



DATASHEET
Free-Standing
Racks
PREMIUM Server
RF1

CONTEG

PREMIUM SERVER RF1



RF1-42-80/12A

➤ The **PREMIUM Server RF1** is an unrivaled new rack from the Premium series designed for the most demanding conditions and applications. Its cornerstone is a highly rigid, laser-welded frame made of patented profile to ensure maximum rigidity and load capacity of up to 2000 kg. It features a new type of easy-to-mount extrusions with marked U positions and offers maximum variability of internal arrangement. Its doors with 86 % perforation can be opened up to a 190° angle. The RF1 rack is designed to function with any CONTEG cooling system, air flow system or flexible cable management system, as well as with many additional systems such as access control systems, PDUs or fire prevention systems.

MAIN ADVANTAGES

- Available in 27, 42, 47, 52U heights
- Load capacity—up to 2000 kg
- Suited for heavy IT equipment
- Rigid welded frame of patented design
- Maximum usable internal space of the rack
- Unmatched 86 % door perforation; single or double door
- Two types of vertical extrusions with marked U positions and depth off-set
- Additional 12/24U available for 800 mm wide racks when using type A vertical extrusions
- Easy to adjust from 19" to 21" or 23" for 800 mm wide racks when using type V vertical extrusions
- Tool-less door installation
- Wide range of accessories
- Easy removing of the rack from the pallet after transport

STANDARD COLOR:  RAL 9005  RAL 7035 OPTIONAL COLOR:  RAL 5010
 RAL 3020  RAL 6033  RAL 1018  RAL 2004

DESCRIPTION

Sizes

- Height: 27, 42, 47, 52U
- Width: 600, 800 mm
- Depth: 800, 1000, 1200 mm.
For detailed information see the technical data and dimensions table.

Construction

- Welded-frame design
- 1.5 & 2.0 mm zinc-plated and sheet steel

Load rating

- Up to 2000 kg balanced load

Vertical extrusions

- 2 pairs of sliding 19" vertical A-type (600 or 800 mm) extrusions (for 800 mm provide additional 24U of installation space—valid for racks 42U and higher), adjustable from inside
- Option for 800 mm wide racks: 2 pairs of variable sliding extrusions V-type with variable adjustment of width—19, 21, or 23", adjustable from inside, load rating 1500 kg.
- Painted in smooth black color

- Marking and number of every U position
- Marking and number of horizontal bars for depth off-set

IP rating

- Standard IP00
- IP20 when bottom plates installed
- IP40 when solid doors, bottom plate, and top covers applied
- Options: up to IP54 with multipoint lock only
- A/C-ready—IP54 when A/C unit installed with multipoint lock only

Colors

- Standard RAL 9005 and 7035

Front door

- Vented door—perforation rate 86 %
- Swivel handle lock—DIN profile, universal key 333, multipoint; optional combination lock or electronic locks, single or multipoint
- Door opening angle 190°
- Easy re-hanging to open on right or left
- Tool-less door installation

- Options: single or vertically divided door with perforation rate 86 %, glass or steel

Rear door

- Vented door—perforation rate 86 %
- Swivel handle lock—DIN profile, universal key 333, multipoint; optional combination lock or electronic locks, single or multipoint
- Easy re-hanging to open on right or left
- Tool-less
- Options: single or vertically divided door with perforation rate 86 %, glass or steel

Side panels

- Horizontally divided side panels
- Removable with locks
- Hanging simple installation
- Securing of side panels as an option—DP-DR-SSP-RF1

Top plate

- Single-piece design, removable
- Two lateral cable entries 88 mm wide covered by brushes and with length 600/800/1000 for

- racks 800/1000/1200 mm deep
- Opening for ventilation unit: ~ 420×280 mm ventilation opening(s) covered with removable blank sheet steel panel allow for installation of up to 6-fan ventilation unit (800 mm deep racks only)
- ~ 420×440 mm ventilation opening covered with removable blank sheet steel panel allow for installation of 9-fan ventilation unit (1000 and 1200 mm deep racks only)
- Other types upon request

