

# ServerMAX free standing

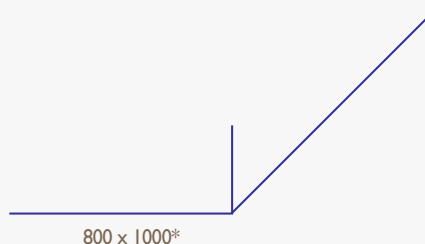
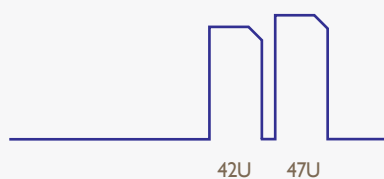
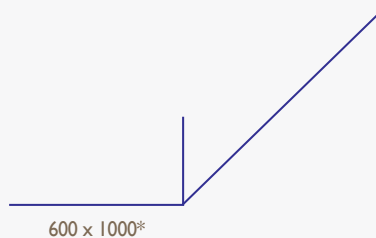
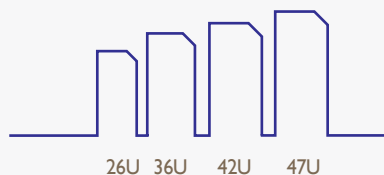


- Compatible with all EIA-310 compliant 19" equipment. All type of servers, brands will physically fit in ServerMAX server cabinet.
- Bottom plate has an extra perforated plate to prevent insects or mice from reaching the cables.
- Efficient passive air circulation
- Numbered U positions facilitate easy installation of rack mounted equipment.



600x1000 - 800x1000

## ServerMAX free standing enclosure



**“ServerMAX protects your technological investments,,**

- 19”
- HIGH QUALITY PRODUCTS
- COMPLIMENTS YOUR DECOR AND ENVIRONMENT
- SECURE AND STURDY
- EASY TO MAINTAIN: LARGE INNER VOLUME
- HIGH SECURITY FOR UNAUTHORIZED ACCESS
- STRONG PROTECTION AGAINST PHYSICAL DAMAGE
- EXCELLENT PASSIVE AIR VENTILATION

\* Please check drawing pages for cabinet sizes.

### STANDARD DIMENSIONS:

Heights: 26U, 36U, 42U, 47U  
Width: 600 mm  
Depth: 1000 mm

Heights: 42U, 47U  
Width: 780 mm  
Depth: 1000 mm

**LOAD CARRYING CAPACITY:** 1000 kg

### COLOUR:

RAL 9005 black

RAL 7035 light grey



### STANDARDS:

ISO 9001 : 2008 Quality Management Systems  
ISO 14001: 2004 Environmental Management System  
19" mounting to IEC 297-1  
EN 61587-1 mechanical structures (cabinets for electronic equipment)  
Overall cabinet dimensions for IEC 297-2

## KEY FEATURES

**Adjustable mounting depth:** 19" mounting angles are adjustable in depth for various mounts for adjustable depth distance, please look at drawing pages.

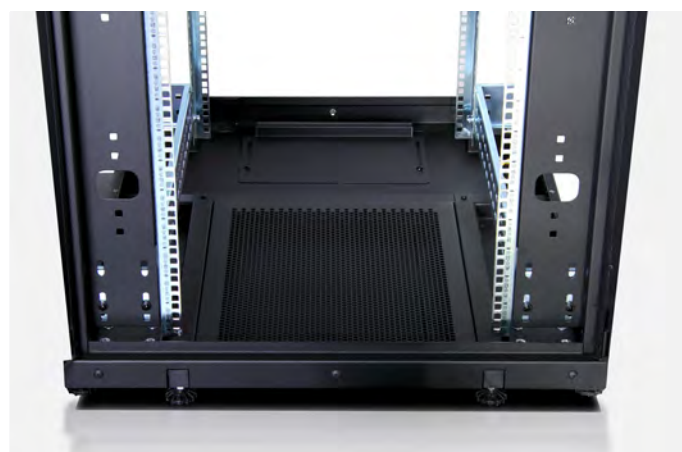
**Bottom plate:** fitted with an additional plate to prevent insects/vermin. If necessary a filter may be integrated to prevent dust infiltration. Bottom plate is complete with pre-punched removable sections: when airflow comes from the floor; these sections can be removed to provide efficient airflow inside the cabinet.

**Reversible doors:** Front and rear doors may be detached and reversed to allow the door to open from the rear of the cabinet.

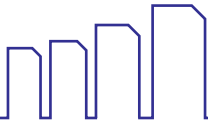
**Side doors are split in two:** Front section used to access the cabinet; additional smaller section secured inside the cabinet. If additional ventilation is necessary it can be demanded as vented. The main inner strip of this panel is designed for the housing of cables and power strips.

**Numbered "U" positions** facilitate easy installation for rack mounted equipment.

**Vertical mounting rails** with square holes; adjustable in depth.







600x1000 - 800x1000

**Optional plexi front door:** May be used instead of vented front door.

**All in one:** ServerMAX includes; casters, doors, ground studs, levelling feet, roof, bottom, side panels, C-rails, tilt bars, unloaded fan tray.

