Rittal – **HD Enclosures & Accessories**



Meeting the challenges of sensitive environments.

Rittal's new Hygienic Design (HD) enclosures provide the ultimate solution where cleanliness and sanitation are paramount. Crafted of stainless steel, they feature a smooth surface grain, internal hinges, washable gaskets and latches, and no crevices to trap debris or contaminates.



Precisely engineered for your applications

The new HD enclosures are available with screw covers for smaller, integrated applications or hinged doors for larger installations. Both are created from 304 stainless steel with a 400 grain brushed surface. Wall and door surfaces are angled to prevent objects from adhering so water runs off easily.

Ready to adapt to on-site demands

HD enclosures can be mounted with rounded stand-off brackets on the back to improve the flow of water around the unit during wash-down procedures. And, using optional hardware, larger HD enclosures can be mounted on HD leveling feet and fitted with a wire shelf to assist with cable routing.

- All mounting threads are concealed to keep them free of debris and contaminants
- Optional stainless steel cable glands have smooth, solid exterior surfaces and are self-sealing to enable high-pressure washing

Tight seals every time

Continuous silicone seal door gaskets can be easily replaced as necessary—without special tools. The blue gaskets align with a specifically-engineered fitted channel for a tight seal without any adhesive. The distinctive color makes any particulate splashed on the seal stand out for easier recognition and removal.





Rittal's new HD enclosures provide design engineers with more options and added versatility.

Consider...

- Shorter cleaning times while using less water and fewer chemicals
- Reduced downtime for cleaning/maintenance
- Significantly reduced risk of contamination
- Enhanced protection for customers/employees
- Built and tested to NEMA 4X specifications
- FDA approved gasket material



HD Terminal Box



Material:

177.2600

Enclosure and cover:

Mounting bracket: Sheet steel, zinc-plated, 2.0 mm Quick-release locks: Type 304 stainless steel Gasket: Conforms to FDA Guideline CFR

Type 304 stainless steel, 1.5 mm

Configuration:

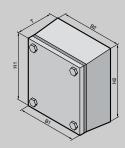
3° inclined surfaces on all sides, 10° chamfer on cover, replaceable silicone gasket, HD quick release locks, internal vertical mounting rails.

Surface finish:

Enclosure and cover: Brushed, grain 400, $R_{\rm A} < 0.8~\mu{\rm m}$ Seal: Blue, dyed (RAL 5010)

Protection category:

UL /cUL Type 4X IP 66 to EN 60 529



Depth: 3 - 5" (80 - 120 mm), Height: 7 - 9" (172 - 227 mm)

		, .	•	•	,				
Halahtinahan (asas)	front (H1)	PU	6 (150)	6 (150)	8 (200)	8 (200)	8 (200)	12 (300)	Page
Height inches (mm)	rear (H2)		7 (172)	7 (177)	9 (227)	9 (227)	9 (227)	13 (327)	
Widthinches (mm)	front (B1)		6 (150)	6 (150)	8 (200)	12 (300)	16 (400)	16 (400)	
widthinches (mm)	rear (B2)		7 (172)	7 (177)	9 (227)	13 (327)	17 (427)	17 (427)	
Depth (T) inches (mm)			3 (80)	5 (120)	5 (120)	5 (120)	5 (120)	5 (120)	
Part No.		1	1670.600	1671.600	1672.600	1674.600	1675.600	1676.600	
Weight lb (kg)			4 (1.8)	5 (2.2)	7 (3.0)	9 (4.0)	11 (5.0)	13 (5.9)	
Accessories									
Wall spacer		4			4000	0.100			7
Mounting panel 1 1560			0.700	1562.700	1563.700	1564.700	1568.700	6	
Support rail 35/7.5			2314	1.000	2315.000	2316.000	2317	7.000	6

HD Compact Enclosure



Metric measurements for this product are exact, imperial measurements are rounded to the nearest whole number

Material:

Enclosure and door: Type 316L Stainless steel Mounting panel: Sheet steel Lock inserts HD: Type 304 Stainless steel Gasket: Conforms to FDA Guideline CFR 177.2600

Configuration:

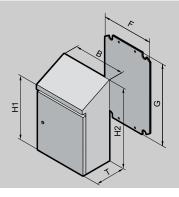
30° overhanging sloped roof, chamfer on door fold, HD lock inserts, replaceable silicone gasket, internal hinges, provisions for rail installation (body and door)

Surface finish:

Enclosure and door: Brushed, grain 400, $R_{\scriptscriptstyle A} < 0.8 \ \mu m$ Mounting panel: Zinc-plated

Protection category:

UL /cUL Type 4X IP 66 to EN 60 529



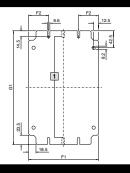
Depth: 6 - 12" (155 - 300 mm), Height: 14 - 56" (350 - 1421 mm)

Height	front (H1)	PU	14 (350)	17 (430)	26 (650)	22 (550)	17 (430)	26 (650)	41 (1050)	49 (1250)	Page
inches (mm)	rear (H2)		17 (437)	22 (549)	30 (769)	26 (669)	24 (601)	30 (769)	48 (1221)	56 (1421)	
Width (B) inches (n	nm)		9 (220)	15 (390)	15 (390)	20 (510)	24 (610)	24 (610)	32 (810)	32 (810)	
Depth (T) inches (n	nm)		6 (155)	8 (210)	8 (210)	8 (210)	12 (300)	8 (210)	12 (300)	12 (300)	
Mounting plate heigh	ght (G) mm		11 (275)	14 (355)	22 (570)	19 (470)	14 (355)	22 (570)	38 (955)	45 (1155)	
Mounting plate wid	th (F) mm		6 (162)	13 (334)	13 (334)	18 (449)	22 (549)	22 (549)	29 (739)	29 (740)	
Part No.		1	1302.600	1306.600	1308.600	1307.600	1320.600	1310.600	1316.600	1317.600	
Weight lb (kg)			9 (4)	33 (15)	40 (18)	44 (20)	44 (20)	60 (27)	132 (60)	157 (71)	
Accessories											

Wall spacer		1				4000).100				7
Rail for interior	for door ¹⁾	4	-	_	-	-	-	_	5001.052	5001.053	6
installation	for body	4	_	_	5001.050	-	-	5001.050	5001.052	5001.053	6

¹⁾Only full length rail part numbers shown, see www.rittal.us for more options.