Bottom plate

- Segmented design, removable
- Front segment included with depth 240 mm, rear segments as option

Feet

- Adjustable feet M12, plinth or plinth with filter optional

Other

- Easily installable in blocks—DP-DR-RF1
- GND/earthing kit included

PREMIUM Server RF1 Racks



STANDARD CONFIGURATION (short code only)		OPTIONS	
1	Front vented door 86 % with multipoint swivel handle lock	9	Adjustable feet M12
2	Rear vertically divided vented door 86 % with multipoint swivel handle lock	10	Plinth
3	2 pairs A-type 19" sliding extrusions	11	Plinth with filter
4	Horizontal extrusion holders	12	Glass door
5	2 pairs of horizontally divided side panels with locks	13	Sheet steel door
6	Rack frame	14	Vertically divided glass door ^{1,2}
7	Removable H-design of top plate with lateral cable entry openings and ventilation unit	15	Vertically divided vented door 86 % ²
8	Removable segmented bottom plate set (consists of front segment; may differ for different rack footprints)	16	Vertically divided sheet steel door ²
	• GND/earthing kit	29	Ventilation unit
	• 28 mounting kits		

¹Not available for 600 mm wide racks.

²Requires multipoint lock.

PREMIUM Server RF1 Racks—technical data and dimensions

Code	H (in U)	Load rating (kg)	Dimensions (mm)				Dimensions incl. packing (mm)		
			H *	W	D	Useful depth	H	W	D
RF1-27-60/8A	27	2000	1355	600	800	770	1510	660	900
RF1-42-60/8A	42	2000	2005	600	800	770	2160	660	900
RF1-47-60/8A	47	2000	2205	600	800	770	2360	660	900
RF1-52-60/8A	52	2000	2450	600	800	770	2605	660	900
RF1-27-60/10A	27	2000	1355	600	1000	970	1510	660	1100
RF1-42-60/10A	42	2000	2005	600	1000	970	2160	660	1100
RF1-47-60/10A	47	2000	2205	600	1000	970	2360	660	1100
RF1-52-60/10A	52	2000	2450	600	1000	970	2605	660	1100
RF1-27-60/12A	27	2000	1355	600	1200	1170	1510	660	1300
RF1-42-60/12A	42	2000	2005	600	1200	1170	2160	660	1300
RF1-47-60/12A	47	2000	2205	600	1200	1170	2360	660	1300
RF1-52-60/12A	52	2000	2450	600	1200	1170	2605	660	1300
RF1-27-80/8A	27	2000	1355	800	800	770	1510	860	900
RF1-42-80/8A	42	2000	2005	800	800	770	2160	860	900
RF1-47-80/8A	47	2000	2205	800	800	770	2360	860	900
RF1-52-80/8A	52	2000	2450	800	800	770	2605	860	900
RF1-27-80/10A	27	2000	1355	800	1000	970	1510	860	1100
RF1-42-80/10A	42	2000	2005	800	1000	970	2160	860	1100
RF1-47-80/10A	47	2000	2205	800	1000	970	2360	860	1100
RF1-52-80/10A	52	2000	2450	800	1000	970	2605	860	1100
RF1-27-80/12A	27	2000	1355	800	1200	1170	1510	860	1300
RF1-42-80/12A	42	2000	2005	800	1200	1170	2160	860	1300
RF1-47-80/12A	47	2000	2205	800	1200	1170	2360	860	1300
RF1-52-80/12A	52	2000	2450	800	1200	1170	2605	860	1300

* Height in mm without feet.

PREMIUM Server RF1 Racks



RAL 9005

RAL 2004

RAL 6033



A-type 19" sliding extrusion with marking

PREMIUM Server RF1 Racks



RAL 7035



RF1-42-80/12A in RAL 7035 color, with opened front vented door (86 % door perforation ratio) with multipoint swivel handle lock.



3× RF1-42-80/12A in RAL 7035 color, with CoolTop cooling unit on the top.

PREMIUM Server RF1 Racks—ordering and shipping information

Configure the rack that meets your requirements. The ordering matrix below will help you create a Code. As soon as you have the Code, please contact your CONTEG products distributor. Please note that **all RF1 racks are delivered fully assembled** and palletized!