**Optimized depth:** 1000 mm. Today and next generation installation of servers, for power distribution and cable management. 1000 mm is the optimum depth for comfort cabling, housing server and gaining space in data centers.

**Fixing to floor:** ServerMAX can be easily fixed to the floor when necessary. A floor fixing kit is used for this purpose. Please see accessories for floor fixing kit.

**Efficient passive ventilation:** New generation servers and networking products need adequate ventilation to operate efficiently. ServerMAX server cabinets provide

efficient passive ventilation because of its vented structure of front and rear doors. Front and rear doors have maximum perforation (%63) patterns for high-density cooling that meets or exceeds server manufacturer's ventilation requirements.

**There is a fan tray on roof:** Removable easily from the top. When the maintenance of fans are required, it can be reached directly from the top without touching any mounted device or servers.

It is possible to attach a filter on top of the server fan unit.

**Generous cable access holes** are provided in the roof and base. One on top, one on bottom holes are special ESTAP style cable entries; sliding type with rubber edges.



**Quick release side doors:** During installation and while conducting routine maintenance of installed equipment, it is often advantageous to remove the side panels. Quick release slam latches and locks on the side panels allow for quick and easy access.

**Double opening rear doors** improve access and serviceability to rear of rack mounted equipment. The split rear doors help to maximize floor space. Only 390 mm for W=780 mm cabinets of clearance is required behind the enclosure to allow for door swing.

**D= 200 mm extension unit:** If deeper equipment is loaded into ServerMAX cabinets requiring additional depth for cable radius, cable bundles, PDU housing etc, a D=200mm extension unit may be installed to ServerMAX cabinets: the rear door is removed and reinstalled onto the extension unit. (Please see diagrams on pages 18-19)

**Expansion:** ServerMAX enclosures can be easily expanded to create complete rows of enclosures without side panels. With a proper baying kit (please see accessories) all cabinets are bayed easily and quickly.

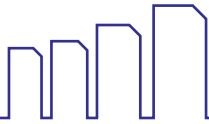
**Welded:** Bottom and roof of the cabinet is completely welded and a closed structure. Sturdy and rugged, it protects against physical elements like dust, insects.

**Lockable doors and side panels:** Front and rear doors are lockable using a 3 point locking mechanism. A handle-style locking system provides increased security to prevent unauthorized access. All doors and side panels are only accessible with a key provided by ServerMAX.

**Stability:** Heavy duty frame design, 2 mm mounting rails, angles, heavy duty type castor group provide 1000 kg load rating.

**Anti-tilt bars:** As standard, ServerMAX is fitted with 2 sliding type tilt bars to make the cabinet stable in weight center. Whenever the servers are moved out, tilt bars are drawn out to counter-balance the cabinets weight center.





## FEATURES

600x1000 - 800x1000

**Grounding:** All parts are fitted with grounding studs to provide electrical continuity.

**Heavy duty vertical frames:** Instead of 4ea. vertical profiles, ServerMAX cabinets are 6ea. (3ea. in left + 3ea. in right) main vertical profiles that gives extra stability for heavy loads.

**More C rails:** Instead of 6ea. there are 8 horizontal C rails in depth for extra stability. (42U, 47U)

**Reinforced bottom:** Bottoms are reinforced with horizontal profiles in width and depth for extra stability.

**Rounded aesthetic monoblok front door:** Front door is a heavy duty type monoblock perforated and welded structure. Its shape is rounded in front to enhance the aesthetics.

**Surface treatment:** Fosfat coating, oil remove and passivation.

**Material thicknesses:** Roof, bottom, vertical main frames, 1,5 mm C-rails, 19" mounting angles, profiles and all frames are 2 mm thickness. Sturdy steel construction.

**Paint:** Electrostatic powder coating.

**Easy to dismantle and assembly:** The rigidly welded frame construction can be dismantled and assembled easily without any special tools. Thus, narrow doors, staircases and lifts are no problem.

**Special cable entry on top and bottom case:**

Bottom plate and top case have a special cable entry, completely closed, sliding type with rubber edges. Cables are entered and fixed.

**Housing for cabling:** The cabinet itself has enough housing for vertical cable management at back. For 600x1000 cabinet, cable rings are used for cable management. For 780x1000 cabinets there are special vertical cable management panels of left & right with cover plate for hiding and protecting the cables. These allow customers to easily route, manage and access large numbers of data cables even while an enclosure is loaded with rack mount equipment and bayed in a row.

**Power/energy distribution:** Rear power distribution housing at back of the cabinet provide easy access to multiple receptacles. Vertical power distribution strips can easily be mounted in that space. This housing never interfere with equipment or takes any valuable "U" space. Providing increased accessibility to receptacles allows customers to support more power cords within the enclosure. Power strips are the length of cabinets: 26U, 36U, 42U, 47U.





“More Volume Width=780 mm:  
Provides more efficient  
cooling and more  
professional cabling”

**ServerMAX Width=780 mm cabinet has all features mentioned before. Plus these additional features.**

**Left and right front panel:** Front panels can be used to hide unwanted views of cables. If server cabinet is additionally used for networking in the front, cable management is needed: Estap cable rings can be used to attach this panel and secure cables. Access holes allow the patch cord to reach the rear of cabinet.

