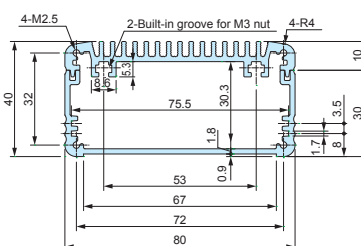


- Montagewinkel bitte wie in der Abbildung montieren.

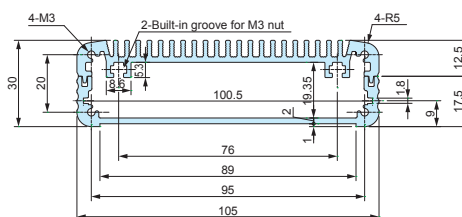
- Flange bracket is installed as per the diagram below.



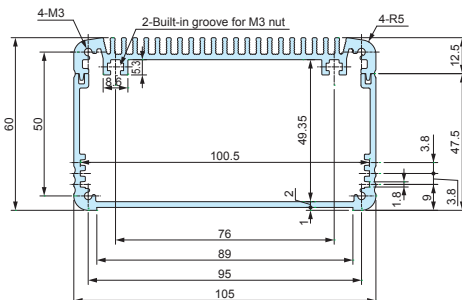
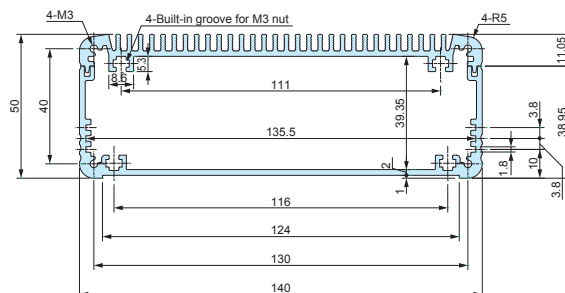
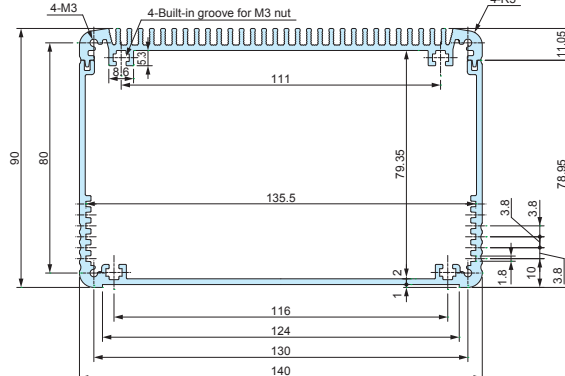
■ Sonderlängen möglich. ■ Custom length is available.