FOLLOW THE STEPS TO SET UP THE DESIRED RF1 RACK CODE

R F 1 - 1. - 2. / 3. 4. - 5. 6. 7. 8. 9. - 10. 11. 12. - 13.

An example of a correct Code:

R F 1 - 47 - 80 / 12 A - W W F W A - O H K - H

1. HEIGHT			2. WIDTH		3. DEPTH			4. EXTRUSION	
Code	Height (in U)	External height (mm)	Code	Width (mm)	Code	Depth (mm)	Useful depth (mm)	Code	Note
27	27	1355	60	600	8	800 ¹	770	A	A-type extrusions, non-divided (600 or 800 mm wide) extrusions (for 800 mm provide additional 24U of installation space—valid for racks 42U and higher) adjustable from inside, blank panels not included
42	42	2005	80	800	10	1000	970	V	V-type with variable adjustment of width—19, 21, or 23", for racks 800 mm wide only, adjustable from inside, load rating 1500 kg.
47	47	2205			12	1200	1170		
52	52	2450							

¹Not available for 52U.

5. FRONT DOOR		6. FRONT DOOR LOCK		7. REAR DOOR/PANEL		8. REAR DOOR/PANEL LOCK	
Code	Note	Code	Note	Code	Note	Code	Options
O	Without door	V	Swivel handle, DIN profile, universal key 333	O	Without panel/door	V	Swivel handle, DIN profile, universal key 333
G	Glass door	W	Swivel handle, DIN profile, universal key 333, multipoint	G	Glass door	W	Swivel handle, DIN profile, universal key 333, multipoint
S	Sheet steel door	G	Swivel handle with combination lock, individual key	S	Sheet steel door	G	Swivel handle with combination lock, individual key
W	Vented door (perforation rate 86%) ¹	H	Swivel handle with combination lock, individual key, multipoint	W	Vented door (perforation rate 86%) ¹	H	Swivel handle with combination lock, individual key, multipoint
A	Vertically divided glass door ^{2*}	1	Electronic door lock with profile half cylinder, cable 4 m	A	Vertically divided glass door ^{2*}	1	Electronic door lock with profile half cylinder, cable 4 m
C	Vertically divided sheet steel door ²	2	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included	C	Vertically divided sheet steel door ²	2	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included
F	Vertically divided vented door (perforation rate 86%) ^{1,2}	3	Electronic door lock with profile half cylinder, cable 4 m, multipoint	F	Vertically divided vented door (perforation rate 86%) ^{1,2}	3	Electronic door lock with profile half cylinder, cable 4 m, multipoint
Other		4	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included, multipoint	Other		4	Electronic door lock with profile half cylinder and built-in card reader (EM&HID Prox format 125 kHz), 4.5 m cables included, multipoint
		Other				Other	

¹IP 20 max.
²Multipoint lock only.
* Options apply for RF1 800 only.

9. SIDE PANELS (BOTH SIDES) *		10. IP RATING ¹		11. PLATES ¹			
Code	Note	Code	Note	Code	Top plate	Bottom plate	Note
O	No side panels	O	IP 00	A	P	X	Top and bottom single piece plates required for IP54
A	2 pairs of horizontally divided side panels, sheet steel, universal key	2	IP 20	C	no top	X	Open top—for A/C-ready option
B	1 pair of horizontally divided side panels, sheet steel, universal key	3	IP 30	H	H	no bottom ²	Standard bottom—ready for installation on raised floor or plinth
		4	IP 40	X	no top ²	no bottom ²	Open top and bottom, for individual plates ask your CONTEG representative
		5	IP 54 ³				
		A	A/C ready ^{2,3}				

* Open side/sides results in no IP protection.
¹ See page 21 for more information.
² Open top or bottom results in no IP protection, unless otherwise stated.
³ Multipoint lock only.

12. LOAD RATING			13. COLOR	
Code	Load rate (kg)	Note	Code	Note
F	1500	Balanced load	B	RAL 7035 (light gray)
K	2000		H	RAL 9005 (black)

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