**Vertical cable management panels** can be used at rear of the cabinet for professional cabling and to hide the power cables.

**Extra Housing space for cabling and power distribution:** This extra space provides housing for the vertical cable management panels and the vertical power strips.





## STEPS TO SELECT THE RIGHT FREE STANDING ENCLOSURE

In addition to Estap product part numbers, the options mentioned on the next page are to supply the right definition to meet your requirements.

Each wall mounted and free standing enclosure section in the catalogue, has a "Main part number structure" and "Options" sections.

The below example explains how to select the right options for your needs.

**The product part number has the below structure for ServerMAX W=600 mm:**

Product range name      +      U height (HHU)

**The product options have the below structure:**

Colour option (MX)      +      Front door option (FX)      +      Rear door option (RX)

## HOW TO SELECT THE OPTIONS

### Step 1

Please choose product part number.

For example : **SRV42U (Width=600 mm)**

### Step 2

Please choose the colour from the table and place it after the part number.

For example : **SRV42U - M01** (MX=Look at the MX colour options on the next page)

### Step 3

Please choose the front door from the table and place it after **MX** colour.

For example : **SRV42U - M01 - F15** (FX= look at the FX front door options on the next page)

### Step 4

Please choose the rear door from the table and place it after **FX** front door option.

For example : **SRV42U - M01 - F15 - R07** (RX= look at the RX rear door options on the next page)



## MAIN PART NUMBER STRUCTURE

SRV		- HHU	
Product range ServerMAX		U	height
SRV	+	HHU	
SRV			26U
			36U
			42U
			47U

**SRV** : ServerMAX product range (W=600 mm)

**HHU** : "U" height

**WD** : 600x1000 mm

## OPTIONS

MX - FX - RX				
Colour options		Front door options		Rear door options
MX	+	FX	+	RX
M01		F14**		R07*
M02		F15		
		R07*		

