

Conteg, spol. s r. o. specializes in development and production of equipment for telecommunications and data distribution. Our company is focused on solving the needs of its customers, and this is reflected in the dynamic growth of Conteg since its formation in 1998.

Feedback from our distribution partners in more than 40 countries indicates that the quality and evolution of Conteg's solutions is highly valued. Conteg closely follows the latest trends in the industry and our flexibility can meet the non-standard demands and requirements of our customers.

The secret of our success lies in the strict standards the company adheres to. Conteg's strong design group, uncompromising attitude to quality control, and the consistent high grade materials used on every product allow us to deliver highest possible quality. Our constant investment into state of the art technologies and highly trained staff ensure our products superiority as well as individual customer focus. Conteg's distribution partners have to meet high standards in expertise and demonstrate a strong background in logistics.

This catalog displays our traditional product portfolio as well as our new product lines. By going through the pages, you will feel our strong commitment to the constant process of research and development.

Conteg products are here for you!

The Company Conteg has TÜV certificates for its products.
Warranty on Conteg products is 24 months.





...to complete your network

...free standing racks



19" DISTRIBUTION RACKS ROF SERIES

::ROF



Distribution telecommunication and data racks are designed for installing patch panels, active components, servers, etc.

Description:

- Produced in sizes 15-48U
- Width 600 or 800mm
- Depth 600, 800, 1000, 1100 or 1200mm
- Frame construction; 1.5mm, 2mm sheet steel
- Color powder coated RAL (standard RAL 7035, 9005)



See page 69 - Vertical wire management

- Door with swivel handle lock (single or multipoint); optionally cylinder or combination lock, other locks on request »
- Wide variety of doors: tinted security glass door (as standard front door); optionally steel, perforated steel, vented (perforation rate 71 and 83%), vertically divided doors etc.
- Rear panel with module for cable entry as standard; optionally can be replaced by full range of doors (see front door options) »
- Reversible door - easy re-hanging to open on right or left (at installation site)
- Door opening angle 180°
- Removable side panels with lock; easy access to installed devices, security, and fast installation and dismantling
- Top, bottom, and rear openings for cable entry (300x100mm) covered with removable blank panels; racks 800mm wide have two additional covered cable entry openings (300x100mm) in both, top and bottom frames
- Top and bottom openings for ventilation units covered with removable blank panels
- Top frame perforated for effective ventilation
- Ventilation unit can be installed in top or bottom frame



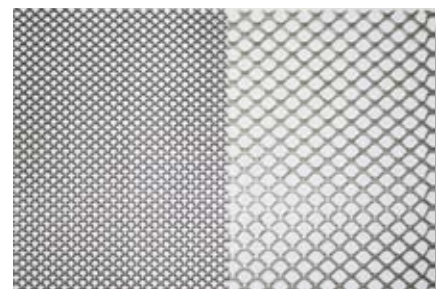
See page 74 - Ventilation units

- Four sliding 19" vertical extrusions
- Possibility to adapt 800mm wide racks for installation of 21" equipment (on request)
- Adaptor DP-RE-01 used for modification of 19" accessories for 21" mounting
- Adjustable feet as standard; castors, lockable castors, plinth, or plinth with filter optionally



See page 84 - Plinths

- GND/earthing kit »
- Load rating max. 400kg balanced load; optionally 600kg (special extrusions and holders, strengthening elements used); racks of depth 1100 and 1200mm balanced load 900kg as standard
- Stabilizing frames for 600kg load rating available for sizes 27-48U (one for height 27-36U, two for height 42-48U)
- Standard protection rating IP30; optionally IP54, IP20 when perforated doors used
- Racks can be installed in blocks



See page 78 - Connecting kit

- Compatible with side, wall, and rear mount cooling (please use RDF racks for top mount cooling)

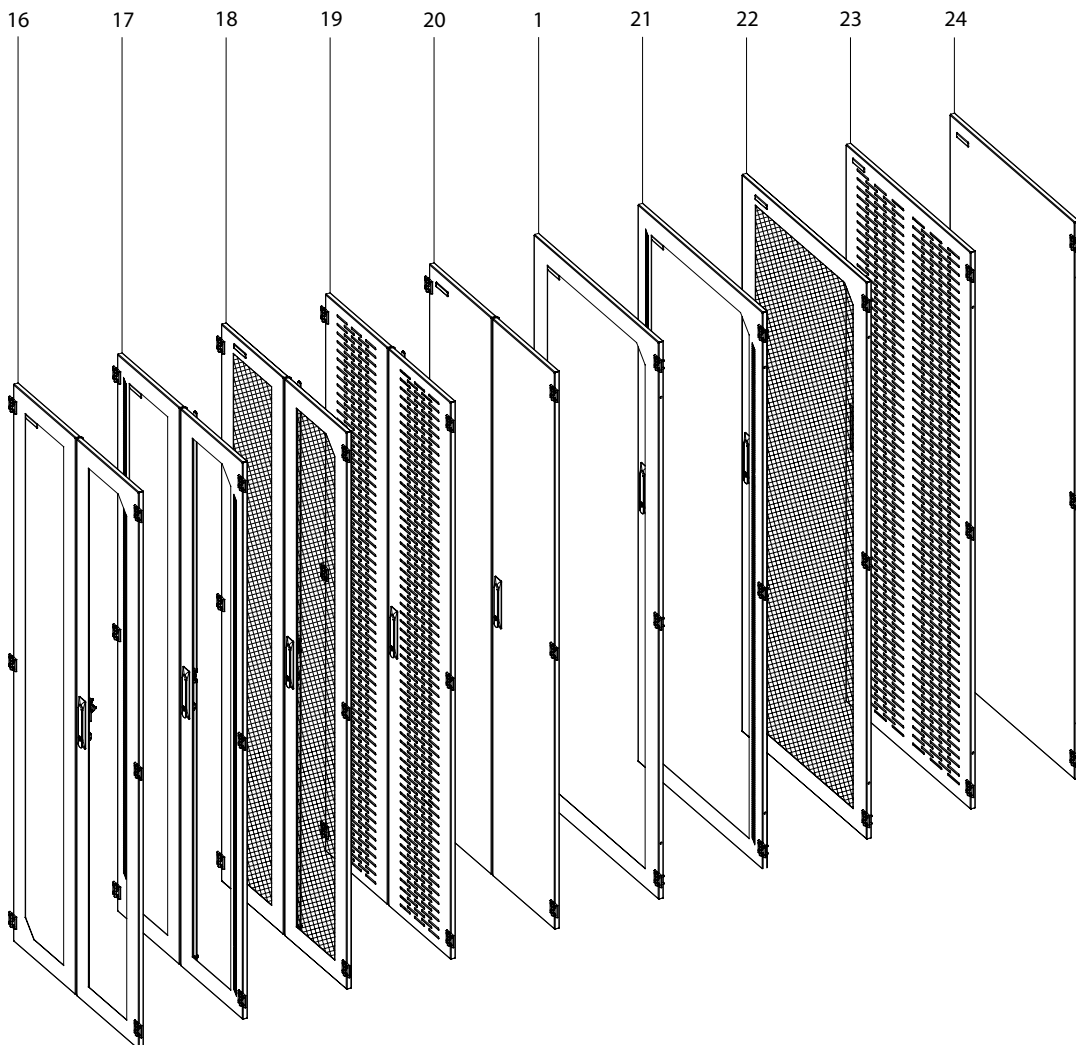
See page 103 - Targeted Cooling

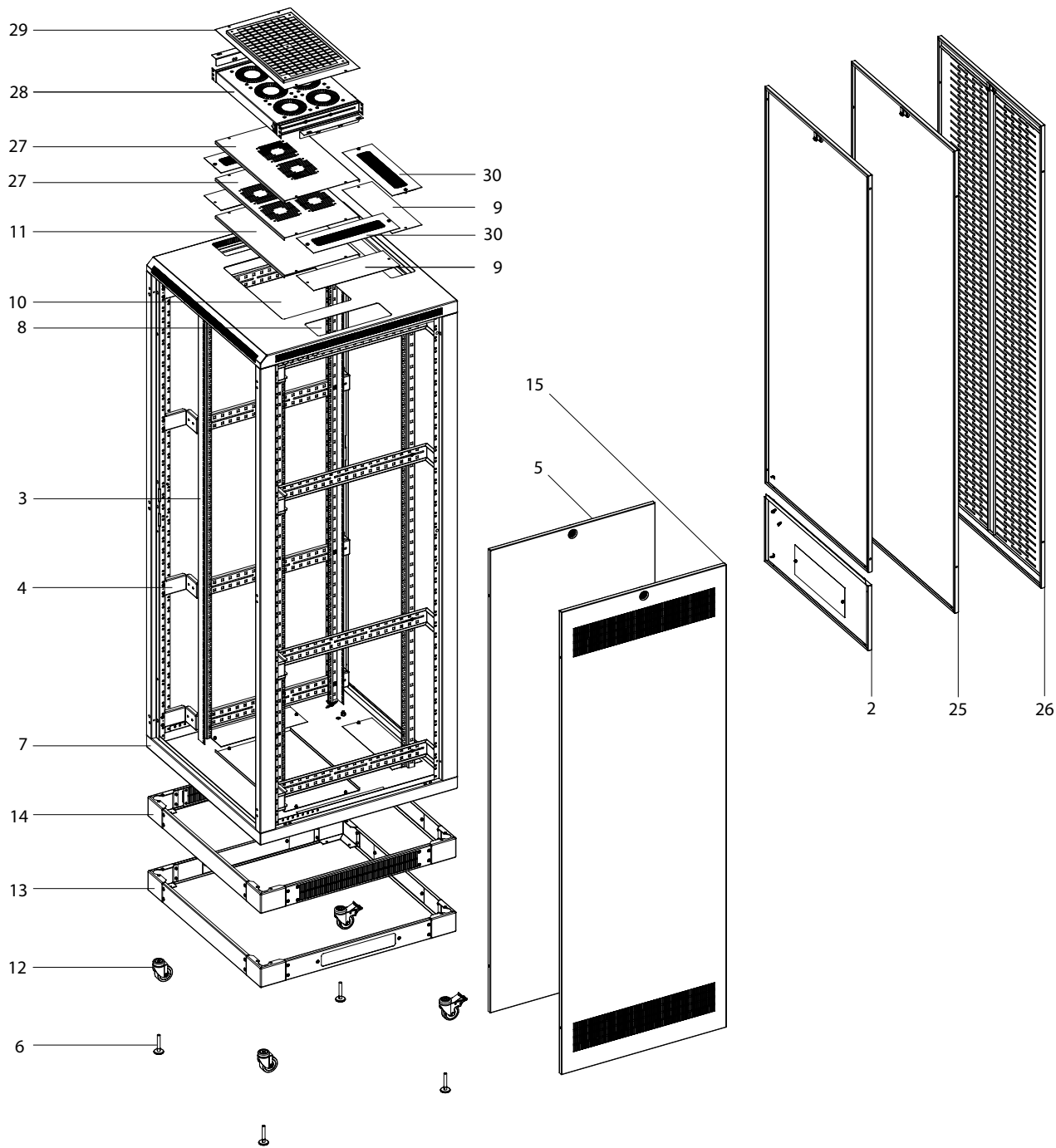
Standard equipment:

- 2 pairs of 19" sliding vertical extrusions
- 1 pair of side panels with lock
- Tinted security glass front door (EN 12150-1) with swivel handle lock
- 4 adjustable feet
- Rear panel with module for cable entry
- GND/earthing kit
- 28 mounting kits

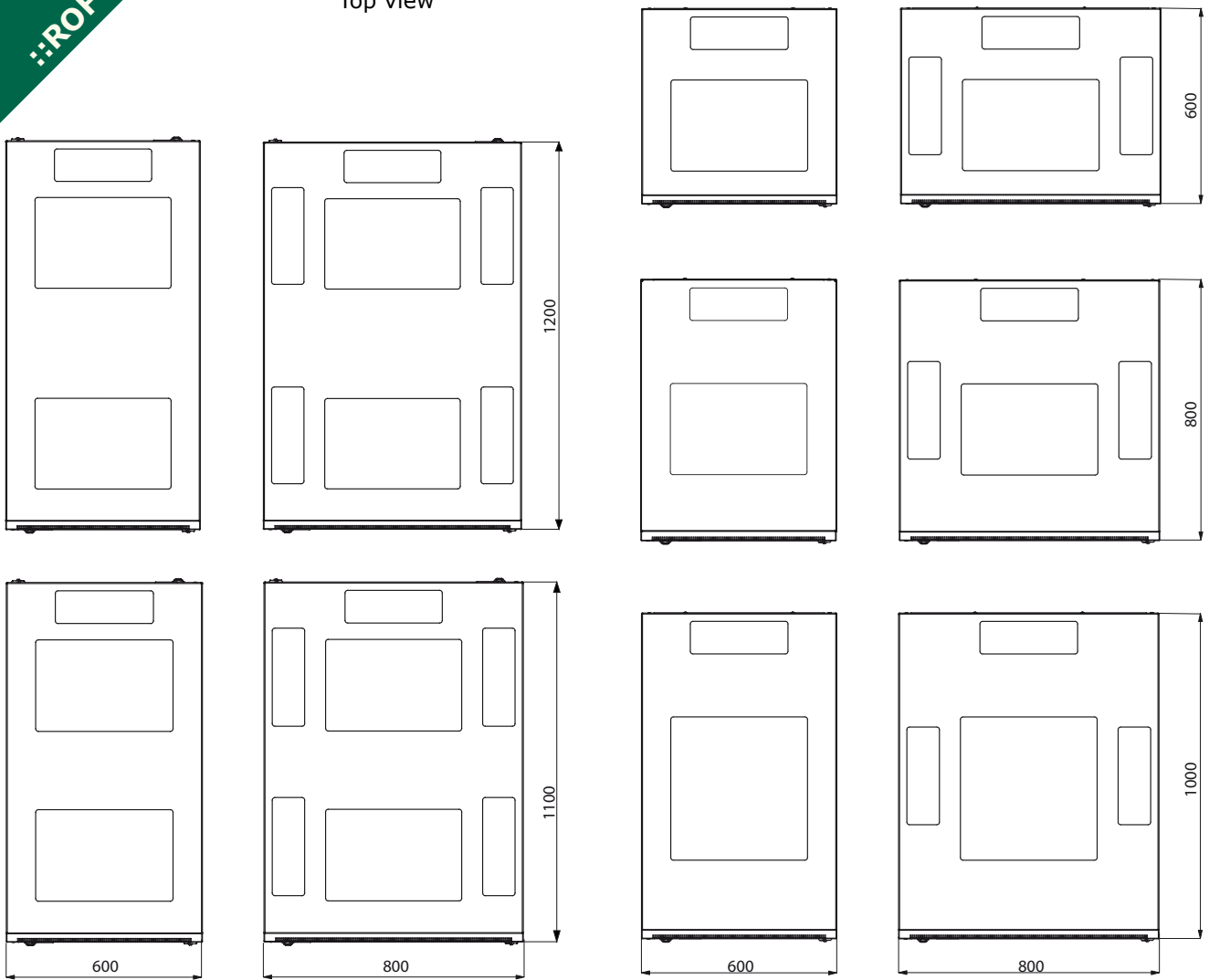
STANDARD EQUIPMENT		OPTIONAL EQUIPMENT (EXAMPLES)	
1	Glass door	12	Castors – see page 89
2	Rear panel with module (can be replaced by any door)	13	Plinth – see page 84
3	4 pcs of 19" sliding extrusions	14	Plinth with filter – see page 84
4	Holders of vertical extrusions	15	1 pair of side panels with perforation
5	1 pair of side panels	16	Vertically divided glass door *
6	Adjustable feet	17	Vertically divided glass door with perforation *
7	Frame of rack	18	Vertically divided vented door *
8	Top and bottom cable entry openings	19	Vertically divided perforated sheet steel door *
9	Blank panels for cable entry openings	20	Vertically divided sheet steel door *
10	Top and bottom openings for ventilation unit	21	Glass door with side perforation
11	Blank panels for openings for ventilation unit	22	Vented door
		23	Perforated sheet steel door
		24	Sheet steel door
		25	Rear panel - 1 piece
		26	Rear panel - perforated
		27	Perforated gland plate – see page 77
		28	Ventilation unit – see page 86
		29	Connecting kit with filter for ventilation unit – see page 75
		30	Dust-proof panels with brush for cable entry openings – see page 86

* Racks 800mm wide only





Top view



EXTRA-DEEP OPTION

Description:

- Height 42U
- Width 600 or 800mm
- Depth 1100 or 1200mm
- Stronger frame with load rating max. 900kg balanced load
- Sides covered by split side panels
- Rack chassis fully compatible with other ROF racks

See page 10 - ROF racks codes



ORDERING MATRIX

ROF

A	B	C		D		E		F	-	J	K	L	M	N		G	H	I	-	P
R	O	F	-	15	-	60	/	60	-	G	A	S	A	A	-	3	O	4	-	B

Code structure has changed: position G - IP rating, position H - Plates

A	Rack type, ie. frame specification	I	Load capacity
B	Rack type, ie. frame specification	J	Front door
C	Rack type, ie. frame specification	K	Front door lock
D	Rack height in U, ie. 15, ...	L	Rear panel/door
E	Rack width in cm - ie. 60,80	M	Rear panel/door lock
F	Rack depth in cm - ie. 60, 80, 100, 110, 120	N	Side panels (both sides)
G	IP rating **	P	Color
H	Plates		

K,M	A	Standard swivel handle, universal key
	B	Standard swivel handle, universal key, multipoint
	C	Standard swivel handle, keyed different
	D	Standard swivel handle, keyed different, multipoint
	E	Swivel handle with combination lock and universal key
	F	Swivel handle with combination lock and universal key, multipoint
	G	Swivel handle with combination lock, keyed different
	H	Swivel handle with combination lock, keyed different, multipoint
	I	Swivel handle with profile half cylinder, universal key
	J	Swivel handle with profile half cylinder, universal key, multipoint
	K	Swivel handle with profile half cylinder, keyed different
	L	Swivel handle with profile half cylinder, keyed different, multipoint
	U	Lock for rear panel, universal key
	X	Lock for rear panel, keyed different
	Other	

L	0	Without panel/door
	G	Glass door
	S	Sheet steel door
	P	Perforated sheet steel door
	T	Glass door with perforation
	V	Vented door (perforation rate 71%)
	W	Vented door (perforation rate 83%)
	A	Vertically divided glass door *
	B	Vertically divided glass door with side perforation *
	C	Vertically divided sheet steel door *
	D	Vertically divided perforated sheet steel door *
	E	Vertically divided vented door (perforation rate 71%) *
	F	Vertically divided vented door (perforation rate 83%) *
	Y	Rear panel - single piece
	R	Rear panel - divided, with cable entry
	Z	Perforated rear panel - single piece
	Other	

J	0	Without door
	G	Glass door
	S	Sheet steel door
	P	Perforated sheet steel door
	T	Glass door with perforation
	V	Vented door (perforation rate 71%)
	W	Vented door (perforation rate 83%)
	A	Vertically divided glass door *
	B	Vertically divided glass door with perforation *
	C	Vertically divided sheet steel door *
	D	Vertically divided perforated sheet steel door *
	E	Vertically divided vented door (perforation rate 71%) *
	F	Vertically divided vented door (perforation rate 83%) *
		Other

N	0	No side panels
	A	2 side panels, sheet steel, universal key
	B	1 side panel, sheet steel, universal key
	C	2 side panels, sheet steel, keyed different
	D	1 side panel, sheet steel, keyed different
	E	2 side panels, sheet steel with perforation, universal key
	F	1 side panel, sheet steel with perforation, universal key
	G	2 side panels, sheet steel with perforation, keyed different
	H	1 side panel, sheet steel with perforation, keyed different
		Other

P	B	RAL 7035
	H	RAL 9005 fine structure

G	0	IP00
	2	IP20
	3	IP30
	5	IP54

I	4	400kg
	6	600kg
	9	900kg

H	0	Top & bottom plates - Integral
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* Racks 800mm wide only

** According to EN 60529

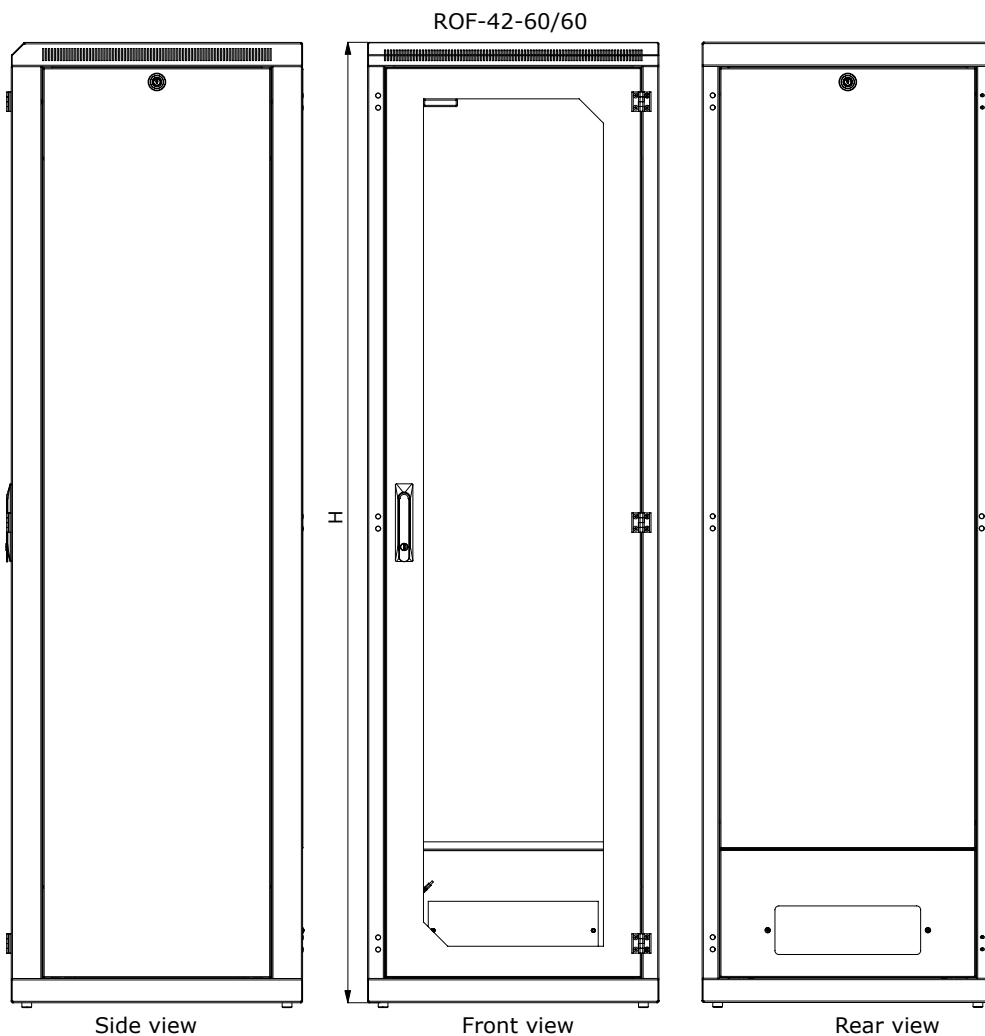
All types of vented and vertically divided doors require multi-point lock.
ROF racks compatible with side, wall, and rear mount cooling.
Please use RDF racks for top mount cooling (see page 103 - Targeted Cooling).

Code	H in Units	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg	
		H	W	D	Useful depth	H	W	D	Standard	High-load
ROF-15-60/60	15	788	600	600	590	960	640	640	50	-
ROF-18-60/60	18	921	600	600	590	1090	640	640	54	-
ROF-21-60/60	21	1055	600	600	590	1230	640	640	59	-
ROF-24-60/60	24	1188	600	600	590	1360	640	640	64	-
ROF-27-60/60	27	1321	600	600	590	1500	640	640	69	72
ROF-33-60/60	33	1588	600	600	590	1760	640	640	78	79
ROF-36-60/60	36	1721	600	600	590	1890	640	640	83	84
ROF-42-60/60	42	1988	600	600	590	2160	640	640	93	95
ROF-45-60/60	45	2121	600	600	590	2290	640	640	98	100
ROF-48-60/60	48	2255	600	600	590	2430	640	640	103	105
ROF-15-60/80	15	788	600	800	790	960	640	840	59	-
ROF-18-60/80	18	921	600	800	790	1090	640	840	64	-
ROF-21-60/80	21	1055	600	800	790	1230	640	840	69	-
ROF-24-60/80	24	1188	600	800	790	1360	640	840	74	-
ROF-27-60/80	27	1321	600	800	790	1500	640	840	80	85
ROF-33-60/80	33	1588	600	800	790	1760	640	840	91	96
ROF-36-60/80	36	1721	600	800	790	1890	640	840	98	99
ROF-42-60/80	42	1988	600	800	790	2160	640	840	107	109
ROF-45-60/80	45	2121	600	800	790	2290	640	840	114	116
ROF-48-60/80	48	2255	600	800	790	2430	640	840	118	120
ROF-15-60/100	15	788	600	1000	990	960	640	1040	72	-
ROF-18-60/100	18	921	600	1000	990	1090	640	1040	79	-
ROF-21-60/100	21	1055	600	1000	990	1230	640	1040	86	-
ROF-24-60/100	24	1188	600	1000	990	1360	640	1040	95	-
ROF-27-60/100	27	1321	600	1000	990	1500	640	1040	104	108
ROF-33-60/100	33	1588	600	1000	990	1760	640	1040	114	117
ROF-36-60/100	36	1721	600	1000	990	1890	640	1040	117	118
ROF-42-60/100	42	1988	600	1000	990	2160	640	1040	130	132
ROF-45-60/100	45	2121	600	1000	990	2290	640	1040	137	139
ROF-48-60/100	48	2255	600	1000	990	2430	640	1040	143	145
ROF-42-60/110	42	1988	600	1100	1090	2160	640	1210	137	-
ROF-42-60/120	42	1988	600	1200	1190	2160	640	1310	144	-
ROF-15-80/60	15	788	800	600	990	960	840	640	65	-
ROF-18-80/60	18	921	800	600	590	1090	840	640	70	-
ROF-21-80/60	21	1055	800	600	590	1230	840	640	75	-
ROF-24-80/60	24	1188	800	600	590	1360	840	640	80	-
ROF-27-80/60	27	1321	800	600	590	1500	840	640	86	101
ROF-33-80/60	33	1588	800	600	590	1760	840	640	98	116
ROF-36-80/60	36	1721	800	600	590	1890	840	640	107	130
ROF-42-80/60	42	1988	800	600	590	2160	840	640	115	139
ROF-45-80/60	45	2121	800	600	590	2290	840	640	123	149
ROF-48-80/60	48	2255	800	600	590	2430	840	640	131	158
ROF-15-80/80	15	788	800	800	790	960	840	840	70	-
ROF-18-80/80	18	921	800	800	790	1090	840	840	78	-
ROF-21-80/80	21	1055	800	800	790	1230	840	840	86	-
ROF-24-80/80	24	1188	800	800	790	1360	840	840	90	-
ROF-27-80/80	27	1321	800	800	790	1500	840	840	95	110
ROF-33-80/80	33	1588	800	800	790	1760	840	840	108	126

* Height in mm without feet; for feet add 16-45mm

Code	H in Units	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg	
		H	W	D	Useful depth	H	W	D	Standard	High-load
ROF-36-80/80	36	1721	800	800	790	1890	840	840	117	140
ROF-42-80/80	42	1988	800	800	790	2160	840	840	129	153
ROF-45-80/80	45	2121	800	800	790	2290	840	840	136	161
ROF-48-80/80	48	2255	800	800	790	2430	840	840	142	169
ROF-15-80/100	15	788	800	1000	990	960	840	1040	84	-
ROF-18-80/100	18	921	800	1000	990	1090	840	1040	90	-
ROF-21-80/100	21	1055	800	1000	990	1230	840	1040	96	-
ROF-24-80/100	24	1188	800	1000	990	1360	840	1040	102	-
ROF-27-80/100	27	1321	800	1000	990	1500	840	1040	119	134
ROF-33-80/100	33	1588	800	1000	990	1760	840	1040	136	154
ROF-36-80/100	36	1721	800	1000	990	1890	840	1040	144	166
ROF-42-80/100	42	1988	800	1000	990	2160	840	1040	152	176
ROF-45-80/100	45	2121	800	1000	990	2290	840	1040	160	186
ROF-48-80/100	48	2255	800	1000	990	2430	840	1040	168	195
ROF-42-80/110	42	1988	800	1100	1090	2160	840	1210	161	-
ROF-42-80/120	42	1988	800	1200	1190	2160	840	1310	170	-

* Height in mm without feet; for feet add 16-45mm



19" DISTRIBUTION RACKS RSL SERIES

::RSL



Distribution telecommunication and data racks are designed for installing patch panels, active components, servers, etc.

Description:

- Produced in sizes 21, 27, 42, and 45U
- Width 600 or 800mm
- Depth 600 or 800mm
- Frame construction; 1.5mm, 2mm sheet steel
- Color powder coated RAL (standard RAL 7035, 9005)

See page 69 - Vertical wire management

- Door with swivel handle lock; optionally cylinder lock
- Security glass front door; optionally sheet steel door
- Removable rear panel with lock; optionally rear door (security glass or sheet steel)
- Reversible door – re-hanging to open on right or left (at installation site)
- Door opening angle over 180°
- Removable side panels with lock and perforation for effective ventilation; easy access to installed devices, security, and fast installation and dismantling
- Top plate with knock-out openings for cable entry (300x100mm) and ventilation unit; openings can be optionally covered with blank panels DP-BP-120x350 or DP-BP-480x305
- Racks width 800mm have two additional knock-out openings for cable entry (300x100mm)
- Bottom part of the rack open; optionally bottom plate with knock-out openings for cable entry and ventilation unit similar to the top (RSL-O-TB-xx/yy)

See page 74 - Ventilation units

- One pair of 19" vertical extrusions
- In racks width 800mm vertical extrusions can be set by user to 19" or 21" or 23"; the pair of extrusions can be moved left or right inside the rack delivering extensive space for cable management on side »
- Depth setting of vertical extrusions possible
- Another pair of vertical extrusions optionally
- ETSI standard vertical extrusions optionally
- Adjustable feet as standard; castors, lockable castors, plinth or plinth with filter available optionally

See page 84 - Plinths

- Load rating max. 400kg balanced load
- GND/earthing kit available optionally (RSL-O-EK)
- IP30 protection rating optionally (when bottom plate used)
- Racks can be installed in blocks

See page 78 – Connecting kit

- Compatible with side mount cooling

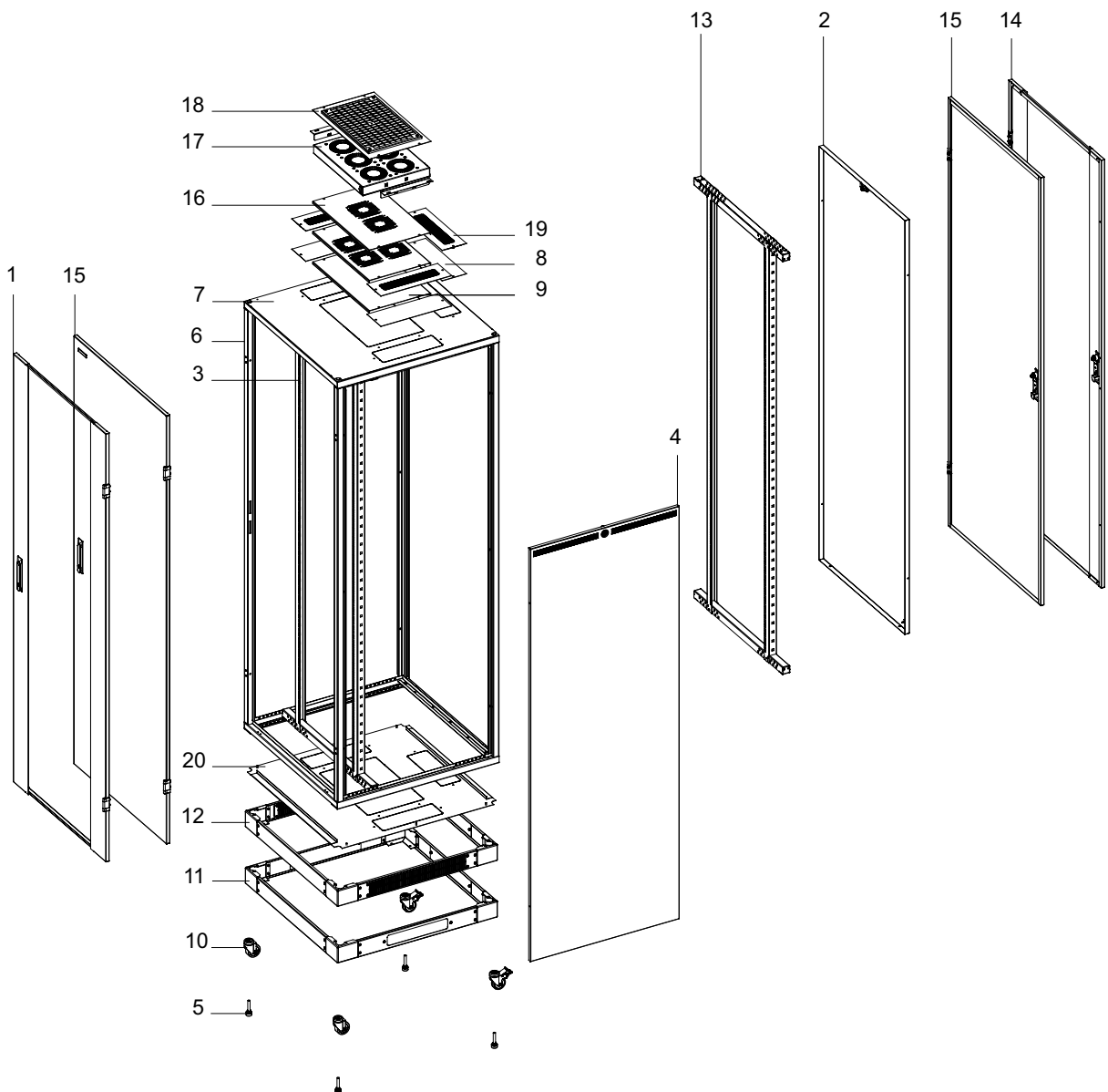
See page 103 – Targeted Cooling

Standard equipment:

- 1 pair of 19" vertical extrusions, adjustable position
- 1 pair of side panels with lock and perforation
- Security glass front door (EN 12150-1) with swivel handle lock
- 4 adjustable feet
- Removable rear panel with lock



STANDARD EQUIPMENT		OPTIONAL EQUIPMENT	
1	Glass door	8	Blank panels for cable entry openings
2	Rear panel	9	Blank panel for opening for ventilation unit
3	1 pair of 19" sliding extrusions	10	Castors – see page 89
4	1 pair of side panels with perforation	11	Plinth – see page 84
5	Adjustable feet	12	Plinth with filter – see page 84
6	Frame of rack	13	Second pair of sliding extrusions
7	Top plate with knock-out openings	14	Rear glass door
		15	Sheet steel door
		16	Perforated gland plate – see page 77
		17	Ventilation unit – see page 74
		18	Connecting kit with filter for ventilation unit – see page 75
		19	Dust-proof panels with brush for cable entry openings – see page 86
		20	Bottom plate with knock-out openings for cable entry and ventilation unit



ORDERING MATRIX

∴RSL

A	B	C		D		E		F	-	J	K	L	M	N		G	H	I	-	P
R	S	L	-	42	-	60	/	60	-	G	A	S	A	E	-	3	A	A	-	B

A	Rack type, ie. frame specification	I	Vertical extrusions
B	Rack type, ie. frame specification	J	Front door
C	Rack type, ie. frame specification	K	Front door lock
D	Rack height in U, ie. 15, ...	L	Rear panel/door
E	Rack width in cm - ie. 60,80	M	Rear panel/door lock
F	Rack depth in cm - ie. 60, 80	N	Side panels (both sides)
G	IP rating *	P	Color
H	Plates		

I	A	1 pair of 19" extrusions
	B	2 pairs of 19" extrusions
	C	1 pair of the ETSI 300 119 standard extrusions
	D	2 pairs of the ETSI 300 119 standard extrusions

L	0	Without panel/door
	G	Glass door
	S	Sheet steel door
	Y	Rear panel - single piece

J	0	Without door
	G	Glass door
	S	Sheet steel door

N	0	No side panels
	E	2 side panels, sheet steel with perforation, universal key
	F	1 side panel, sheet steel with perforation, universal key
	G	2 side panels, sheet steel with perforation, keyed different
H	1 side panel, sheet steel with perforation, keyed different	

K,M	A	Standard swivel handle, universal key
	C	Standard swivel handle, keyed different
	E	Swivel handle with combination lock and universal key
	G	Swivel handle with combination lock, keyed different
	I	Swivel handle with profile half cylinder, universal key
	K	Swivel handle with profile half cylinder, keyed different
	U	Lock for rear panel, universal key
	X	Lock for rear panel, keyed different

P	B	RAL 7035
	H	RAL 9005 fine structure

* According to EN 60529

G	0	IP00
	3	IP30

H	A	Top & bottom plates
	B	Top plate only (open bottom)

RSL racks compatible with side mount cooling (see page 103 – Targeted Cooling).

Code	H in Units	Dimensions in mm				Dimensions including packing			Gross weight in kg
		H*	W	D	Useful depth**	H	W	D	
RSL-21-60/60	21	1052	600	620	610	1230	640	660	48
RSL-27-60/60	27	1319	600	620	610	1500	640	660	65
RSL-42-60/60	42	1986	600	620	610	2160	640	660	80
RSL-45-60/60	45	2119	600	620	610	2290	640	660	85
RSL-21-60/80	21	1052	600	820	810	1230	640	860	57
RSL-27-60/80	27	1319	600	820	810	1500	640	860	74
RSL-42-60/80	42	1986	600	820	810	2160	640	860	89
RSL-45-60/80	45	2119	600	820	810	2290	640	860	96
RSL-21-80/60	21	1052	800	620	610	1230	840	660	56
RSL-27-80/60	27	1319	800	620	610	1500	840	660	73
RSL-42-80/60	42	1986	800	620	610	2160	840	660	88
RSL-45-80/60	45	2119	800	620	610	2290	840	660	95
RSL-21-80/80	21	1052	800	820	810	1230	840	860	56
RSL-27-80/80	27	1319	800	820	810	1500	840	860	75
RSL-42-80/80	42	1986	800	820	810	2160	840	860	98
RSL-45-80/80	45	2119	800	820	810	2290	840	860	105

* Height in mm without feet; for feet add 16-45mm

** Applicable for execution with one door

::REV



Distribution telecommunication and data racks are designed for installing patch panels, active components, servers, etc.