EXH • EXHE • EXHF • EXHFE8-4-

EXH • EXHE • EXHF • EXHFE11-3-□



EXH • EXHE • EXHF • EXHFE11-6-□

EXH • EXHE • EXHF • EXHFE14-5-EXH • EXHE • EXHF • EXHFE14-9-

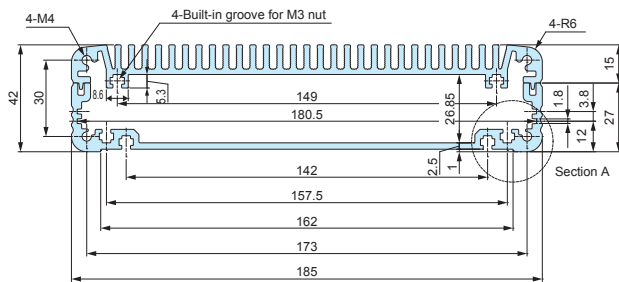
Serie EXH - EXHF

Kühlkörper Ober-/ Unterschale

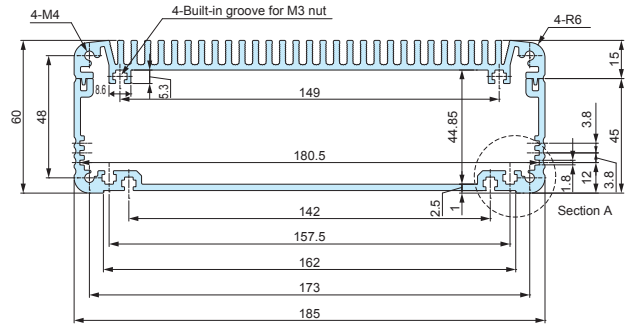
EXH - EXHF Series

Heat-sink top cover / bottom frame

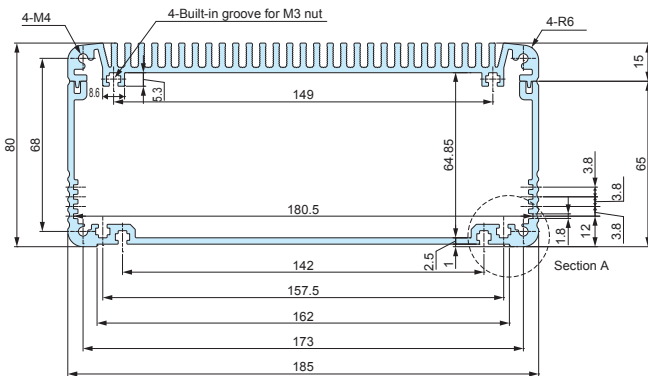
EXH • EXHE • EXHF • EXHFE19-4-□



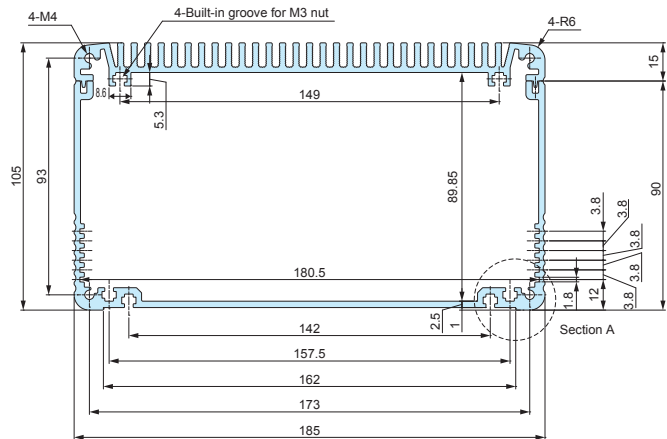
EXH • EXHE • EXHF • EXHFE19-6-□



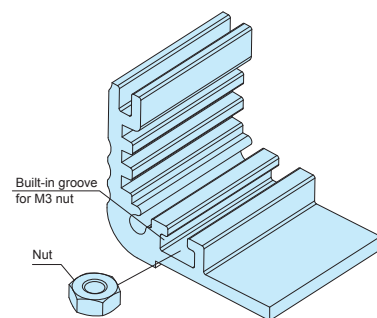
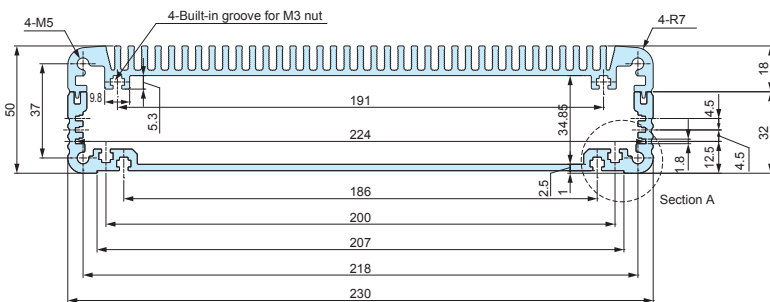
EXH • EXHE • EXHF • EXHFE19-8-□



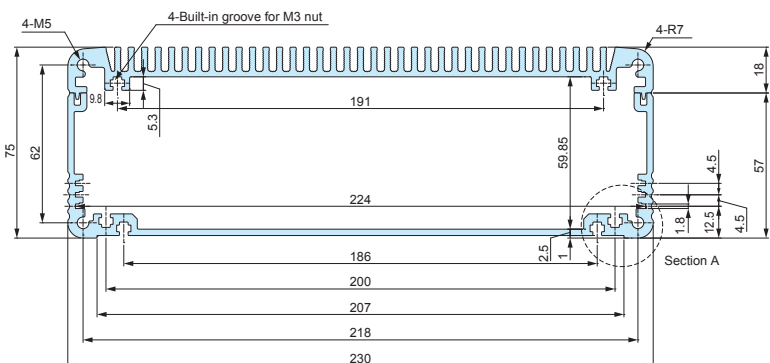
EXH • EXHE • EXHF • EXHFE19-11-□



EXH • EXHE • EXHF • EXHFE23-5-□



EXH • EXHE • EXHF • EXHFE23-8-□



■ Optional M3 nut is available.