**MX** : Colour options

**M01**= RAL 9005 black

**M02**= RAL 7035 light grey

**FX** : Front door options

**F14\*\***= Single opening, monoblock, welded, curved %63 perforated door, 3 point handled locking

**F15**= Single opening, monoblock, welded, curved plexi glass door, 3 point handled locking

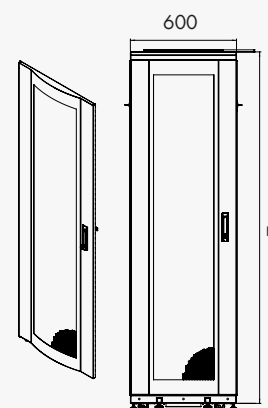
**RX** : Rear door option

**R07\*\***= Double opening %63 perforated door with complete metal frame, 3 point handled locking

**FX\*\*\***

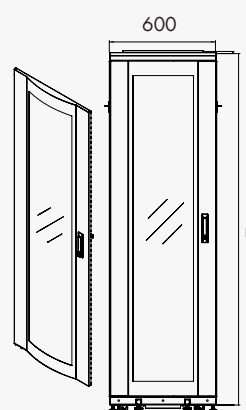
Front door options

**F14\*\***



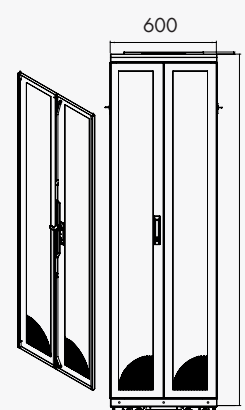
Front view

**F15**



Front view

**R07\***

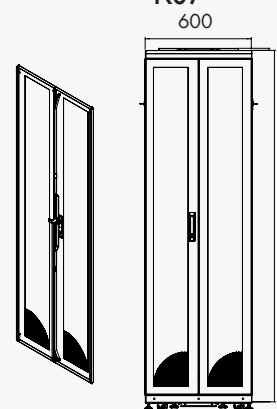


Front view

**RX\*\*\***

Rear door option

**R07\***

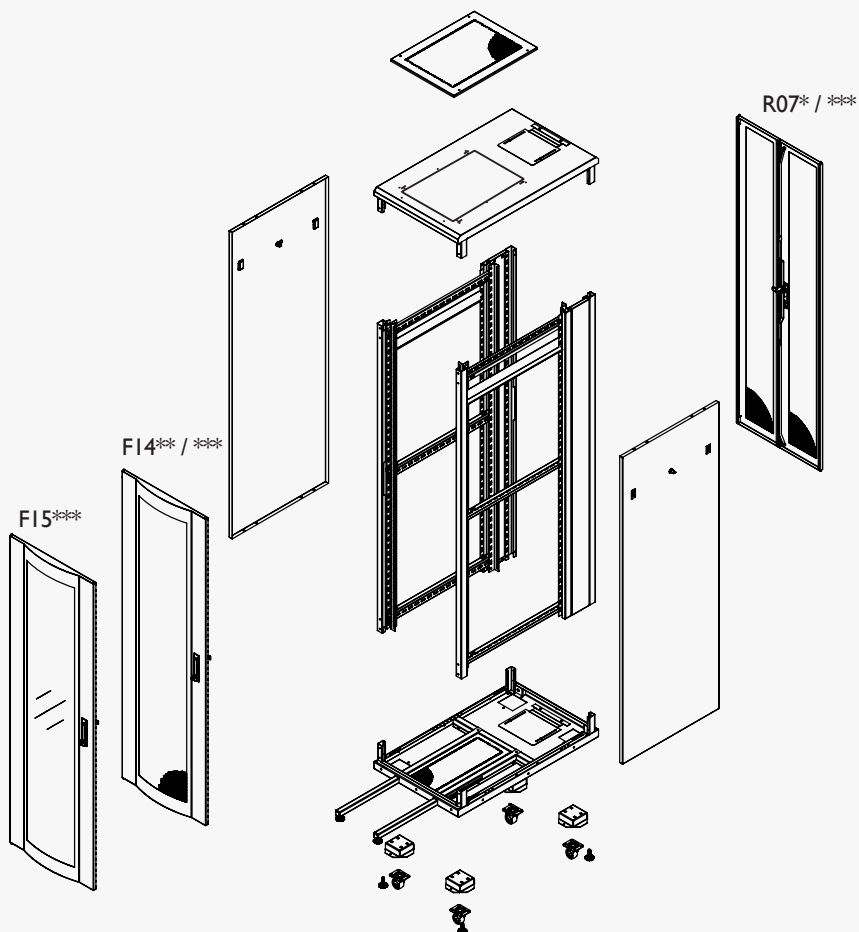


Back view

H= Enclosure height

\*\*\* F14, F15 R07 can be used as front or rear door.

\* R07 is the standard rear door.  
\*\* F14 is the standard front door.



Exploded view

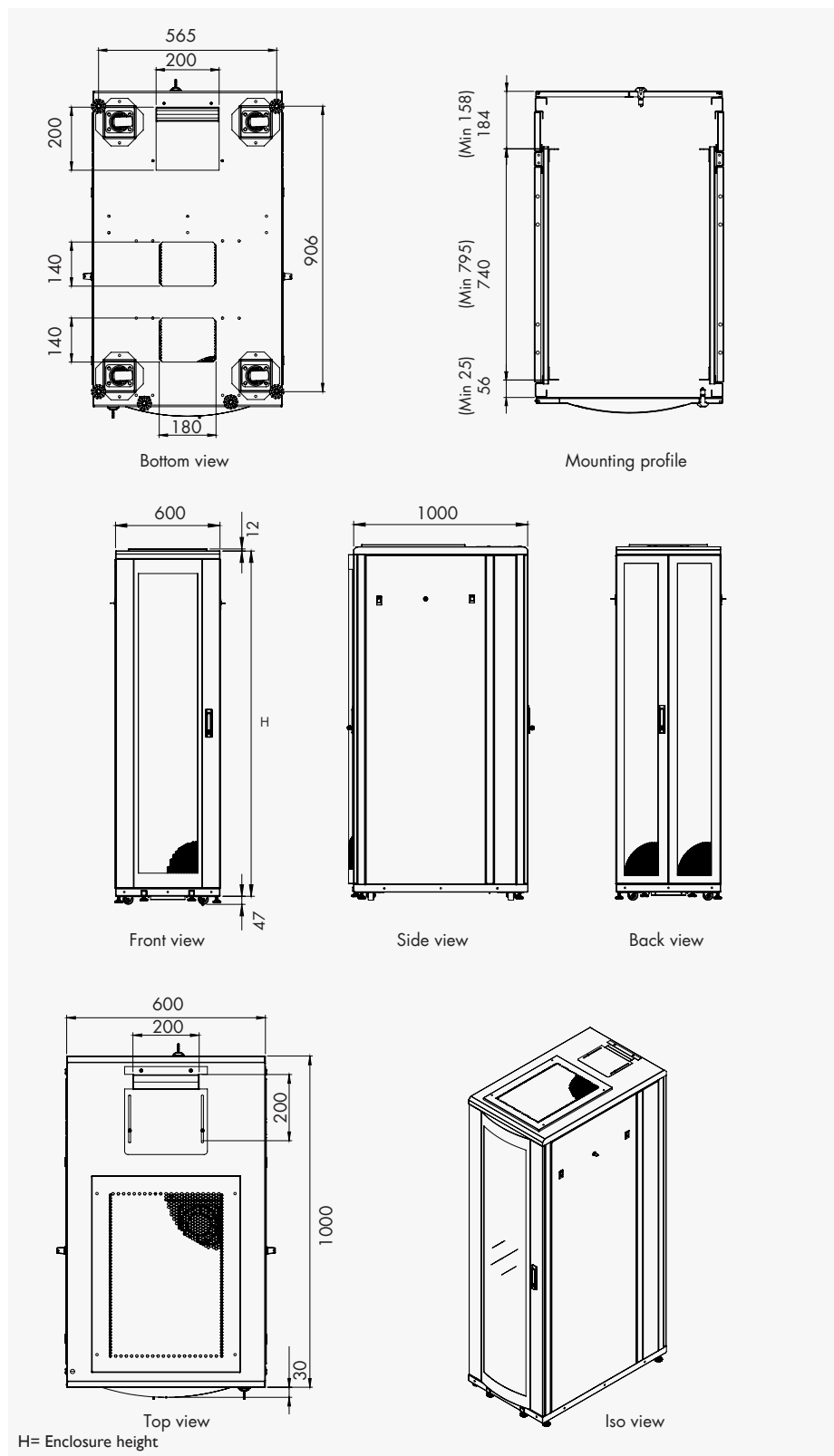
### ServerMAX cabinets 19" 600 x 1000 mm