Description:

- Produced in sizes 21-45U
- Width x depth (mm): 600x600, 600x800, and 800x800

See page 62 - Vertical wire management

- Delivered unassembled in 4 packages (assembled optionally)
- Easy and quick assembly
- Construction from 2mm sheet steel, connected by 24 screws M6x12
- 19" vertical extrusions are integrated into four columns, three positions of setting depth »
- Load rating max. 250kg balanced load
- Color powder coated RAL 7035 or RAL 9005
- Front door with two point swivel handle lock and tinted security glass (EN 12150-1); sheet steel front door optionally »
- Side doors with pivotal hinges operated from inside; possibility of opening or removing »
- Rear sheet steel door with two quarter-cylinder locks (top and bottom) »
- Removable and reversible doors – easy re-hanging to open on right or left
- Vertical perforation on front door for more effective ventilation
- Door opening angle 135°
- Top and bottom knock-out openings prepared for cable entry (300x100mm) and ventilation unit (420x280mm) »
- Openings can be optionally covered with blank panels DP-BP-120x350 or DP-BP-480x305
- Option of GND/earthing kit REV-O-EK (not included) »
- Top cover and front door perforated for effective ventilation
- Ventilation unit can be installed in top or bottom covers

See page 74 - Ventilation units

- Adjustable feet as standard; castors, lockable castors, plinth, or plinth with filter optionally

See page 84 - Plinths

- Protection rating IP30
- Racks can be installed in blocks using connecting kit REV-O-CF (not included)

See page 79 - Connecting frame

- Compatible with side mount cooling

See page 103 – Targeted Cooling

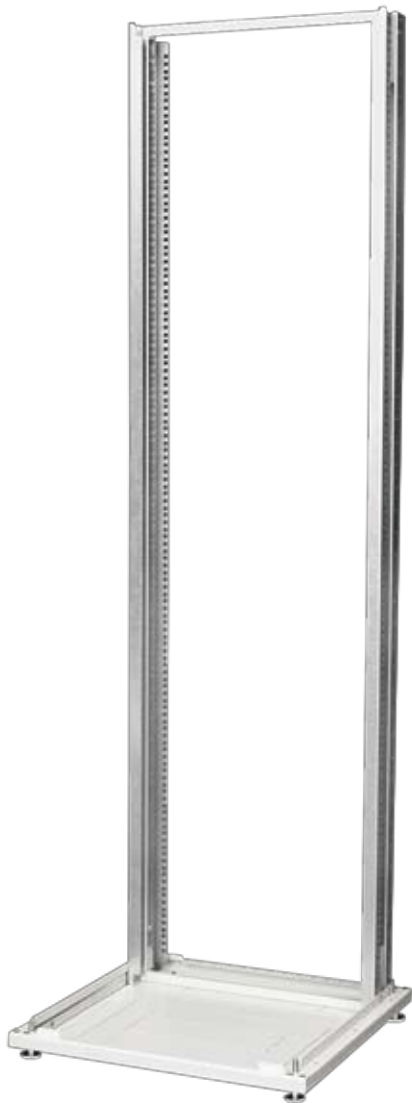
Standard equipment:

- Bottom cover
- Top cover
- 2 side doors
- Tinted security glass front door (EN 12150-1) with two point lock
- Rear door
- 4 columns (19" extrusion)
- 2 stabilization frames
- 24 screws M6x12 for rack assembly
- 4 adjustable feet



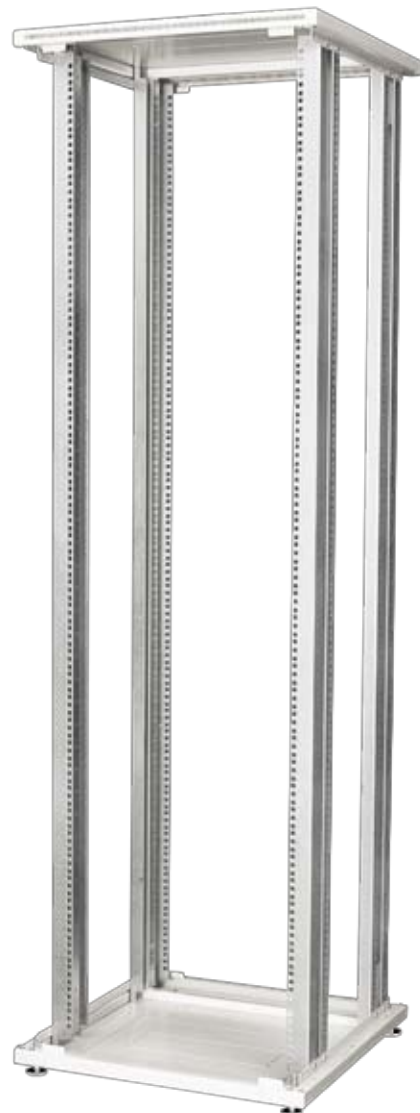


Packing of unassembled rack



Bottom cover connected with a pair of columns with stabilization frame

Top and bottom covers connected with 2 pairs of columns with integrated 19" extrusions





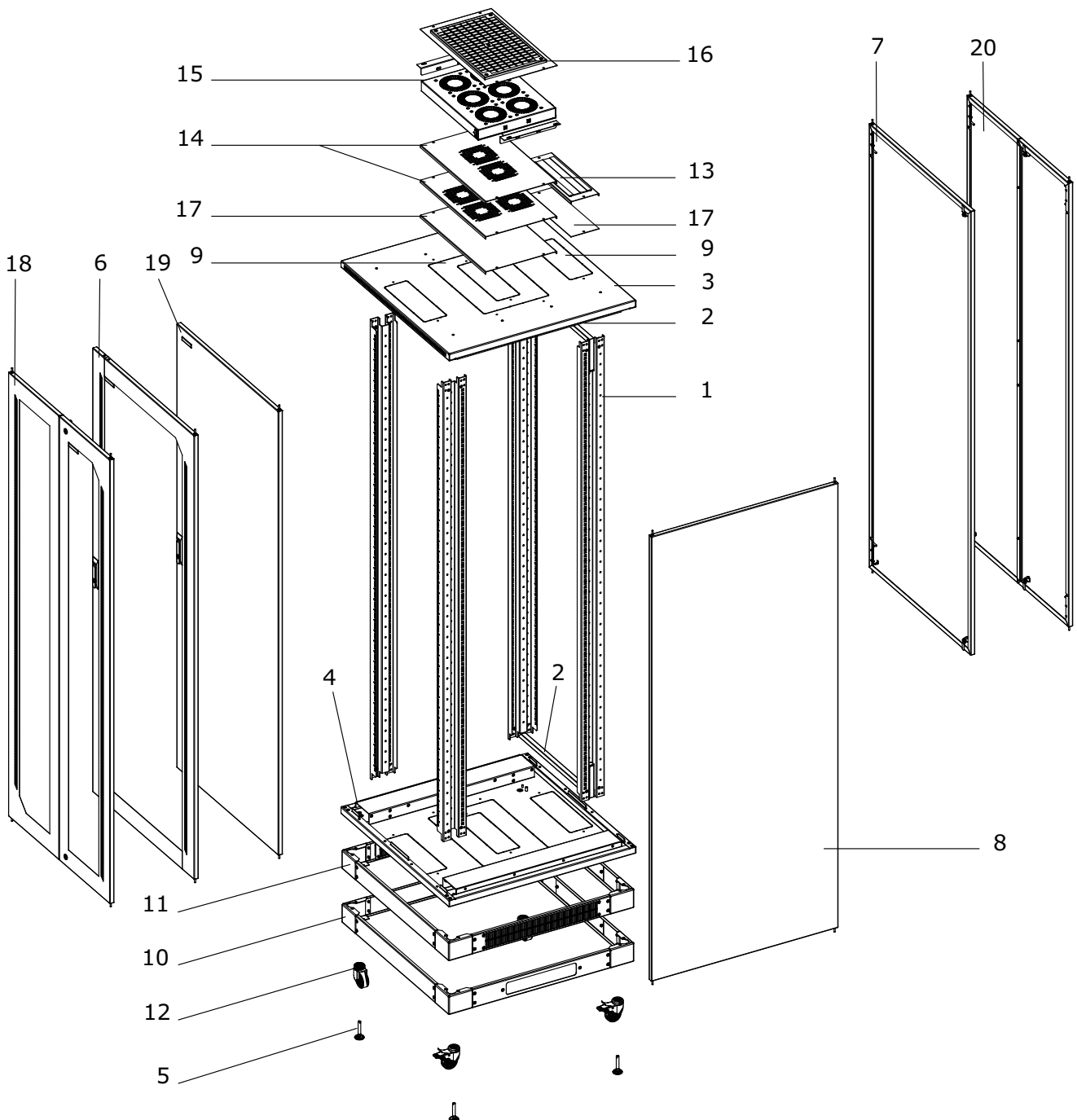
Front and rear doors installed

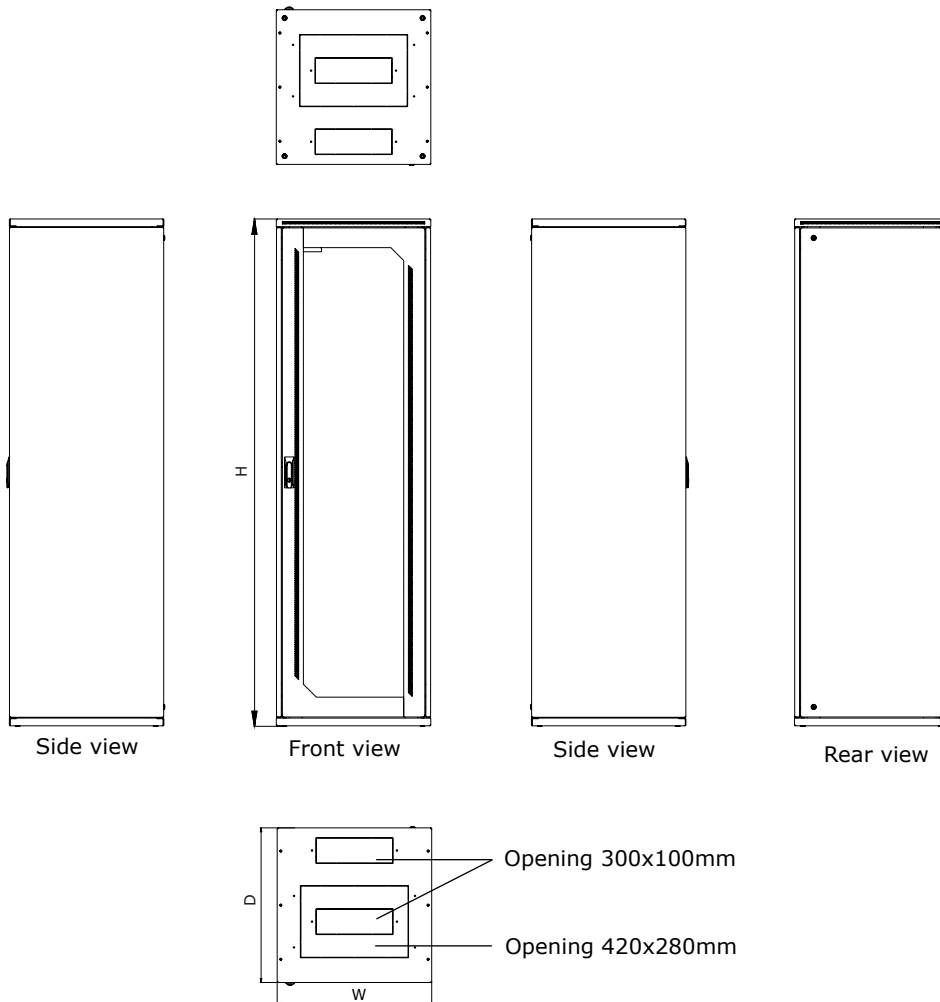
Side doors installed



DISTANCES BETWEEN FRONT AND REAR VERTICAL EXTRUSIONS				
Footprint (cm)	Maximum (mm)	Middle (mm)	Minimum (mm)	Step (mm)
REV 60x60	507,0	453,5	400,0	53,5
REV 60x80	707,0	653,5	600,0	53,5
REV 80x80	707,0	628,0	549,0	79,0

STANDARD EQUIPMENT		OPTIONAL EQUIPMENT	
1	4 x 19" extrusion integrated into columns	10	Plinth – see page 84
2	Stabilization frames	11	Plinth with filter – see page 84
3	Top cover	12	Castors – see page 89
4	Bottom cover	13	Dust-proof panel with brush – see page 86
5	Feet	14	Perforated gland plate – see page 77
6	Glass front door	15	Ventilation unit – see page 74
7	Rear door	16	Connecting kit with filter for ventilation unit – see page 75
8	1 pair of side doors	17	Blank panels for top and bottom openings
9	Variable knock-out openings	18	Vertically divided glass door with perforation
		19	Sheet steel door
		20	Vertically divided sheet steel door





REV - DELIVERED ASSEMBLED									
Code	H in Units	Dimensions in mm				Dimensions including packing			Gross weight in kg
		H*	W	D	Useful depth	H	W	D	
REV-21-60/60	21	1035	600	600	590	1060	640	640	67
REV-24-60/60	24	1170	600	600	590	1190	640	640	73
REV-27-60/60	27	1305	600	600	590	1330	640	640	78
REV-33-60/60	33	1570	600	600	590	1590	640	640	91
REV-42-60/60	42	1970	600	600	590	1990	640	640	106
REV-45-60/60	45	2105	600	600	590	2130	640	640	110
REV-21-60/80	21	1035	600	800	790	1060	640	840	78
REV-27-60/80	27	1305	600	800	790	1330	640	840	91
REV-33-60/80	33	1570	600	800	790	1590	640	840	102
REV-42-60/80	42	1970	600	800	790	1990	640	840	119
REV-45-60/80	45	2105	600	800	790	2130	640	840	126
REV-21-80/80	21	1035	800	800	790	1060	840	840	98
REV-33-80/80	33	1570	800	800	790	1590	840	840	123
REV-42-80/80	42	1970	800	800	790	1990	840	840	144
REV-45-80/80	45	2105	800	800	790	2130	840	840	151

* Height in mm without feet; for feet add 16-45mm

Each unassembled rack is delivered in 4 boxes.

REV - DELIVERED UNASSEMBLED*	
Code	Box contains
REV-SP-zz/yy	2 pieces of side doors for REV-zz-xx/yy
REV-TB-xx/yy	Top and bottom covers for REV-zz-xx/yy Mounting kit
REV-DO-zz/xx	Front and rear doors for REV-zz-xx/yy
REV-CO-zz	4 columns with 19" extrusions for REV-zz-xx/yy

* Ordering codes of racks with non-standard doors and side panels on request

xx - Width of rack
yy - Depth of rack
zz - Height of rack

OPTIONAL EQUIPMENT	
Code	Description
DP-BP-480x305	blank panel 480x305mm
DP-BP-120x350	blank panel 120x350mm
REV-O-EK	GND/earthing kit
REV-O-CF-21U	connecting kit for REV-21-xx/yy
REV-O-CF-24U	connecting kit for REV-24-xx/yy
REV-O-CF-27U	connecting kit for REV-27-xx/yy
REV-O-CF-33U	connecting kit for REV-33-xx/yy
REV-O-CF-42U	connecting kit for REV-42-xx/yy
REV-O-CF-45U	connecting kit for REV-45-xx/yy

19" DISTRIBUTION UNASSEMBLED RACKS RMF SERIES

::RMF



Distribution telecommunication and data racks are designed for installing patch panels, active components, etc.

Description:

- Produced in sizes 21, 33, 42, and 45U
- Width x depth (mm): 600x600, 600x800, 600x1000, 800x800, and 800x1000

See page 69 - Vertical wire management

- Delivered unassembled; easy and quick assembly at installation site
- Robust frame construction from 1.5mm, 2mm sheet steel, connected by 24 (32) M6x12 screws
- Color powder coated RAL 7040 (frame, top and bottom covers) and RAL 7035 (door, side and rear panels), optionally single color RAL 7035 or RAL 9005
- Removable side panels with lock; easy access to installed devices, security, and fast installation and dismantling »
- Removable rear panel with lock; wide range of rear doors available optionally
- Door with swivel handle lock and tinted security glass; wide range of doors and locks available optionally »
- Reversible door - easy re-hanging to open on right or left (at installation site)
- Door opening angle 180°
- Top and bottom openings 420x280mm for ventilation unit covered with removable blank panels
- Top, bottom, and rear openings for cable entry covered with removable blank panels
- Racks depth 600mm have openings for cable entry 300x50mm, racks depth 800mm and 1000mm have openings for cable entry 300x100mm
- Four sliding 19" vertical extrusions »
- Possibility to adapt 800mm wide racks for installation of 21" equipment
- Adaptor DP-RE-01 used for modification of 19" accessories for 21" mounting
- GND/earthing kit »
- Ventilation unit can be installed in top or bottom frame



See page 74 - Ventilation units

- Adjustable feet as standard; castors, lockable castors, plinth, or plinth with filter optionally

See page 84 - Plinths

- When assembled properly, protection rating IP30; optionally IP54
- Load rating max. 400kg balanced load; rigidity and stability can be further improved by using supports RMF-BRACE (ordered separately) »
- Racks can be installed in blocks



See page 78 - Connecting kits

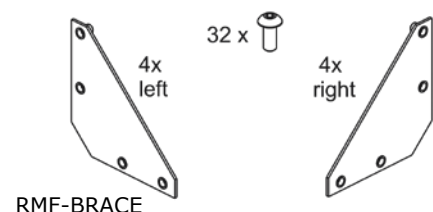
- Compatible with side, wall, and rear mount cooling (please use RDF racks for top mount cooling)

See page 103 - Targeted Cooling



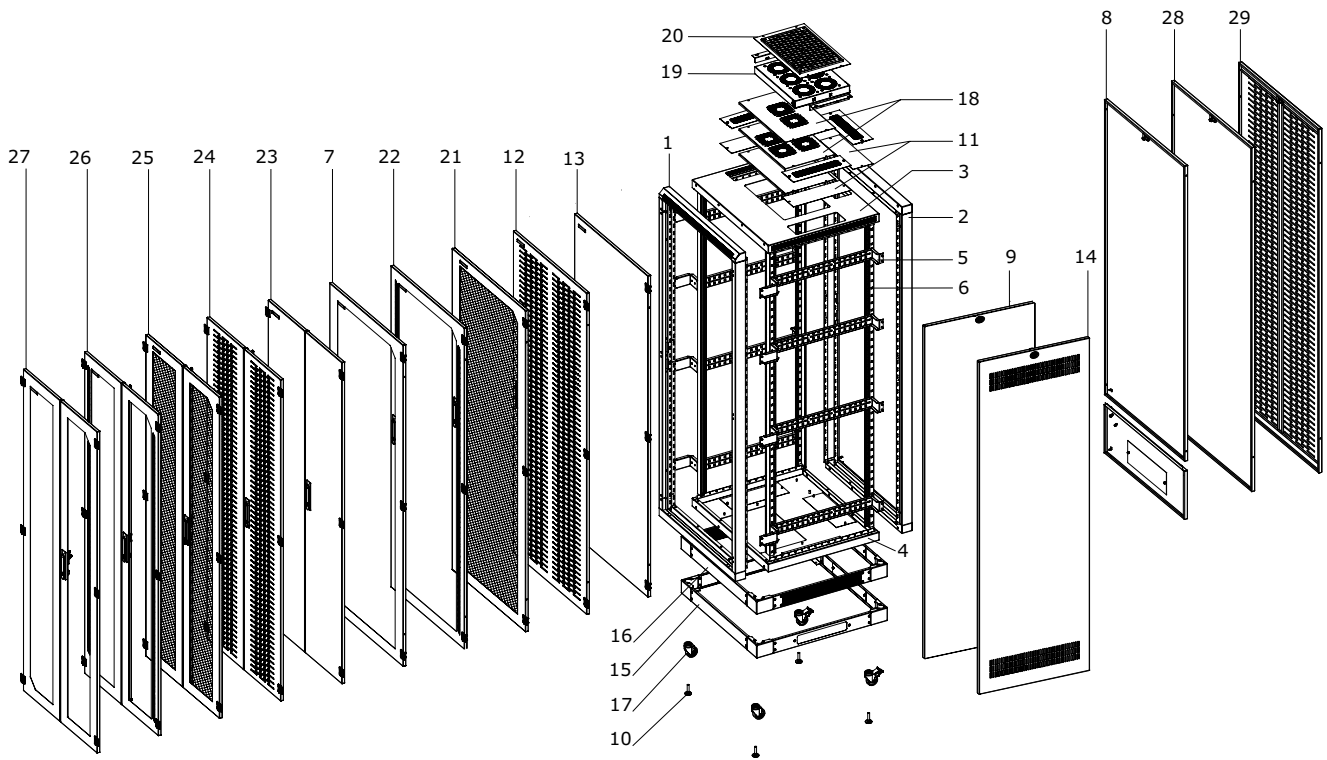
Standard equipment:

- Bottom cover
- Top cover
- 2 side panels with lock
- Front frame with tinted security glass door (EN 12150-1) with swivel handle lock
- Rear frame with rear panel and module for cable entry
- 2 pairs of 19" sliding vertical extrusions
- 4 adjustable feet
- GND/earthing kit
- 28 mounting kits

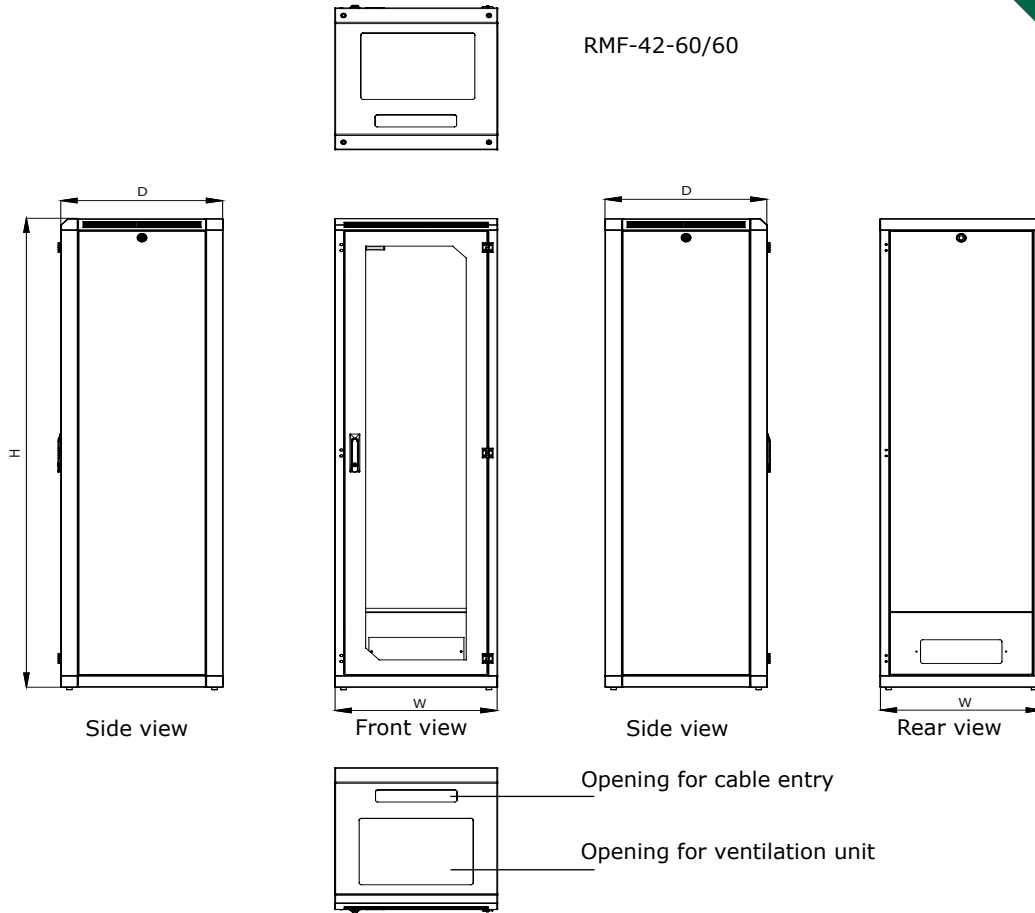


STANDARD EQUIPMENT		OPTIONAL EQUIPMENT	
1	Front frame	12	Door with perforation
2	Rear frame	13	Sheet steel door
3	Top cover	14	Side panels with perforation
4	Bottom cover	15	Plinth – see page 84
5	Holders of vertical extrusions	16	Plinth with filter – see page 84
6	2 pairs of 19" vertical extrusions	17	Castors – see page 89
7	Front glass door	18	Perforated gland plate – see page 77
8	Divided rear panel with cable entry	19	Ventilation unit – see page 74
9	1 pair of side panels with lock	20	Connecting kit with filter for ventilation unit – see page 75
10	Adjustable feet	21	Vented door
11	Blank panels for top and bottom openings	22	Glass door with side perforation
		23	Vertically divided sheet steel door *
		24	Vertically divided perforated sheet steel door *
		25	Vertically divided vented door *
		26	Vertically divided glass door with perforation *
		27	Vertically divided glass door with perforation *
		28	Rear panel (single piece)
		29	Perforated rear panel (single piece)

* Racks 800mm wide only



RMF-42-60/60



Code	H in Units	Dimensions in mm				Weight in kg
		H*	W	D	Useful depth	
RMF-21-60/60	21	1055	600	600	590	65
RMF-33-60/60	33	1588	600	600	590	87
RMF-42-60/60	42	1988	600	600	590	106
RMF-45-60/60	45	2121	600	600	590	111
RMF-21-60/80	21	1055	600	800	790	74
RMF-33-60/80	33	1588	600	800	790	97
RMF-42-60/80	42	1988	600	800	790	118
RMF-45-60/80	45	2121	600	800	790	123
RMF-42-60/100	42	1988	600	1000	990	118
RMF-45-60/100	45	2121	600	1000	990	127
RMF-21-80/80	21	1055	800	800	790	91
RMF-33-80/80	33	1588	800	800	790	118
RMF-42-80/80	42	1988	800	800	790	140
RMF-45-80/80	45	2121	800	800	790	145
RMF-42-80/100	42	1988	800	1000	990	157
RMF-45-80/100	45	2121	800	1000	990	165

* Height in mm without feet; for feet add 16-45mm

RMF - DELIVERED UNASSEMBLED ONLY	
Code of box	Box contains
RMF-FF-zz/xx	Front frame and panel for RMF-zz-xx/yy, 2 pairs of 19" vertical extrusions, mounting kit, feet
RMF-RF-zz/xx	Rear frame and panel for RMF-zz-xx/yy
RMF-SP-zz/yy	2 pieces of side panels for RMF-zz-xx/yy
RMF-TB-xx/yy	Top and bottom covers of RMF-zz-xx/yy
RMF-HVE-xx/yy *	Holders of vertical extrusions for yy racks; 1 box contains 2 pairs of holders

* One pack is needed for racks 21U and 33U. Two packs are needed for racks 42U and 45U.

xx - Width of rack
yy - Depth of rack
zz - Height of rack

RMF



Packing of unassembled rack



Parts of unassembled rack

Code	Dimensions including packing in mm				
	Box 1 RMF-FF-zz/xx	Box 2 RMF-RF-zz/xx	Box 3 RMF-SP-zz/yy	Box 4 RMF-TB-zz/yy	Box 5 RMF-HVE-xx/yy*
RMF-21-60/60	630x1100x130	630x1100x130	520x990x85	650x535x160	70x35x565
RMF-33-60/60	630x1630x130	630x1630x130	520x1520x85	650x535x160	70x35x565
RMF-42-60/60	630x2030x130	630x2030x130	520x1920x85	650x535x160	70x35x565
RMF-45-60/60	630x2166x130	630x2166x130	520x2055x85	650x535x160	70x35x565
RMF-21-60/80	630x1100x130	630x1100x130	720x990x85	650x735x160	70x35x765
RMF-33-60/80	630x1630x130	630x1630x130	720x1520x85	650x735x160	70x35x765
RMF-42-60/80	630x2030x130	630x2030x130	720x1920x85	650x735x160	70x35x765
RMF-45-60/80	630x2166x130	630x2166x130	720x2055x85	650x735x160	70x35x765
RMF-42-60/100	630x2030x130	630x2030x130	920x1920x85	650x935x160	70x35x965
RMF-45-60/100	630x2166x130	630x2166x130	920x2055x85	650x935x160	70x35x965
RMF-21-80/80	830x1100x130	830x1100x130	720x990x85	850x735x160	145x105x810
RMF-33-80/80	830x1630x130	830x1630x130	720x1520x85	850x735x160	145x105x810
RMF-42-80/80	830x2030x130	830x2030x130	720x1920x85	850x735x160	145x105x810
RMF-45-80/80	830x2166x130	830x2166x130	720x2055x85	850x735x160	145x105x810
RMF-42-80/100	830x2030x130	830x2030x130	920x1920x85	850x935x160	145x105x1010
RMF-45-80/100	830x2166x130	830x2166x130	920x2055x85	850x935x160	145x105x1010

* One pack is needed for racks 21U and 33U. Two packs are needed for racks 42U and 45U.



Rear frame connected with top and bottom covers...



...with front frame...



...with holders of vertical extrusions...



...with sliding vertical extrusions...

ORDERING MATRIX

A	B	C		D		E		F	-	G	H		I
R	M	F	-	FF	-	42	/	60	-	S	B	-	B

RMF

A	Rack type, ie. frame specification	F	Rack width in cm (FF, RF), rack depth in cm (SP, TB)
B	Rack type, ie. frame specification	G	Component execution (N/A for TB)
C	Rack type, ie. frame specification	H	Lock for the component (N/A for SP and TB)
D	Component identification	I	Color
E	Rack height in U, for TB rack width in cm		

D	FF	Front frame
	RF	Rear frame
	SP	Side panels
	TB	Top and bottom

FRONT DOOR OPTIONS

(Code FF on the position D of the ordering matrix, use the code below for the position G)

0	Without door
G	Glass door
S	Sheet steel door
P	Perforated sheet steel door
T	Glass door with side perforation
A	Vertically divided glass door *
B	Vertically divided glass door with side perforation *
C	Vertically divided sheet steel door *
D	Vertically divided perforated sheet steel door *
V	Vented door (perforation rate 71%)
W	Vented door (perforation rate 83%)
E	Vertically divided vented door (perforation rate 71%) *
F	Vertically divided vented door (perforation rate 83%) *

REAR PANEL / DOOR OPTIONS

(Code RF on the position D of the ordering matrix, use the code below for the position G)

0	Without door / panel
G	Glass door
S	Sheet steel door
P	Perforated sheet steel door
T	Glass door with side perforation
A	Vertically divided glass door *
B	Vertically divided glass door with side perforation *
C	Vertically divided sheet steel door *
D	Vertically divided perforated sheet steel door *
V	Vented door (perforation rate 71%)
W	Vented door (perforation rate 83%)
E	Vertically divided vented door (perforation rate 71%) *
F	Vertically divided vented door (perforation rate 83%) *
Y	Rear panel, single piece (no cable entry)
R	Rear panel, divided, with cable entry
Z	Perforated rear panel, single piece (no cable entry)

* racks 800mm wide only

FRONT DOOR LOCK

(Code FF on the position D of the ordering matrix, use the code below for the position H)

A	Standard swivel handle, universal key
B	Standard swivel handle, universal key, multipoint
C	Standard swivel handle, keyed different
D	Standard swivel handle, keyed different, multipoint
G	Swivel handle with combination lock and universal key
H	Swivel handle with combination lock and universal key, multipoint
I	Swivel handle with profile half cylinder, universal key
J	Swivel handle with profile half cylinder, universal key, multipoint
K	Swivel handle with profile half cylinder, keyed different
L	Swivel handle with profile half cylinder, keyed different, multipoint

REAR PANEL / DOOR LOCK

(Code RF on the position D of the ordering matrix, use the code below for the position H)

A	Standard swivel handle, universal key
B	Standard swivel handle, universal key, multipoint
C	Standard swivel handle, keyed different
D	Standard swivel handle, keyed different, multipoint
E	Swivel handle with combination lock and universal key
F	Swivel handle with combination lock and universal key, multipoint
G	Swivel handle with combination lock, keyed different
H	Swivel handle with combination lock, keyed different, multipoint
I	Swivel handle with profile half cylinder, universal key
J	Swivel handle with profile half cylinder, universal key, multipoint
K	Swivel handle with profile half cylinder, keyed different
L	Swivel handle with profile half cylinder, keyed different, multipoint
U	Lock for rear panel, universal key
X	Lock for rear panel, keyed different

SIDE PANELS WITH LOCKS (BOTH SIDES)

(Code SP on the position D of the ordering matrix, use the code below for the position G)

C	2 side panels, sheet steel, keyed different
E	2 side panels, sheet steel with perforation, universal key
G	2 side panels, sheet steel with perforation, keyed different

COLOR

(Position I of the ordering matrix)

B	RAL 7035 for FF and RF
H	RAL 9005 for FF, RF, SP and TB

IP 54 PROTECTION

Ordering codes of IP54 ready components upon request

All types of vented and vertically divided doors require multi-point lock. RMF racks compatible with side, wall, and rear mount cooling (always use RMF-BRACE). Please use RDF racks for top mount cooling. (see page 103 - Targeted Cooling)

19" SERVER RACKS ROS SERIES

ROS



Free-standing server racks are designed for installing servers, UPS units, etc.

Description:

- Produced in heights 27U and 42U
- Width 650mm
- Depth 900mm (27U), 900mm - 1200mm (42U)
- Two pairs of divided 19" (21") sliding vertical extrusions: for height 42U into three parts 14U each, for height 27U into two parts (14U and 13U)
- Frame construction; 1.5mm sheet steel
- Front door with multipoint swivel handle lock, tinted security glass (EN 12150-1) and side perforation
- Door opening angle 180°
- Rear perforated sheet steel door with multipoint swivel handle lock
- Removable side panels with lock and perforation in top and bottom parts
- Robust holders of sliding vertical extrusions and two strengthening frames in rear section for increased sturdiness »
- Special plinth for increased stability while pulling servers out, with openings for cable entries »
- Color powder coated RAL (standard RAL 7035, 9005)
- Ventilation unit can be installed in top or bottom frame

See page 74 - Ventilation unit

- Protection rating IP20 (optionally up to IP54)
- Racks can be installed in blocks
- Compatible with side and wall mount cooling

See page 103 - Targeted Cooling



Racks 900mm and 1000mm deep

- Possibility to install high load shelf DP-PZ-ROS-xxx (rated up to 300kg) in the bottom part (after removing bottom part of vertical extrusions)
- Load rating max. 600kg balanced load
- Openings for ventilation unit in top and bottom frame (7-9 fans)

Racks 1100mm and 1200mm deep

- Possibility to install DP-PZ-ROS-xxx set (2 high load shelves, each rated for 150kg) in the bottom part (after removing bottom part of vertical extrusions)
- Load rating max. 900kg balanced load
- Openings for two ventilation units in top and bottom frame (4-6 fans each) »



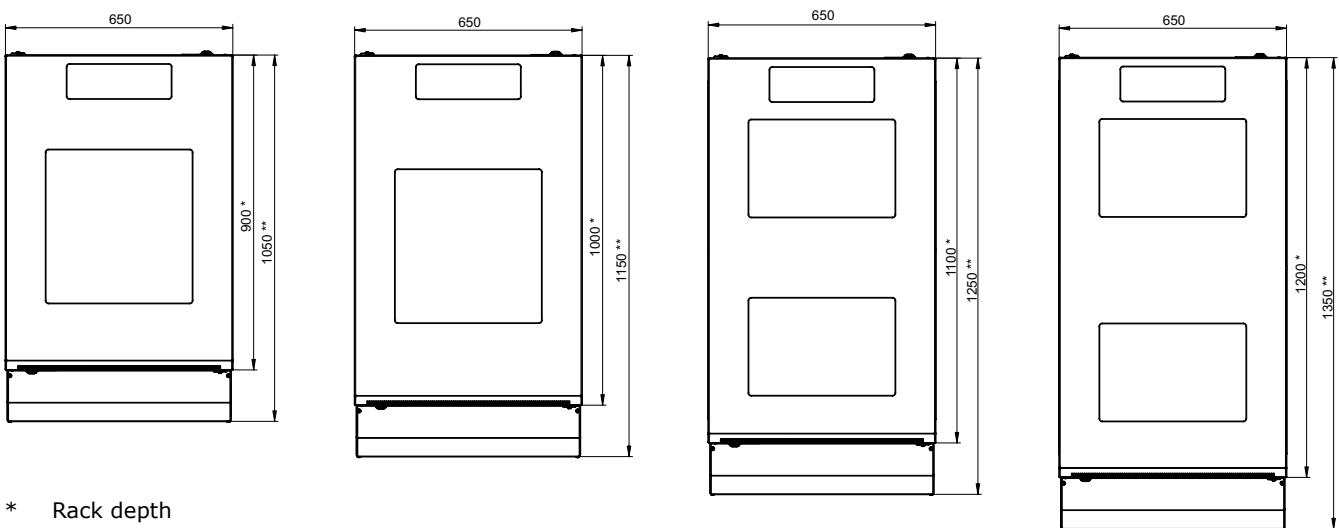
Warning: Always pull out only one server at a time.

Standard equipment:

- 2 pairs of divided 19" (21") sliding vertical extrusions
- 1 pair of side panels with perforation and lock (vertically divided in racks 1100mm and 1200mm deep)
- 1 front door with multipoint swivel handle lock, tinted security glass (EN 12150-1), and side perforation
- Rear perforated sheet steel door with multipoint swivel handle lock
- GND/earthing kit
- 28 mounting kits
- Plinth

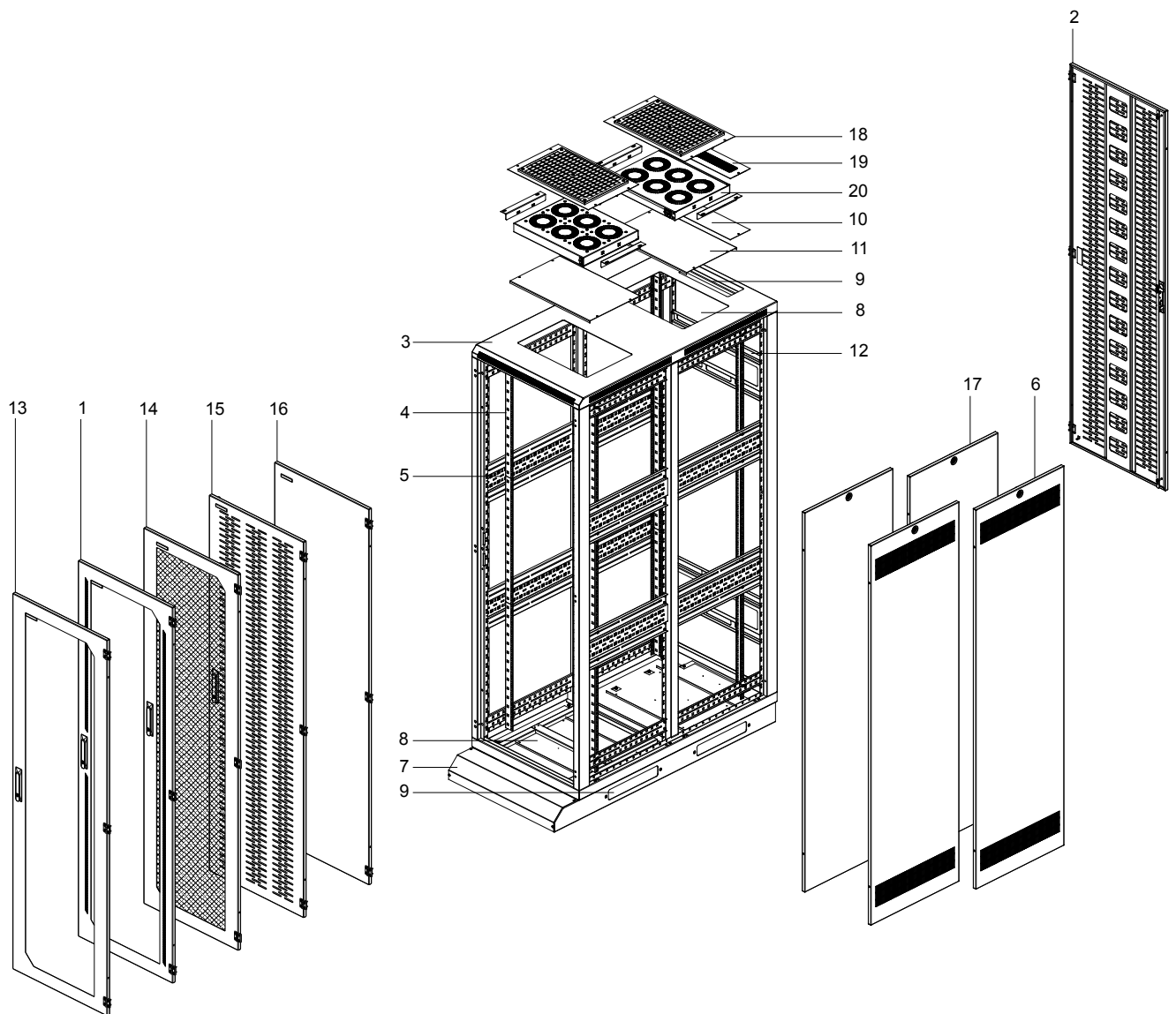


Top view



* Rack depth
 ** Rack depth with plinth

STANDARD EQUIPMENT		OPTIONAL EQUIPMENT	
1	Front glass door with side perforation	13	Glass door
2	Rear perforated sheet steel door	14	Vented door
3	Frame of rack	15	Perforated sheet steel door
4	2 pairs of divided 19" vertical extrusions	16	Sheet steel door
5	Holder of vertical extrusions (divided in racks 1100mm and 1200mm deep)	17	1 pair of side panels with lock (vertically divided in racks 1100 and 1200mm deep)
6	1 pair of side panels with perforation and lock (vertically divided in racks 1100 and 1200mm deep)	18	Connecting kit with filter for ventilation unit – see page 75
7	Plinth	19	Dust-proof panels with brush for cable entry openings – see page 86
8	Openings for ventilation unit	20	Ventilation unit – see page 74
9	Cable entry openings		
10	Blank panels for cable entry openings		
11	Blank panels for openings for ventilation unit		
12	Strengthening frames		



A	B	C		D		E		F	-	J	K	L	M	N		G	H	I	-	P
R	O	S	-	27	-	65	/	90	-	T	B	P	B	E	-	2	0	6	-	B

ROS

Code structure has changed: position G - IP rating, position H - Plates

A	Rack type, ie. frame specification	I	Load capacity
B	Rack type, ie. frame specification	J	Front door
C	Rack type, ie. frame specification	K	Front door lock
D	Rack height in U, ie. 27, 42	L	Rear door
E	Rack width in cm - ie. 65	M	Rear door lock
F	Rack depth in cm - ie. 90, 100, ...	N	Side panels (both sides)
G	IP rating *	P	Color
H	Plates		

ORDERING MATRIX

K,M	B	Standard swivel handle, universal key, multipoint
	D	Standard swivel handle, keyed different, multipoint
	F	Swivel handle with combination lock and universal key, multipoint
	H	Swivel handle with combination lock, keyed different, multipoint
	J	Swivel handle with profile half cylinder, universal key, multipoint
	L	Swivel handle with profile half cylinder, keyed different, multipoint

J	0	Without door
	G	Glass door
	S	Sheet steel door
	P	Perforated sheet steel door
	T	Glass door with perforation
	V	Vented door (perforation rate 71%)
	W	Vented door (perforation rate 83%)

N	0	No side panels
	A	2 side panels, sheet steel, universal key
	B	1 side panel, sheet steel, universal key
	C	2 side panels, sheet steel, keyed different
	D	1 side panel, sheet steel, keyed different
	E	2 side panels, sheet steel with perforation, universal key
	F	1 side panel, sheet steel with perforation, universal key
	G	2 side panels, sheet steel with perforation, keyed different
	H	1 side panel, sheet steel with perforation, keyed different

L	0	Without door
	G	Glass door
	S	Sheet steel door
	P	Perforated sheet steel door
	T	Glass door with perforation
	V	Vented door (perforation rate 71%)
	W	Vented door (perforation rate 83%)

G	0	IP00
	2	IP20
	3	IP30
	5	IP54

I	6	600kg
	9	900kg

* According to EN 60529

P	B	RAL 7035
	H	RAL 9005 fine structure

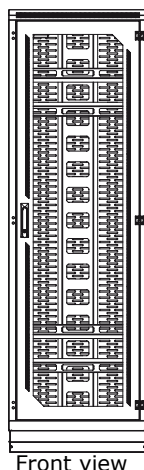
H	0	Top & bottom plates - Integral
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All types of vented and vertically divided doors require multi-point lock. Compatible with side and wall mount cooling (see page 103 - Targeted Cooling).