Sliding nut can be used on all EXH • EXHE • EXHF • EXHFE models with width 140mm or larger bottom covers, as well as all heat-sink top covers.

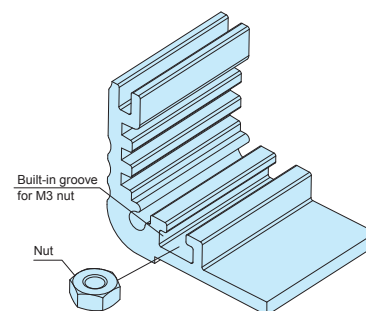
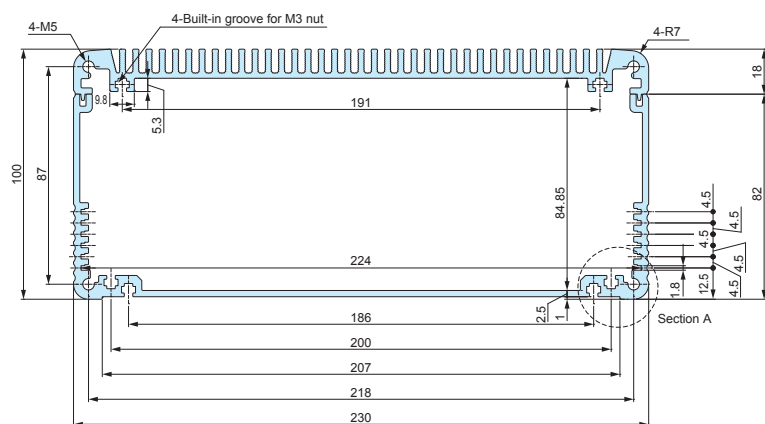
Serie EXH - EXHF

Kühlkörper Ober-/ Unterschale

EXH - EXHF Series

Heat-sink top cover / bottom frame

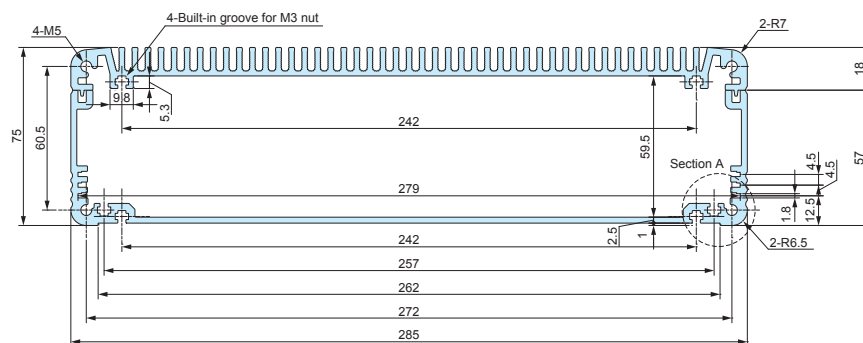
EXH • EXHE • EXHF • EXHFE23-10-□



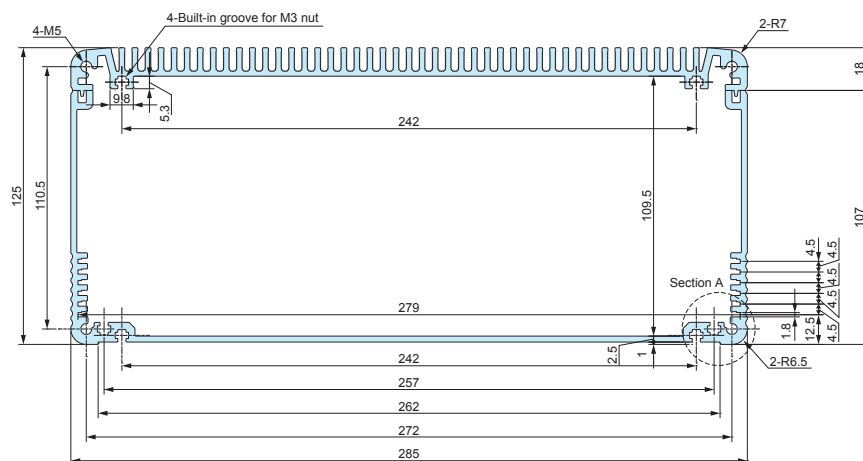
■ Optional M3 nut is available.