Part number	Product definition (mm)	U Size	Width: overall (mm)	Depth: overall (mm)	Depth: max mounting profile (mm)	Height: vertical mounting profile (mm)	Height: without levelling feet (mm)	Height: with casters (mm)
<b>SRV26U</b>	26U 600x1000 mm	26	600	1000	740	1179	1291	1338
<b>SRV36U</b>	36U 600x1000 mm	36	600	1000	740	1623	1735	1782
<b>SRV42U</b>	42U 600x1000 mm	42	600	1000	740	1890	2002	2049
<b>SRV47U</b>	47U 600x1000 mm	47	600	1000	740	2112	2224	2271

\* R07 is the standard rear door.

\*\* F14 is the standard front door.

\*\*\* F14, F15, R07 can be used as front or rear door.



\*R07 is the standard rear door.  
 \*\* F14 is the standard front door.



## STEPS TO SELECT THE RIGHT FREE STANDING ENCLOSURE

In addition to Estap product part numbers, the options mentioned on the next page are to supply the right definition to meet your requirements.

Each wall mounted and free standing enclosure section in the catalogue, has a "Main part number structure" and "Options" sections.

The below example explains how to select the right options for your needs.

**The product part number has the below structure for ServerMAX W=780 mm:**

Product range name      +      U height (HHU)      +      Width (WW, D=1000 mm)

**The product options have the below structure:**

Colour option (MX)      +      Front door option (FX)      +      Rear door option (RX)

## HOW TO SELECT THE OPTIONS

### Step 1

Please choose product part number.

For example : **SRV42U8 (Width=780 mm)**

### Step 2

Please choose the colour from the table and place it after the part number.

For example: **SRV42U8 - M01** (MX= Look at the MX colour options on the next page)

### Step 3

Please choose the front door from the table and place it after **MX** colour.

For example: **SRV42U8 - M01 - F16** (FX= Look at the FX front door options on the next page)

### Step 4

Please choose the rear door from the table and place it after **FX** front door option.

For example: **SRV42U8 - M01 - F16 - R08** (RX= Look at the RX rear door options on the next page)



## MAIN PART NUMBER STRUCTURE

SRV - HHU - WW

Product range ServerMAX	U height	Width & depth=1000 mm
SRV	HHU	WW
SRV	42U 47U	8

**SRV** : ServerMAX product range

**HHU** : "U" height

**WW** : Width (W=780 mm)

## OPTIONS

MX - FX - RX

Colour options	Front door options	Rear door options
MX	FX	RX
M01 M02	F16** F17 R08*	R08*

**MX** : Colour options

**M01**= RAL 9005 black

**M02**= RAL 7035 light grey

**FX** : Front door options

**F16\*\***= Single opening, monoblock, welded, curved %63 perforated door; 3 point handled locking

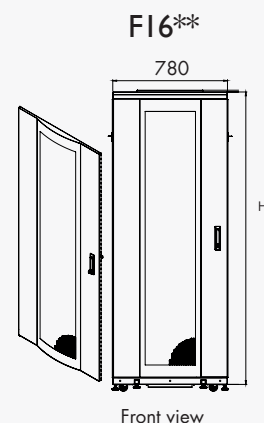
**F17**= Single opening, welded, curved plexi glass door; 3 point handled locking