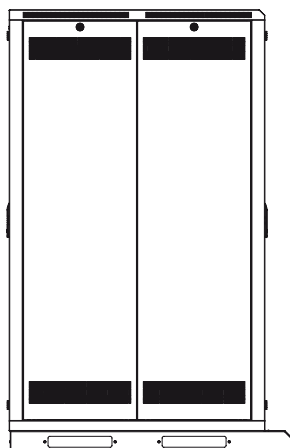
Code	H in Units	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg
		H*	W	D**	Useful depth	H	W	D	
ROS-27-65/90	27	1413	650	900	870	1500	690	940	105
ROS-42-65/90	42	2080	650	900	870	2160	690	940	139
ROS-42-65/100	42	2080	650	1000	970	2160	690	1040	150
ROS-42-65/110	42	2080	650	1100	1070	2160	690	1140	168
ROS-42-65/120	42	2080	650	1200	1170	2160	690	1240	184

* With plinth
** Without plinth

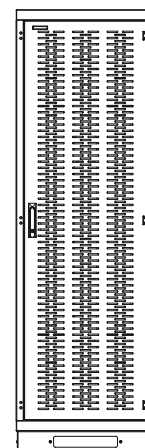
ROS-42-65/120



Front view



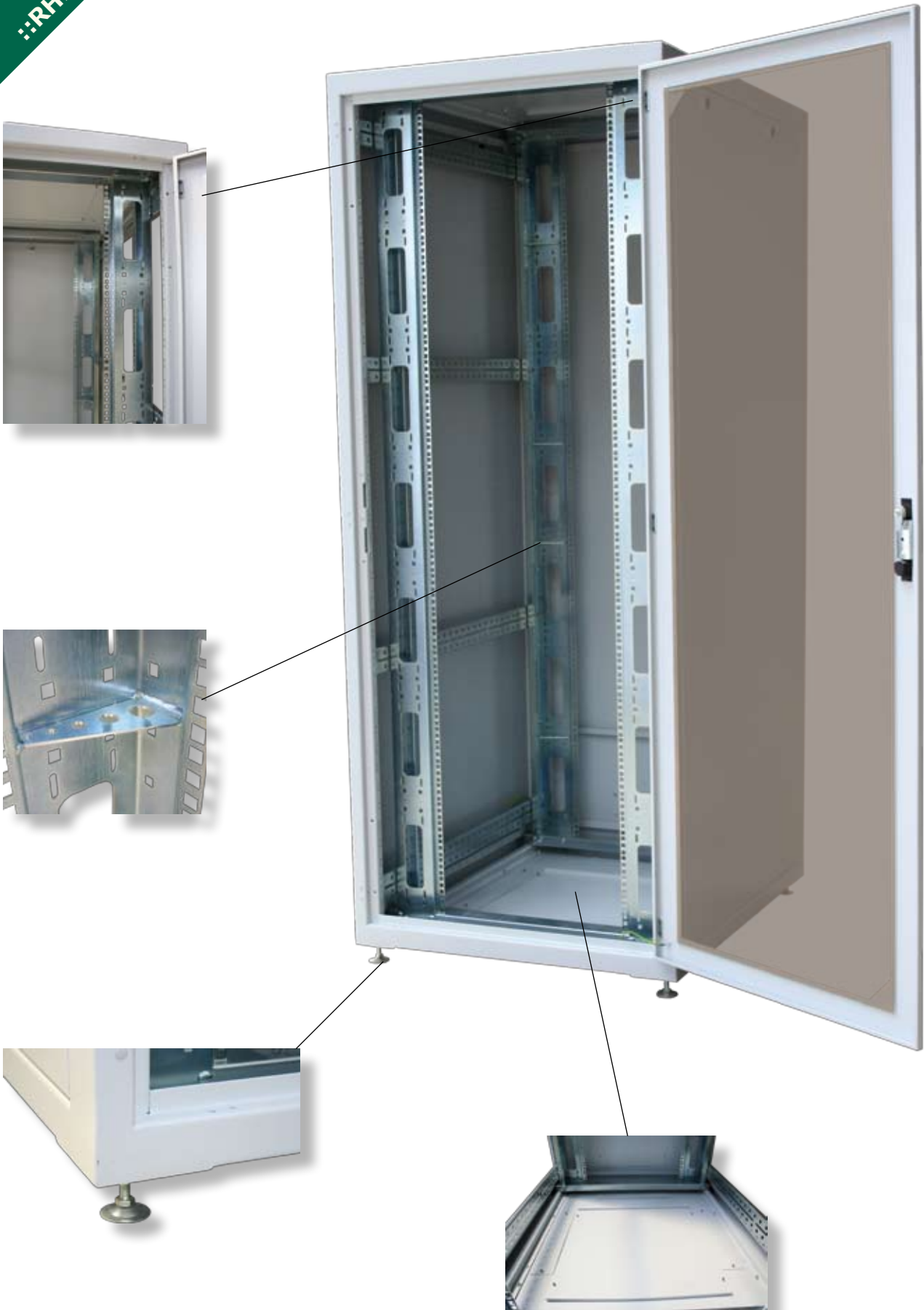
Side view



Rear view

19" HIGH-LOAD DISTRIBUTION RACKS RHF SERIES

::RHF



High-load distribution racks are designed for installing servers, UPS units, Disk Arrays, and other heavy equipment. Load rating up to 1500kg balanced load.

Description:

- Produced in heights 42U
- Width 600 or 800mm
- Depth 1000mm
- Frame construction; 2.5mm sheet steel
- Color powder coated RAL (standard RAL 7035, 9005)

- Door with swivel handle lock (single or multipoint); optionally cylinder or digital code lock, other locks on request »
- Wide variety of doors: tinted security glass door (as standard front door); optionally steel, perforated steel, vented (perforation rate 71 and 83%), vertically divided doors etc.
- Removable side panels with lock; easy access to installed devices, security, and fast installation and dismantling
- Removable rear panel with module for cable entry as standard; optionally can be replaced by full range of doors (see front door options) »
- Reversible door – easy re-hanging to open on right or left (at installation site)
- Door opening angle 180°
- Removable top and bottom plate; other types on request
- Top and bottom openings for ventilation unit (420x440mm) covered with removable blank panels
- Top, bottom, and rear openings for cable entry covered with removable blank panels
 - 1 opening (300x100mm) in the module (rear panel)
 - 2 openings (300x100mm) in both top and bottom plate (600mm wide racks)
 - 2 openings (300x100mm) and 2 openings (300x50mm) in both top and bottom plate (800mm wide racks)
- Top frame perforated for effective ventilation
- Ventilation unit can be installed in top or bottom plate

See page 74 – Ventilation units

- Four sliding 19" vertical extrusions »
- Possibility to adapt 800mm wide racks for installation of 21" equipment (on request)
- Adjustable feet as standard; plinth or plinth with filter optionally (corners DP-PR-100-RHF needed)

See page 84 – Plinths

- GND/earthing kit »
- Load rating max. **1500kg** balanced load
- Standard protection rating IP30; optionally IP54, IP20 when perforated doors used
- Racks can be installed in blocks

See page 78 – Connecting kit

- Compatible with side, wall, rear, and top mount cooling

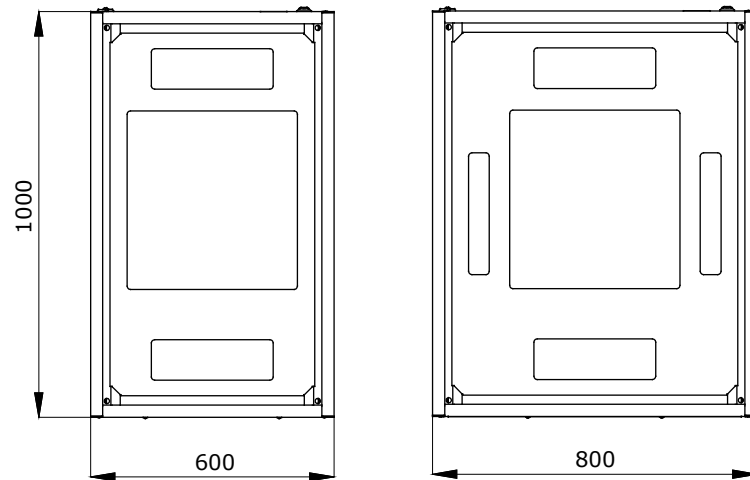
See page 103 – Targeted Cooling

Standard equipment:

- 2 pairs of 19" sliding vertical extrusions
- Rear panels with module for cable entry
- Tinted security glass front door (EN 12150-1) with swivel handle lock
- Removable top and bottom frame
- 1 pair of side panels with lock
- 4 adjustable feet
- GND/earthing kit
- 28 mounting kits



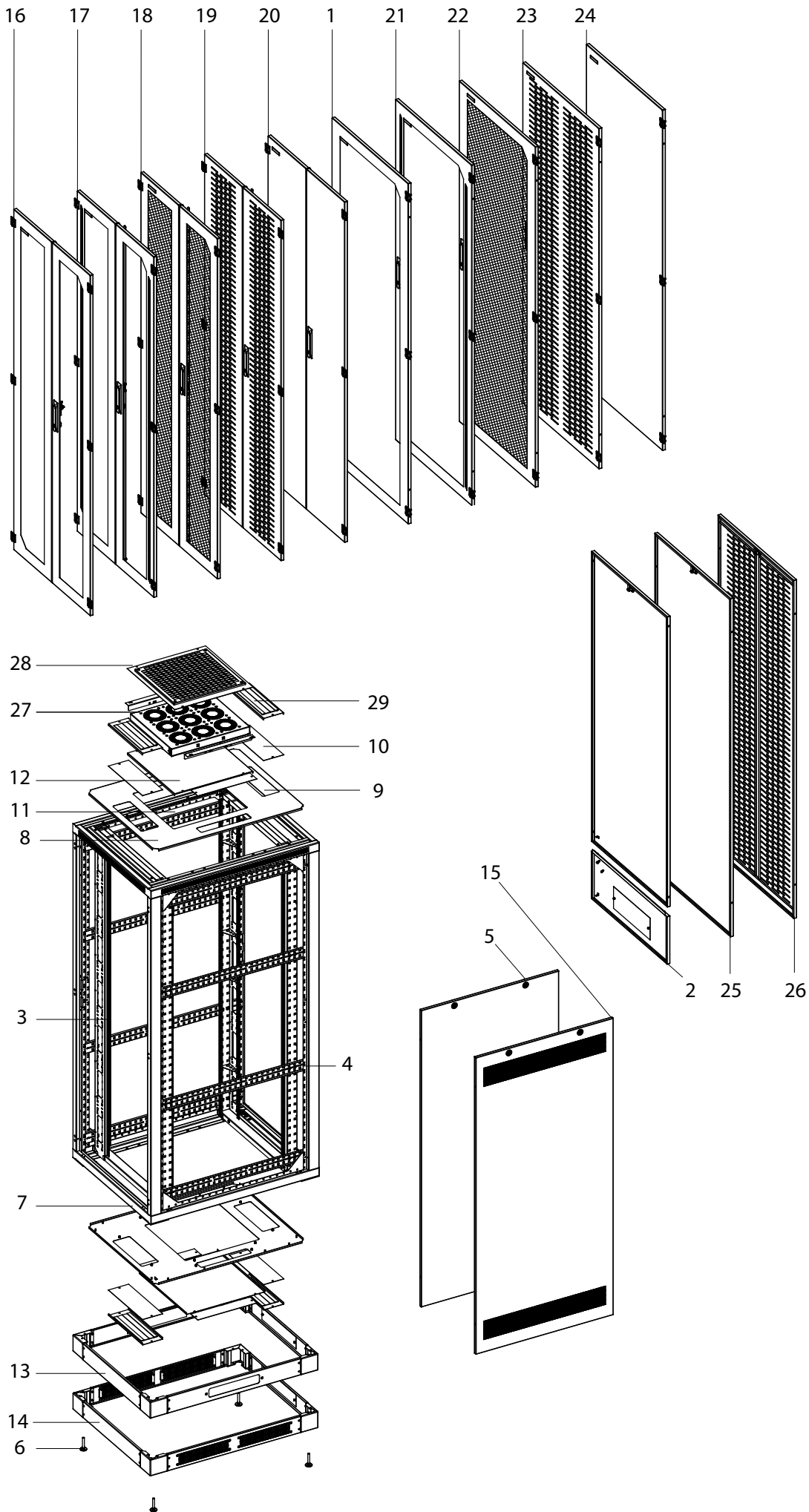
Top view



STANDARD EQUIPMENT		OPTIONAL EQUIPMENT (EXAMPLES)	
1	Glass door	13	Plinth – see page 84
2	Rear panel with module (can be replaced by any door)	14	Plinth with filter – see page 84
3	4 pcs of 19" sliding extrusions	15	1 pair of side panels with perforation
4	Holders of vertical extrusions	16	Vertically divided glass door *
5	1 pair of side panels with lock	17	Vertically divided glass door with perforation *
6	Adjustable feet	18	Vertically divided vented door *
7	Frame of rack	19	Vertically divided perforated sheet steel door *
8	Removable top and bottom plate	20	Vertically divided sheet steel door *
9	Top and bottom cable entry openings	21	Glass door with side perforation
10	Blank panels for cable entry openings	22	Vented door
11	Top and bottom openings for ventilation unit	23	Perforated sheet steel door
12	Blank panels for openings for ventilation unit	24	Sheet steel door
		25	Rear panel – 1 piece
		26	Rear panel – perforated
		27	Ventilation unit – see page ?
		28	Connecting kit with filter for ventilation unit - see page ? – see page 75
		29	Dust-proof panels with brush for cable entry openings – see page 86

* racks 800mm wide only

∴RHF



ORDERING MATRIX

∴RHF

A	B	C		D		E		F	-	J	K	L	M	N		G	H	I	-	P
R	H	F	-	42	-	60	/	100	-	G	A	S	A	A	-	3	A	F	-	B

A	Rack type, ie. frame specification	I	Load rating
B	Rack type, ie. frame specification	J	Front door
C	Rack type, ie. frame specification	K	Front door lock
D	Rack height in U, ie. 42	L	Rear panel/door
E	Rack width in cm - ie. 60,80	M	Rear panel/door lock
F	Rack depth in cm - ie. 100	N	Side panels (both sides)
G	IP rating **	P	Color
H	Plates		

L	0	Without panel/door
	G	Glass door
	S	Sheet steel door
	P	Perforated sheet steel door
	T	Glass door with perforation
	V	Vented door (perforation rate 71%)
	W	Vented door (perforation rate 83%)
	A	Vertically divided glass door *
	B	Vertically divided glass door with side perforation *
	C	Vertically divided sheet steel door *
	D	Vertically divided perforated sheet steel door *
	E	Vertically divided vented door (perforation rate 71%) *
	F	Vertically divided vented door (perforation rate 83%) *
	Y	Rear panel - single piece
	R	Rear panel - divided, with cable entry
	Z	Perforated rear panel - single piece
	Other	

K,M	A	Standard swivel handle, universal key
	B	Standard swivel handle, universal key, multipoint
	C	Standard swivel handle, keyed different
	D	Standard swivel handle, keyed different, multipoint
	E	Swivel handle with combination lock and universal key
	F	Swivel handle with combination lock and universal key, multipoint
	G	Swivel handle with combination lock, keyed different
	H	Swivel handle with combination lock, keyed different, multipoint
	I	Swivel handle with profile half cylinder, universal key
	J	Swivel handle with profile half cylinder, universal key, multipoint
	K	Swivel handle with profile half cylinder, keyed different
	L	Swivel handle with profile half cylinder, keyed different, multipoint
	U	Lock for rear panel, universal key
	X	Lock for rear panel, keyed different
		Other

J	0	Without door
	G	Glass door
	S	Sheet steel door
	P	Perforated sheet steel door
	T	Glass door with perforation
	V	Vented door (perforation rate 71%)
	W	Vented door (perforation rate 83%)
	A	Vertically divided glass door *
	B	Vertically divided glass door with perforation *
	C	Vertically divided sheet steel door *
	D	Vertically divided perforated sheet steel door *
	E	Vertically divided vented door (perforation rate 71%) *
	F	Vertically divided vented door (perforation rate 83%) *
		Other

N	0	No side panels
	A	2 side panels, sheet steel, universal key
	B	1 side panel, sheet steel, universal key
	C	2 side panels, sheet steel, keyed different
	D	1 side panel, sheet steel, keyed different
	E	2 side panels, sheet steel with perforation, universal key
	F	1 side panel, sheet steel with perforation, universal key
	G	2 side panels, sheet steel with perforation, keyed different
	H	1 side panel, sheet steel with perforation, keyed different
		Other

G	0	IP00
	2	IP20
	3	IP30
	5	IP54
	A	AC ready ***

H	A	Top & bottom plates
	B	Top plate only (open bottom)
	C	Bottom plate only (open top)

I	F	1500kg
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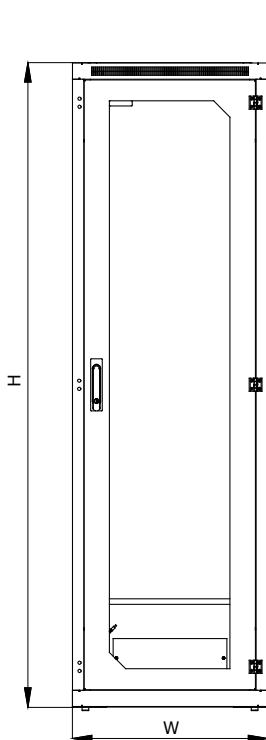
P	B	RAL 7035
	H	RAL 9005 fine structure

* Racks 800mm wide only

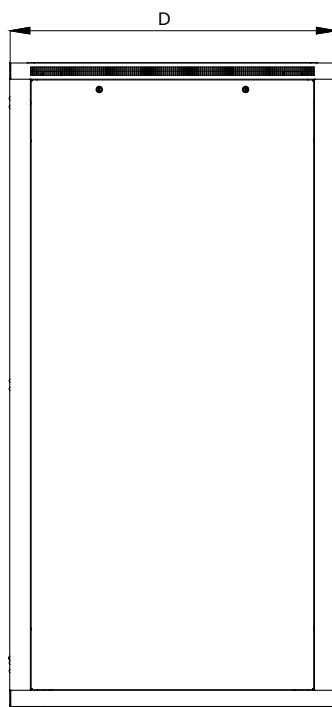
** According to EN 60529

*** Ready for AC unit installation; recommended when cooling is planned or required; IP54 when AC Unit installed according to instructions

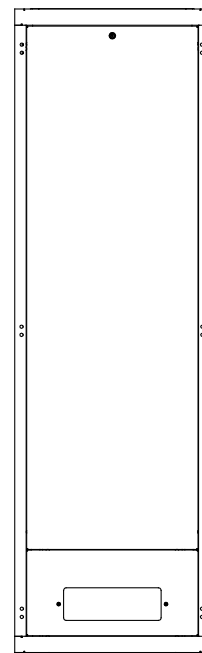
All types of vented and vertically divided doors require multi-point lock.
RHF - part of ROF racks family. Recommended for all types of cooling!



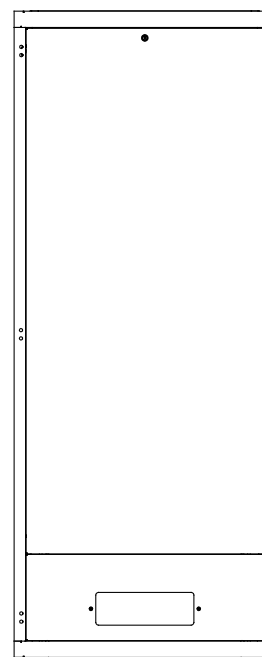
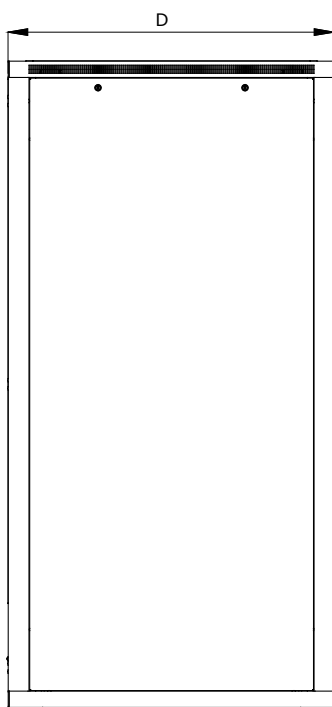
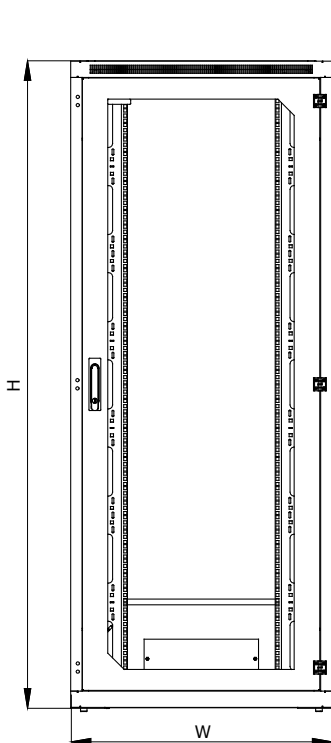
Front view



Side view



Rear view



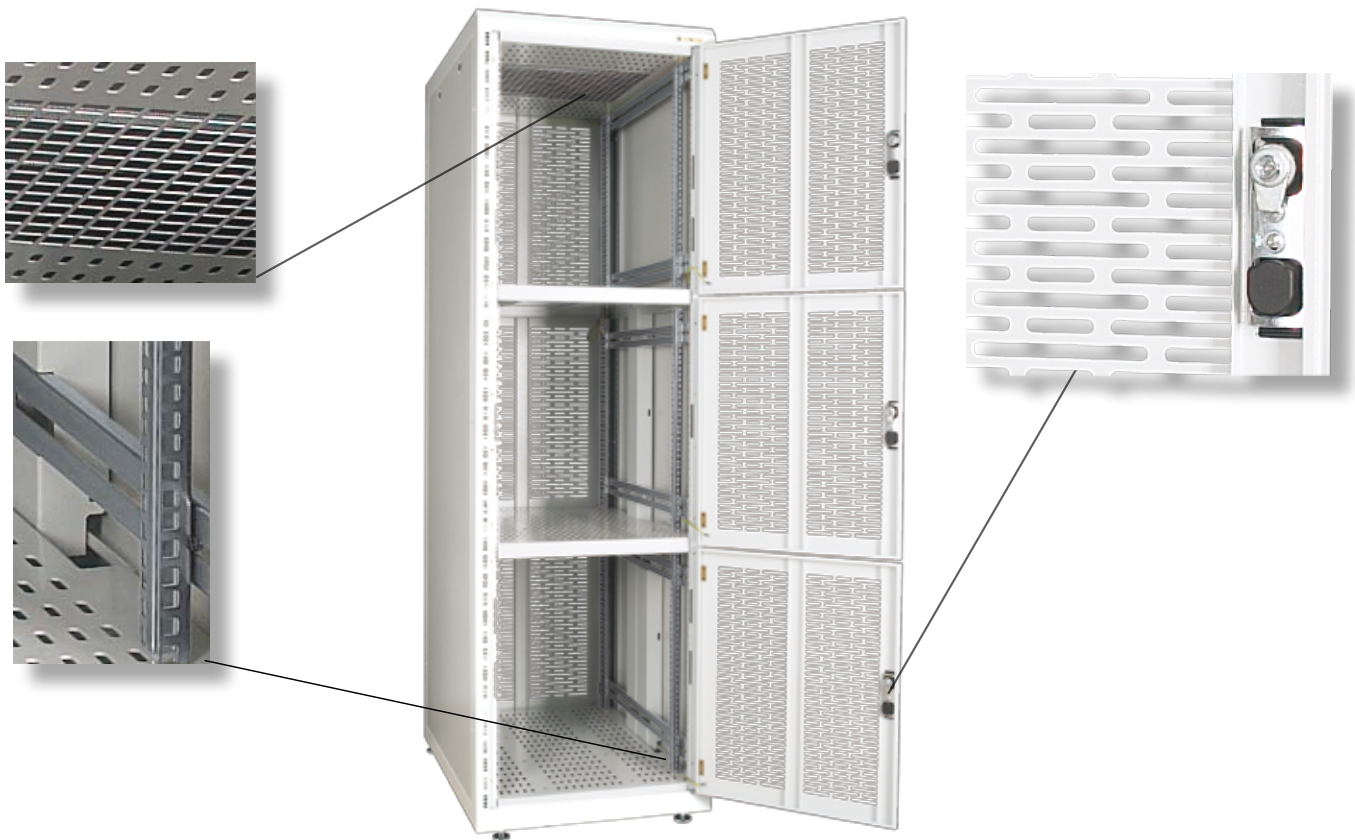
Code	H in Units	Dimensions in mm				Dimensions including packing in mm			Weight in kg
		H*	W	D	Useful depth	H	W	D	
RHF-42-60/100	42	1988	600	1000	990	2160	640	1040	138
RHF-42-80/100	42	1988	800	1000	990	2160	840	1040	166

* Height in mm without feet; for feet add 16-45mm

19" SERVERHOUSING RACKS RSB SERIES

Serverhousing racks are designed for installing servers, UPS units, etc.

RSB



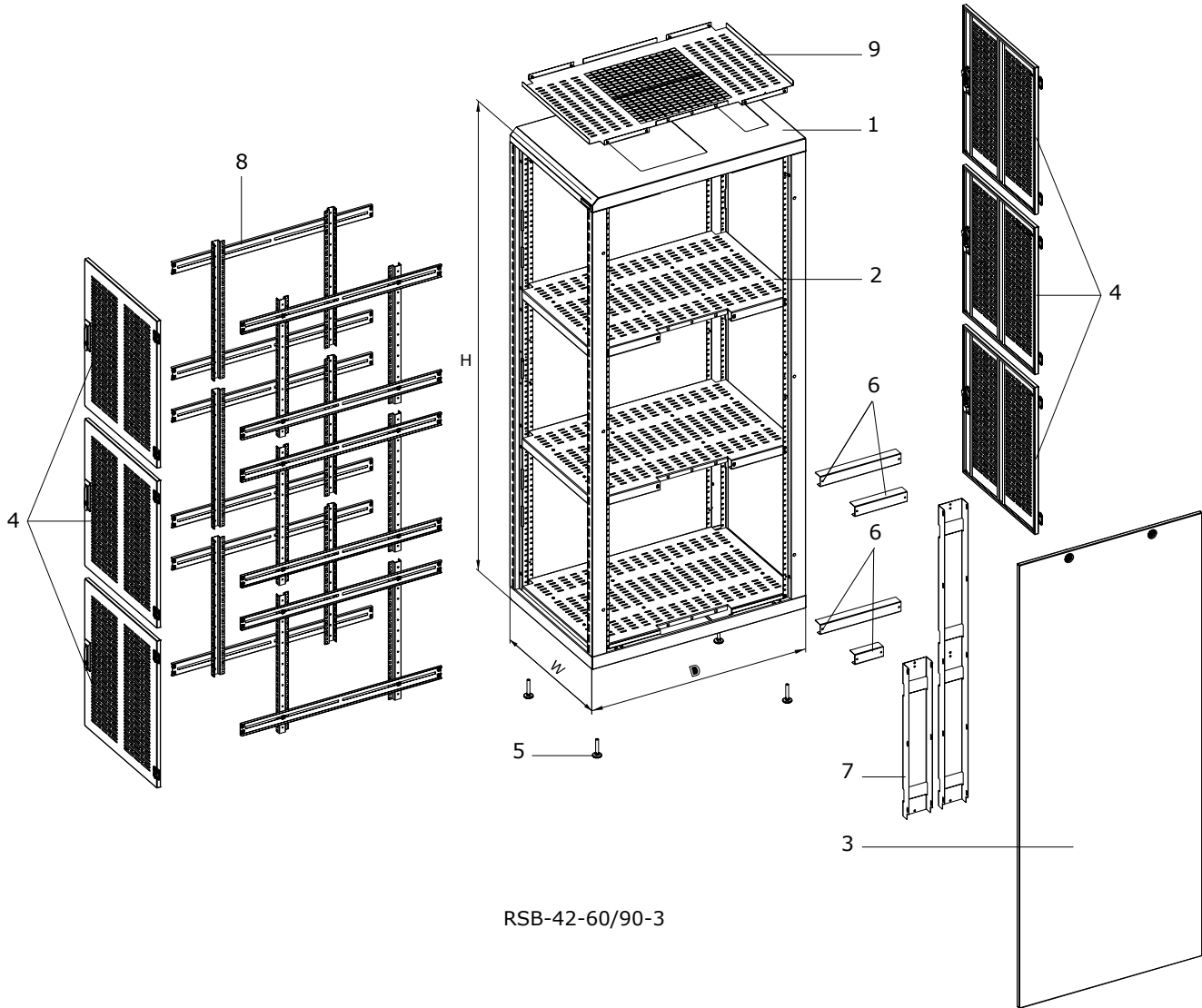
Description:

- Size 42U
- Width 600mm, depth 900mm
- Frame construction; 1.5mm, 2mm sheet steel
- Color powder coated RAL (standard RAL 7035, 9005)
- Removable side panels with two locks
- Perforated sheet steel doors with swivel handle locks
- Front and rear reversible doors - easy re-hanging to open on right or left (at installation site); door opening angle 180°
- Top and bottom openings for cable entry covered with removable blank panels
- GND/earthing kit
- Ventilation unit can be installed in top or bottom frame
- Adjustable feet
- Protection rating IP20
- Load rating max. 300kg balanced load; load rating of each compartment max. 100kg
- Racks can be installed in blocks
- Combination lock optionally
- Three types

Standard equipment:

- A) RSB-42-60/90-1:
- one compartment
 - one sheet steel door in the front and one in the rear
 - high load shelf fixed to the frame in bottom part of rack
 - useful height 41U
- B) RSB-42-60/90-2:
- two compartments
 - two sheet steel doors in the front and two in the rear
 - rack divided into two equal compartments with one high load shelf on bottom of each compartment
 - useful height of each compartment 20U
- C) RSB-42-60/90-3:
- three compartments
 - three sheet steel doors in the front and three in the rear
 - rack divided into three equal compartments with one high load shelf on bottom of each compartment
 - useful height of each compartment 13U

STANDARD EQUIPMENT		OPTIONAL EQUIPMENT	
1	Frame of serverhousing rack	7	Set of individual cable guiding
2	3 pcs of high load shelf	8	Set of 2 pairs of 19" vertical extrusions for RSB-42-60/90-3 (set for 1 compartment)
3	2 removable side panels	9	Cover of cable guiding from top
4	6 pcs of sheet steel doors		
5	Adjustable feet		
6	Cover of cable entry		



RSB-42-60/90-3

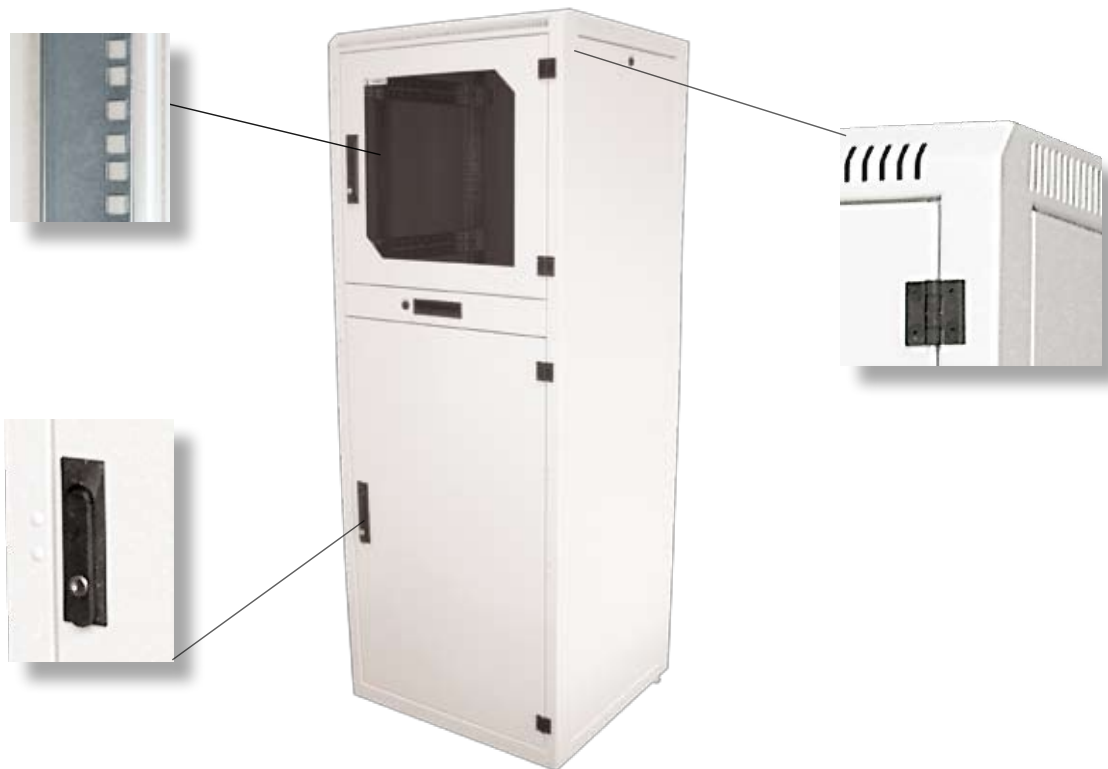
Code	H in Units	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg
		H*	W	D	Useful depth	H	W	D	
RSB-42-60/90-1	42	2005	600	900	870	2025	630	930	85
RSB-42-60/90-2	42	2005	600	900	870	2025	630	930	95
RSB-42-60/90-3	42	2005	600	900	870	2025	630	930	105

* Height in mm without feet; for feet add 16-45mm

ACCESSORIES	
Code	Description
RSB-O-101	Set of 2 pairs of 19" vertical extrusions for RSB-42-60/90-1
RSB-O-102	Set of 2 pairs of 19" vertical extrusions for RSB-42-60/90-2 (set for 1 compartment)
RSB-O-103	Set of 2 pairs of 19" vertical extrusions for RSB-42-60/90-3 (set for 1 compartment)
RSB-O-202	Set for individual cable guiding for RSB-42-60/90-2
RSB-O-203	Set for individual cable guiding for RSB-42-60/90-3
RSB-O-300	Cover of cable guiding from top for RSB-42U-60/90-1,2,3

19" PC RACKS ROP SERIES

Free-standing PC racks are designed for installing servers and PC configurations.



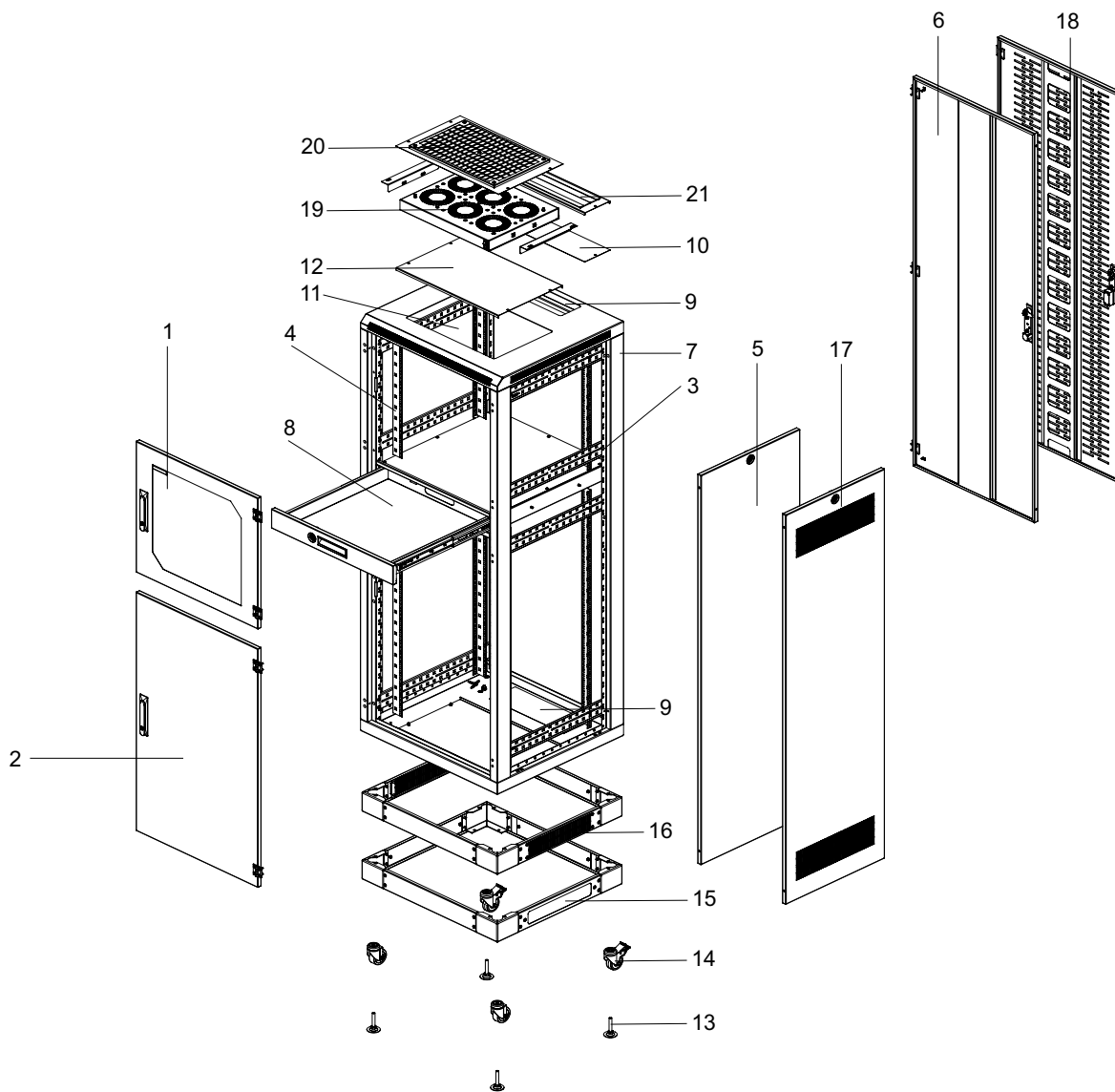
Description:

- Size 36U
- Width 650mm
- Depth 600 or 800mm
- Frame construction; 1.5mm, 2mm sheet steel
- Rack divided into three parts:
 - top; front tinted security glass door with swivel handle lock; height 12U
 - middle; pull-out shelf for keyboard and mouse with lock; height 2U »
 - bottom; sheet steel door with swivel handle lock; height 22U
- Rear sheet steel door with swivel handle lock
- Other doors, locks and side panels available optionally
- Door opening angle 180°
- Top and bottom parts equipped with two pairs of 19" vertical extrusions (possible to turn to 21" at installation site)
- Top and bottom openings for cable entry covered with removable blank panels
- Standard protection rating IP30; optionally IP54
- Color powder coated RAL (standard RAL 7035)



Standard equipment:

- 2 pairs of 19" (21") sliding vertical extrusions of 12U and 22U
- Pull-out shelf for keyboard and mouse with lock
- 1 pair of side panels with lock
- Tinted security glass front door (EN 12150-1) with swivel handle lock (top)
- Sheet steel door with swivel handle lock (bottom)
- 4 adjustable feet
- Rear sheet steel door with swivel handle lock
- GND/earthing kit
- 28 mounting kits



STANDARD EQUIPMENT		OPTIONAL EQUIPMENT (EXAMPLES)	
1	Glass door (upper compartment)	14	Castors - see page 89
2	Sheet steel door (lower compartment)	15	Plinth - see page 84
3	Holder of vertical extrusions (4 pairs)	16	Plinth with filter - see page 84
4	4 pairs of 19"/21" vertical extrusions	17	1 pair of side panels with perforation
5	1 pair of side panels	18	Perforated sheet steel door
6	Rear sheet steel door	19	Ventilation unit - see page 74
7	Frame of rack	20	Connecting kit with filter for ventilation unit - see page 75
8	Pull out drawer for keyboard and mouse	21	Dust-proof panel with brush - see page 86
9	Top and bottom cable entry openings		
10	Blank panels for cable entry openings		
11	Top and bottom openings for ventilation unit		
12	Blank panels for openings for ventilation unit		
13	Adjustable feet		

Code	H in Units	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg
		H*	W	D	Useful depth	H	W	D	
ROP-36-65/60	36	1721	650	600	590	1850	690	660	105
ROP-36-65/80	36	1721	650	800	790	1850	690	890	119

* Height in mm without feet; for feet add 16-45mm

19" DISTRIBUTION RACKS WITH SWING FRAME ROR SERIES

Distribution telecommunication and data racks are designed for installing patch panels, active components, etc. Usually used in places with difficult access from sides.