Accessories



Mounting panels

For component installation outside of the enclosure. Assembly hardware included as accessories with the enclosure.

Material:

Sheet steel, 14 ga (2.0 mm), zinc-plated, passivated

Panel 1560.700 notched only in the center (represented by the dashed lines).

For Part	Dimens	Dowt No.		
No.	G1	F1	F2	Part No.
1670.600, 1671.600	5 (135)	5 (125)	_	1560.700
1672.600	7 (185)	7 (175)	2 (50)	1562.700
1674.600	11 (285)	7 (175)	2 (50)	1563.700
1675.600	15 (385)	7 (175)	2 (50)	1564.700
1676.600	15 (385)	11 (275)	2 (50)	1568.700



Support rails 35/7.5 to EN 60 715

Length sized to the enclosure width.

For enclosure width inches (mm)	Support rails length inches (mm)	PU	Part No.
6 (150)	5 (137)	10	2314.000
8 (200)	7 (187)	10	2315.000
12 (300)	11 (287)	10	2316.000
16 (400)	15 (387)	10	2317.000



Rails for interior installation

For mounting on the existing threaded bolts. With system punchings on three sides.

Material:

Sheet steel, zinc-plated, passivated

Configuration:

Assembly parts

Door Height inches (mm)	Body Height inches (mm)	PU	Part No.
41 (1050) 49 (1250)	26 (650)	4	5001.050
49 (1250)	-	4	5001.051
41 (1050)	41 (1050)	4	5001.052
49 (1250)	49 (1250)	4	5001.053



Cam lock

Material:

Stainless steel 316L

Accessory:

HD enclosure key, part no. 2549.600

PU	Part No.
10	2304.010

Accessories

Stainless steel cable gland and lock nut

Suitable for use in the following areas:

- Manufacturing and packaging of foodstuffs etc.
- Clean room technology (e.g. pharmaceuticals)
- Biotechnology
- Chemical industry

Benefits:

- Smooth, solid exterior surfaces effectively prevent the depositing of harmful micro-organisms. All threads are beneath the cap nut.
- Much easier, therefore cheaper, cleaning compared with conventional stainless steel cable glands.
- Reliable strain relief, thanks to duplicate cable attachment.
- Resistant to high-pressure cleaning (protection category IP 69K).

Material:

Cap nut and lock nut: Stainless steel, 303 Seals: Conforms to FDA Guideline 21 CFR 177.2600

Protection category:

IP 68 (5 bar, 30 min.) to EN 60 529 IP 69K to DIN 40 050-9

Standard Version

Size	Cable diameter inches (mm)	PU	Part No.
M12 x 1.5	0.12 - 0.26 (3 – 6.5)	5	2410.000
M16 x 1.5	0.20 - 0.39 (5 – 10)	5	2410.010
M20 x 1.5	0.24 - 0.47 (6 – 12)	5	2410.020
M25 x 1.5	0.47 - 0.67 (12 – 17)	5	2410.030

EMC Version

Size	Cable diameter inches (mm)	PU	Part No.
M16 x 1.5	0.20 - 0.39 (5 – 10)	5	2410.110
M20 x 1.5	0.24 - 0.47 (6 – 12)	5	2410.120
M25 x 1.5	0.47 - 0.67 (12 – 17)	5	2410.130

Lock Nut

Size	PU	Part No.
M12 x 1.5	10	2410.200
M16 x 1.5	10	2410.210
M20 x 1.5	10	2410.220
M25 x 1.5	10	2410.230





Wall spacer bracket

Material:

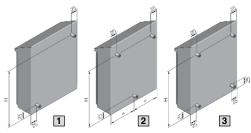
Stainless steel tube, 304

Supply includes:

Hardware and seals

Note:

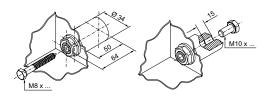
Depending on weight and dimensions, one to four (or more) wall spacer brackets can be used on the rear of an enclosure. These brackets can also be mounted on the sides, rear or underside. Wall spacer brackets can also be used in customized designs or with an adaptor plate for mounting other components and as wire-mesh cable trays.



1	Part No.	H inches (mm)
	1302.600/.500	13 (330)

Part No.	H inches (mm)
1306.600/.500	16 (410)
1320.600/.500	16 (410)
1307.600/.500	21 (525)
1308.600/.500	25 (625)
1310.600/.500	25 (625)

Wall distance inches (mm)	PU	Part No.
2 (50)	4	4000.100



Mounting methods Attachment from inside

Attachment from outside

Н

inches (mm)

40 (1010)

48 (1210)



2

3

Part No.

1316.600/.500

1317.600/.500

7/11 • US201

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Rittal Corporation

1 Rittal Place • Urbana Ohio 43078 • USA

Woodfield Corporate Center • 425 North Martingale Road, Suite 400 • Schaumburg Illinois 60173 • USA

Phone: 937-399-0500 • Fax: 800-477-4003 • Toll-free: 800-477-4000

Email: rittal@rittal.us • Online: www.rittal.us

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