**RX** : Rear door option

**R08\***= Double opening %63 perforated door with complete metal frame, 3 point handled locking

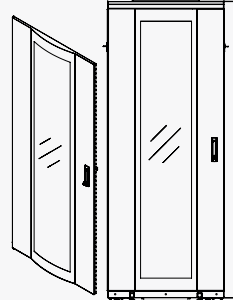
**FX\*\*\***

Front door options



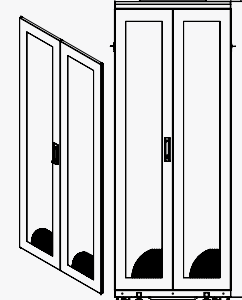
**F17**

780



**R08\***

780

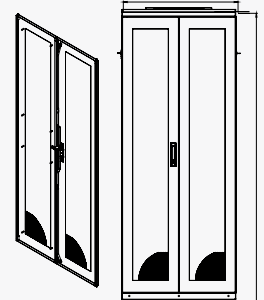


**RX\*\*\***

Rear door option

**R08\***

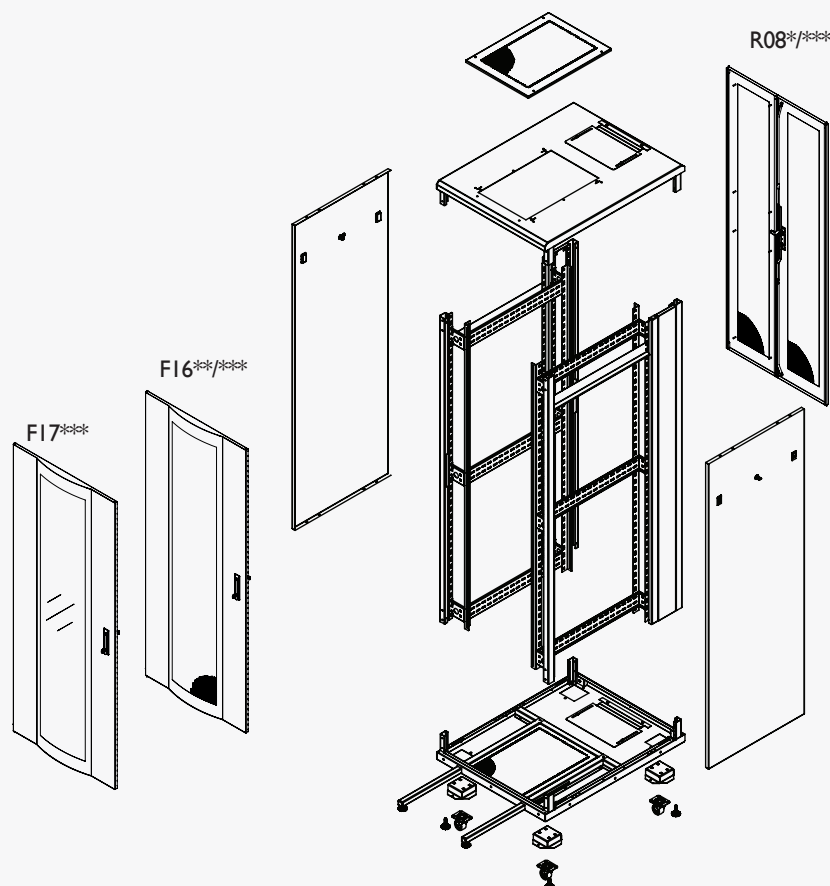
780



H= Enclosure height

\*\*\* F16, F17 R08 can be used as front or rear door.

\* R08 is the standard rear door.  
\*\* F16 is the standard front door.



Exploded view

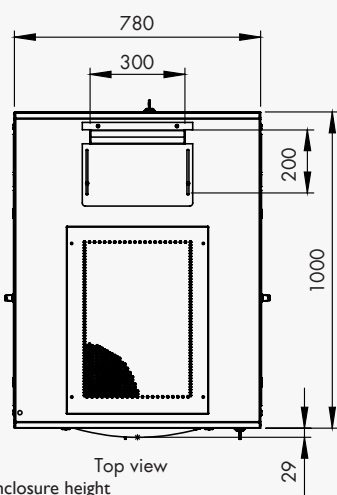
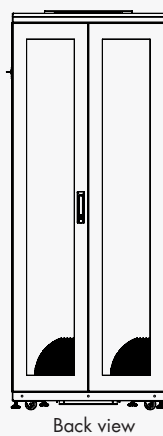
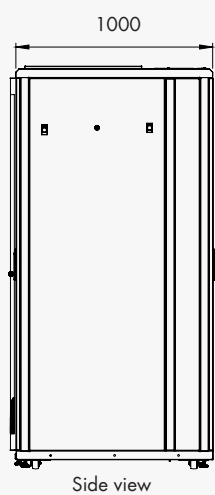
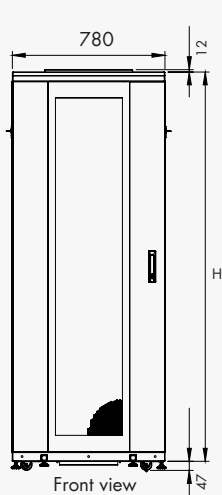
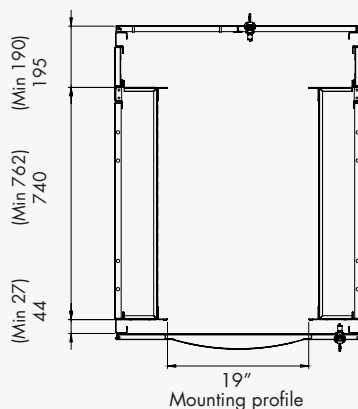
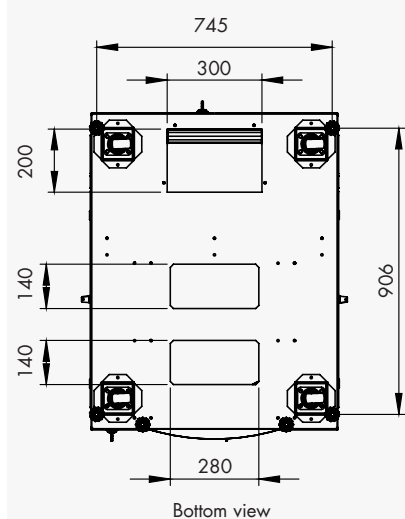
### ServerMAX free standing cabinets 19" 780 x 1000 mm