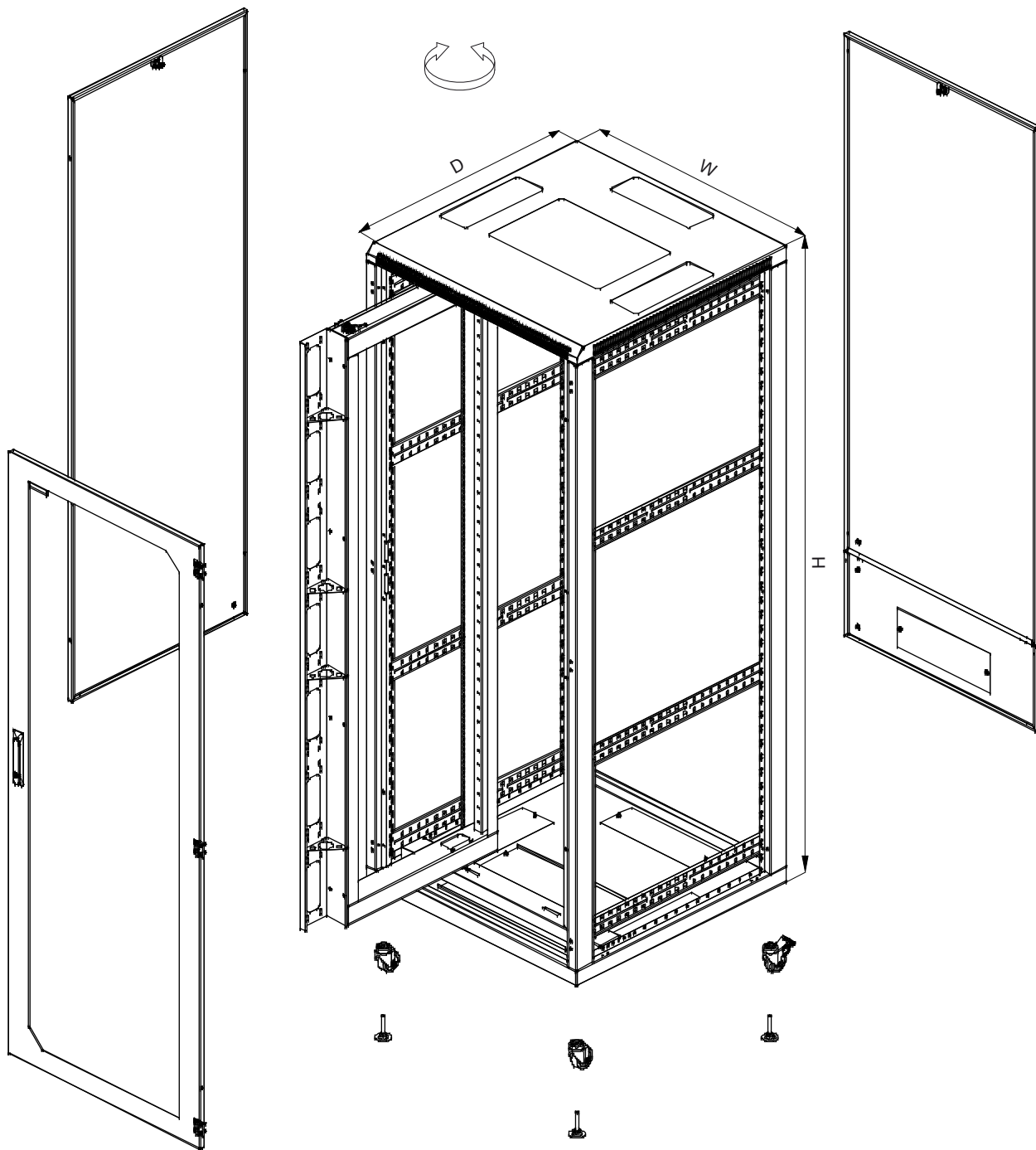


Description:

- Produced in sizes 27, 42, and 45U
- Useful height of swing frame 3U less than rack height
- Width 800mm
- Depth 600mm or 800mm
- Frame construction; 1.5mm, 2mm sheet steel
- Asymmetric frame placing – on left or right side of rack
 - max. useful depth 450mm
 - frame opening angle 90°
 - cover on side of swinging part perforated for easy cable management
- Load rating of swing frame max. 100kg; for load higher than 50kg stabilizer DP-ROF-FS-xx/yy is needed
- Locking of swing frame with top and bottom lock
- Color powder coated RAL (standard RAL 7035)
- Swing frame conductively connected with rack
- Possibility to install one pair of sliding 19" vertical extrusions in the rear of rack
- Types of doors and side panels same as ROF series
- Protection rating IP30

Standard equipment:

- 19" swing frame
- 1 pair of side panels with lock
- Tinted security glass front door (EN 12150-1) with swivel handle lock
- 4 adjustable feet
- Rear panel with module for cable entry
- GND/earthing kit
- 28 mounting kits



Code	H in Units (total/useful)	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg
		H*	W	D	Depth useful	H	W	D	
ROR-27-80/60	27/24	1321	800	600	450	1500	840	640	89
ROR-42-80/60	42/39	1988	800	600	450	2160	840	640	120
ROR-45-80/60	45/42	2121	800	600	450	2290	840	640	128
ROR-27-80/80	27/24	1321	800	800	450	1500	840	840	110
ROR-42-80/80	42/39	1988	800	800	450	2160	840	840	140
ROR-45-80/80	45/42	2121	800	800	450	2290	840	840	144

* Height in mm without feet; for feet add 16-45mm

RON-ROD

...to complete your network

...wall mounting racks



19" WALL-MOUNTING RACKS RON-ROD SERIES

19" wall-mounting telecommunication and data racks are designed for installing patch panels, active components, etc.



Description:

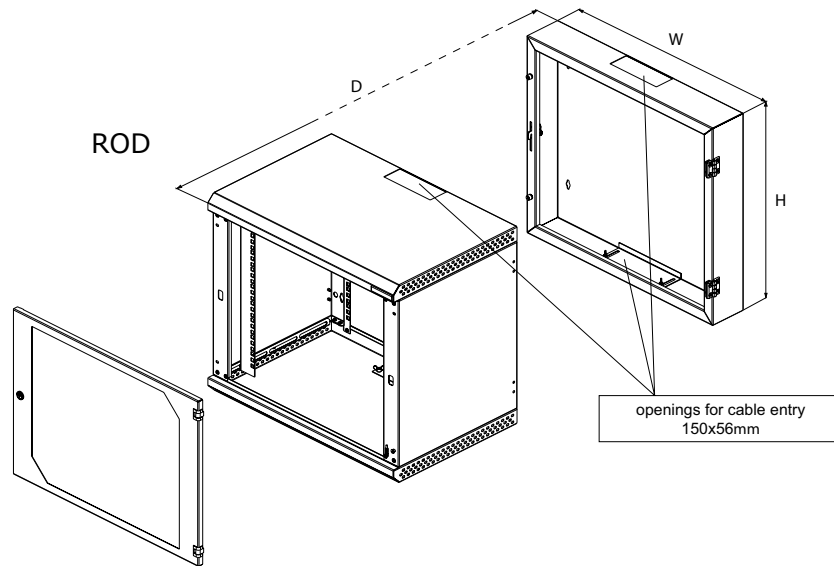
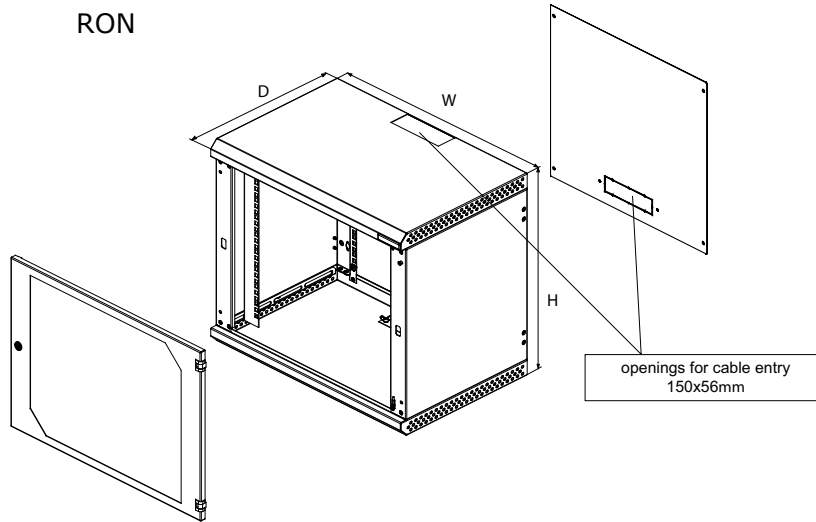
- Produced in sizes 4-18U
- Width 600mm
- Two types:
 - a) two-section; depth 400 or 600mm
 - b) three-section; depth 500mm, rear section with lock 100mm deep and swinging front section 400mm deep
- Self-supporting construction made of 1.25mm sheet steel
- Additional holes in rear part for installing 19" components when rack used without rear panel
- Color powder coated RAL (standard RAL 7035)
- Tinted security glass (EN 12150-1) or sheet steel door
- Reversible door - easy re-hanging to open on right or left (at installation site)
- Door opening angle 180°
- Top and bottom openings for cable entry, size 150x56mm, covered with sliding blank panel with butterfly nuts (DP-DB-200x68) »
- Variable openings in relation to number of entering cables
- Cable entries on rear edge of enclosure for straight cable path alongside wall
- Three-section racks have top and bottom openings also in rear section
- Front pair of sliding 19" extrusions, possibility to add extra pair of extrusions (DP-LV-N-xx)* »
- Top and bottom covers perforated for more effective ventilation
- Mounting holes for wall installation on the back
- GND/earthing kit »
- Protection rating IP20
- Load rating max. 40kg balanced load

Standard equipment:

- 1 pair of sliding 19" vertical extrusions
- Tinted security glass door (EN 12150-1) with lock
- GND/earthing kit
- 16 mounting kits

* Use height in U (04, 06, 09, 12, 15, 18) instead of xx





Code	H in Units	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg
		H	W	D	Useful depth	H	W	D	
RON-04-60/40	4	300	600	400	370	325	625	435	15
RON-06-60/40	6	388	600	400	370	413	625	435	17
RON-09-60/40	9	521	600	400	370	546	625	435	20
RON-12-60/40	12	655	600	400	370	680	625	435	24
RON-15-60/40	15	788	600	400	370	813	625	435	27
RON-18-60/40	18	921	600	400	370	946	625	435	30
RON-06-60/60	6	388	600	600	570	413	625	635	21
RON-09-60/60	9	521	600	600	570	546	625	635	24
RON-12-60/60	12	655	600	600	570	680	625	635	30
RON-15-60/60	15	788	600	600	570	813	625	635	31
RON-18-60/60	18	921	600	600	570	946	625	635	38
ROD-04-60/50	4	300	600	500	470	325	625	535	18
ROD-06-60/50	6	388	600	500	470	413	625	535	21
ROD-09-60/50	9	521	600	500	470	546	625	535	25
ROD-12-60/50	12	655	600	500	470	680	625	535	29
ROD-15-60/50	15	788	600	500	470	813	625	535	33
ROD-18-60/50	18	921	600	500	470	946	625	535	37

19" WALL-MOUNTING RACKS RUN-RUD SERIES

19" wall-mounting telecommunication and data racks are designed for installing patch panels, active components, etc.



Description:

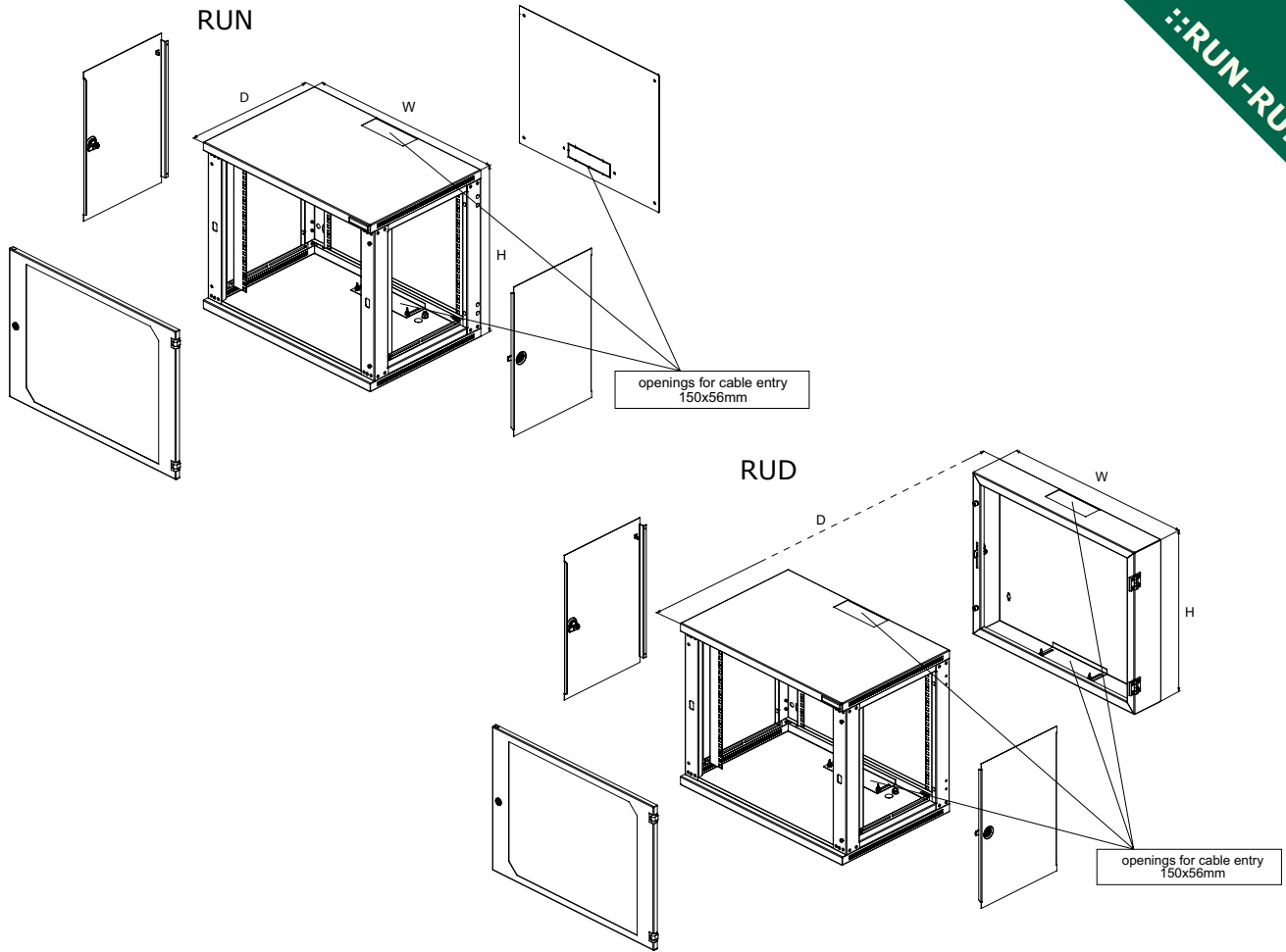
- Produced in sizes 4-18U
- Removable and lockable side panels - easy access to installed equipment
- Width 600mm
- Three types:
 - a) two-section; depth 400 or 500mm
 - b) two-section; depth 600mm
 - c) three-section; depth 500mm, rear section with lock 100mm deep and swinging front section 400mm deep
- Self-supporting construction made of 1.25mm sheet steel »
- Reinforcement of riveted joint – higher rigidity of construction
- Color powder coated RAL (standard RAL 7035)
- Tinted security glass (EN 12150-1) or sheet steel door
- Reversible door - easy re-hanging to open on right or left (at installation site)
- Door opening angle 180°
- Top and bottom openings for cable entry, size 150x56mm, covered with sliding blank panel with butterfly nuts (DP-DB-200x68) »
- Variable openings in relation to number of entering cables
- Cable entries on rear edge of enclosure for straight cable path alongside wall
- Three-section racks have top and bottom openings also in rear section
- Front pair of sliding 19" extrusions, possibility to add extra pair of extrusions (DP-LV-N-xx)* »
- Additional fixed vertical extrusions in rear part for installing 19" components when rack used without rear panel »
- Top and bottom covers perforated for more effective ventilation
- Mounting holes for wall installation on the back
- GND/earthing kit
- Load rating max. 40kg or 30kg (600mm depth) balanced load
- Protection rating IP30

Standard equipment:

- 1 pair of sliding 19" vertical extrusions
- 2 removable side panels with lock
- Tinted security glass door (EN 12150-1) with lock
- GND/earthing kit
- 16 mounting kits

* Use requested height in U (04, 06, 09, 12, 15, 18) instead of xx





LOAD RATING 30KG

Code	H in Units	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg
		H	W	D	Useful depth	H	W	D	
RUN-06-60/60	6	358	603	600	580	378	620	630	20
RUN-09-60/60	9	491	603	600	580	510	620	630	26
RUN-12-60/60	12	624	603	600	580	645	620	630	29
RUN-15-60/60	15	758	603	600	580	778	620	630	33
RUN-18-60/60	18	891	603	600	580	910	620	630	39

LOAD RATING 40KG

Code	H in Units	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg
		H	W	D	Useful depth	H	W	D	
RUN-04-60/40	4	267	600	400	380	290	620	430	14
RUN-06-60/40	6	358	600	400	380	378	620	430	16
RUN-09-60/40	9	491	600	400	380	510	620	430	20
RUN-12-60/40	12	624	600	400	380	645	620	430	23
RUN-15-60/40	15	758	600	400	380	778	620	430	27
RUN-18-60/40	18	891	600	400	380	910	620	430	33
RUN-04-60/50	4	267	600	500	480	290	620	530	16
RUN-06-60/50	6	358	600	500	480	378	620	530	18
RUN-09-60/50	9	491	600	500	480	510	620	530	23
RUN-12-60/50	12	624	600	500	480	645	620	530	26
RUN-15-60/50	15	758	600	500	480	778	620	530	30
RUN-18-60/50	18	891	600	500	480	910	620	530	36
RUD-04-60/50	4	267	600	500	490	290	620	530	16
RUD-06-60/50	6	358	600	500	490	378	620	530	20
RUD-09-60/50	9	491	600	500	490	510	620	530	24
RUD-12-60/50	12	624	600	500	490	645	620	530	28
RUD-15-60/50	15	758	600	500	490	778	620	530	32
RUD-18-60/50	18	891	600	500	490	910	620	530	40

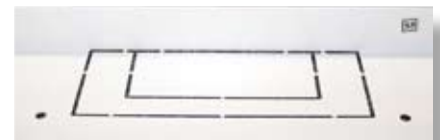
19" WALL-MOUNTING RACKS REN SERIES

19" wall-mounting telecommunication and data racks designed for installing patch panels, active components, etc.



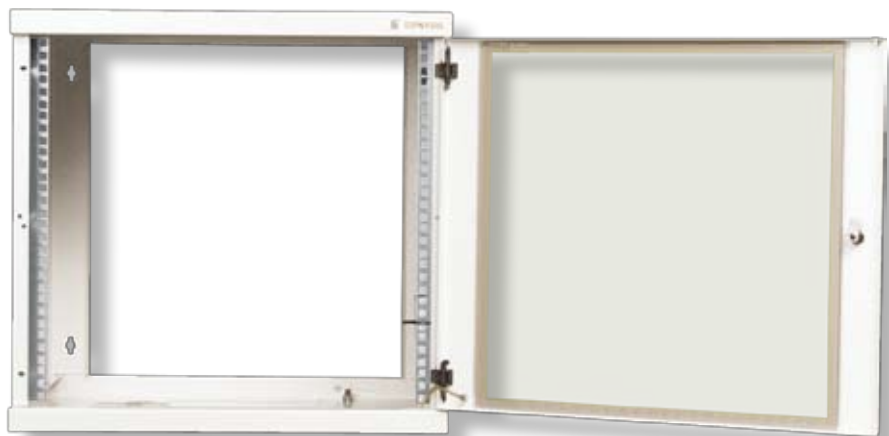
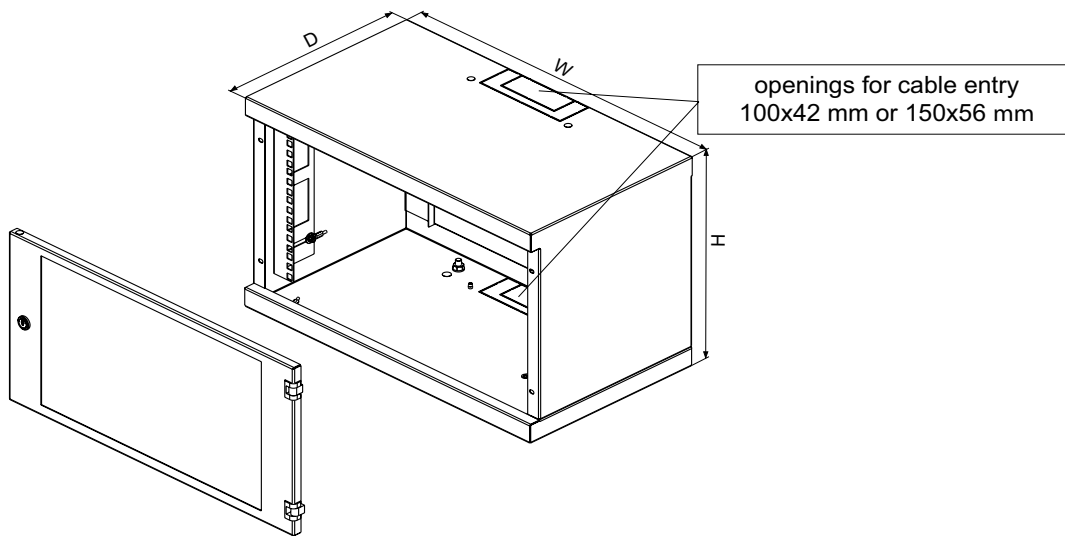
Description:

- Three types:
 - a) height 6U; depth 300mm
 - b) height 6, 10, and 15U; depth 400mm
 - c) height 6, 10, and 15U; depth 500mm
- Width 530mm
- Color powder coated RAL (standard RAL 7035)
- Tinted security glass (EN 12150-1) or sheet steel door
- Reversible door - easy re-hanging to open on right or left (at installation site)
- Door opening angle 180°
- Top and bottom knock-out openings for cable entry; size 100x42mm or 150x56mm »
- Cable entries on rear edge of enclosure for straight cable path alongside wall
- Openings can be covered with sliding blank panels - DP-BP-200x68 (not included)
- No rear panel
- Two sliding 19" vertical extrusions - sliding distance 0 to 60mm »
- Mounting holes for wall installation on the back
- GND/earthing kit
- Load rating max. 20kg balanced load
- Protection rating IP30



Standard equipment:

- 1 pair of sliding 19" vertical extrusions
- Tinted security glass door (EN 12150-1) with lock
- GND/earthing kit
- 16 mounting kits



Code	H in Units	Dimensions in mm				Dimensions including packing in mm			Gross weight in kg
		H	W	D	Useful depth	H	W	D	
REN-06-60/30	6	332	530	300	250	350	555	339	9
REN-06-60/40	6	332	530	400	350	350	555	439	10
REN-10-60/40	10	510	530	400	350	535	555	439	12
REN-15-60/40	15	732	530	400	350	758	555	439	16
REN-06-60/50	6	332	530	500	450	350	555	539	11
REN-10-60/50	10	510	530	500	450	535	555	539	13
REN-15-60/50	15	732	530	500	450	758	555	539	17,5

A worker wearing a white protective suit and a clear face shield is using a heat gun on a network rack. The rack is filled with various network components, including cables and connectors. The background shows a large industrial or data center environment with metal structures and blue lighting.

...to complete your network

■■■ accessories

19" SHELVES

Used for storing equipment, which is not mounted on 19" vertical extrusions.

Description:

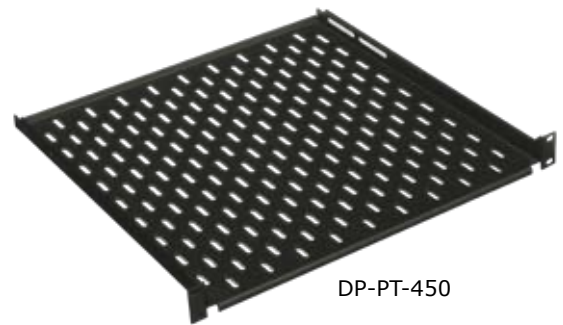
- Whole surface perforated for effective ventilation
- Color powder coated RAL (standard RAL 9005)
- Types:
 - a) fixed lite, code DP-PT
 - b) fixed, code DP-PO
 - c) pull-out, code DP-PO-V
 - d) pull-out, high load, code DP-PZ-V
 - e) keyboard holders, code DP-PV
 - f) fixed high load, code DP-PZ
- Pull-out drawer DP-DD suitable for document storage

19" FIXED LITE SHELVES SERIES DP-PT

Description:

- Made of 1.5mm sheet steel
- Supporting brackets included
- Load rating max. 20kg balanced load; maximum load rating decreased to 25% when mounted only on front pair of vertical extrusions (shelves depth 150, 250, and 350mm)
- Longer supporting bracket DP-PO-PD can be used

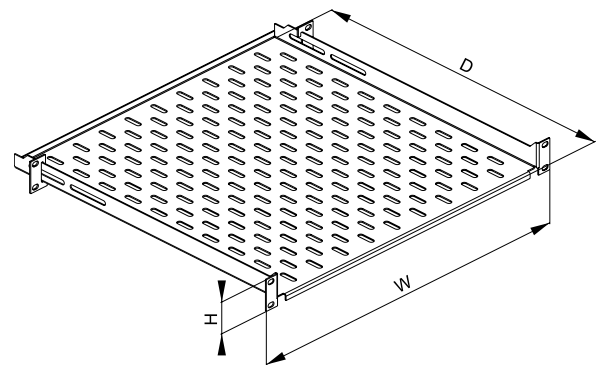
See page 55 – Supporting brackets



DP-PT-450

SHELVES SERIES DP-PT			
Code	W	D in mm	H
DP-PT-150	19"	150	1U
DP-PT-250	19"	250	1U
DP-PT-350	19"	350	1U
DP-PT-450	19"	450	1U
DP-PT-550	19"	550	1U
DP-PT-650	19"	650	1U
DP-PT-750*	19"	750	1U
DP-PT-850*	19"	850	1U

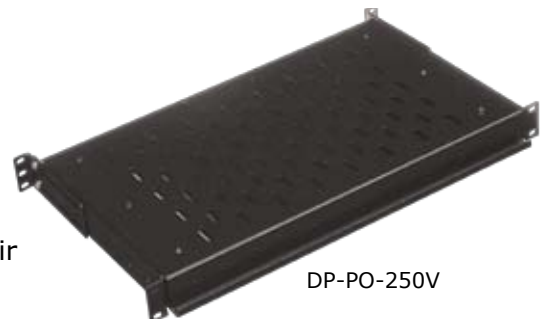
* Using of supporting brackets recommended



19" PULL-OUT SHELVES SERIES DP-PO-V

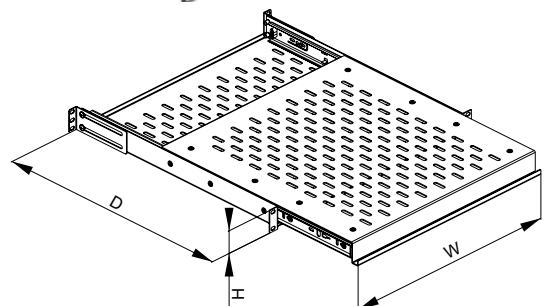
Description:

- Made of 1.5mm sheet steel
- Height 1U
- Equipped with one pair of side telescopic rails
- Supporting brackets included
- Load rating max. 25kg balanced load; maximum load rating decreased to 25% when mounted only on front pair of vertical extrusions (shelves depth 250 and 350mm)



DP-PO-250V

SHELVES SERIES DP-PO-V			
Code	W	D in mm	H
DP-PO-250V	19"	250	1U
DP-PO-350V	19"	350	1U
DP-PO-450V	19"	450	1U
DP-PO-550V	19"	550	1U
DP-PO-650V	19"	650	1U
DP-PO-750V	19"	750	1U



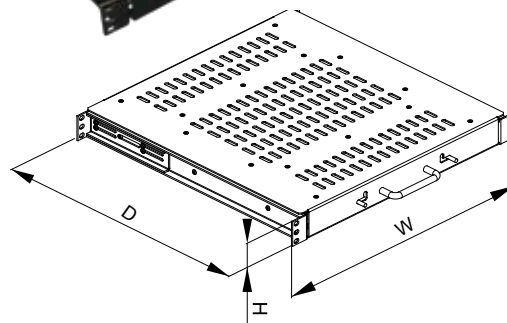
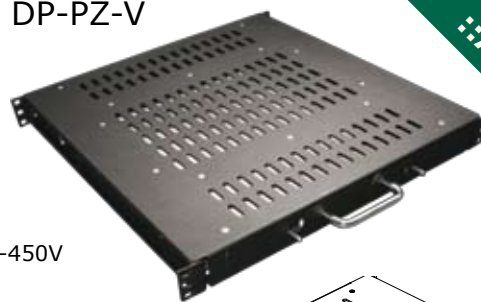
19" PULL-OUT HIGH LOAD SHELVES SERIES DP-PZ-V

Accessories

Description:

- Made of 2mm, 2.5mm sheet steel
- Height 1U
- Max. pull-out 450mm
- Load rating max. 80kg balanced load

DP-PZ-450V



SHELVES SERIES DP-PZ-V			
Code	H in U	W	D in mm
DP-PZ-450V	1	19"	505
DP-PZ-550V	1	19"	605

19" FIXED SHELVES SERIES DP-PO

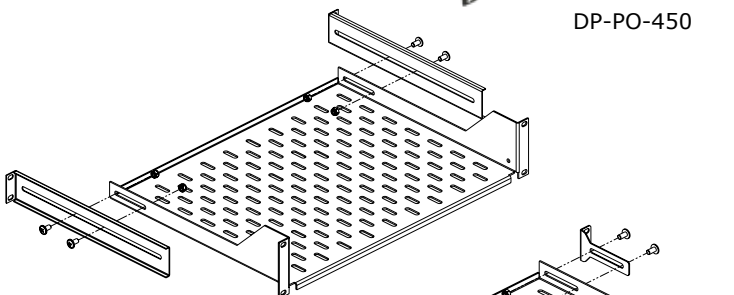
Description:

- Made of 2mm sheet steel
- Possibility of adding supporting brackets
- Load rating max. 15kg balanced load (when mounted only on front pair of vertical extrusions - shelves depth 150, 250, and 350mm); can be increased up to 60kg when supporting brackets applied (ordered separately)

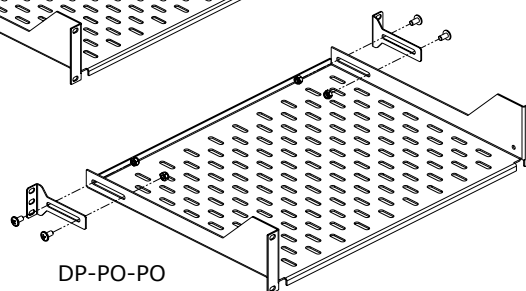
SHELVES SERIES DP-PO			
Code	W	D in mm	H
DP-PO-150	19"	150	1U
DP-PO-250	19"	250	1U
DP-PO-350	19"	350	2U
DP-PO-450	19"	450	2U
DP-PO-550	19"	550	2U
DP-PO-650	19"	650	2U
DP-PO-750	19"	750	2U
DP-PO-850	19"	850	2U



DP-PO-450



DP-PO-PD



DP-PO-PO

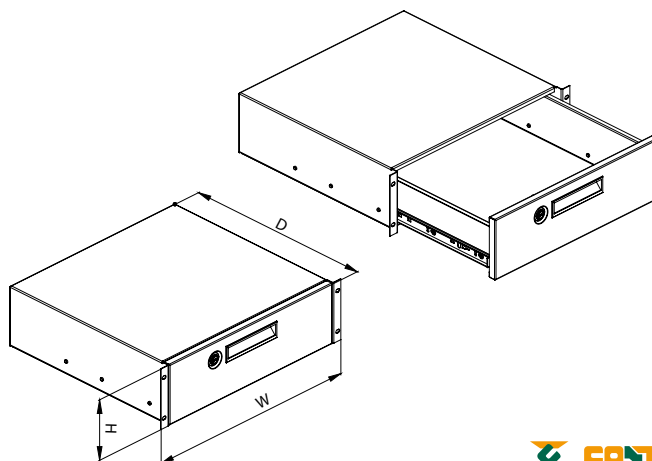
SUPPORTING BRACKETS				
Code	Type	Packing	Length in mm	Height
DP-PO-PO	Standard	1 PAIR	88	1U
DP-PO-PD	Extended	1 PAIR	298	1U

19" PULL-OUT DRAWER DP-DD

Description:

- Made of 1.25 and 1.5mm sheet steel
- Height 3U
- Max. pull-out distance 280mm
- Load rating max. 10kg balanced load

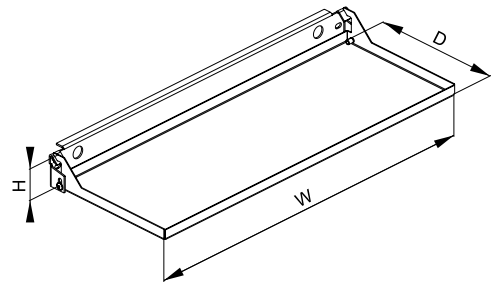
19" PULL-OUT DRAWER			
Code	H in U	W	D in mm
DP-DD-03	3	19"	430



19" FOLDING KEYBOARD HOLDER SERIES DP-PV

Description:

- Enables keyboard placement in front of sliding vertical extrusions
- Max. keyboard size 480x175mm
- Height 1U
- Fix keyboard to shelf using self-adhesive velcro - 8 pcs of size 12 x 25mm included



19" FOLDING HOLDER FOR KEYBOARD		
Code	W	H
DP-PV-01	19"	1U

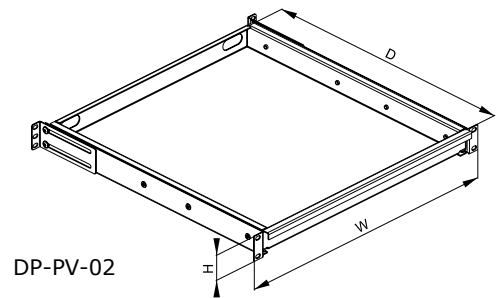


19" PULL-OUT KEYBOARD HOLDER SERIES DP-PV

Description:

- Made of 1.5mm sheet steel
- Max. keyboard width 400mm and height 36mm
- Depth of shelf 480mm
- Max. pull-out distance 330mm
- Supporting brackets included

19" PULL-OUT HOLDER FOR KEYBOARD			
Code	W	D in mm	H
DP-PV-02	19"	480	1U

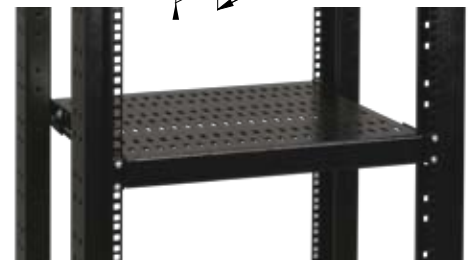
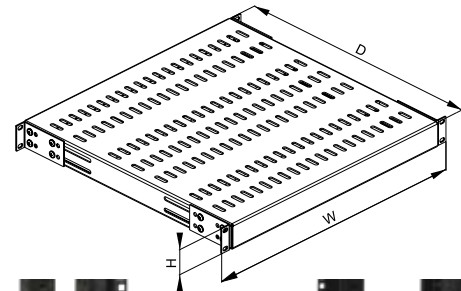


19" FIXED HIGH-LOAD SHELVES SERIES DP-PZ

Description:

- Made of 2mm sheet steel, strengthened by two metal bars
- Four supporting brackets for mounting on vertical extrusions included
- Load rating max. 100kg balanced load

19" SHELVES SERIES DP-PZ			
Code	W	D in mm	H
DP-PZ-450	19"	450	1U
DP-PZ-550	19"	550	1U
DP-PZ-650	19"	650	1U
DP-PZ-750	19"	750	1U
DP-PZ-850	19"	850	1U



SUPPORTING RAILS AND ADAPTORS

Accessories

SUPPORTING RAILS

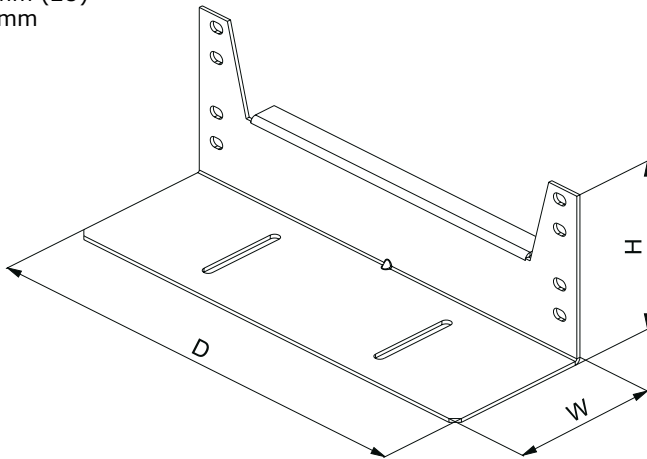
Used for supporting equipment in rack.

Description:

- Made of 2mm sheet steel
- Mounting on side holes of vertical extrusions with mounting kits DP-MO-01 (not included)
- Color powder coated RAL (standard RAL 9005)
- Space between rails provides effective cooling of installed active devices
- Load rating max. 50kg balanced load

SUPPORTING RAILS		
Code	Distance between front and rear vertical extrusions (mm)	Depth (D)
DP-DU-300	300	242
DP-DU-400	400	342
DP-DU-500	500	442
DP-DU-600	600	542
DP-DU-700	700	642
DP-DU-800	800	742
DP-DU-900	900	842
DP-DU-1000	1000	942

H - 88mm (2U)
W - 80mm



Rack	max. DP-DU
ROF 60/60	500
ROF 60/80	700
ROF 60/100	900
ROF 60/110	1000 *
ROF 60/120	1000 *
ROF 80/60	400
ROF 80/80	600
ROF 80/100	800
ROF 80/110	900
ROF 80/120	1000
RHF 80/100	800
RMF 60/60	500
RMF 60/80	700
RMF 60/100	900
RMF 80/80	600
RMF 80/100	800
ROS 65/90	800
ROS 65/100	900
RSB 60/90	700
ROP 65/60	500
ROP 65/80	700

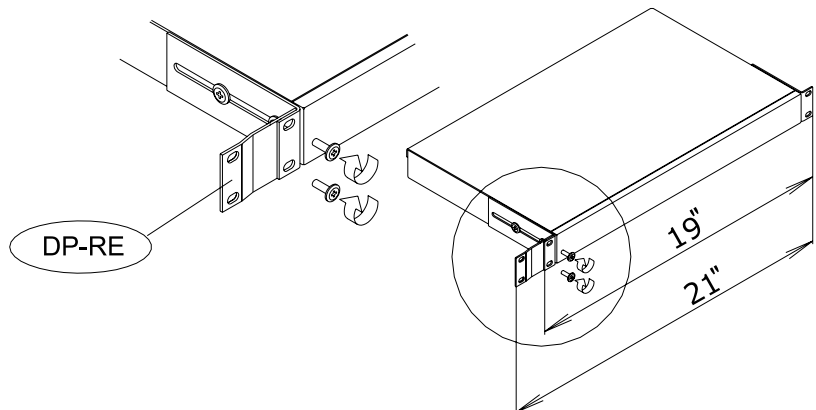
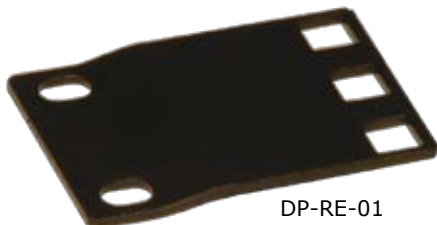
* Not available for L-profiles



21" ADAPTORS

Allow use of 19" equipment in 21" rack.

21" ADAPTORS	
Code	H in Units
DP-RE-01	1
DP-RE-02	2
DP-RE-03	3



SOCKET PANELS

Used for connecting electric devices to power source 230V/50HZ.

Description:

- Types:
 - a) 19" mounting
 - b) 10" mounting
 - c) free standing
- Outlets type UTE, SCHUKO, UK, IEC320 C13, IEC320 C19
- Other outlet types in combination with surge protection and ammeter also available
- Power output:
 - SCHUKO, UTE, IEC320 C19: 16A, 250V
 - UK: 13A, 250V
 - IEC320 C13: 10A, 250V

SOCKET PANELS						
Code	Mounting	H in Units	Type	Number of outlets	Overvoltage protection	Switch
DP-RP-02-UK	10"	1U	UK	2	No	No
DP-RP-03-UTE	10"	1U	UTE	3	No	No
DP-RP-03-SCHU	10"	1U	SCHUKO	3	No	No
DP-RP-06-UTESP	19"	2U	UTE	6	Yes	Yes
DP-RP-06-SCHUSP	19"	2U	SCHUKO	6	Yes	Yes
DP-RP-06-UTESP-F	free	-	UTE	6	Yes	Yes
DP-RP-06-SCHUSP-F	free	-	SCHUKO	6	Yes	Yes
DP-RP-06-UKS	19"	1U	UK	6	No	Yes
DP-RP-07-UK	19"	1U	UK	7	No	No
DP-RP-08-UTES	19"	1U	UTE	8	No	Yes
DP-RP-08-SCHUS	19"	1U	SCHUKO	8	No	Yes
DP-RP-09-UTE	19"	1U	UTE	9	No	No
DP-RP-09-SCHU	19"	1U	SCHUKO	9	No	No
DP-RP-09-IECC19	19"	1U	IEC320 C19	9	No	No
DP-RP-12-IECC13	19"	1U	IEC320 C13	12	No	No
DP-RP-20-IECC19	vertical	-	IEC320 C19	20	No	No
DP-RP-20-IECC13	vertical	-	IEC320 C13	20	No	No
DP-RP-20-SCHUV	vertical	-	SCHUKO	20	No	No
DP-RP-20-UTEV	vertical	-	UTE	20	No	No



DP-RP-09-UTE



DP-RP-09-SCHU



DP-RP-12-IECC13

19" LIGHTING UNIT

::Accessories



Used to provide light in rack.