Sliding nut can be used on all EXH • EXHE • EXHF • EXHFE models with width 140mm or larger bottom covers, as well as all heat-sink top covers.

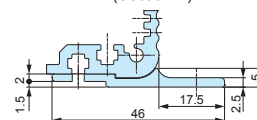
EXH • EXHE • EXHF • EXHFE29-8-□



EXH • EXHE • EXHF • EXHFE29-13-□



Flange bracket dimensions
(Section A)

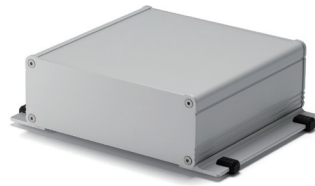


Serie EF

Wand-Montagewinkel für EX - EXH - EXHE

EF Series

Wall Mounting Bracket for EX - EXH - EXHE

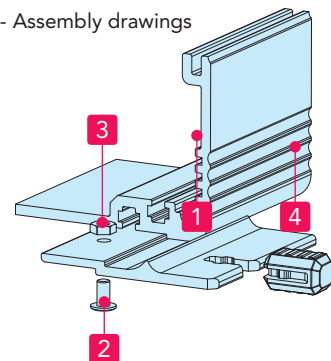
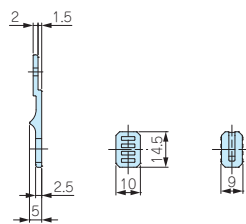
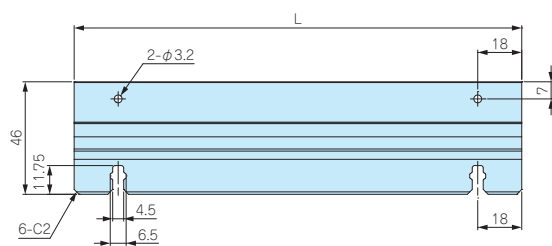


- Wandmontagewinkel für Serien EX, EXH und EXHE. Anwendbar für die Breiten 185, 230 und 285mm.
- Einfache Montage durch Einsetzen der Mutter in das EX, EXH und EXHE Bodenprofil.
- Gummieinsätze können bei der Wandmontage in die Ausbrüche des Montageflansches eingesetzt werden (Tischgehäuse)
- Wall mounting bracket for EX, EXH, and EXHE series. Applicable only for width 185, 230, and 285mm bottom covers.
- Easy installation by inserting the nuts into built-in grooves on EX, EXH, and EXHE bottom cover.
- Rubber feet are included to hide the mounting cutouts when not used for wall mounting, and act as feet stabilizers for desktop use.

EF Maße

EF dimensions

Montagezeichnung - Assembly drawings



Einzelteile - Components

No.	Bezeichnung - Part name	Pcs	Material	Farbe / Oberfläche - Color / Finish
1	Montagewinkel - Bracket	2	Aluminiumprofil - Extruded aluminium A6063S-T5	silber / lackiert • schwarz / eloxiert silver / Painted • Black / Anodized
2	Schraube - Screw	4	Stahl - Steel	schwarz chromatiert - black trivalent chromate
3	Mutter - Nut	4	Stahl - Steel	schwarz chromatiert - black trivalent chromate
4	Gummifuß - Rubber feet	4	Silikon - Silicone	schwarz - black

Best-Nr. / Maße - Product no. / Dimensions

Best-Nr. - Product no.		L	geeignete Gehäuse Suitable models
● silber - silver	● schwarz - black		
EF19-13S	EF19-13B	119.5	EX • EXH • EXHE19-□-13
EF19-18S	EF19-18B	171.5	EX • EXH • EXHE19-□-18
EF19-23S	EF19-23B	224.5	EX • EXH • EXHE19-□-23
EF19-29S	EF19-29B	279.5	EX • EXH • EXHE19-□-29
EF23-15S	EF23-15B	146.5	EX • EXH • EXHE23-□-15
EF23-21S	EF23-21B	206.5	EX • EXH • EXHE23-□-21
EF23-27S	EF23-27B	266.5	EX • EXH • EXHE23-□-27
EF23-33S	EF23-33B	326.5	EX • EXH • EXHE23-□-33
NEW EF29-23S	NEW EF29-23B	227.5	EX • EXH • EXHE29-□-23
NEW EF29-30S	NEW EF29-30B	297.5	EX • EXH • EXHE29-□-30
NEW EF29-38S	NEW EF29-38B	377.5	EX • EXH • EXHE29-□-38