Part number	Product definition (mm)	U Size	Width: overall (mm)	Depth: overall (mm)	Depth: max mounting profile (mm)	Height: vertical mounting profile (mm)	Height: without levelling feet (mm)	Height: with casters (mm)
<b>SRV42U8</b>	42U 780x1000 mm	42	780	1000	740	1890	2002	2049
<b>SRV47U8</b>	47U 780x1000 mm	47	780	1000	740	2112	2224	2271

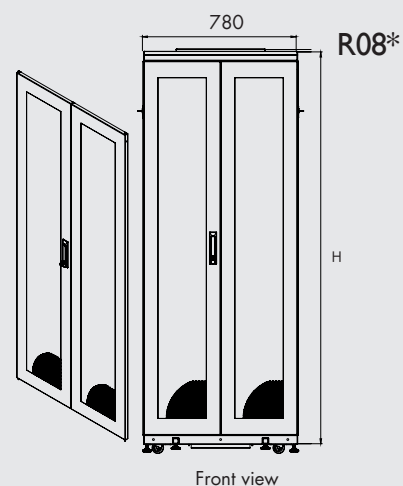
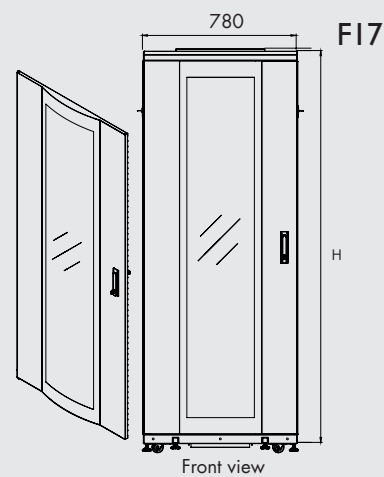
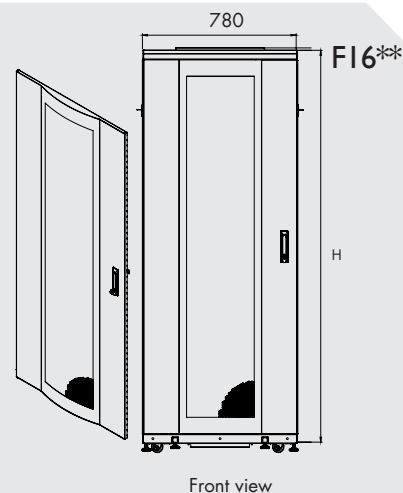
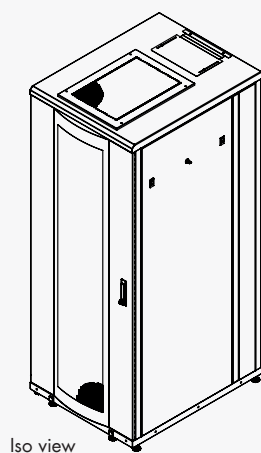
\* R08 is the standard rear door.

\*\* F16 is the standard front door.

\*\*\* F16, F17, R08 can be used as front or rear door.