Description:

- Consists of
 - fixed part for installation in 19" racks
 - telescopic part with fluorescent tube 230V/50Hz with switch
- Color powder coated RAL (standard RAL 9005)
- Code: DP-OJ-01



19" LIGHTING UNIT DP-OJ-01

		FRONT VIEW	REAR VIEW
		TOP VIEW	BOTTOM VIEW
BASIC POSITION			150mm
			180mm
WORKING POSITION			330mm
			330mm

FIBER-OPTIC SPLICE BOXES

19" FIBER-OPTIC SPLICE BOXES

Used for termination of optical cables in racks.

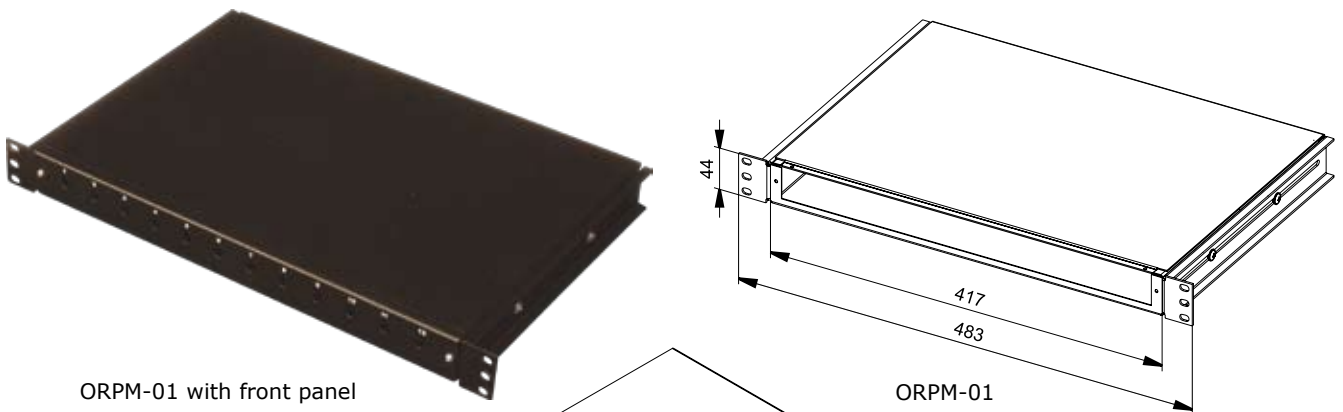
Description:

- Types:
 - a) fixed
 - b) telescopic
- Height 1U
- Modular front panels not included - see table on page 55
- 16 (max.24) positions for FO couplings
- Cable entry openings in rear part
- Holes not in use can be covered with blank modules
- Installation in rack with two sliding holders
- Installation kit for splice cassettes and inner organizer included
- Wide range of accessories (optionally)
- Color powder coated RAL (standard RAL 9005)

19" FIBER-OPTIC SPLICE BOXES				
Code	W	D in mm	H	Description
ORPM-01	19"	300	1U	Fixed
ORVM-01	19"	320	1U	Telescopic

19" FIXED FIBER-OPTIC SPLICE BOX

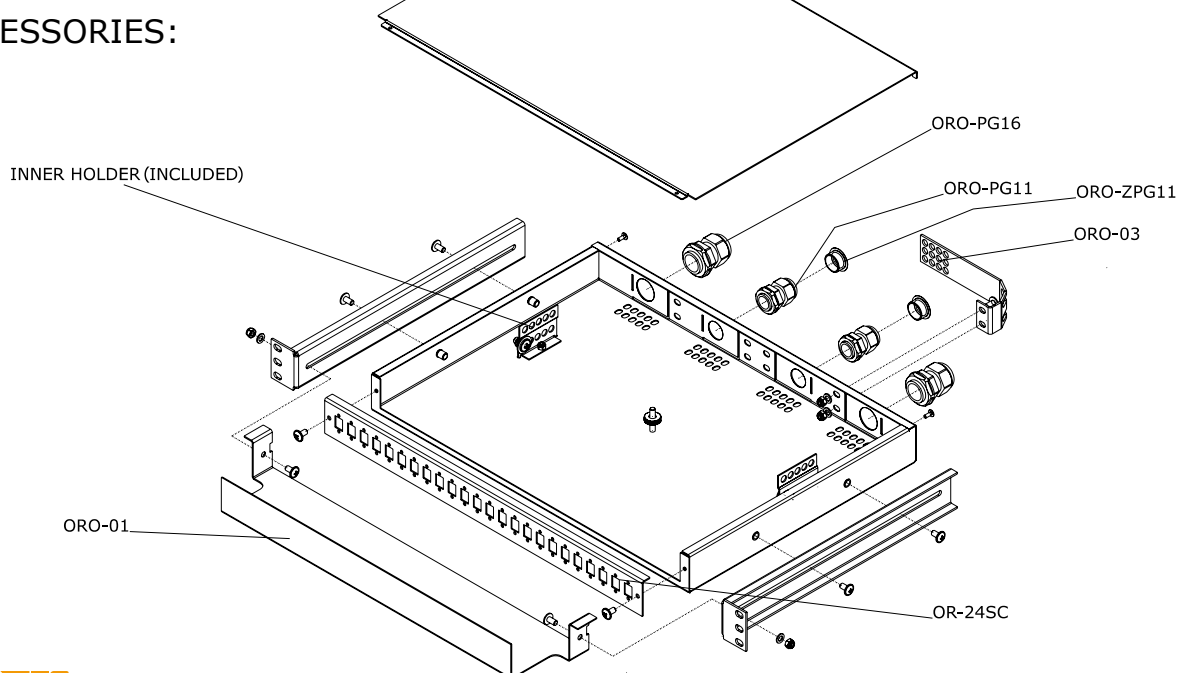
.....



ORPM-01 with front panel

ORPM-01

ACCESSORIES:

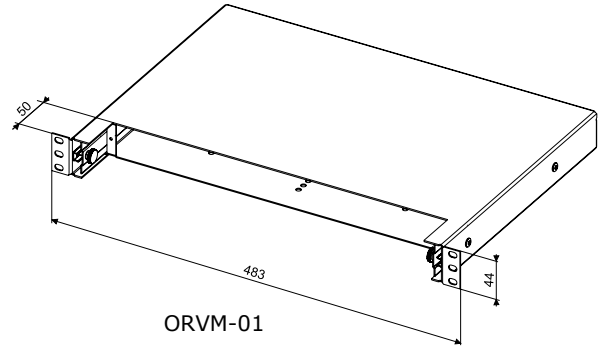


19" TELESCOPIC FIBER-OPTIC SPLICE BOX

Accessories

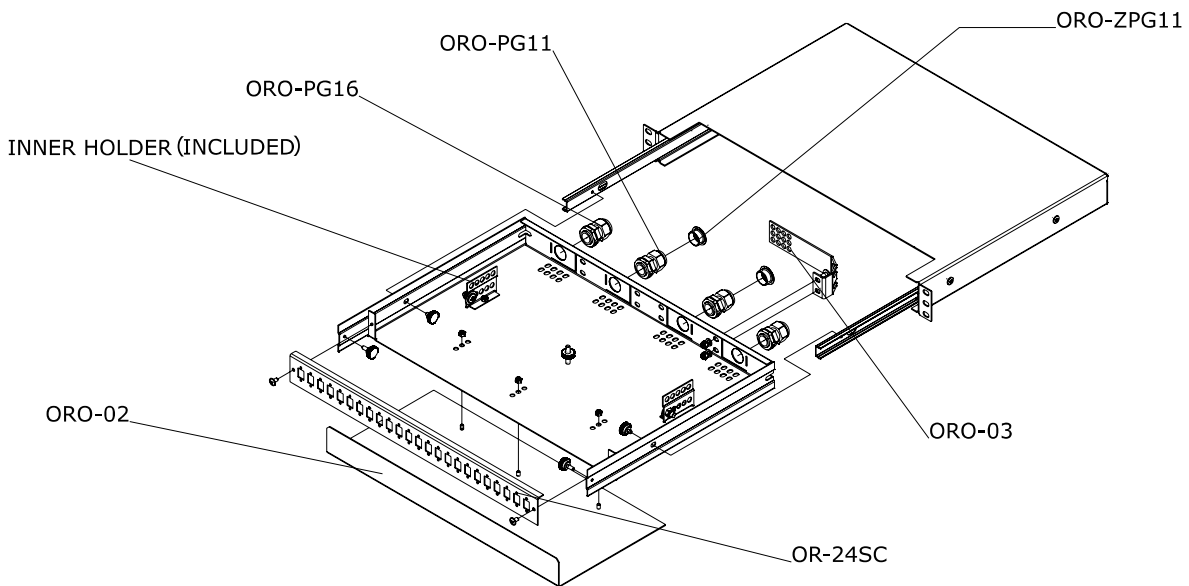


ORVM-01 with front panel



ORVM-01

ACCESSORIES:



ACCESSORIES FOR FIBER-OPTIC SPLICE BOXES	
Code	Description
ORO-K2000	Splice cassette
ORO-PG11	PG11 coupling
ORO-PG16	PG16 coupling
ORO-ZPG11	Cover of opening for PG11 coupling
ORO-ZPG16	Cover of opening for PG16 coupling
ORO-01	Front organizer for ORPM
ORO-02	Front organizer for ORVM
ORO-03	Rear organizer

TYPES OF MODULAR FRONT PANELS				
Code	NUMBER OF HOLES FOR FO COUPLINGS			
	8	12	16	24
OR-xxST	yes	yes	yes	yes
OR-xxSC	yes	yes	yes	yes
OR-xxDSC	yes	yes	yes	no
OR-xxFC	yes	yes	yes	yes
OR-xxFCD	yes	yes	yes	yes

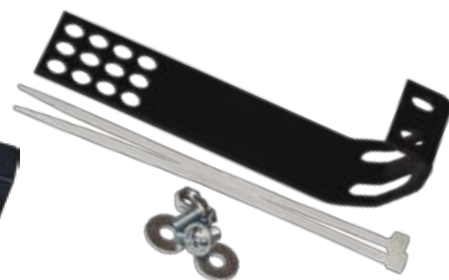
xx... Number of holes



ORO-01



ORO-02



ORO-03



ORO-K2000



ORO-PG16



ORO-ZPG16

WALL-MOUNTING FIBER-OPTIC SPLICE BOXES

Wall-mounting fiber-optic splice boxes are used for termination of optical cables.

Description:

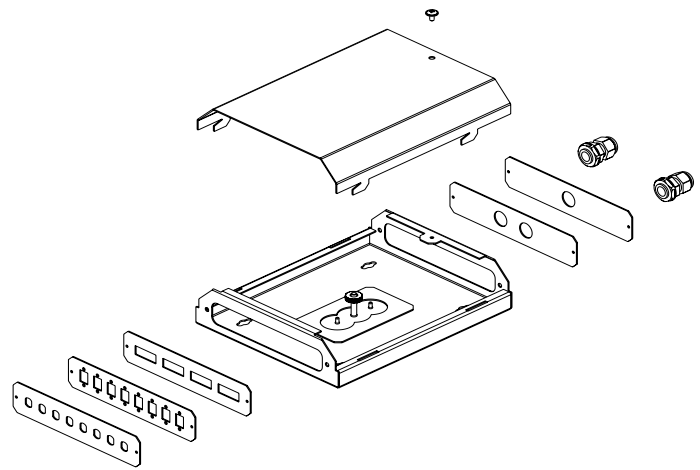
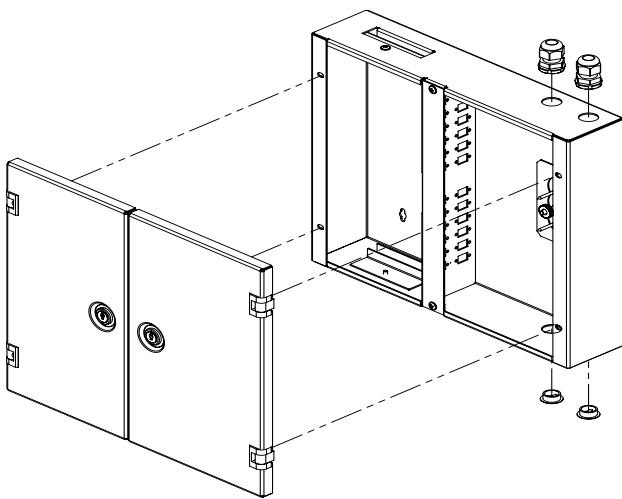
- Types:
 - a) double - size 350x300mm; equipped with double-leaf door and lock
 - b) single - size 300x180mm or 220x180mm
- Modular panels with holes for couplings - see table on page 57
- In double FO splice-box up to 24 positions for ST or SC or FC or 12 DSC or FCD adapters
- In single FO splice-box up to 8 positions for ST or SC or FC or 4 DSC or FCD adapters
- Holes not in use can be covered with blank modules
- Cable entry through PG couplings (PG 9 for ORN-01 and PG 11 for ORN-02)
- Installation kit for splice cassette (ORO-K2000) included
- Color powder coated RAL (standard RAL 7035)

WALL-MOUNTING FIBER-OPTIC SPLICE BOXES		
Code	Type	Sizes W x H in mm
ORN-02-35/30	Double	350 x 300
ORN-01-30/18	Single	300 x 180
ORN-01-22/18	Single	220 x 180



ORN-02-35/30

ORN-02-35/30 equipped with ORN-24SC



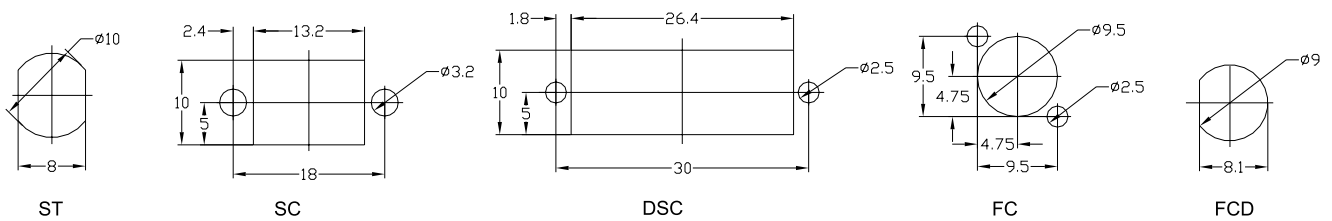
PANELS FOR WALL-MOUNTING FIBER-OPTIC SPLICE BOXES	
ORN-02-35/30	ORN-01-30/18 and ORN-01-22/18
ORN-24ST	ORN-M-8ST
ORN-24SC	ORN-M-8SC
ORN-12DSC	ORN-M-4DSC
ORN-24FC	ORN-M-1PG
ORN-12FCD	ORN-M-2PG
	ORN-M-8FC
	ORN-M-4FCD



ORN-01-30/18



ORN-01-22/18



Types of holes for fiber-optic connectors

PLASTIC CABLE BRACKETS

Mounted on 19" vertical extrusions for management of horizontal and vertical cabling within the rack.

Description:

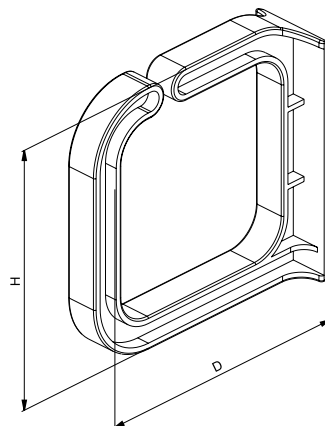
- Types:
 - a) for managing vertical cables
 - b) for managing horizontal cables
- Equipped with metal flange for installing on 19" vertical extrusions
- Color powder coated RAL (standard RAL 9005); brackets black



VO-P1-40/50	VO-P5-40/80	VO-P3-80/60	VO-P7-80/80
VO-P2-40/50	VO-P6-40/80	VO-P4-80/60	VO-P8-80/80
VO-40/50	VO-40/80	VO-80/60	VO-80/80

PLASTIC CABLE BRACKETS			
Code	H in mm	D in mm	Orientation
VO-P1-40/50	40	50	Horizontal
VO-P2-40/50	40	50	Vertical
VO-P3-80/60	80	60	Horizontal
VO-P4-80/60	80	60	Vertical
VO-P5-40/80	40	80	Horizontal
VO-P6-40/80	40	80	Vertical
VO-P7-80/80	80	80	Horizontal
VO-P8-80/80	80	80	Vertical

H...height
D...depth

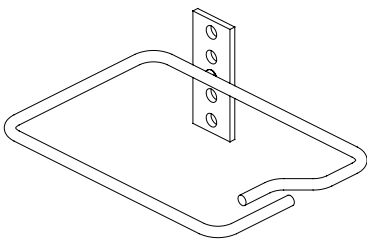
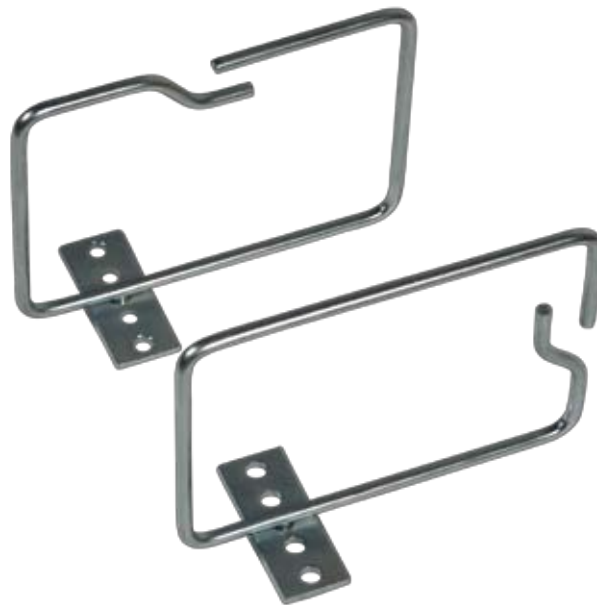


METAL CABLE BRACKETS

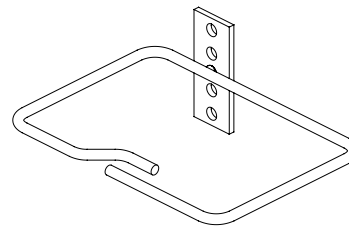
Mounted on 19" vertical extrusions and used for vertical cable management in racks.

Description:

- For vertical cable management
- Dimensions 100x140mm
- Flange with 4 holes for installing on front or side of 19" vertical extrusion
- Zinc plated
- Each code contains 10pcs of brackets
- Front or side cable entry



VO-W1-100/140 - side cable entry



VO-W2-100/140 - front cable entry

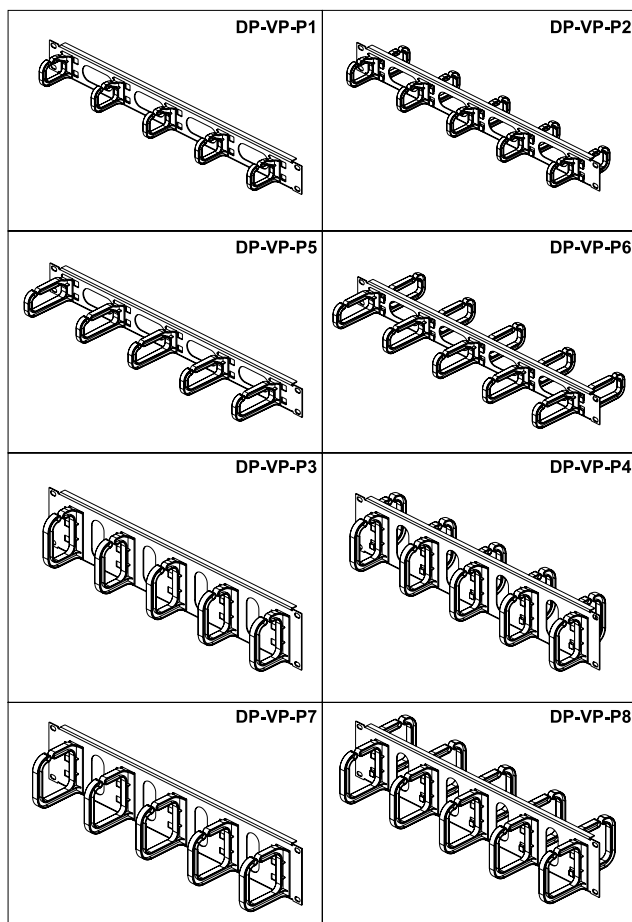
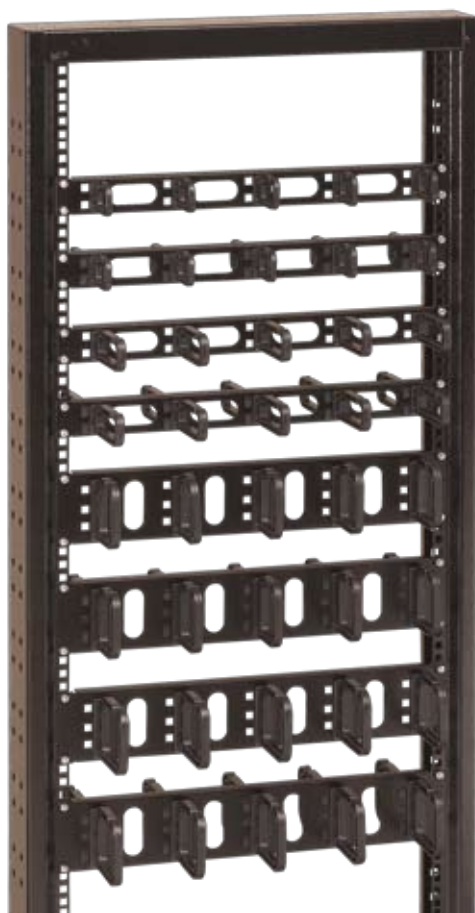
METAL CABLE BRACKETS				
Code	Dimensions in mm		Cable entry	Qty
	W	D		
VO-W1-100/140	140	100	side	10 pcs
VO-W2-100/140	140	100	front	10 pcs

19" WIRE MANAGEMENT PANELS WITH PLASTIC BRACKETS

Used for storing and managing cables horizontally within the rack.

Description:

- Height 1U or 2U
- Available in "front only" and "front and rear" types
- 5 plastic brackets per side
- Oval openings in panel allow front to rear cabling
- Color powder coated RAL (standard RAL 9005); brackets black



19" WIRE MANAGEMENT PANELS WITH PLASTIC BRACKETS				
Code	H	Type	Hook sizes H x D in mm	Number of brackets
DP-VP-P1	1U	Front only	40 x 50	5
DP-VP-P2	1U	Both sides	40 x 50	10
DP-VP-P3	2U	Front only	80 x 60	5
DP-VP-P4	2U	Both sides	80 x 60	10
DP-VP-P5	1U	Front only	40 x 80	5
DP-VP-P6	1U	Both sides	40 x 80	10
DP-VP-P7	2U	Front only	80 x 80	5
DP-VP-P8	2U	Both sides	80 x 80	10

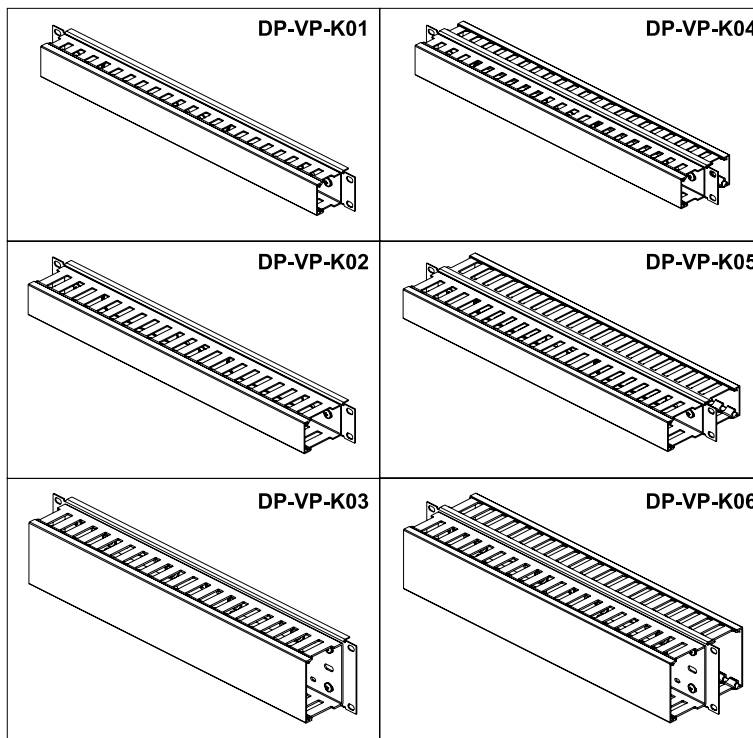
H...height
D...depth

19" WIRE MANAGEMENT PANELS WITH PLASTIC DUCT

Used for storing and managing cables horizontally within the rack.

Description:

- Height 1U or 2U
- Available in "front only" and "front and rear" types
- Plastic duct for cable managing
- Oval openings in panel allow front to rear cable passing
- Color powder coated RAL (standard RAL 9005); ducts are black



19" WIRE MANAGEMENT PANELS - PLASTIC			
Code	H	Type	Duct sizes H x D in mm
DP-VP-K01	1U	Front only	40 x 40
DP-VP-K02	1U	Front only	40 x 60
DP-VP-K03	2U	Front only	80 x 60
DP-VP-K04	1U	Both sides	40 x 40
DP-VP-K05	1U	Both sides	40 x 60
DP-VP-K06	2U	Both sides	80 x 60

H...Height
D...Depth

CABLE MANAGEMENT SYSTEM FOR FREE-STANDING RACKS

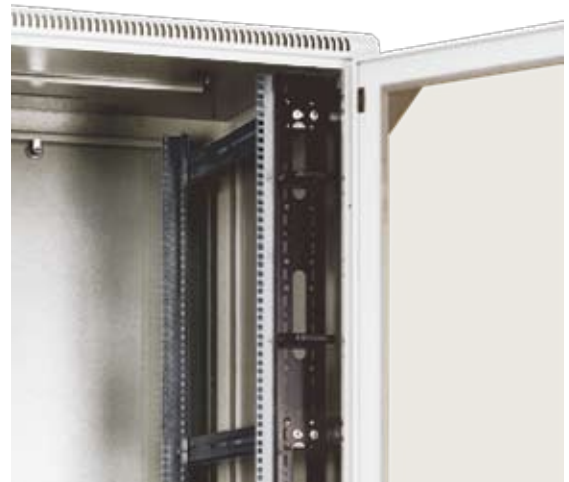
HOLDERS OF VERTICAL WIRE MANAGEMENT PANELS AND CABLE BRACKETS

Description:

Used for installation of vertical wire management panels and cable brackets (ordered separately) in racks ROF, RSL, REV, and RMF series width 800mm

- For REV series special connecting kit HVM-H-REV needed
- For RSL series special connecting kit HVM-H-RSL needed
- Set includes 2 holders
- Mounting kit included
- Color powder coated RAL (standard RAL 9005)

Code	Rack height (U)			
	ROF	RSL	REV	RMF
HVM-15	15	-	18	-
HVM-18	18	-	21	-
HVM-21	21	21	24	21
HVM-24	-	-	27	-
HVM-27	27	27	-	-
HVM-30	-	-	33	-
HVM-33	33	-	36	33
HVM-36	36	-	-	-
HVM-39	-	-	42	-
HVM-42	42	42	45	42
HVM-45	45	45	-	45
HVM-48	48	-	-	-



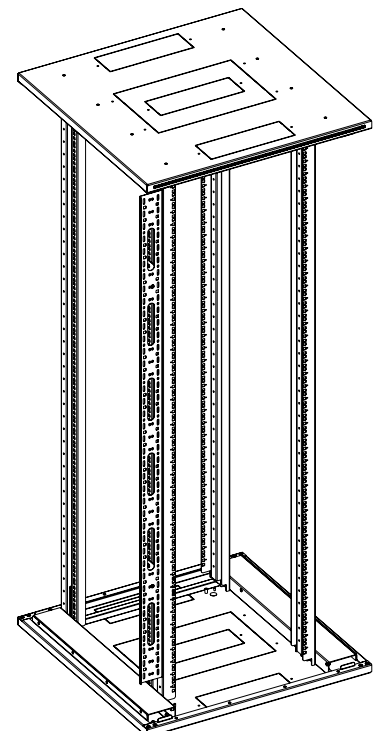
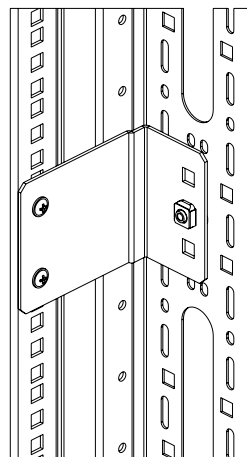
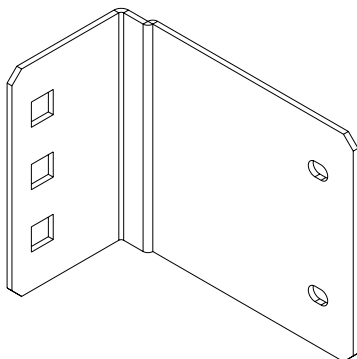
HVM with installed VO-80/80 brackets

CONNECTING KIT FOR HOLDERS OF VERTICAL WIRE MANAGEMENT PANELS FOR RSL AND REV SERIES

Description:

- Set of 4 fittings
- Set used for mounting of 2 holders of vertical wire management panels
- Mounting kit included
- Code: HVM-H-REV for REV series
- Code: HVM-H-RSL for RSL series

HVM-H-REV



VERTICAL WIRE MANAGEMENT PANELS - PLASTIC

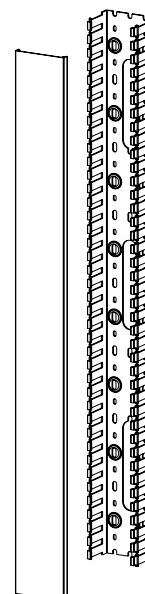
Used for storing and managing cables vertically in 800mm wide free-standing racks ROF, RSL, REV, RMF, and RHF.

Description:

- Produced for rack sizes 15-48U
- Plastic duct size 80x60mm for cable management
- Ducts of 33U and over have divided cover for easier handling
- Installed on front part of vertical extrusions by using holders of vertical wire management panels (see *HVM - page 68*) - ordered separately
- Oval openings in base of ducts and in vertical extrusions allow front to rear cabling
- Color black



Code	Rack height (U)				
	ROF	RSL	REV	RMF	RHF
	80/60, 80/80, 80/100, 80/110, 80/120	80/60, 80/80	80/80	80/80, 80/100	80/100
DP-VP-VR-15	15	-	18	-	-
DP-VP-VR-18	18	-	21	-	-
DP-VP-VR-21	21	21	24	21	-
DP-VP-VR-24	-	-	27	-	-
DP-VP-VR-27	27	27	-	-	-
DP-VP-VR-30	-	-	33	-	-
DP-VP-VR-33	33	-	36	33	-
DP-VP-VR-36	36	-	-	-	-
DP-VP-VR-39	-	-	42	-	-
DP-VP-VR-42	42	42	45	42	42
DP-VP-VR-45	45, 48	45	-	45	-



CABLE BASKET TRAYS FOR FREE-STANDING RACKS ROF, RSL, REV, AND RMF SERIES

Description:

- Used to guide and support vertical cables in free-standing racks between 19" extrusions and side panels
- Two types:
 - a) width x depth: 140x30mm; in racks RSL and REV series width 600mm mounted on inner side of horizontal holder
 - b) width x depth: 140x60mm; only suitable for racks width 800mm
- Produced for rack sizes 15-48U
- Mounted on holders of vertical extrusions in ROF and RMF series, horizontal holders are needed for racks of 18, 21, and 27U; in RSL and REV series horizontal holders are needed for all sizes of racks
- Set of fittings included

Code	Dimensions in mm			Used in rack height (U)
	H	W	D	
HVMS-B-600-140/30	605	170	35	15,18
HVMS-B-800-140/30	805	170	35	21
HVMS-B-1000-140/30	1005	170	35	24, 27
HVMS-B-1400-140/30	1405	170	35	33, 36
HVMS-B-1800-140/30	1805	170	35	42, 45, 48
HVMS-B-600-140/60	605	170	65	15, 18
HVMS-B-800-140/60	805	170	65	21
HVMS-B-1000-140/60	1005	170	65	24, 27
HVMS-B-1400-140/60	1405	170	65	33, 36
HVMS-B-1800-140/60	1805	170	65	42, 45, 48

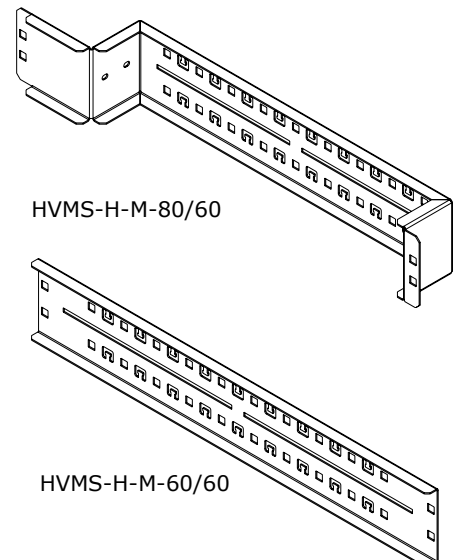


HORIZONTAL HOLDERS FOR SIDE CABLE MANAGEMENT

Description:

- Used for fitting vertical cable trays in racks ROF and RMF series of 18, 21, and 27U; always needed in RSL and REV racks
- Also used as cable holders
- Two types:
 - a) for racks ROF and RMF series only - HVMS-H-M-xx/yy (mounted to rack frame)
 - b) for free standing racks - HVMS-H-yyyy (mounted on vertical extrusions)
- Possibility to install plastic cable brackets
- Set includes 2 holders
- Mounting kit included

Code	Used in rack sizes		
	ROF, RMF	RSL	REV
HVMS-H-M-60/60	600x600	-	-
HVMS-H-M-60/80	600x800	-	-
HVMS-H-M-60/100	600x1000	-	-
HVMS-H-M-80/60	800x600	-	-
HVMS-H-M-80/80	800x800	-	-
HVMS-H-M-80/100	800x1000	-	-
HVMS-H-600	600x600 800x600	600x600 800x600	600x600
HVMS-H-800	600x800 800x800	600x800 800x800	600x800 800x800



HORIZONTAL SIDE CABLE HOLDERS

Description:

- Used for side cable management in rack
- Produced for rack of depth 600, 800, and 1000mm
- Set of fittings included

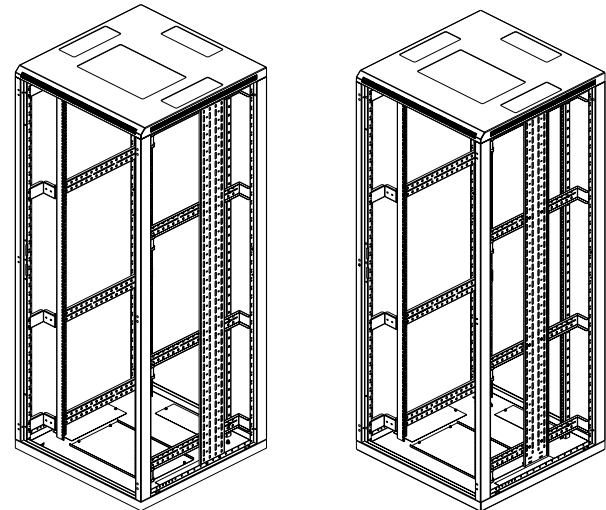
Rack size in mm W x D	Rack series			
	ROF	RSL	REV	RMF
600x600	HVMS-CH-500	HVMS-CH-500	HVMS-CH-400	HVMS-CH-500
600x800	HVMS-CH-700	HVMS-CH-700	HVMS-CH-600	HVMS-CH-700
600x1000	HVMS-CH-800			
800x600	HVMS-CH-400	HVMS-CH-500		
800x800	HVMS-CH-600	HVMS-CH-700	HVMS-CH-600	HVMS-CH-600
800x1000	HVMS-CH-800			HVMS-CH-800



PANELS FOR SIDE VERTICAL CABLE MANAGEMENT

Description:

- Used to guide and support vertical cables in free-standing racks between 19" extrusions and side panels
- Produced in two widths – 150mm and 300mm
- Produced for racks sizes 15 – 48U
- Set of fittings included



Code		Rack height in U				
panels width 150mm	panels width 300mm	ROF*	RMF**	ROS*	REV***	RSL****
DP-VV-15U/150	DP-VV-15U/300	15		15		
DP-VV-18U/150	DP-VV-18U/300	18		18	21	
DP-VV-21U/150	DP-VV-21U/300	21	21	21	24	21
DP-VV-24U/150	DP-VV-24U/300	24		24	27	
DP-VV-27U/150	DP-VV-27U/300	27		27	33	27
DP-VV-30U/150	DP-VV-30U/300	30		30		
DP-VV-33U/150	DP-VV-33U/300	33	33	33		
DP-VV-36U/150	DP-VV-36U/300	36		36	42	
DP-VV-42U/150	DP-VV-42U/300	42	42	42	45	42
DP-VV-45U/150	DP-VV-45U/300	45	45	45		45
DP-VV-48U/150	DP-VV-48U/300	48		48		

* Installation either directly in top and bottom frame of the rack or on holders of vertical extrusions

** Installation on holders of vertical extrusions only

*** Installation on horizontal holders for side cable management HVMS-H-yyy only (to be ordered separately)

**** Installation either in top and bottom frame of the rack or on holders of vertical extrusions for side cable management HVMS-H-yyy (to be ordered separately)

19" BLANK AND VENTED PANELS

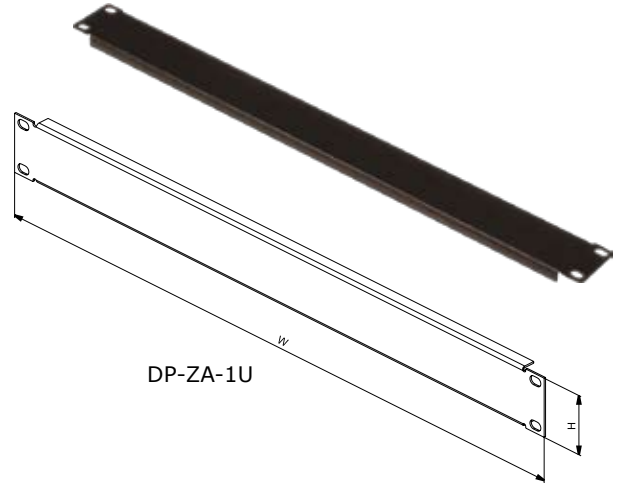
19" BLANK PANELS

Used to cover empty positions in rack to minimize by-pass airflow and enhance aesthetic appearance.

Description:

- Height 1, 2, 3, and 5U
- Color powder coated RAL (standard RAL 9005)

19" BLANK PANELS		
Code	Height	Width
DP-ZA-1U	1U	19"
DP-ZA-2U	2U	19"
DP-ZA-3U	3U	19"
DP-ZA-5U	5U	19"



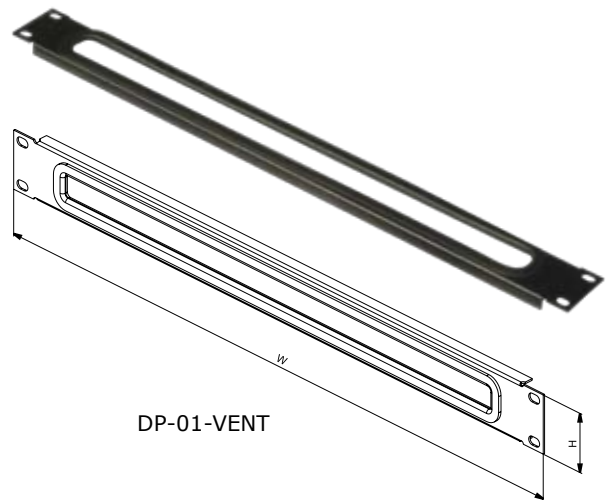
19" VENTED PANEL

Enables front to rear cable passage through empty positions in rack.

Description:

- Height 1U
- Width 19"
- Color powder coated RAL (standard RAL 9005)

19" VENTED PANEL		
Code	Height	Width
DP-01-VENT	1U	19"



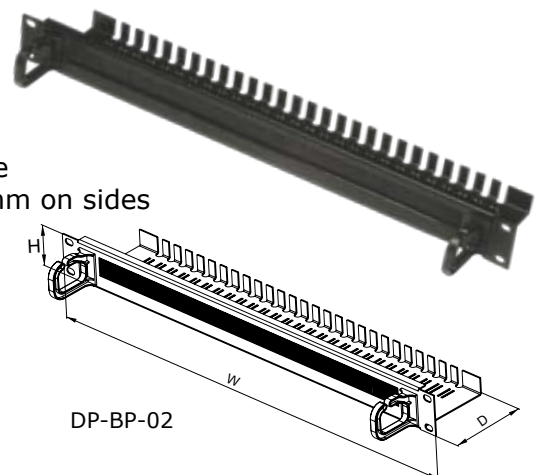
19" VENTED PANEL WITH BRUSH

Enables front to rear cable passage through empty positions in rack whilst helping to minimize by-pass airflow.

Description:

- Types:
 - a) with brush
 - b) with brush and cable management
- Vented panel with brush and cable management has cable management bar on back and two cable brackets 40x50mm on sides
- Height 1U
- Color powder coated RAL (standard RAL 9005)

19" VENTED PANELS WITH BRUSH			
Code	Height	Width	Depth in mm
DP-BP-01	1U	19"	--
DP-BP-02	1U	19"	85
DP-BP-03	1U	19"	--



19" PATCH PANELS

Accessories

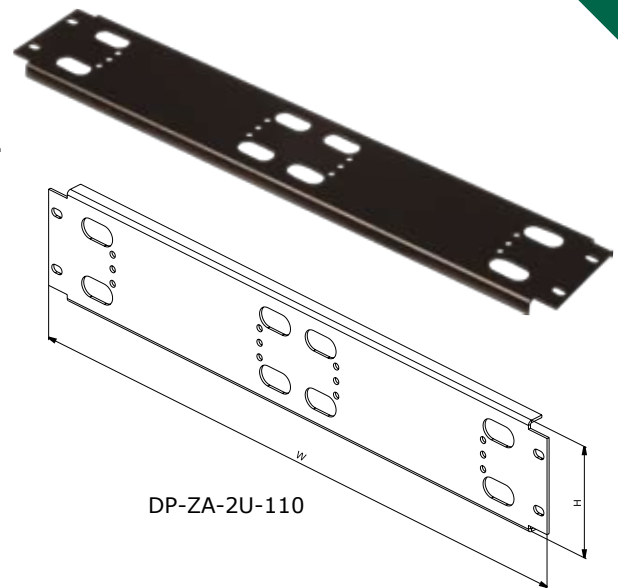
19" PANELS FOR 110 CONNECTING BLOCKS

Used for installing 110 connecting blocks in 19" racks.

Description:

- Produced in sizes 2U and 4U
- Color powder coated RAL (standard RAL 9005)
- Possibility to install up to 100 pairs for height 2U incl. wire management

19" PANELS FOR 110 CONNECTING BLOCKS			
Code	Height	For	
		110 block	cable man. panel
DP-ZA-2U-110	2U	1pc	1pc
DP-ZA-4U-110	4U	2pcs	2pcs



DP-ZA-2U-110

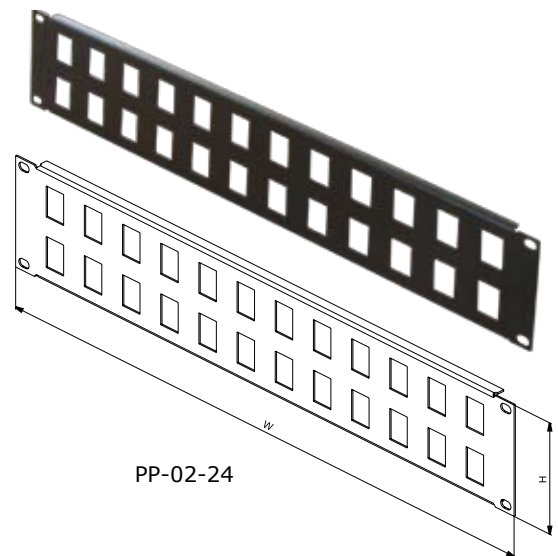
19" PATCH PANELS FOR KEYSTONE MODULES

Used for installing of Keystone type modules in rack.

Description:

- Height 1U, 2U, and 3U
- Possibility to install up to 16 Keystone type modules for height 1U
- Color powder coated RAL (standard RAL 9005)
- For each module adaptor DP-KEY needed

19" PATCH PANELS FOR MODULES KEYSTONE TYPE			
Code	Width	Height	No. of positions
PP-01-16	19"	1U	16
PP-02-24	19"	2U	24
PP-02-32	19"	2U	32
PP-03-48	19"	3U	48



PP-02-24

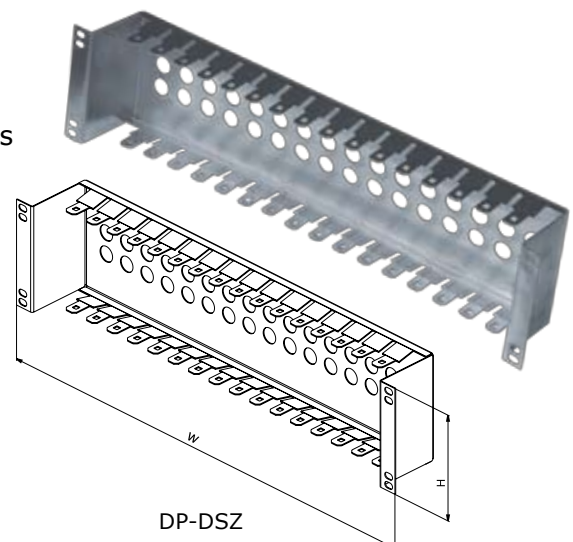
19" PATCH PANELS FOR LSA-PLUS MODULES

Used for installing modules LSA-PLUS (spacing 96mm).

Description:

- 16 positions for installation of 10 pair LSA-PLUS modules
- Finishing: zinc plated

19" PATCH PANELS FOR LSA-PLUS MODULES			
Code	Width	Height	No. of positions
DP-DSZ	19"	2.5U	16

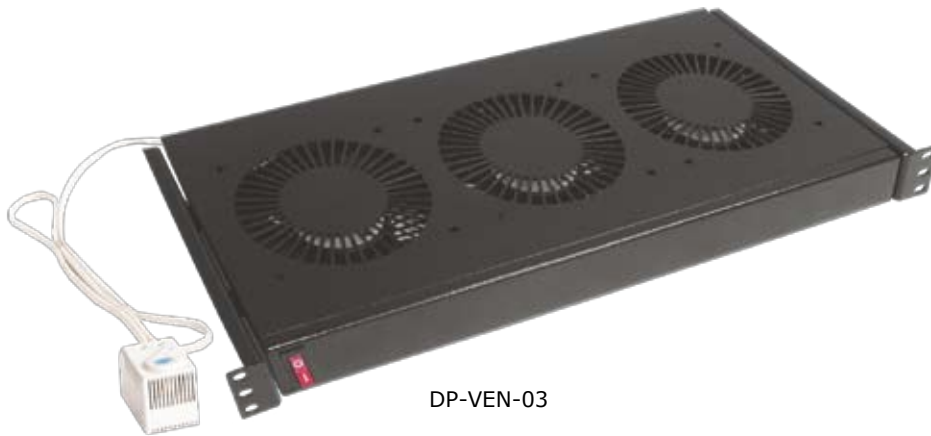


DP-DSZ

VENTILATION UNITS

VENTILATION UNITS

Used to force airflow through a rack to assist with cooling



DP-VEN-03

Description:

- Two to nine fans
- Possible to install:
 - a) in 19" extrusions - horizontally
 - b) in top or bottom frame of free-standing rack *
- Connecting kit for ventilation unit is needed when installing in top or bottom frame
- Temperature range -10°C to 55°C
- Thermostat in the range 0°C - 60°C included; option of no thermostat
- Voltage range 230V/50Hz (optionally 48V DC)
- Protection category to EN 60 529 IP 20
- Color powder coated RAL (standard RAL 9005)
- Enhanced option DP-VEN-xx-E

See page 76 - Ventilation units codes

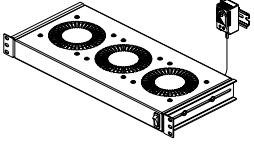
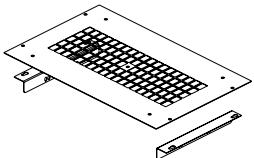
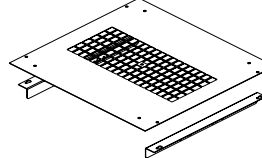
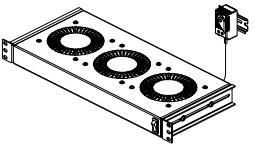
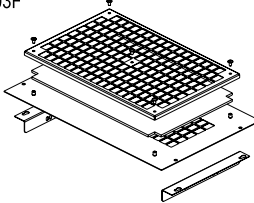
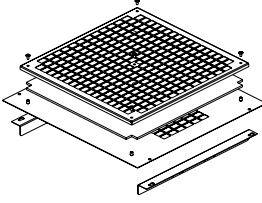
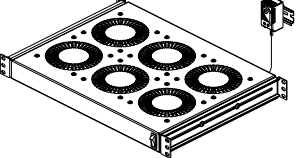
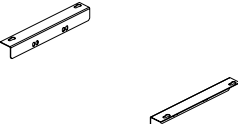
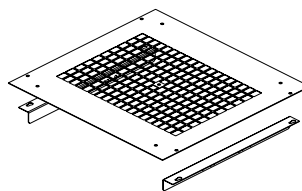
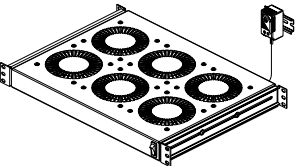
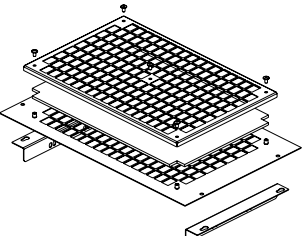
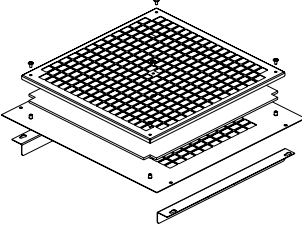
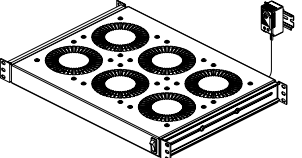
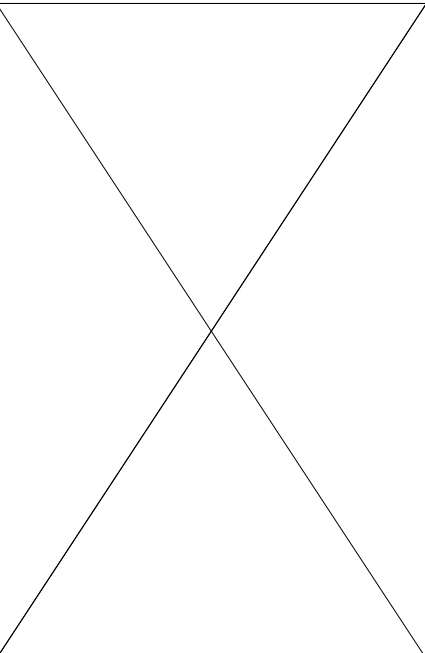
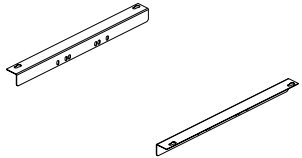
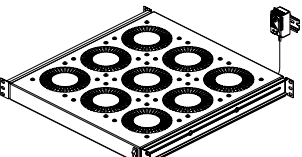
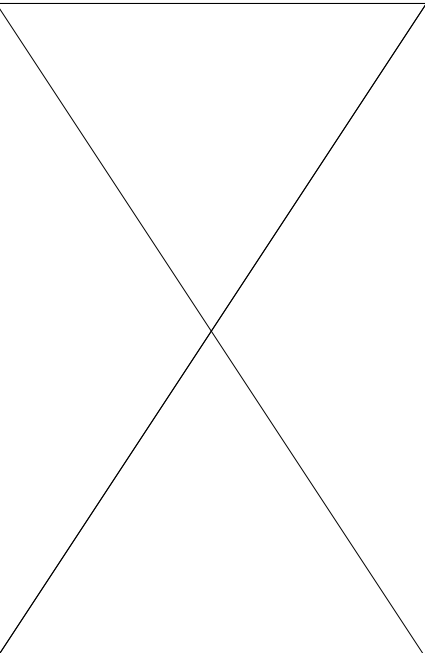
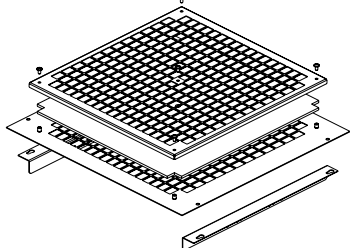
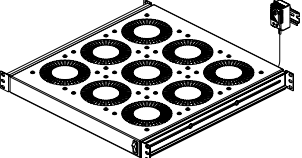
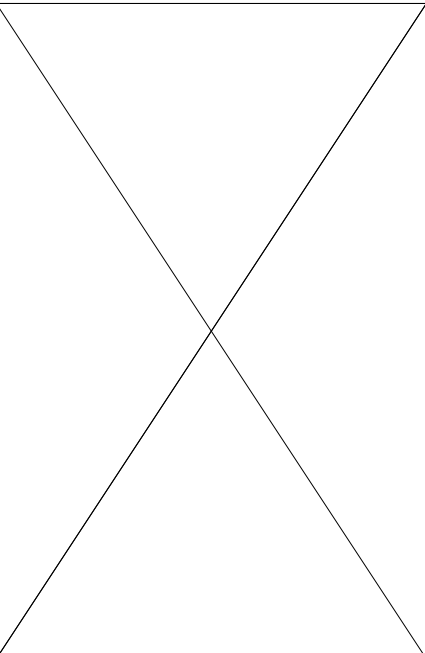
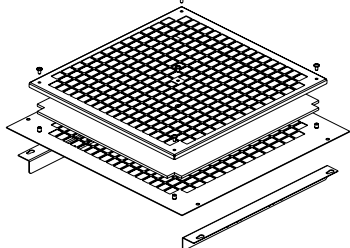
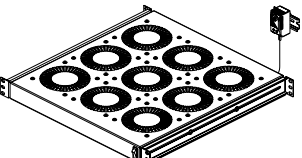
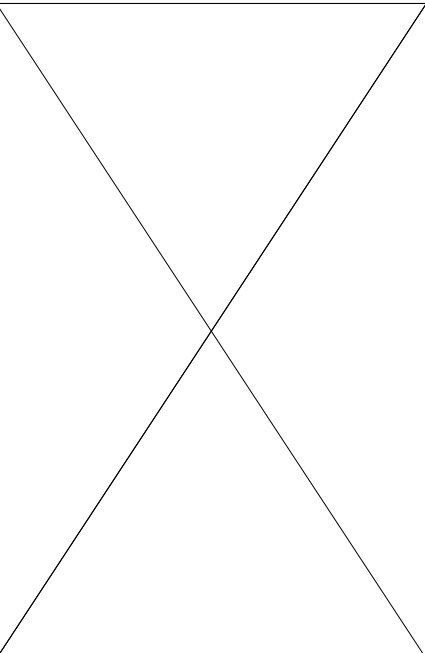
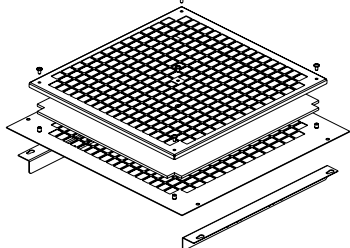


DP-VEN-09

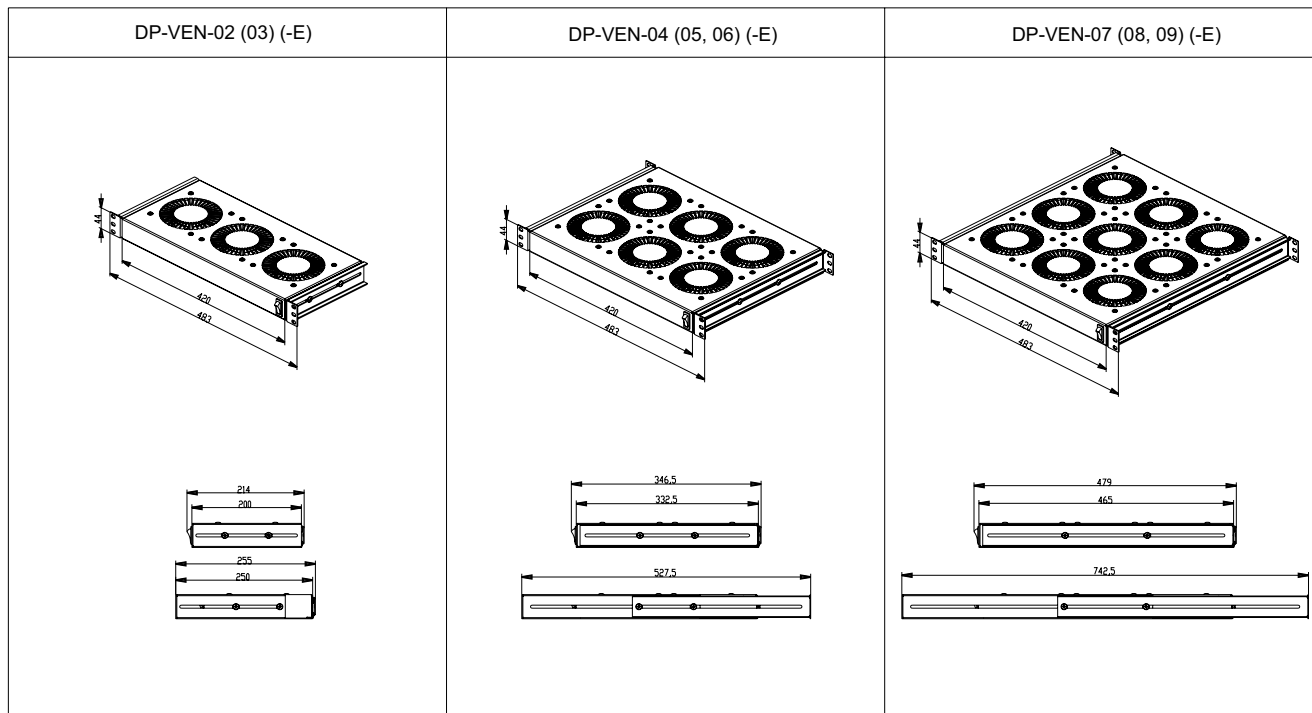


DP-VEN-06

* Max. distance of vertical extrusion face in RSL racks depth 600mm:
 - for DP-VEN-03(-E) 130mm from front and 110mm from rear wall
 - for DP-VEN-04(-E and higher) 70mm from front and 50mm from rear wall
 Information on installation options (into top or bottom frame of ROR rack series) on request

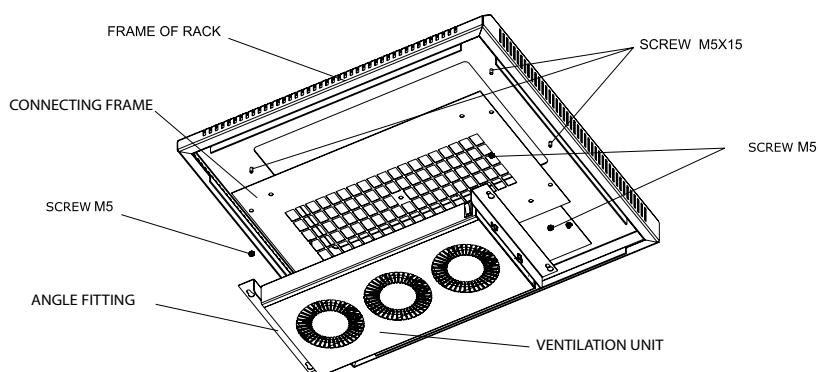
19" MOUNTING VENTILATION UNIT	CONNECTING KIT FOR INSTALLATION IN TOP OR BOTTOM FRAME OF FREE STANDING RACKS DEPTH 600 OR 800 MM AND ROS RACKS DEPTH 1100 OR 1200MM	CONNECTING KIT FOR INSTALLATION IN TOP OR BOTTOM FRAME OF FREE STANDING RACKS DEPTH 1000MM
<p>DP-VEN-02(-E)</p> 	<p>DP-VER-03</p> 	<p>DP-VER-031</p> 
<p>DP-VEN-03(-E)</p> 	<p>DP-VER-03F</p> 	<p>DP-VER-031F</p> 
<p>DP-VEN-04(-E)</p> 	<p>DP-VER-06</p> 	<p>DP-VER-061</p> 
<p>DP-VEN-05(-E)</p> 	<p>DP-VER-06F</p> 	<p>DP-VER-061F</p> 
<p>DP-VEN-06(-E)</p> 		<p>DP-VER-091</p> 
<p>DP-VEN-07(-E)</p> 		<p>DP-VER-091F</p> 
<p>DP-VEN-08(-E)</p> 		<p>DP-VER-091F</p> 
<p>DP-VEN-09(-E)</p> 		<p>DP-VER-091F</p> 

F...Connecting kit with filter



Code	Air through put (m ³ .h-1)	Rated current max. (A)	Power (W)	Noise level* (dB)
DP-VEN-02	210	0,18	38	48,0
DP-VEN-03	315	0,27	57	49,8
DP-VEN-04	420	0,36	76	51,0
DP-VEN-05	525	0,45	95	52,0
DP-VEN-06	630	0,54	114	52,8
DP-VEN-07	735	0,63	133	53,5
DP-VEN-08	840	0,72	152	54,0
DP-VEN-09	945	0,81	171	54,5
DP-VEN-02-E	330	0,28	44	53,0
DP-VEN-03-E	495	0,42	66	54,8
DP-VEN-04-E	660	0,56	88	56,0
DP-VEN-05-E	825	0,70	110	57,0
DP-VEN-06-E	990	0,84	132	57,8
DP-VEN-07-E	1155	0,98	154	58,5
DP-VEN-08-E	1320	1,12	176	59,0
DP-VEN-09-E	1485	1,26	198	59,6

* Approximate value. Real noise level depends on conditions at installation site.

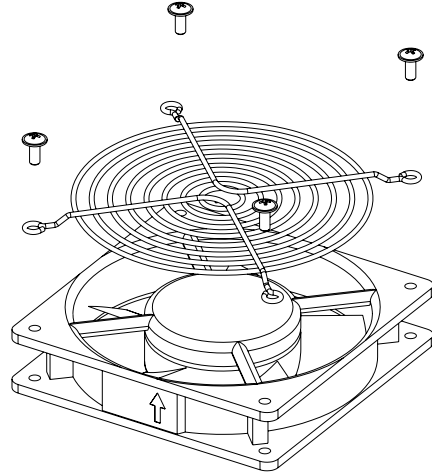


FANS

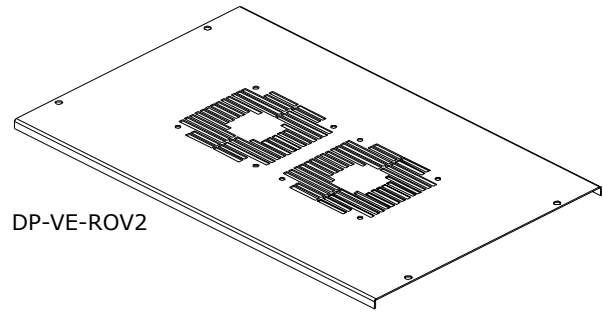
Used to force airflow through a rack where ventilation unit is not used.

Description:

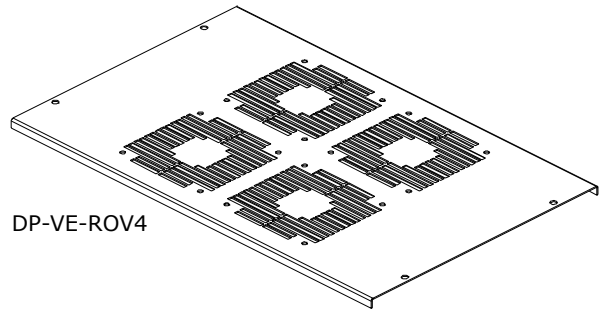
- Possible to install:
 - a) on side or top of wall-mounting rack - special perforation needed (ordering code of the wall mounting rack to be extended: -VH for 2x side perforation or -TH for 2x top cover perforation)
 - b) in top or bottom frame of distribution rack - requires perforated gland plate DP-VE-ROV2 and DP-VE-ROV4
- Mounting kit included
- Code: DP-VE-01



side panel installation



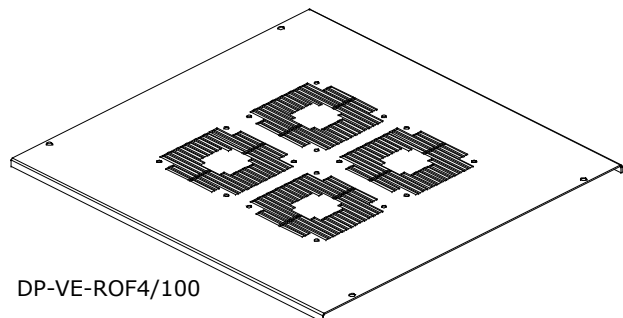
DP-VE-ROV2



DP-VE-ROV4



special perforation



DP-VE-ROF4/100

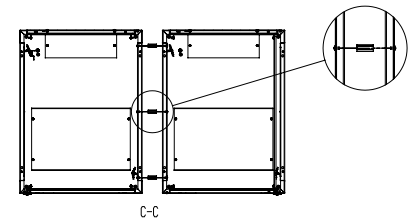
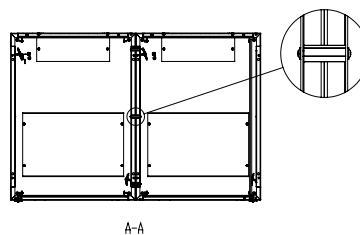
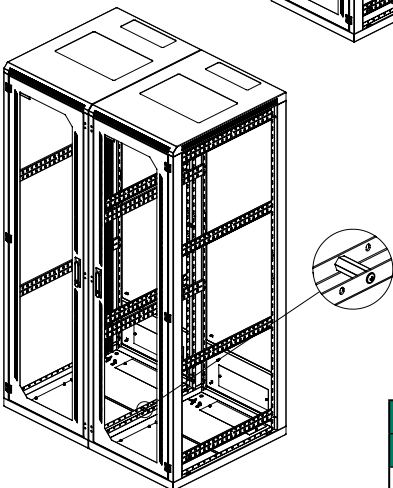
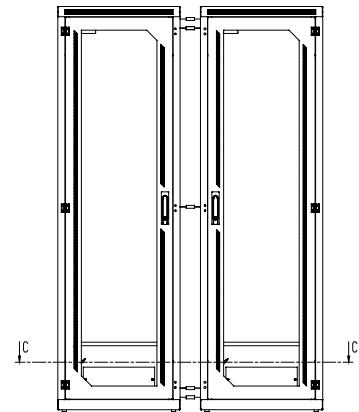
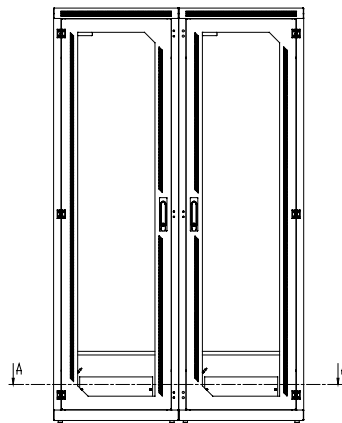
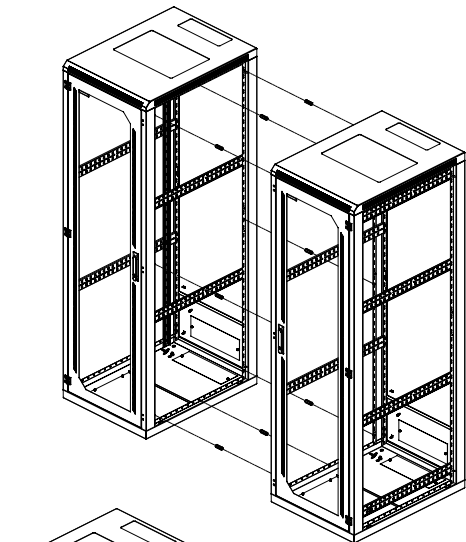
CONNECTING KITS FOR FREE-STANDING RACKS

Used for connection of two and more free-standing racks (of same series and height and depth) in blocks.

CONNECTING KIT FOR RACKS FOR, RMF, RHF, ROS, AND RSL SERIES

Consists of:

- 6 hexagonal nuts
- 12 screws M5×10
- 12 washers M5 DIN125

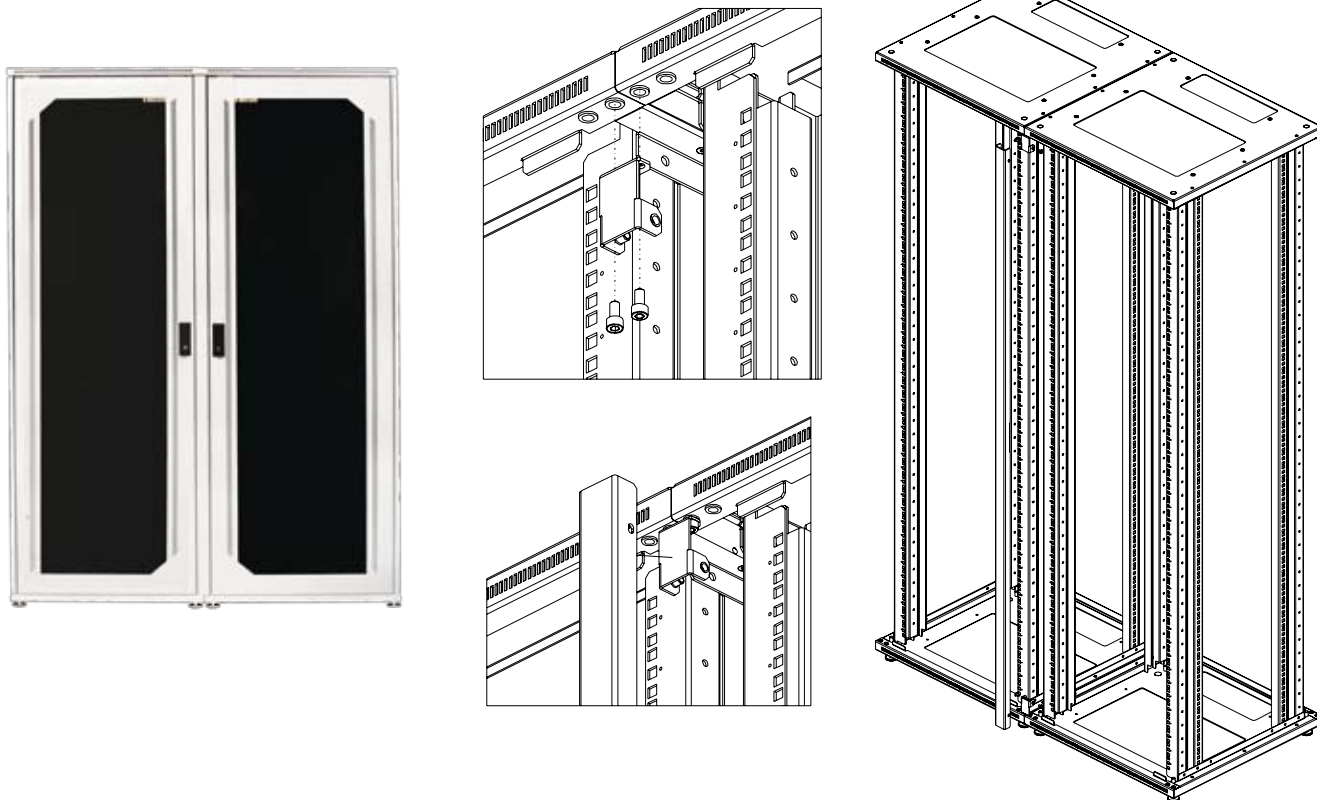


CONNECTING KITS FOR RACKS ROF, RMF, RHF, ROS, AND RSL SERIES	
Code	For racks
DP-DR-ROF	universal for all sizes of ROF, RMF, RHF and ROS series
DP-DR-RSL	universal for all sizes of RSL series

CONNECTING KIT FOR RACKS REV SERIES

REV series kit consists of:

- 8 screws M6x12 DIN 912
- 8 screws M5x12
- 4 connecting elements
- 2 connecting frames



CONNECTING KIT FOR FREE-STANDING RACKS RSL AND REV SERIES	
Code	For rack
REV-O-CF-21U	REV-21-xx/yy
REV-O-CF-24U	REV-24-xx/yy
REV-O-CF-27U	REV-27-xx/yy
REV-O-CF-33U	REV-33-xx/yy
REV-O-CF-42U	REV-42-xx/yy
REV-O-CF-45U	REV-45-xx/yy

zz - height of rack
 xx - width of rack
 yy - depth of rack

19" STANDARD FRAMES AND ACCESSORIES

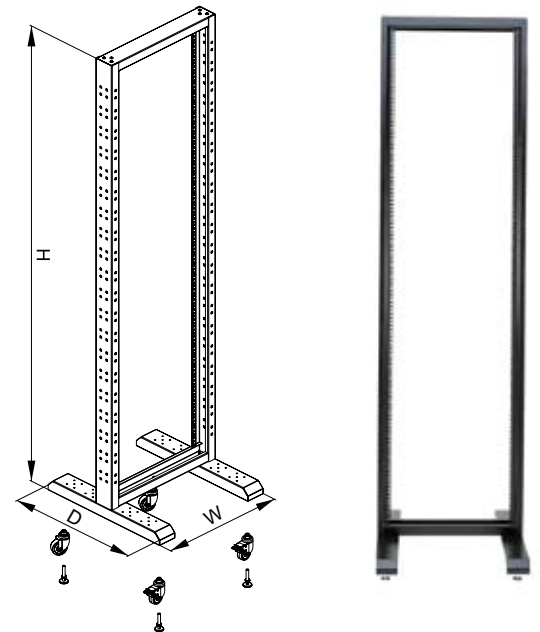
Used in closed rack rooms or in places where it is not possible to install racks.

Description:

- Produced in sizes 27U, 36U, 42U, and 45U
- Two types:
 - a) two post – one pair of 19" vertical extrusions
 - b) four post – two pairs of 19" vertical extrusions
- Made of 2mm sheet steel
- Frame comprises:
 - a) base
 - b) 19" vertical frame (two pieces for four post frame)
 - c) assembly hardware
- Base openings ready to install 19" vertical frame in five positions
- Solid anchoring needed when extrusions are placed in other positions than central
- Base equipped with feet
- Color powder coated RAL (standard RAL 9005)

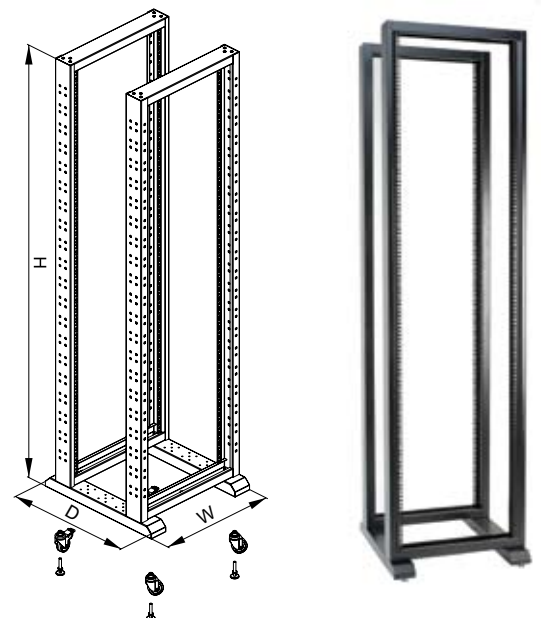
19" TWO POST FRAMES

19" TWO POST FRAMES					
H in U	Consist of		W in mm	D in mm	H in mm
	code	pcs			
27U	RS-27	1	559	600	1339
	RS-P	1			
36U	RS-36	1	559	600	1739
	RS-P	1			
42U	RS-42	1	559	600	2005
	RS-P	1			
45U	RS-45	1	559	600	2139
	RS-P	1			



19" FOUR POST FRAMES

19" FOUR POST FRAMES					
H in U	Consist of		W in mm	D in mm	H in mm
	code	pcs			
27U	RS-27	2	559	600	1339
	RS-P	1			
36U	RS-36	2	559	600	1739
	RS-P	1			
42U	RS-42	2	559	600	2005
	RS-P	1			
45U	RS-45	2	559	600	2139
	RS-P	1			



ACCESSORIES FOR RS FRAMES

Accessories

ACCESSORIES FOR RS FRAMES		
Code	Description	One set includes
RSSD-RAIL	Cross-rail for four post frame	1 pair
RSSD-VP	Wire management panel for four post frame	1 piece
RSSD-BRACE	Stabilizer for two and four post frame	1 pair

CROSS-RAIL FOR FOUR POST FRAMES

Description:

- Used for fixing of four post frame
- Set includes one pair of rails
- Made of 2mm sheet steel
- Set of 12 pcs M5x12 screws included
- Color powder coated RAL (standard RAL 9005)



WIRE-MANAGEMENT PANEL FOR FOUR POST FRAMES

Description:

- Used for storing and cable holding between two pairs of 19" vertical extrusions of four post frame
- Made of 1.5mm sheet steel
- Color powder coated RAL (standard RAL 9005)



STABILIZER FOR TWO POST AND FOUR POST FRAMES

- Used for increased sturdiness and stability of the RS open frames
- Assembly hardware included



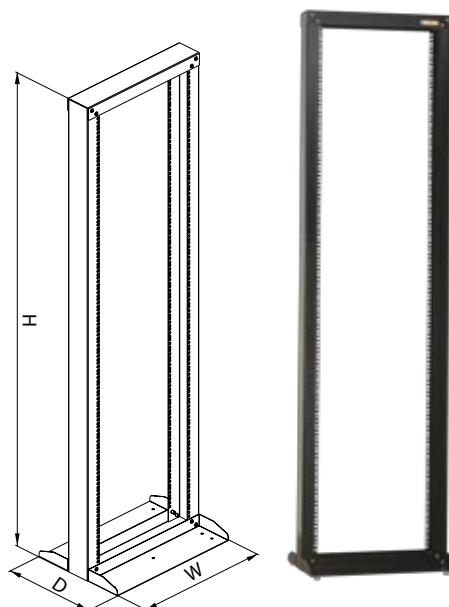
19" FRAMES RSM SERIES

Description:

Produced in sizes 27U, 42U, and 45U

- Made of 2mm sheet steel
- Floor mounting
- Easy and fast assembly by using enclosed wrench
- Installation on floor by using screws or anchors - depends on type of floor (not included)
- Color powder coated RAL (standard RAL 9005)

19" FRAMES RSM SERIES				
Code	H	W in mm	D in mm	H in mm
RSM-27	27U	559	400	1314
RSM-42	42U	559	400	1980
RSM-45	45U	559	400	2114



19" HIGH-LOAD FRAMES

Used in closed rack rooms, especially in data centers and server rooms, or in places where it is not possible to install racks. Load rating up to 1200kg balanced load.



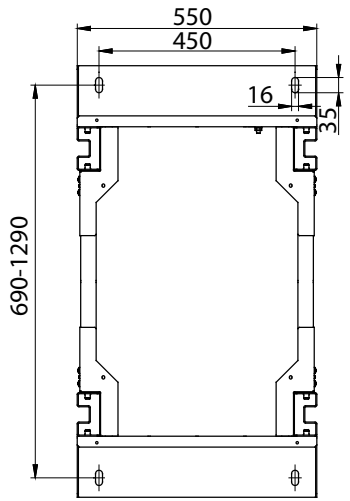
Description:

- Four post open frame (two post version on request) consists of:
 - 2 pairs of 19" vertical extrusions
 - 2x base (RSG – outside oriented, RSX – inside oriented)
 - 4x adjustable profile
- Produced in sizes 42U and 47U
- Adjustable depth from 500 to 680mm, or 710 to 890mm, or 920 to 1100mm
- Load rating max. **1200kg** balanced load
- Width of frame 550mm
- GND/earthing kit
- Easy connection to blocks
- Easy access from all sides
- Holes for anchoring screws
- Delivered assembled; unassembled on request
- Color powder coated RAL 9005 (black)
- Marking of height units (RSX frames only)
- Accessories on request

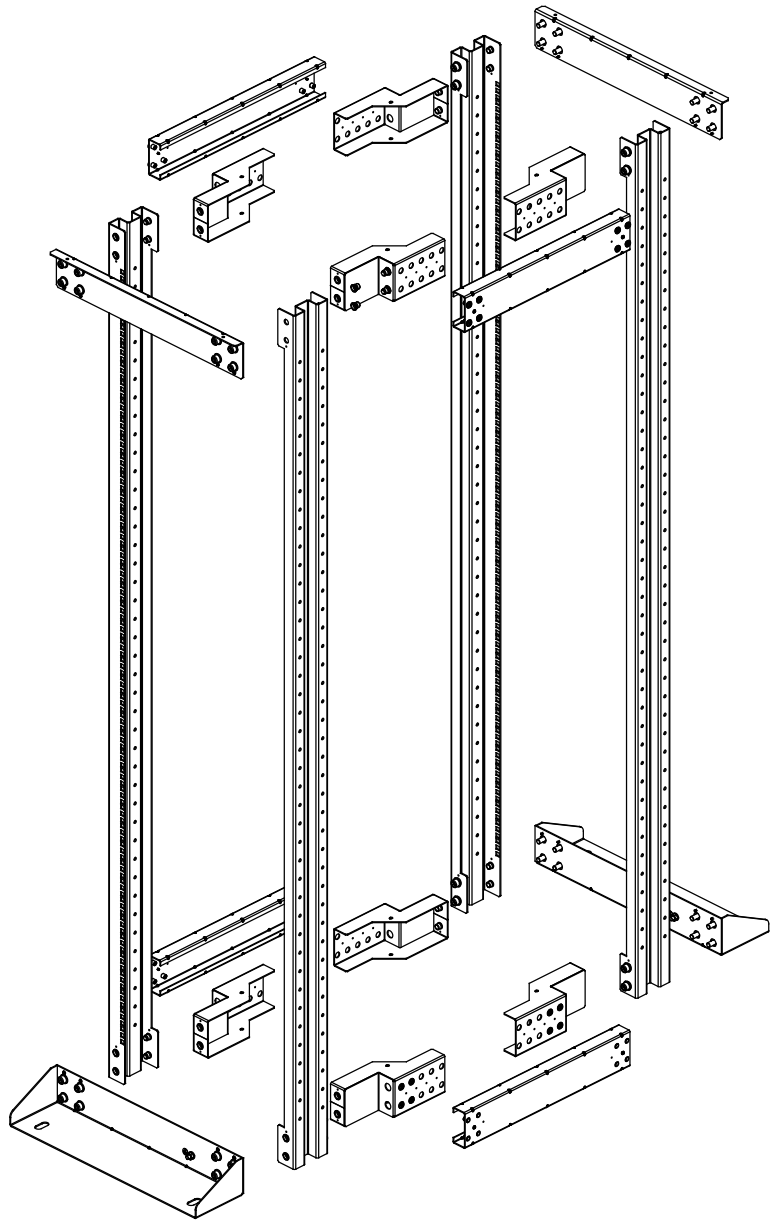
Code *	H in Units	Dimensions in mm		
		H	W	Depth setting
RSG-42-55/50 (50-68)	42	2055	550	500-680
RSG-42-55/74 (71-89)	42	2055	550	710-890
RSG-42-55/92 (92-110)	42	2055	550	920-1100
RSG-47-55/50 (50-68)	47	2527	550	500-680
RSG-47-55/74 (71-89)	47	2527	550	710-890
RSG-47-55/92 (92-110)	47	2527	550	920-1100

* for RSX codes write RSX instead of RSG

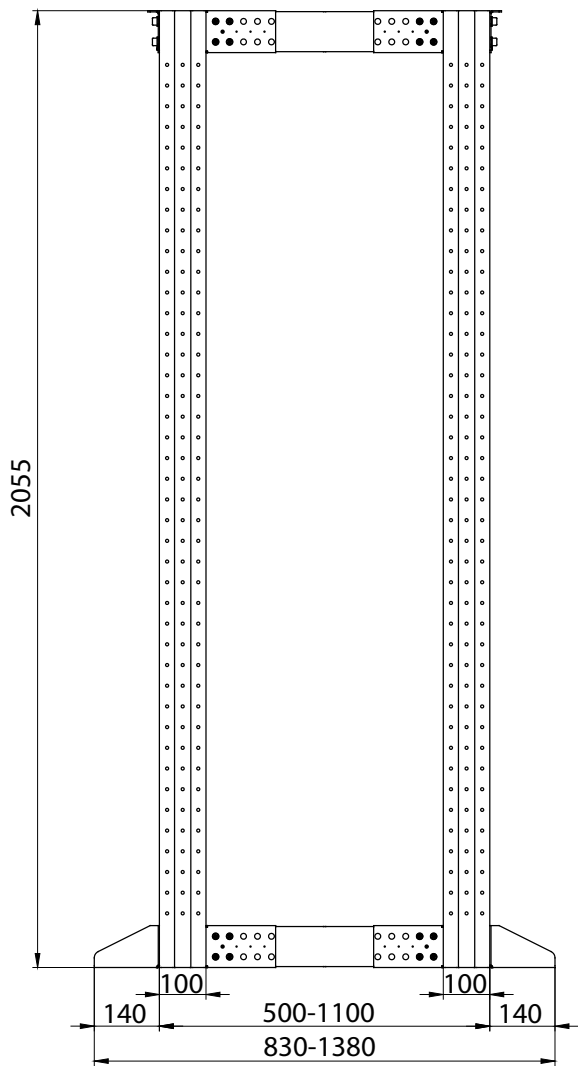
Top view (dimensions in mm)



RSG-42 (four post)



RSG-42 (four post, dimensions in mm)



MODULAR PLINTHS FOR FREE-STANDING RACKS

Plinths are installed as an aesthetic and stabilizing element – instead of feet or castors. When plinth with filter is used, plinth supplies sufficient amount of filtered air. Plinths can also be used for storing cables.

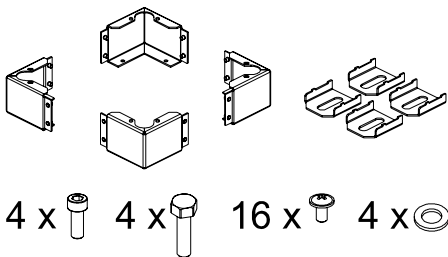


Description:

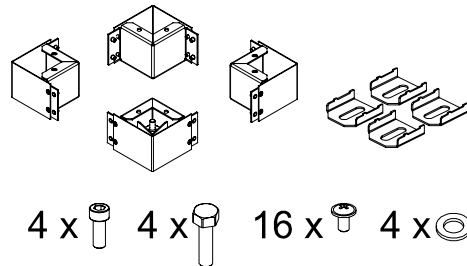
- Used for racks ROF, RSL, REV, RMF, RHF, RSB, ROP, and ROR series
- Height of plinth 80mm; optionally 100mm and 200mm (for RSL series only 100mm as standard)
- Color powder coated RAL (standard RAL 7035 or 9005)
- Delivered unassembled; assembly hardware and instructions included
- Plinth consists of:
 - Set of corners
 - Set of side panels

SET OF PLINTH CORNERS

- Used for all types of free-standing racks.
- Two types of plinth corners:
 - a) with fixed height DP-PR (DP-PR-L for racks RSL series; DP-PR-100-RHF for racks RHF series)
 - b) with adjustable feet DP-PR-A (not available for RSL series)



DP-PR



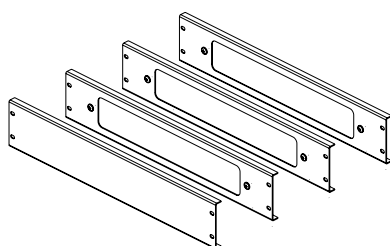
DP-PR-A

Code	Load rating in kg *
DP-PR	800
DP-PR-A	500
DP-PR-L	800
DP-PR-100-RHF	1700

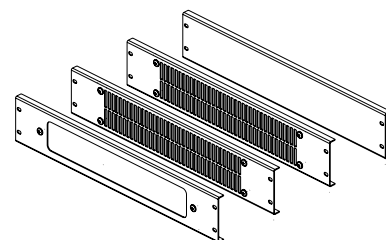
* Load rating for set (4pcs) of corners incl. weight of rack

SET OF SIDE PANELS

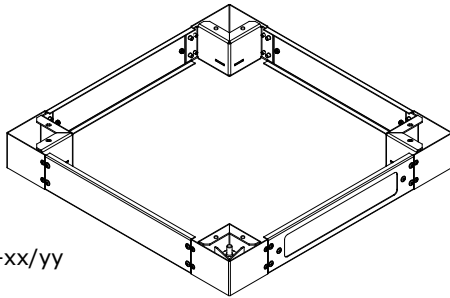
- Consists of:
 - 2pcs of side panels
 - 1pc of front panel
 - 1pc of rear panel with opening for cable entry (size 300x50mm)
 - opening for cable entry covered with removable blank panel
- Two types of side panels:
 - a) with openings for cable entry (in DP-P-PDN-xx/yy)
 - b) with perforation and exchangeable filters (in DP-P-PFN-xx/yy)



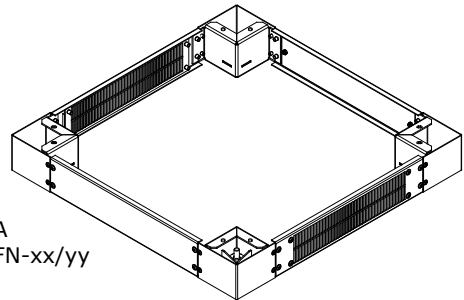
DP-P-PDN-xx/yy



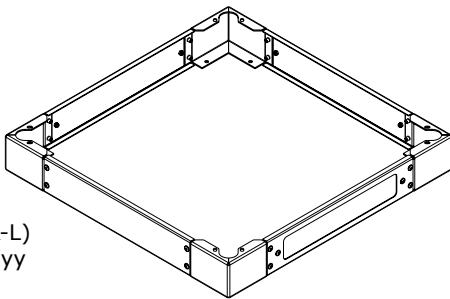
DP-P-PFN-xx/yy



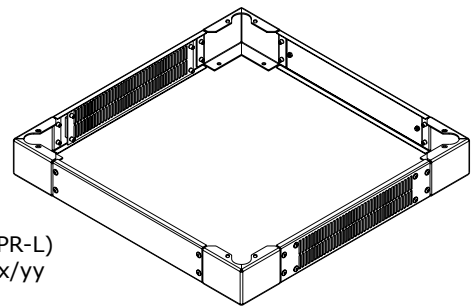
DP-PR-A
DP-P-PDN-xx/yy



DP-PR-A
DP-P-PFN-xx/yy



DP-PR (DP-PR-L)
DP-P-PDN-xx/yy



DP-PR (DP-PR-L)
DP-P-PFN-xx/yy

ORDERING MATRIX

PLINTH CORNERS

			1	2
DP	-	PR	- 100	- A

For RHF series racks apply DP-PR-100-RHF, ie. special corners with fixed height 100mm only.

1	- 100	Plinth height 100mm
	- 200	Plinth height 200mm
2		Plinth corners with fixed height
	- A	Plinth corners with adjustable feet

For RSL series racks apply DP-PR-L, ie. special corners with fixed height 100mm only

SIDE PANELS

			1	2	3	4
DP	-	P	- PDN	- 60 / 60	- 100	

1	PDN	Plinth without filter
	PFN	Plinth with filter
2		Rack width in cm - ie. 60,80
3		Rack depth in cm - ie. 60, 80, 100
4		Plinth height 80mm
	- 100	Plinth height 100mm
	- 200	Plinth height 200mm

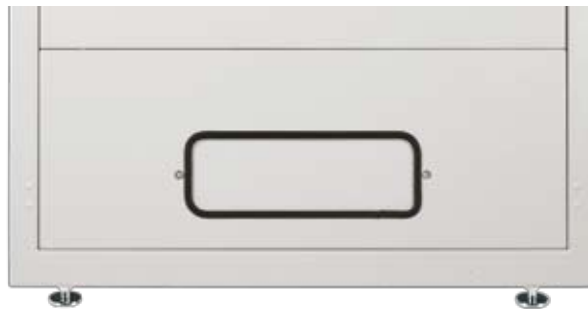
Ordering code for exchangeable filter DP-P-PFN-FI-600 - 600mm length, DP-P-PFN-FI-800 - 800mm length

PROTECTION OF CABLES IN OPENINGS

Used for protection of cables entering rack and for minimizing dust levels inside of rack.

Description:

- Installed in openings for cable entry
- Three types:
 - a) rubber piece on edges of opening for cable entry (length 790mm) for free-standing racks



DP-KP-LEM

- b) dust-proof panel with brush - for free-standing racks



DP-KP-KAR

- c) dust-proof panel with brush - for wall-mounting racks



DP-KP-KAR3

HOLDERS

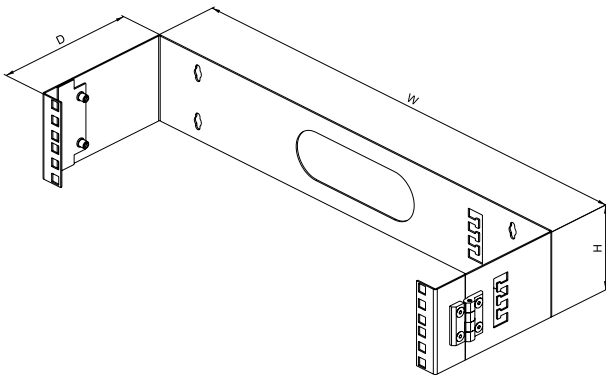
19" WALL-MOUNTING HOLDERS

Used for installation of 19" equipment on the wall.

Description:

- Height 2U and 4U
- Mounting holes for wall installation on the back
- Holder equipped with hinges enabling swinging open of installed equipment from the wall
- Openings for cable entry on the side
- Color powder coated RAL (standard RAL 7035)

19" WALL-MOUNTING HOLDERS			
Code	H	W	Depth in mm
DP-WALL-2U	2U	19"	150
DP-WALL-4U	4U	19"	150



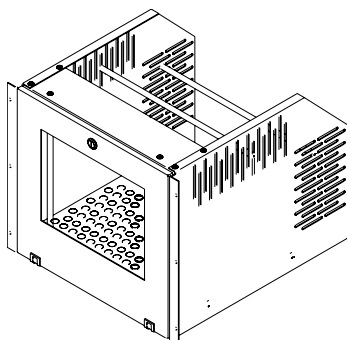
19" MONITOR HOLDER

Used for storing of monitor in rack.

Description:

- Used for 15" and 17" monitors
- Equipped with glass door and lock
- Installation in rack with two side holders
- Installation kit for monitor included
- Load rating max. 20kg balanced load
- Color powder coated RAL (standard RAL 7035)

19" MONITOR HOLDER				
Code	H	W	D in mm	Monitor type
DP-MONI-17	9U	19"	500	15" and 17"



EARTHING BARS

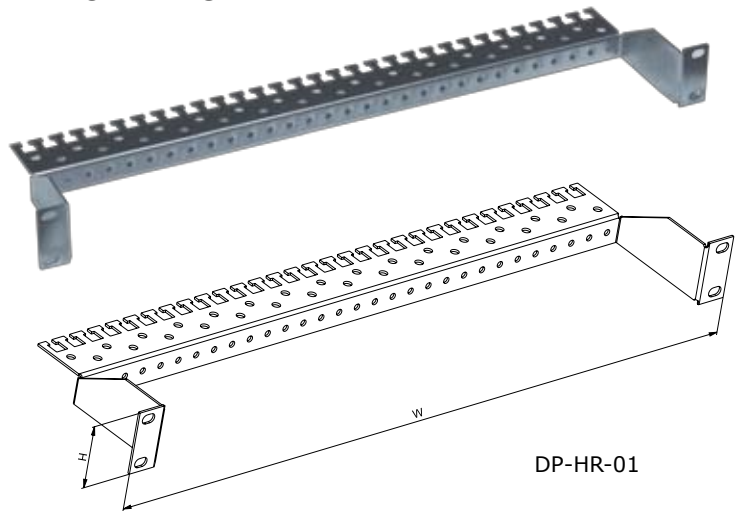
CABLE CLAMP BRACKET/EARTHING BAR FOR PATCH PANEL

Used for earthing of installed equipment.

Description:

- Height 1U and 2U
- Holding of cables with cable ties or PVC clamps
- Possible to use as earthing bar
- Finishing: zinc plated

19" CABLE CLAMP BRACKET		
Code	Height	Width
DP-HR-01	1U	19"
DP-HR-02	2U	19"

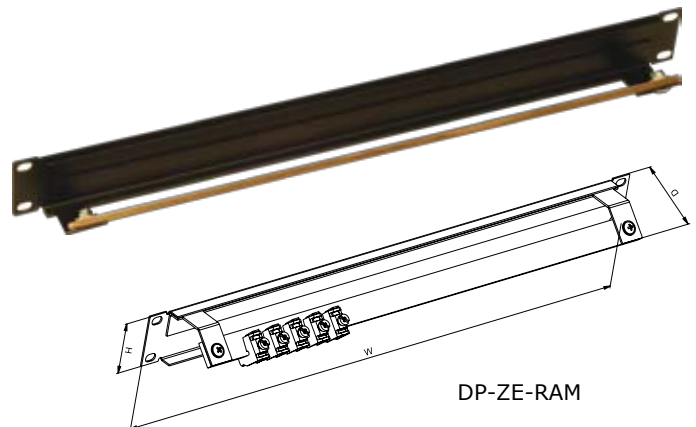


DP-HR-01

19" PANEL WITH EARTHING BAR

Description:

- Height 1U
- Copper earthing rail with 5 earthing clips (DP-ZE-CL) included
- Color powder coated RAL (standard RAL 9005)
- Code: DP-ZE-RAM



DP-ZE-RAM

EARTHING BAR

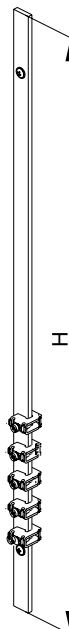
Description:

- Produced for rack sizes 15-48U
- Made of copper bar 25 x 5mm
- Installation kit for mounting in rack included
- 5 pieces of earthing clips (DP-ZE-CL) included

EARTHING BARS		
Code	Length in mm	H
DP-UL-15U	667	15U
DP-UL-18U	800	18U
DP-UL-21U	933	21U
DP-UL-24U	1067	24U
DP-UL-27U	1200	27U
DP-UL-33U	1467	33U
DP-UL-36U	1600	36U
DP-UL-42U	1867	42U
DP-UL-45U	2000	45U
DP-UL-46U	2045	46U
DP-UL-47U	2089	47U
DP-UL-48U	2134	48U



DP-ZE-CL



DP-UL

MOUNTING KIT

- Mounting kit (DP-MO-01) consists of one M5 screw, one floating nut, and one washer
- Code for 1 kit: DP-MO-01 (packed by 4 kits)
- Code for 100 kits: DP-MO-100



CASTORS AND FEET

CASTORS, FEET			
Code	Description	Set includes	Castor load rating in kg *
DP-KO-01	Castor for free-standing cabinet	1pc	50kg
DP-KO-02	Lockable castor for free-standing cabinet	1pc	50kg
DP-KO-H1	High-load castor for free-standing cabinet	1pc	100kg
DP-KO-H2	Lockable high-load castor for free-standing cabinet	1pc	100kg
DP-NO-01	Adjustable foot for free-standing cabinet	1pc	-
DP-NL-01	Adjustable foot for free-standing cabinet RSL series	1pc	-

* castor load rating = (rack weight + devices weight) / 3

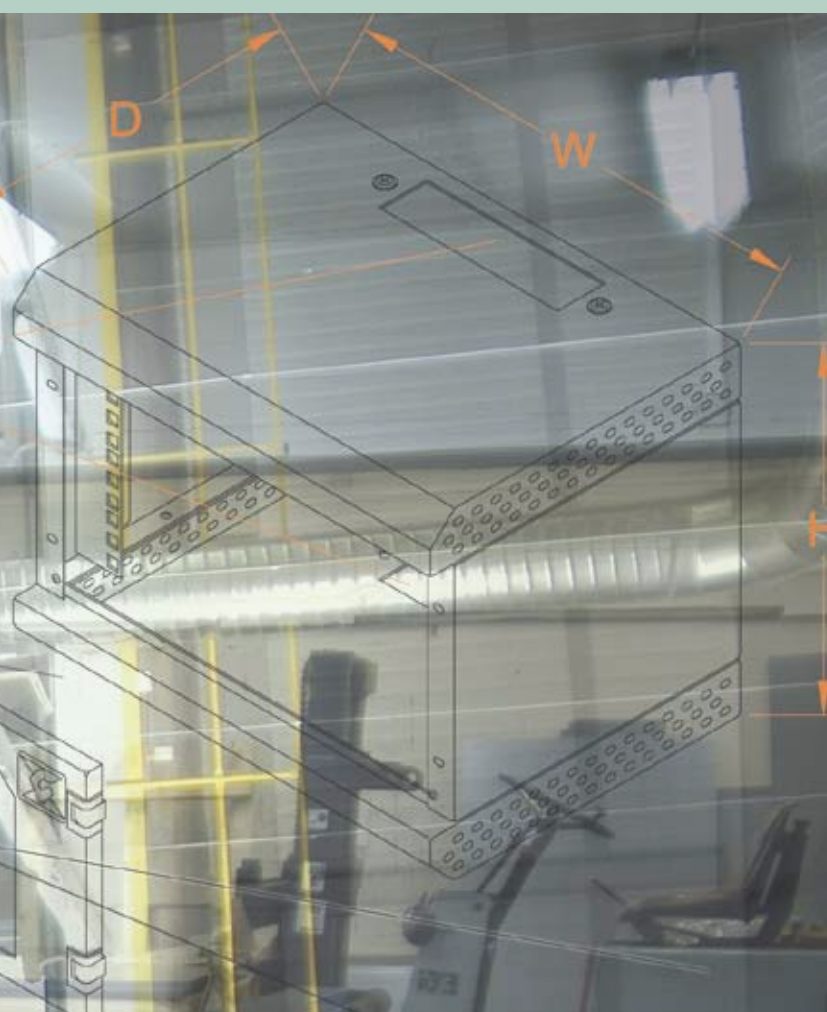




...to complete your network

... SOHO

CUTTINGS FOR CABLE ENTRY
150 x 40 mm



10" WALL-MOUNTING RACKS RSH SERIES

10" wall-mounting telecommunication and data racks designed for installing patch panels, shelves, etc. in small and home offices.



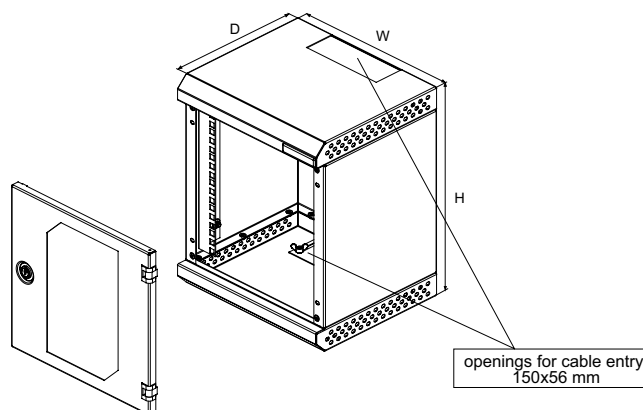
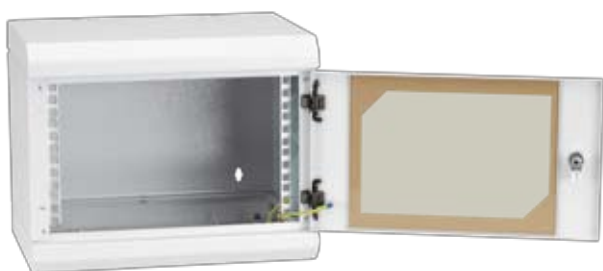
Description:

- Produced in sizes 4, 6, and 9U
- Width 300mm, depth 260mm
- Self-supporting construction; 1.25mm sheet steel
- Color powder coated RAL (standard RAL 7035)
- Reversible door - easy re-hanging to open on right or left (at installation site)
- Door opening angle 180°
- Top and bottom openings for cable entry, size 150x56mm, covered with sliding blank panel with butterfly nuts (DP-DB-200x68) »
- Variable openings in relation to number of entering cables
- Cable entries start on rear edge of enclosure for straight cable path alongside wall
- Two fixed 10" vertical extrusions; possibility to move back by 30mm
- Mounting holes for wall installation on the back
- Load rating max. 20kg balanced load



Standard equipment:

- 1 pair of fixed 10" vertical extrusions
- Tinted security glass door (EN 12150-1) with lock
- Openings for cable entry
- 8 mounting kits



Code	H in Units	Dimensions in mm				Dimensions including packing			Gross weight in kg
		H	W	D	Useful depth	H	W	D	
RSH-04-30/26	4	279	300	260	230	293	325	285	7
RSH-06-30/26	6	368	300	260	230	382	325	285	8
RSH-09-30/26	9	502	300	260	230	515	325	285	10

RSH - PATCH PANELS			
Code	W	H	Used with
DP-PP-S1U	10"	1U	8 modules Keystone type
DP-MP-S1U	10"	1U	12 modules Panduit
DP-DSZ-S	10"	2+1/2U	8 modules LSA-PLUS



DP-PP-S1U



DP-MP-S1U



DP-DSZ-S

RSH - ACCESSORIES			
Code	W	H	Description
DP-PT-S200	10"	1U	Shelf, depth 150mm
DP-ZA-S1U	10"	1U	Blank panel
DP-S01-VENT	10"	1U	Vented panel
DP-VP-PS01	10"	1U	Wire management panel with plastic brackets



DP-PT-S200



DP-ZA-S1U



DP-S01-VENT



DP-VP-PS01

10" FIBER-OPTIC SPLICE BOXES

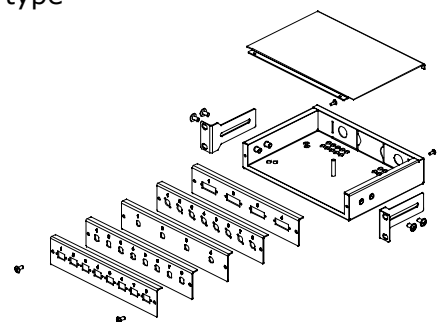
Used for termination of optical cables in RSH racks.

Description:

- Used with modular front panel
- Up to 8 positions ST, SC, or FC type or 4 positions DSC or FCD type
- Height 1U
- Cable entry by two PG couplings on the rear part (included)
- Holes not in use can be covered
- Installation in 10" rack with two sliding holders
- Installation kit for splice cassette size 142 x 95mm included
- Color powder coated RAL (standard RAL 9005)

10" FIBER-OPTIC SPLICE BOXES			
Code	W	D in mm	H
ORMS-01	10"	160	1U

MODULAR FRONT PANELS	
Code	
ORS-08ST	
ORS-08SC	
ORS-04DSC	
ORS-08FC	
ORS-04FCD	



19" IN-WALL RACKS ACP SERIES

SOHO

19" in-wall mounting telecommunication and data racks designed for installing patch panels, integrated access devices etc. in small and home offices. Ideally suited to residential applications where space may be at a premium.



Description:

- Height 550mm, width 530mm, depth 140mm (other sizes on request)
- Box from zinc-coated 1.25, 1.5, and 2mm sheet steel
- Color powder coated lid with hinged door (standard RAL 7035); custom colors available
- Perforated door with lock for effective ventilation
- Door opening angle 180°
- Knock-out at the bottom for an internal electrical outlet
- Multiple 22.6mm conduit knock-outs on all sides of the box
- Cable tie bump outs on rear side of the box
- Two fixed 19" horizontal extrusions (2U)
- Two fixed 19" vertical extrusions (4U)

Standard equipment:

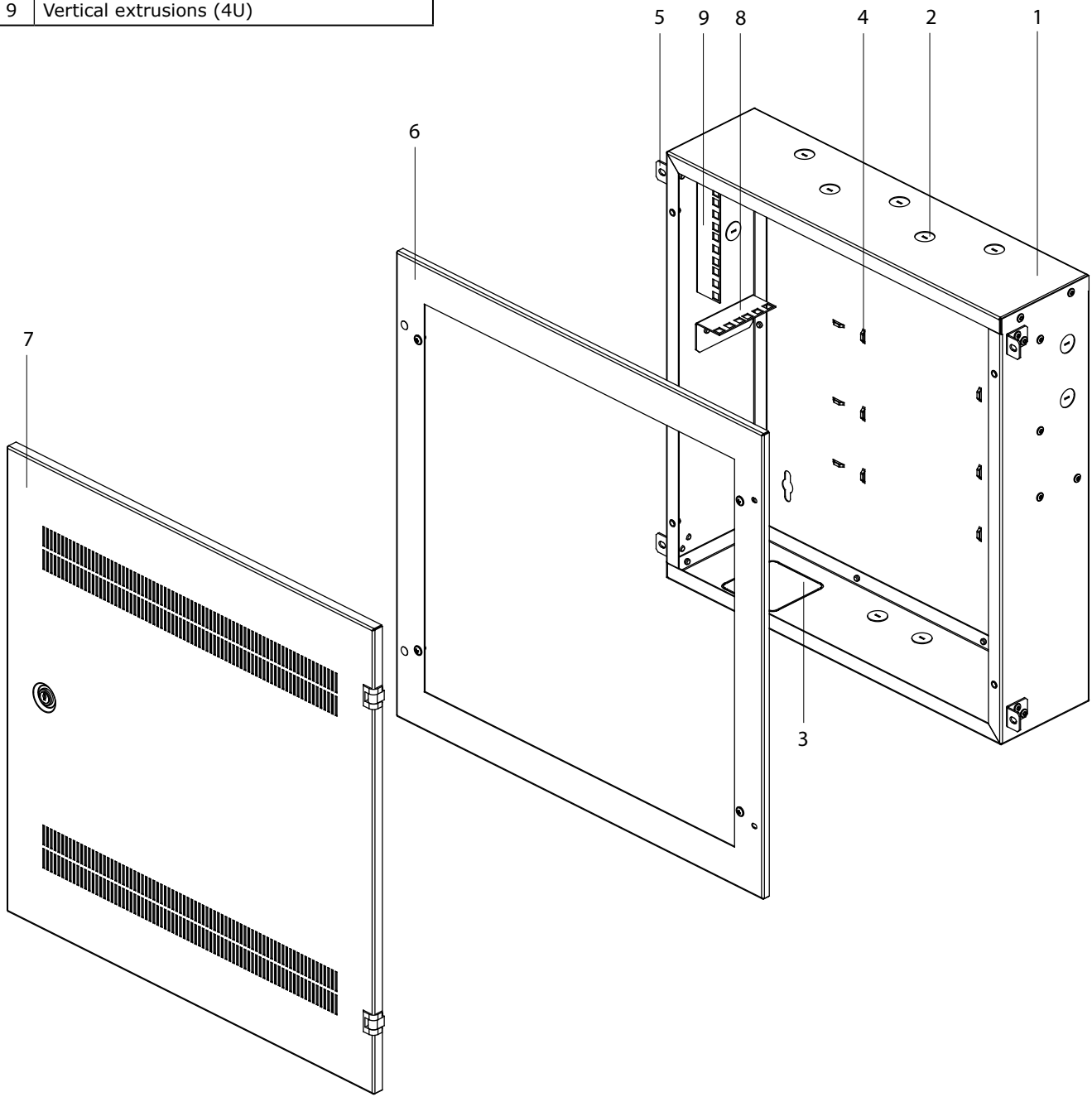
- 1 pair of fixed 19" horizontal extrusions
- 1 pair of fixed 19" vertical extrusions
- Sheet steel perforated door with lock

Code	Internal dimensions in mm			Vertical extrusions		Horizontal extrusions		External dimensions including packing in mm			Gross weight in kg
	H	W	D	U *	UD **	U *	UD **	H	W	D	
ACP-55/53/14	550	530	140	4	90	2	300	630	595	170	12

* length of extrusions in units

** useful depth in mm

DESCRIPTION	
1	Box from zinc-coated sheet steel
2	22.6mm conduit knock-outs
3	Knock out for electrical outlet
4	Cable tie bump outs
5	Mounting brackets
6	Powder coated lid
7	Perforated powder coated door with lock
8	Horizontal extrusions (2U)
9	Vertical extrusions (4U)





...to complete your network

**...Data Center Solution,
Targeted Cooling,**



**Rack Monitoring System,
KVM/LCD...**

DATA CENTER SOLUTION

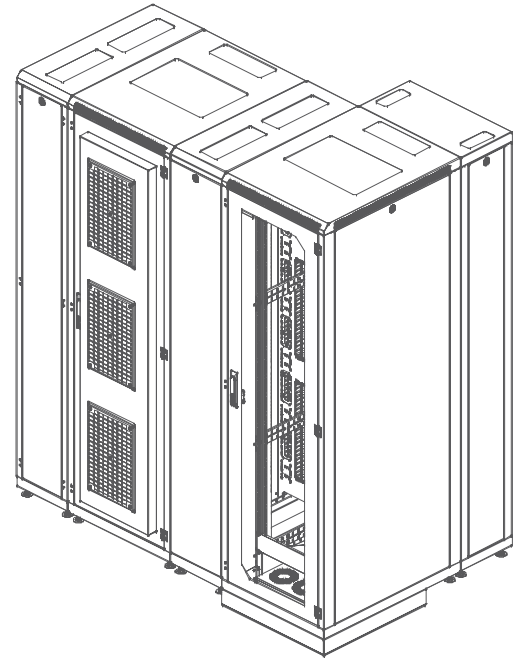
DC solution

Conteg's Data Center Solutions provide flexible, modular design enabling you to maximize available space and tailor the physical characteristics of your installation to suit the unique requirements of your data center.

Data center solution consists of:

- 19" high-load frames RSG/RSX series
- 19" distribution racks ROF series
- System of special sections
- Data center accessories

Conteg Targeted Cooling, Rack Monitoring System (RAMOS Mini) as well as KVM/LCD consoles are also available to complete your solution.



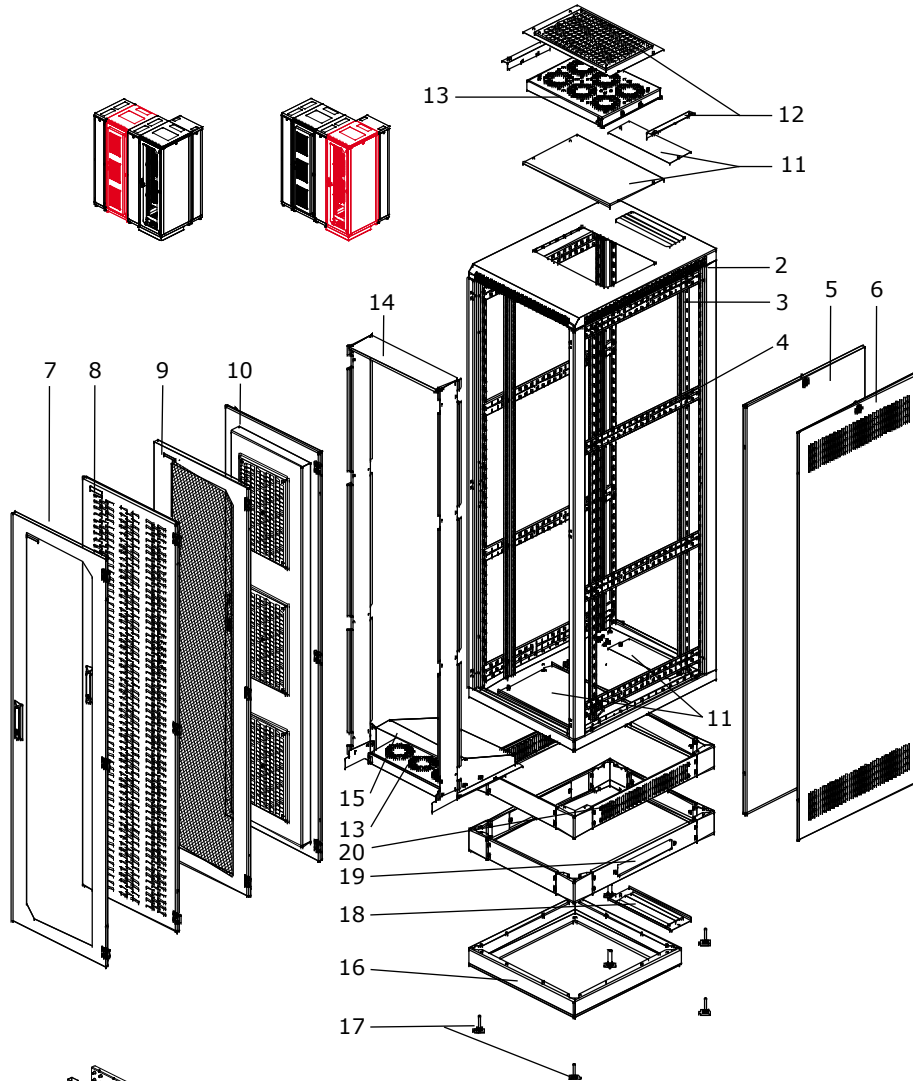
No.	DESCRIPTION		
1	RSG/RSX family adjustable high load open frame	19	Plinth
2	ROF series rack welded frame	20	Plinth with filter
3	Two pairs of 19" vertical extrusions, available also in server, high load and 21" versions	21	Top and bottom cover for ROF middle section
4	Horizontal holders of vertical extrusions	22	Front and rear panels for ROF middle section
5	Sheet steel side panel with lock	23	Vertical panel for middle section of ROF racks with provision for cable management, version of height 42U/width 300mm allows for 9 x 19" positions
6	Sheet steel side panel with perforation with lock	24	Slotted trunking for vertical cable management
7	Security tinted glass door with swivel handle lock	25	Basket trays for vertical cable management
8	Perforated sheet steel door with multipoint swivel handle lock	26	Perforated sheet steel panels for vertical cable management
9	Vented door with multipoint swivel handle lock	27	Brackets for cable management (metal or plastic)
10	Active front door with perforation, ready to accept up to 3 x 6-position ventilation unit with multipoint swivel handle lock	28	End section welded frame (for a row of ROF racks)
11	Blank panels for ventilation unit opening or cable entries	29	Front and rear panels for end section of ROF racks
12	Mounting frame for ventilation unit in top or bottom frames, with or without filter	30	Front/Rear section for ROF racks welded frame
13	Ventilation units (cartridges with 2 - 9 standard or enhanced performance fans)	31	Active rear vented door, ready to accept up to 3 x 6-position ventilation unit with multipoint swivel handle lock
14	Frame for separation of cold zone inside the rack (in front of 19" extrusions)	32	Side panels with lock for front/rear section of ROF racks
15	Deflector for cold air input from raised floor from underneath the rack into cold zone inside the rack	33	Vertical panel for front/rear section of ROF racks, accepting snap-in panels for connectors or adapters
16	Welded plinth for ROF applicable for raised floor installation	34	Vertical panel for front/rear section of ROF racks, version of height 42U/depth 300mm allows for 24 x 10" positions
17	Leveling feet	35	Vertical panel for front/rear section of ROF racks, version of height 42U/depth 300mm allows for 9 x 19" positions
18	Grommet with two layer brushes for preventing cooling air loss - available for installation in racks or to floor tiles		

19" DISTRIBUTION RACKS ROF SERIES

DC solution

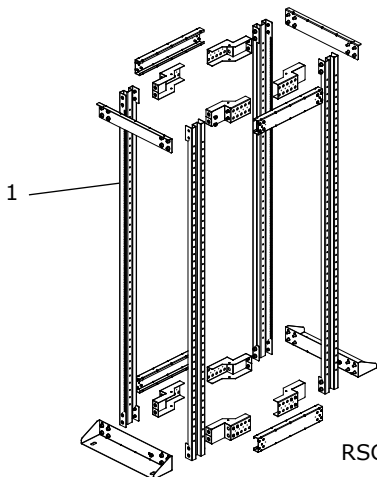
See page 4 – 19" DISTRIBUTION RACKS ROF SERIES

- ROF racks can be positioned on welded installation frame DP-PRF-ROF-60/60 which replaces a floor tile and is installed directly onto the raised floor pedestals
- Special door options – apply the shown codes in positions JK (front door) or LM (rear door) of the ROF racks ordering matrix (see page 9 – ROF ordering matrix)
 - VB for vented door with multipoint swivel handle lock, universal key
 - JB for vented door with perforation, ready for up to 3 x 6-position ventilation unit (active doors), multipoint swivel handle lock, universal key
 - KB for rear vented door, ready for up to 3 x 6-position ventilation unit (active doors), multipoint swivel handle lock, universal key



19" HIGH-LOAD FRAMES RSG/RSX SERIES

See page 82 – 19" HIGH-LOAD FRAMES



RSG-42 (four post)

SYSTEM OF SPECIAL SECTIONS

Middle section

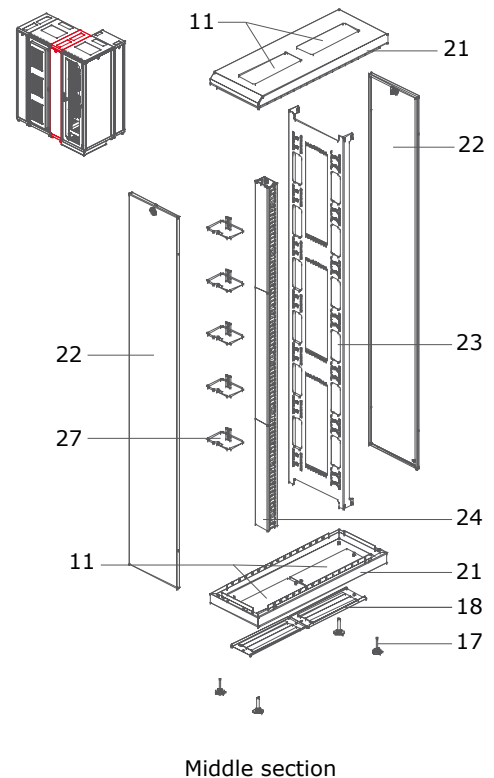
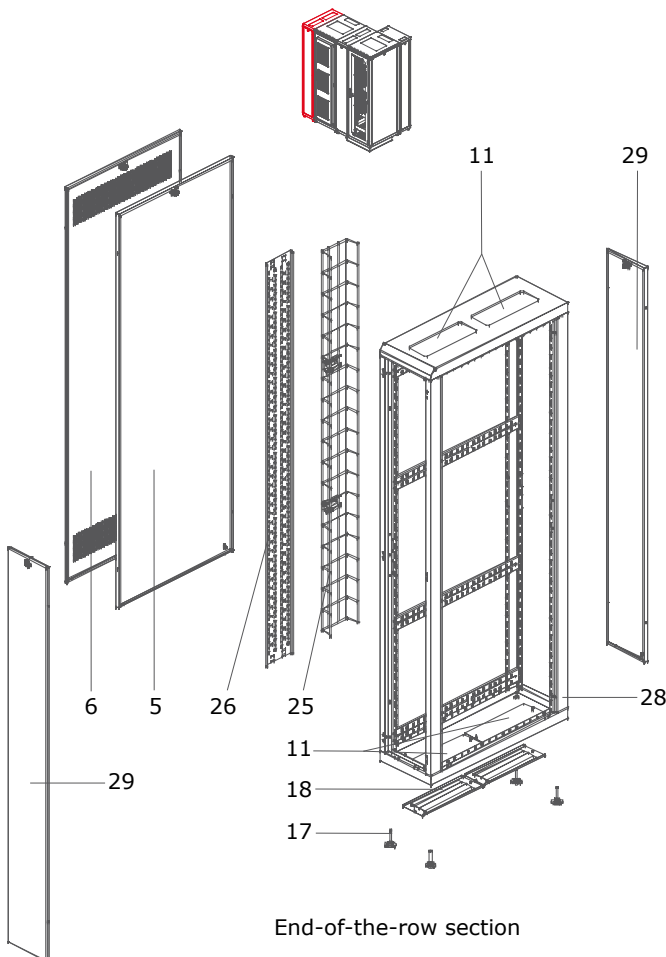
- For cable management, patching, and power distribution for neighboring racks
- Standard width 300mm
- Front and rear panels with locks, no side panels
- Cable entries in bottom and top covers
- Vertical panel with 9 x 19" positions for patching or power distribution
- Accepts all Conteg systems of vertical cable management (plastic or metal brackets, slotted trunking, perforated flat panels, basket trays)

Code	H in U	Dimensions in mm		Consists of
		W	D	
ROF-MS-42-30/80	42	300	800	ROF-MS-TB-30/80, ROF-MS-FP-42/30
ROF-MS-45-30/80	45	300	800	ROF-MS-TB-30/80, ROF-MS-FP-45/30
ROF-MS-42-30/100	42	300	1000	ROF-MS-TB-30/100, ROF-MS-FP-42/30
ROF-MS-45-30/100	45	300	1000	ROF-MS-TB-30/100, ROF-MS-FP-45/30
ROF-MS-TB-30/80	x	300	800	Top and bottom cover for middle section
ROF-MS-TB-30/100	x	300	1000	Top and bottom cover for middle section
ROF-MS-FP-42/30	42	300	x	Front and back panels for middle section
ROF-MS-FP-45/30	45	300	x	Front and back panels for middle section

Code	H in U	Dimensions in mm	
		W	D
ROF-ES-42-30/80	42	300	800
ROF-ES-42-30/100	42	300	1000
ROF-ES-45-30/80	45	300	800
ROF-ES-45-30/100	45	300	1000

End-of-the-row section

- For cable management, patching, and power distribution at the end of a row of cabinets
- Frame construction
- Front and rear panels with locks, no side panels
- Cable entries in top and bottom covers
- Accepts 19" vertical extrusions and/or vertical cable management systems (eg. perforated flat panels, basket trays)



Front/Rear section

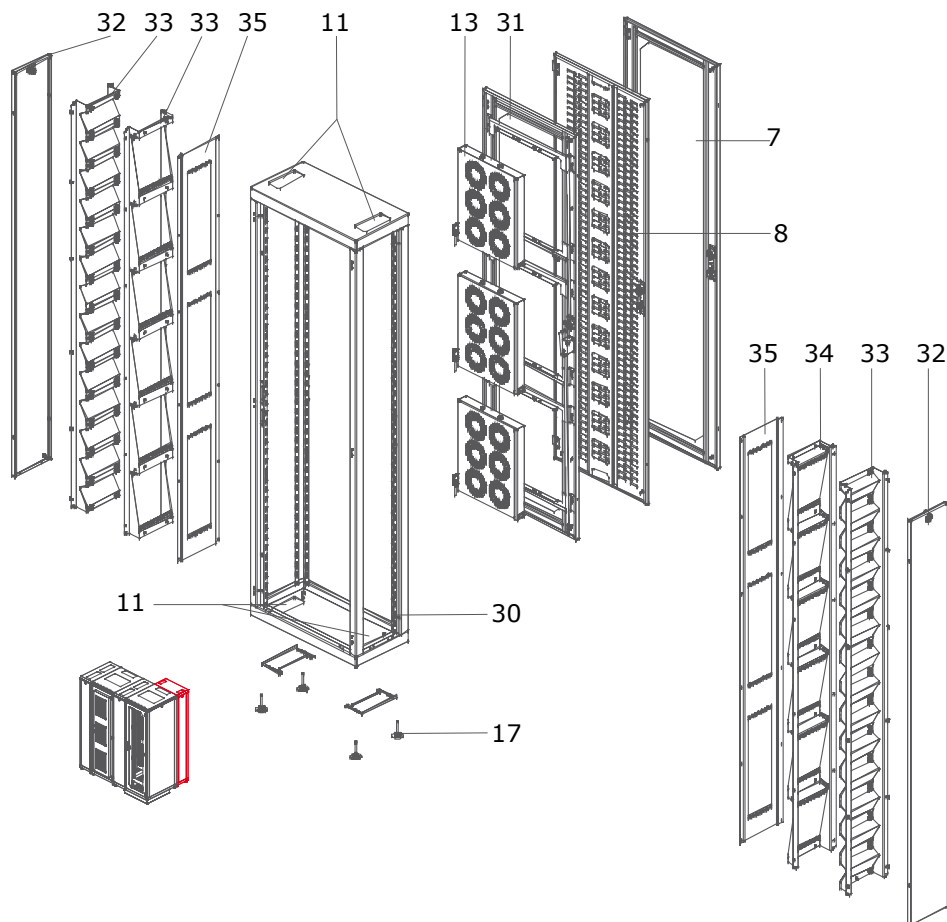
- Enhances available room within cabinet allowing installation of deeper equipment
- Further possibility for patching and power distribution
- Cable entries in top and bottom covers
- Tinted glass door with swivel handle; optionally full range of ROF doors (security glass, sheet steel, perforated sheet steel, vented, active vented, etc.)

Code	H in U	Dimensions in mm	
		W	D
ROF-RS-42-60/30	42	600	300
ROF-RS-45-60/30	45	600	300

- Special door options – add required suffix (shown below) at the end of section code:
 - VB for vented door with multipoint swivel handle lock, universal key
 - JB for vented door with perforation, ready for up to 3 x 6-position ventilation unit (active door), multipoint swivel handle lock, universal key
 - KB for rear vented door, ready for up to 3 x 6-position ventilation unit (active door), multipoint swivel handle lock, universal key



End-of-the-row section



Panels

19" VERTICAL PANELS FOR FRONT/REAR SECTION				
Code	H in U	D in mm	Positions	Note
DP-RS-VP-42/30/19-A	42	300	9 x 19"	x
DP-RS-VP-45/30/19-A	45	300	9 x 19"	x
DP-RS-VP-42/30/10-A	42	300	24 x 10"	x
DP-RS-VP-45/30/10-A	45	300	24 x 10"	x
DP-RS-VP-42/30/RJ-A	42	300	14 x RJ-45	6 position each
DP-RS-VP-45/30/RJ-A	45	300	15 x RJ-45	6 position each
DP-RS-RJ-14-xx	14 empty panels ready for snap in faceplates, 6 positions each, please check with sales for compatibility of the respective RJ-45 brand			

19" VERTICAL PANELS FOR MIDDLE SECTION				
Code	H in U	W in mm	Positions	Note
DP-MS-VP-42/30/19-A	42	300	9 x 19"	Provision for cable management
DP-MS-VP-45/30/19-A	45	300	9 x 19"	Provision for cable management
DP-RS-VP-42/30/19-A	42	300	9 x 19"	x
DP-RS-VP-45/30/19-A	45	300	9 x 19"	x

Cable entries

Code	Opening size (mm)	Note
DP-KP-KAR-4	300x100	Two layers of brushes, suitable for ROF
DP-KP-KAR-A	410x215	Two layers of brushes, for raised floor tiles

Welded plinth

Code	W in mm	D in mm	Note
DP-PRF-ROF-60/60	600	600	Applicable for raised floor installation

Separation frame

Code	Depth of cold zone in mm	Applicable for ROF	
		H in U	W in mm
DP-ROF-CW-42/60/15	150	42	600
DP-ROF-CW-45/60/15	150	45	600

Cold air deflector

Code	Requires H in U	Applicable for ROF depth (mm)
DP-AFD-ROF-60/80/15	2	600-800
DP-AFD-ROF-60/100/15	2	1000

Brackets

Code	Note
DP-RP-VM-01	Brackets for mounting of vertical power distribution unit into ROF frame

Separation frame



Cold air deflector



Welded plinth



TARGETED COOLING

Conteg Targeted Cooling effectively removes the heat produced by equipment used to store, switch, and route data. It gives the flexibility to design different power zones and deliver the cooling where it is needed most - at the equipment!

Cooling

Conteg Targeted Cooling comes in four main types:

- Top Mount
- Wall Mount
- Side Mount
- Rear Mount

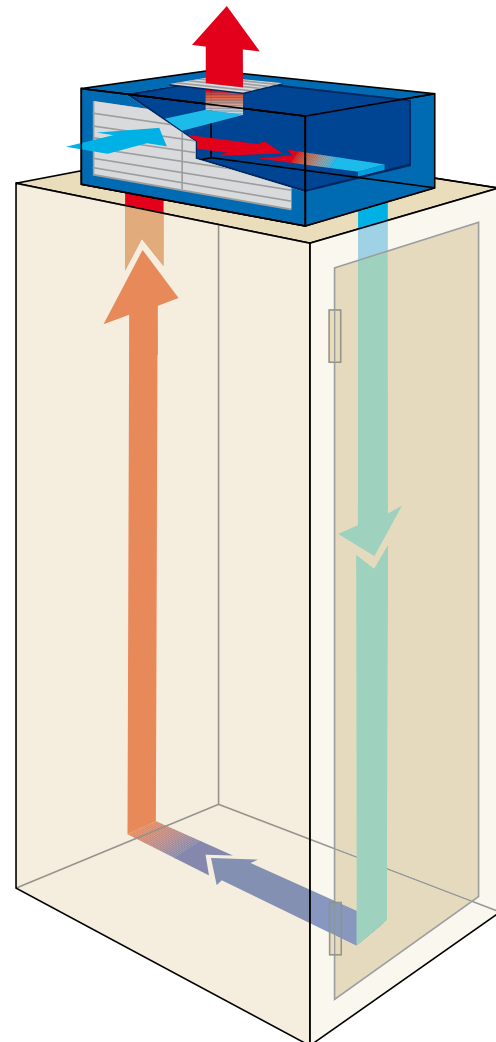
TOP MOUNT COOLING

Top Mount Cooling is designed for deployment in areas where insufficient cooling is available to properly serve the needs of the equipment or where insufficient capacity exists within the central air-conditioning system to cope with the heat load generated by extra equipment. Top Mount Cooling is ideally suited to Remote Comms Rooms with sufficient ceiling clearance.

Description:

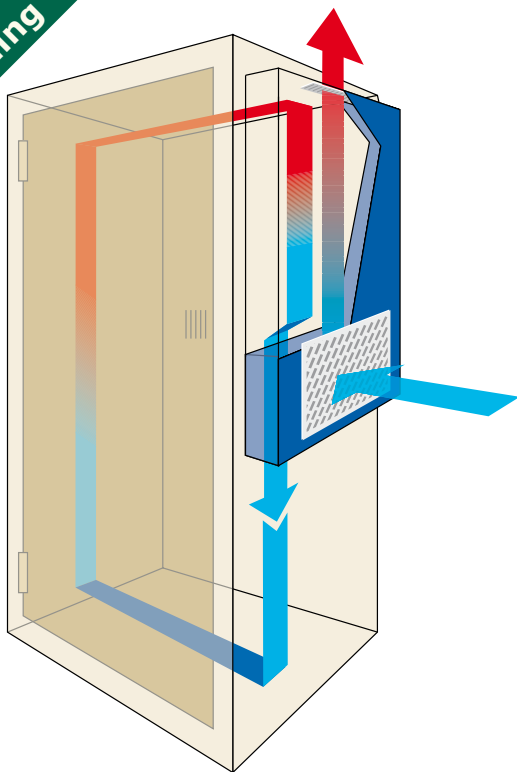
- Capacities from 900 W to 8 kW
- Stand-alone direct expansion (DX) solution - no additional plumbing or piping required
- Condensate Dissipater (1.4 kW version and above) eliminates the need for drainage piping for condensate
- Stulz "triple condensate protection system" ensures the condensate is eliminated giving total flexibility for deployment
- Heat exchanger surfaces have been specially designed to prevent clogging by particles and fibres in the ambient air and remain very efficient in ambient temperatures of up to 50°C
- No filters required - low maintenance
- Electronic Control Boards offer more accurate control of the air-conditioner over standard electromechanical types to ensure optimal efficiency and not over-cooling the cabinet
- Can be integrated with RAMOS Mini (see page 110 - Rack Monitoring System) to remotely alert if the temperature exceeds user defined thresholds

See page 106 – Targeted Cooling matrix



WALL MOUNT COOLING

Cooling unit is mounted onto the side wall of the cabinet by replacing the side panel. The air-conditioning units retain the same technology as the Top Mount cooling but are ideally suited to spaces without sufficient ceiling clearance. Wall Mount cooling comes with flexibility as standard.



- Capacities from 1.1 to 3.0 kW per rack
- Stand-alone direct expansion (DX) solution - no additional plumbing or piping required for heat-rejection
- Heat exchanger surfaces have been specially designed to prevent clogging by particles and fibres in the ambient air and remain very efficient in ambient temperatures of up to 50°C
- No filters required - low maintenance
- Electronic Control Boards offer more accurate control of the air-conditioner over standard electromechanical types to ensure optimal efficiency and not over-cooling the cabinet
- Can be integrated with RAMOS Mini (see page 110 - Rack Monitoring System) to remotely alert if the temperature exceeds user defined thresholds
- Retrofit to an existing ROF cabinet possible - by replacing the side panel and installing blanking plates supplied with the retrofit kit

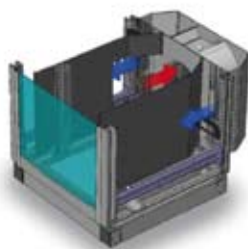
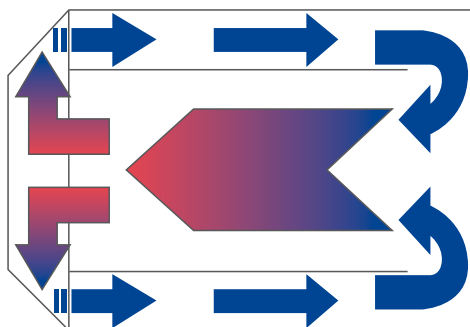
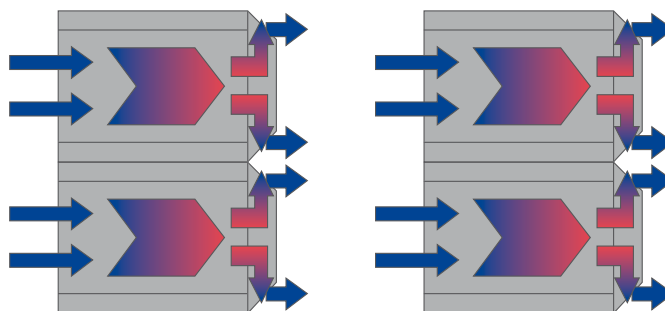
See page 106 – Targeted Cooling matrix

REAR MOUNT COOLING

Rear Mount cooling is designed to address the very high density heat loads typically found in today's data center or equipment room. Rear mount cooling is available with two different architectures:

- Open air loop architecture
- Closed air loop architecture

Open air loop architecture is designed to be deployed in a traditional rack layout where the racks are aligned front to rear to provide additional cold air and cooling capacity when needed.



Closed air loop architecture provides concentrated cooling for very high heat loads and is ideally suited to spot deployment in new or existing data centers.

Both configurations give a high degree of design flexibility to ensure that the cooling needs of the equipment can be met.

- Capacities up to 18 kW mean that even the most demanding blade computing environment can be kept at the optimum temperature
- Heavy duty frame and rear door contain the chiller unit to deliver the chilled air directly to equipment
- Available in both Direct Expansion (DX) and Chilled Water (CW) variants
- Electronic Control Board - cooling and chilled air throughput are controlled with microprocessors to ensure optimum cooling levels are maintained at all times
- Plumbed to either outdoor micro-condensers or the central chilled water systems. Pipes are laid below raised floor and routed to the chilled water or micro-condenser installations

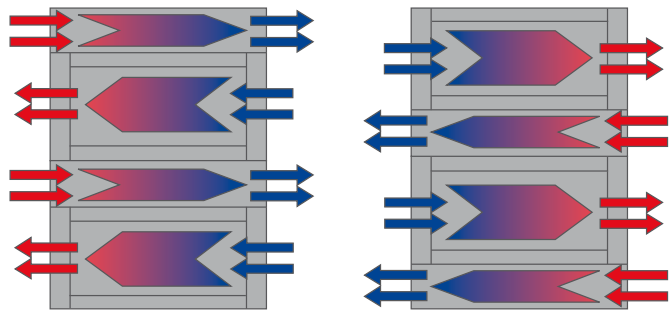
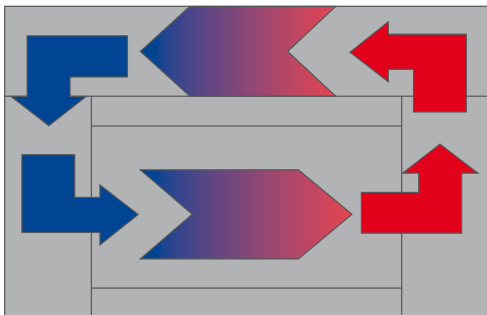
See page 106 – Targeted Cooling matrix

SIDE MOUNT COOLING

Side Mount cooling is designed to address the very high density heat loads typically found in today's data center or equipment room. Available with two different architectures:

- Open air loop architecture
- Closed air loop architecture

Open air loop architecture is designed to be deployed in a hot/cold aisle layout where the racks are aligned front to front (rear to rear) to provide additional cold air and cooling capacity in high power density zones.



Closed air loop architecture provides concentrated cooling for very high heat loads and is ideally suited to spot deployment in new or existing data centers.

Both configurations give a high degree of design flexibility to ensure that the cooling needs of the equipment can be met.

- Capacities up to 18 kW mean that even the most demanding blade computing environment can be kept at the optimum temperature
- Available in both Direct Expansion (DX) and Chilled Water (CW) variants
- Electronic Control Board - cooling and chilled air throughput are controlled with microprocessors to ensure optimum cooling levels are maintained at all times
- Plumbed to either outdoor micro-condensers or the central chilled water systems. Pipes are laid below raised floor and routed to the chilled water or micro-condenser installations

See page 106 – Targeted Cooling matrix

Type of Cooling	Rack Family						
	ROF	RHF	RDF	RMF	RSL	ROS	REV
Top Mount	Use RDF	Yes	Yes	Use RDF	-	-	-
Wall Mount - replaces side panel	Yes	Yes	Yes	Yes	-	Yes	-
Rear Mount Open Architecture (800 wide racks only)	Yes	Yes	Yes	Yes		-	
Rear Mount Closed Architecture (800 wide racks only)	Information on available rack series on request!						
Side Mount Open Architecture	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Side Mount Closed Architecture	Information on available rack series on request!						

ORDERING MATRIX

A	B	C		D		E		F	-	J	K	L	M	N		G	H	I	-	P
R	D	F	-	42	-	60	/	60	-	G	A	S	A	A	-	A	A	4	-	B

Cooling

A	Rack type, ie. frame specification	I	Load capacity
B	Rack type, ie. frame specification	J	Front door
C	Rack type, ie. frame specification	K	Front door lock
D	Rack height in U, only sizes 27, 42 and 48U	L	Rear panel/door
E	Rack width in cm - ie. 60,80	M	Rear panel/door lock
F	Rack depth in cm - ie. 60, 80, 100, 110, 120	N	Side panels (both sides)
G	IP rating **	P	Color
H	Plates ****		

K,M	A	Standard swivel handle, universal key
	B	Standard swivel handle, universal key, multipoint
	C	Standard swivel handle, keyed different
	D	Standard swivel handle, keyed different, multipoint
	E	Swivel handle with combination lock and universal key
	F	Swivel handle with combination lock and universal key, multipoint
	G	Swivel handle with combination lock, keyed different
	H	Swivel handle with combination lock, keyed different, multipoint
	I	Swivel handle with profile half cylinder, universal key
	J	Swivel handle with profile half cylinder, universal key, multipoint
	K	Swivel handle with profile half cylinder, keyed different
	L	Swivel handle with profile half cylinder, keyed different, multipoint
	U	Lock for rear panel, universal key
	X	Lock for rear panel, keyed different
	Other	

J	0	Without door
	G	Glass door
	S	Sheet steel door
	P	Perforated sheet steel door
	T	Glass door with perforation
	V	Vented door (perforation rate 71%)
	W	Vented door (perforation rate 83%)
	A	Vertically divided glass door *
	B	Vertically divided glass door with perforation *
	C	Vertically divided sheet steel door *
	D	Vertically divided perforated sheet steel door *
	E	Vertically divided vented door (perforation rate 71%) *
	F	Vertically divided vented door (perforation rate 83%) *
		Other

L	0	Without panel/door
	G	Glass door
	S	Sheet steel door
	P	Perforated sheet steel door
	T	Glass door with perforation
	V	Vented door (perforation rate 71%)
	W	Vented door (perforation rate 83%)
	A	Vertically divided glass door *
	B	Vertically divided glass door with side perforation *
	C	Vertically divided sheet steel door *
	D	Vertically divided perforated sheet steel door *
	E	Vertically divided vented door (perforation rate 71%) *
	F	Vertically divided vented door (perforation rate 83%) *
	Y	Rear panel - single piece
	R	Rear panel - divided, with cable entry
	Z	Perforated rear panel - single piece
	Other	

N	0	No side panels
	A	2 side panels, sheet steel, universal key
	B	1 side panel, sheet steel, universal key
	C	2 side panels, sheet steel, keyed different
	D	1 side panel, sheet steel, keyed different
	E	2 side panels, sheet steel with perforation, universal key
	F	1 side panel, sheet steel with perforation, universal key
	G	2 side panels, sheet steel with perforation, keyed different
	H	1 side panel, sheet steel with perforation, keyed different
	Other	

P	B	RAL 7035
	H	RAL 9005 fine structure

G	0	IP00
	2	IP20
	3	IP30
	5	IP54
	A	AC ready ***

I	4	400kg
	6	600kg
	9	900kg

* racks 800mm wide only
 ** according to EN 60529
 *** ready for AC unit installation; recommended when cooling is planned or required; IP54 when AC Unit installed
 **** bottom plate always fixed

H	A	Top & bottom plates
	C	Bottom plate only (open top)

All types of vented doors require multi-point lock.
 RDF - part of the ROF family. Recommended for all types of cooling!

TARGETED COOLING SOLUTION MATRIX									
TOP MOUNTED SOLUTION		Required Cooling and Part Numbers (Includes Top Mounting Collar)							
Rack Full Part No - Order AC solution by Part No	900 Watts	1400 Watts	2000 Watts	2800 Watts	4100 Watts	6000 Watts			
RDF-42-60/60-GASAA-AC4-B	AC-TM-09-60/60	AC-TM-14-60/60	AC-TM-20/60-60						
RDF-42-60/80-GASAA-AC4-B		AC-TM-14-60/80	AC-TM-20-60/80	AC-TM-28-60/80	AC-TM-41-60/80				
RDF-42-60/100-GASAA-AC4-B				AC-TM-28-60/100	AC-TM-41-60/100	AC-TM-60-60/100			
RDF-42-60/110-GASAA-AC4-B				AC-TM-28-60/110	AC-TM-41-60/110	AC-TM-60-60/110			
RDF-42-60/120-GASAA-AC4-B				AC-TM-28-60/120	AC-TM-41-60/120	AC-TM-60-60/120			
RDF-42-80/80-GASAA-AC4-B	AC-TM-09-80/80	AC-TM-14-80/80	AC-TM-20-80/80	AC-TM-28-80/80	AC-TM-41-80/80				
RDF-42-80/100-GASAA-AC4-B				AC-TM-28-80/100	AC-TM-41-80/100	AC-TM-60-80/100			
RDF-42-80/110-GASAA-AC4-B				AC-TM-28-80/110	AC-TM-41-80/110	AC-TM-60-80/110			
RDF-42-80/120-GASAA-AC4-B				AC-TM-28-80/120	AC-TM-41-80/120	AC-TM-60-80/120			
RHF-42-60/100-GASAA-ACF-B				AC-TM-28-60/100	AC-TM-41-60/100	AC-TM-60-60/100			
RHF-42-80/100-GASAA-ACF-B				AC-TM-28-80/100	AC-TM-41-80/100	AC-TM-60-80/100			
SIDE PANEL MOUNTED SOLUTION (WALL MOUNT)									
MODEL	1100 Watts	1400 Watts	2000 Watts	2500 Watts	3000 Watts				
ROF 42 60 SIDE PANEL	AC-WM-11-42/60	AC-WM-14-42/60	AC-WM-20-42/60						
ROF 42 80 SIDE PANEL	AC-WM-11-42/80	AC-WM-14-42/80	AC-WM-20-42/80	AC-WM-25-42/80	AC-WM-30-42/80				
ROF/RHF 42 100 SIDE PANEL				AC-WM-25-42/100	AC-WM-30-42/100				
REAR MOUNT HIGH DENSITY SOLUTION									
CLOSED AIR LOOP DIRECT EXPANSION	4000 Watts	8000 Watts	12000 Watts	18000 Watts					
ROF / RHF 42 80 REAR DOOR & FRAME	AC-RC-DX/04	AC-RC-DX/08	AC-RC-DX/A2	AC-RC-DX/A8					
REAR MOUNT HIGH DENSITY SOLUTION									
CLOSED AIR LOOP CHILLED WATER	4000 Watts	8000 Watts	12000 Watts	18000 Watts					
ROF / RHF 42 80 REAR DOOR & FRAME	AC-RC-CW/04	AC-RC-CW/08	AC-RC-CW/A2	AC-RC-CW/A8					
REAR MOUNT HIGH DENSITY SOLUTION									
OPEN ARCHITECTURE DIRECT EXPANSION	4000 Watts	8000 Watts	12000 Watts	18000 Watts					
ROF / RHF 42 80 REAR DOOR & FRAME	AC-RO-DX/04	AC-RO-DX/08	AC-RO-DX/A2	AC-RO-DX/A8					
REAR MOUNT HIGH DENSITY SOLUTION									
OPEN ARCHITECTURE CHILLED WATER	4000 Watts	8000 Watts	12000 Watts	18000 Watts					
ROF / RHF 42 80 REAR DOOR & FRAME	AC-RO-CW/04	AC-RO-CW/08	AC-RO-CW/A2	AC-RO-CW/A8					
SIDE MOUNT HIGH DENSITY SOLUTION									
OPEN ARCHITECTURE DIRECT EXPANSION	4000 Watts	8000 Watts	12000 Watts	18000 Watts	Required Cooling and Part Numbers				
FREESTANDING CABINET ROF 42U, 30x100	AC-SO-DX/04	AC-SO-DX/08	AC-SO-DX/A2	AC-SO-DX/A8					
SIDE MOUNT HIGH DENSITY SOLUTION									
OPEN ARCHITECTURE CHILLED WATER	4000 Watts	8000 Watts	12000 Watts	18000 Watts	Required Cooling and Part Numbers				
FREESTANDING CABINET ROF 42U, 30x100	AC-SO-CW/04	AC-SO-CW/08	AC-SO-CW/A2	AC-SO-CW/A8					

KVM/LCD

::KVM/LCD

KVM/LCD is designed for typical server rooms when direct or remote access to multiple servers is required. KVM/LCD solution requires only 1U of rack height.



Description (LCD drawer):

- 1U rack mount drawer with 17" SAMSUNG LCD, 15", and 19" LCD on request
- Either PS/2 or USB input to the LCD drawer (by cable selection)
- Multiple keyboard language selections with touchpad (optionally trackball)
- 104 key notepad keyboard with full numerical pad; keyboard with USA, GBR, JPN, DEU, FRA, ITA, RUS, ESP, CHN, KOR, DNK, CHE, NOR and European layout; other layouts on request
- Slide rails with fixed positions to prevent drawer movement when typing
- Multi lingual on screen display menu
- Single console access
- Standard input 230V; 12, 24 and 48V DC power options available on request
- Single or 'One Man' Installation slides for easy and quick installation on request
- LCD drawer without KVM console available on request

Description (KVM console):

- High density Cat5 KVM with either 16 or 32 ports in 1U of rack space
- USB KVM with either 8 or 16 ports in 1U of rack space
- Cost efficient DB15 KVM integration
- Secure remote user access across the world wide web with model K-SA-171-CIP3201P-E
- Multiplatform: Mix PC, SUN, IBM, HP, DELL Servers
- Support: Windows Vista, 2003/XP/2000, Linux, Netware, Unix
- Security: password enable/disable
- Mixed type of cable by type server connections via Cat5 solution

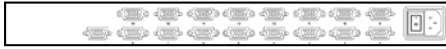
Code	H in U	Dimensions in mm			Dimensions including packing in mm			Weight in kg	
		W	D	H	W	D	H	Nett	Gross
K-SA-171	1	442	650	44	589	856	168	20	29

Code	Number and type of port	Access over IP	Expansion
K-SA-171-S1601P-E	16x USB *	No	up to 128 servers by 8-level cascade
K-SA-171-S801P-E	8x USB	No	up to 128 servers by 8-level cascade
K-SA-171-C1601P-E	16x Cat5 **	No	up to 256 servers by 8-level cascade
K-SA-171-C3201P-E	32x Cat5 **	No	up to 256 servers by 8-level cascade
K-SA-171-CIP3201P-E	32x Cat5 **	Yes	up to 256 servers by 8-level cascade

* includes 8 KVM cables (additional cables ordered separately)

** USB, PS/2 dongles or Cat5 cords required for use with this switch (ordered separately)

K-SA-171-S1601P-E



K-SA-171-S801P-E



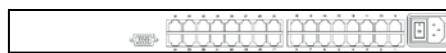
::KVM/LCD



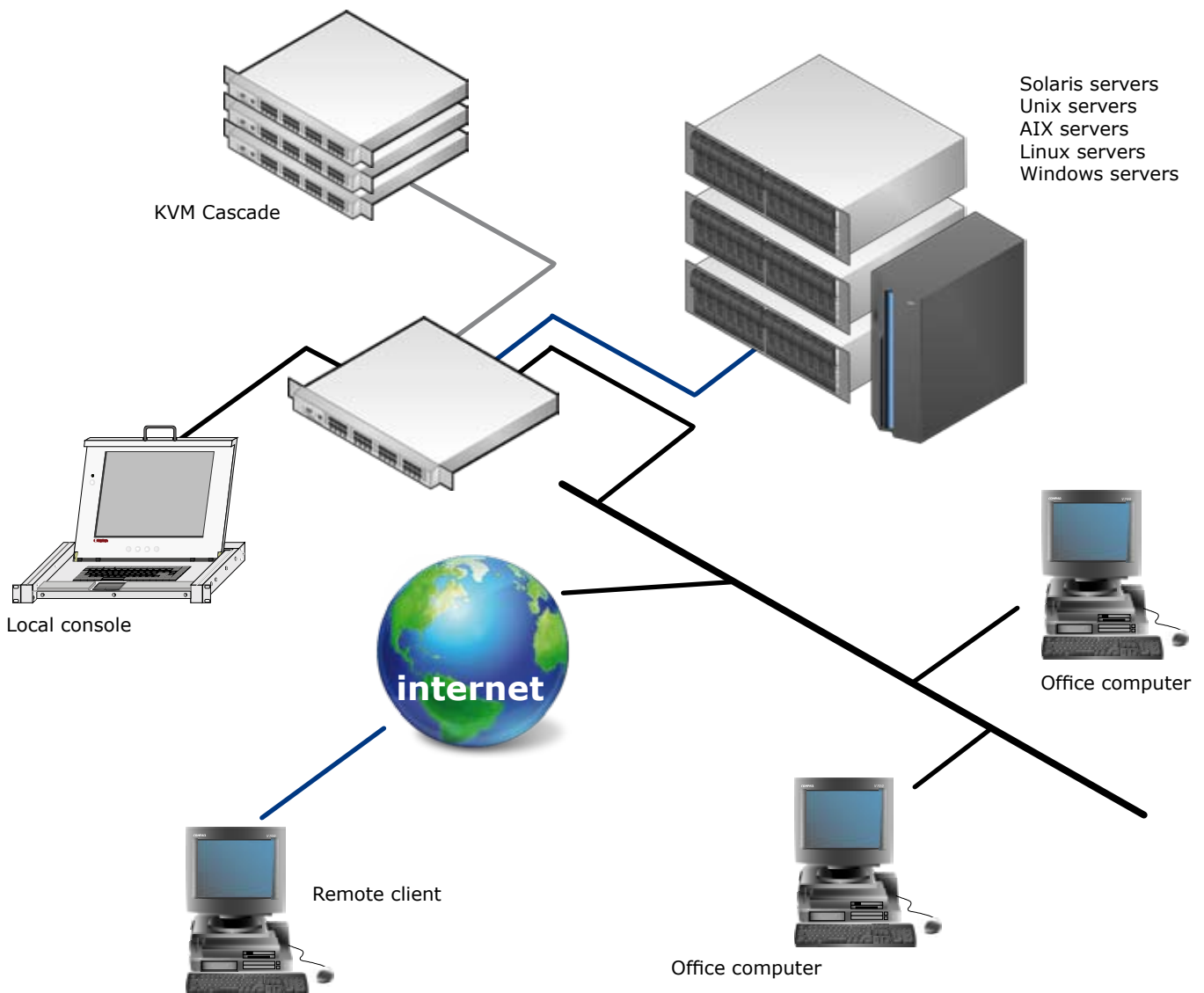
K-SA-171-C1601P-E



K-SA-171-C3201P-E



K-SA-171-CIP3201P-E



RACK MONITORING SYSTEM

RAMOS Mini is a monitoring device designed to monitor and transmit vital environmental information across the network. With RAMOS Mini, the environment both inside and outside the rack can be monitored easily and reliably, ensuring that mission critical systems are in the optimum environment. In the case of alarm thresholds being exceeded, the RAMOS unit sends alerts to ensure that support staff are aware of a problem and can proactively act to resolve the situation.

Description:

- 2 outputs (relay switch contact)
- 4 inputs to connect dry contacts
- Up to 4 temperature or humidity sensors (dependant on type of RAMOS Mini unit)
- For sensors (up to 10 meters) standard phone switches, cables, and RJ11 or RJ12 connectors can be used
- Contact switching can send e-mail or SNMP trap to several recipients

Code	Sensors	Inputs	Outputs
Ramos Mini A	up to 2	-	-
Ramos Mini B	up to 3	4	-
Ramos Mini C	up to 4	4	2

- Wide range of accessories
- No specialized SW necessary, simple Ramos Setup utility
- Possibility to connect to every building monitoring system in the industry, IT and networks
- Support and plug-in modules for many NMS applications (LoriotPro, Nagios, SNMPc, HP OpenView, IBM Tivoli, MRTG and others)
- Built-in graphic web interface for configuration and value monitoring
- 1 RAMOS Mini unit can monitor up to 8 external sensors (4 contacts, 4 sensors on a bus)
- 1 RAMOS Mini unit can control two outputs (relay switch contact up to 50V DC or voltage output for external relay)
- 1 output can be used for local alarm signal
- Each sensor has its own unique ID
- Warning of alarm state over email, SNMP trap, SMS (over SW)
- Open communication protocols (web, email, SNMP, XML, Modbus/TCP)
- Security: password, IP addresses range, HW security of configuration changes
- Support of majority of SCADA systems (OPC server and I/O server over Modbus/TCP)
- Programs for IT monitoring (nmsDashboard), food industry (CapTemp) and others
- SDK (Software Development Kit) development libraries + examples (VB, Delphi, C, C#)

Standard equipment:

- 1 RAMOS Mini unit
- 1 temperature sensors 1-Wire
- 1 door contact
- 1 EU version 12V wall plug adaptor
(UK, US and other versions upon request)
- Installation CD (RAMOS Setup)



RAMOS Mini B



RAMOS Mini C



RAMOS Mini A

Code	Description
RMS-ST-01	1-Wire Temperature sensor on a 1 meter long cable with RJ12 connector
RMS-ST-02	1-Wire Temperature sensor on a 3 meter long cable with RJ12 connector
RMS-ST-03	1-Wire Temperature sensor on a 10 meter long cable with RJ12 connector
RMS-ST-04	One wire temperature and humidity sensors, rack mounting kit, 3 meter long cable, 2x RJ12 connector
RMS-ST-05	1-Wire Temperature OUTDOOR sensor on a 3 meter long cable with RJ12 connector
RMS-SH-01	1-Wire Humidity sensor, 1 meter long cable, RJ12 connector
RMS-SH-02	1-Wire Humidity sensor, 3 meter long cable, RJ12 connector
RMS-STH-02	One wire temperature and humidity sensors, rack mounting kit, 3 meter long cable, 2x RJ12 connector
RMS-DE-01	Optical smoke detector with relay output
RMS-DE-02	PIR motion detector
RMS-DE-03	Flammable gas detector
RMS-DE-04	Flood detector
RMS-DE-05	Broken glass dual detector
RMS-CON-04	Hub for connecting of 2 sensors to 1-Wire bus
RMS-CON-05	Hub for connecting up to 5 sensors to 1-Wire bus
RMS-MK-01	Magnetic contact, fixing bracket (universal mounting) and connection accessories included, VdS G, 2,5 m
RMS-MK-02	Magnetic contact, fixing bracket (universal mounting) and connection accessories included, VdS C, 2,5 m
RMS-MK-03	Simple door contact
RMS-PWR-01	PowerBox, remote switching external devices up to 230V/10A, power detection feature *
RMS-PWR-02	12V / 1.3Ah backup power supply 12V DC, 15V AC input, EU 15V AC power adaptor included
RMS-AS-01	Acoustic siren with LED signalling, 120 dB
RMS-PW-01	Europe plug power adaptor 12V / 0.5A
RMS-PW-02	USA plug power adaptor 12V / 0.5A
RMS-PW-03	UK plug power adaptor 12V / 0.5A
RMS-PW-04	Power adaptor with IEC-320 C14 power plug input

* RAMOS Mini C only



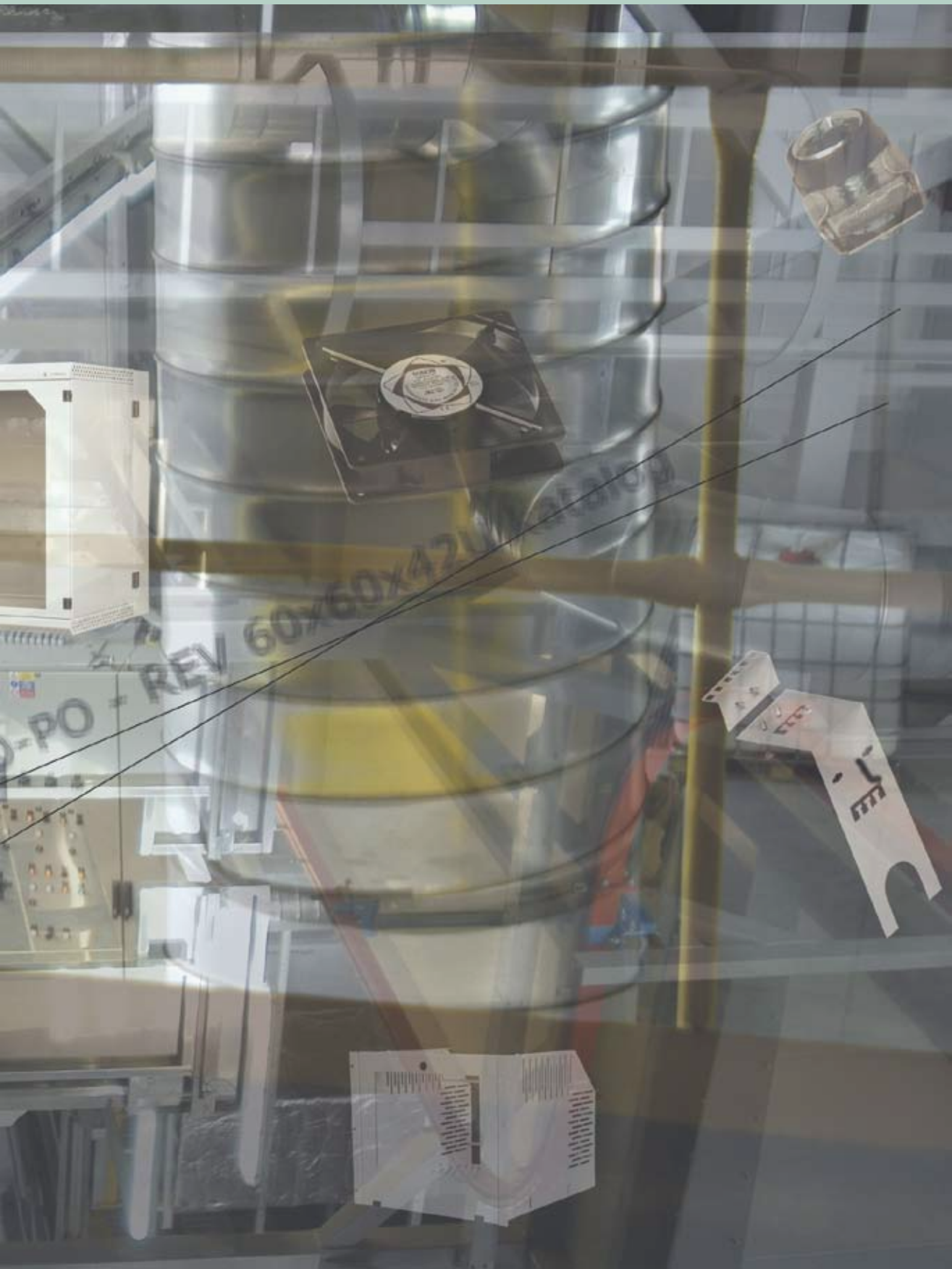
RMS-MK-03

RMS-CON-04



RMS-SH-02





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