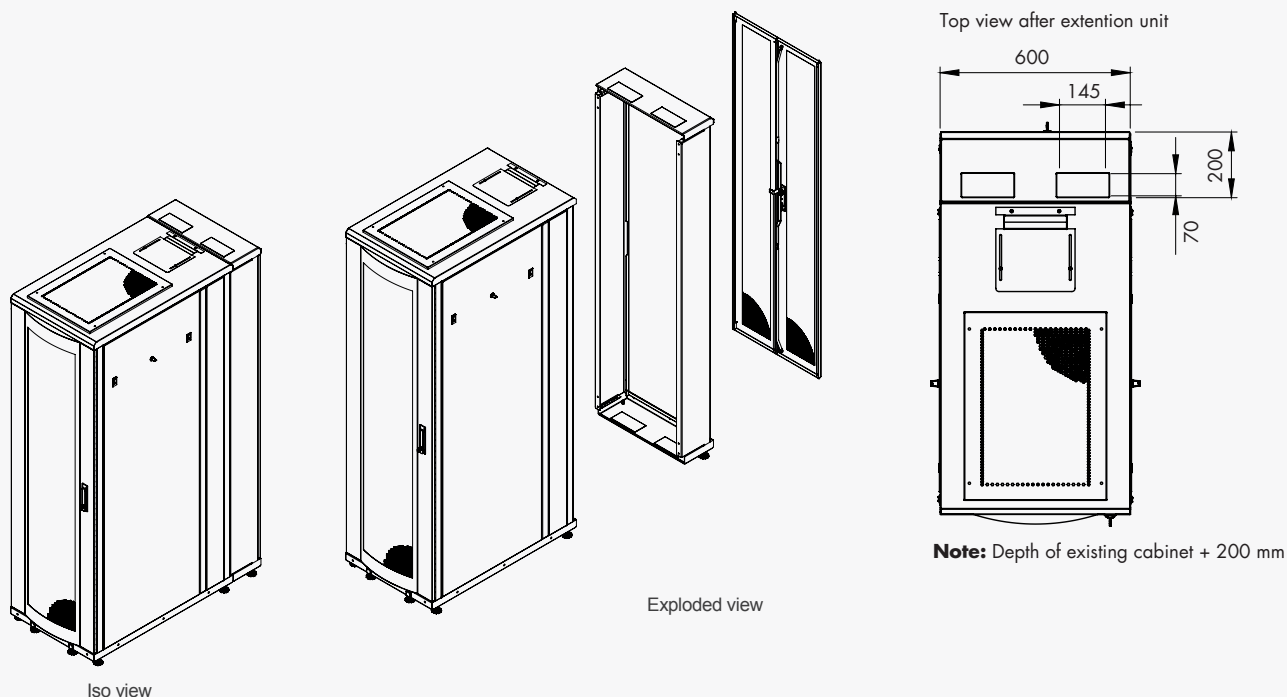
H= Enclosure height



\* R08 is the standard rear door.

\*\* F16 is the standard front door.

### Technical drawing of extention unit D=200 mm for 600x1000 mm ServerMAX

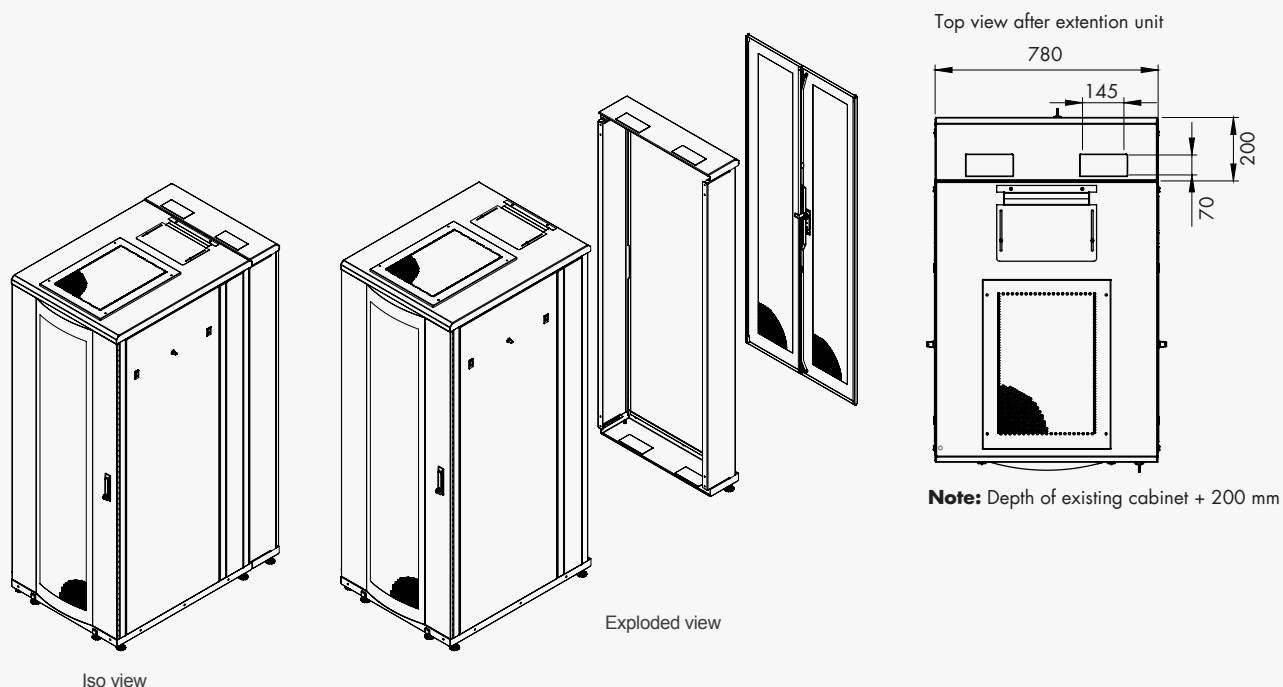


### ServerMAX 19" 600 x 1000 mm extension unit

Part number	Product definition (mm)	U Size	Width: overall (mm)	Depth: overall (mm)	Height: without levelling feet (mm)	Height: with casters (mm)
<b>SRV26U EXT620</b>	26U Extension unit D=200 mm, suitable for ServerMAX W=600 mm	26	600	200	1281	1328
<b>SRV36U EXT620</b>	36U Extension unit D=200 mm, suitable for ServerMAX W=600 mm	36	600	200	1726	1773
<b>SRV42U EXT620</b>	42U Extension unit D=200 mm, suitable for ServerMAX W=600 mm	42	600	200	1993	2040
<b>SRV47U EXT620</b>	47U Extension unit D=200 mm, suitable for ServerMAX W=600 mm	47	600	200	2215	2262

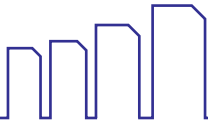


# Technical drawing of extention unit D=200 mm for 780x1000 mm ServerMAX



## ServerMAX 19" 780 x 1000 mm extension unit

Part number	Product definition (mm)	U size	Width: overall (mm)	Depth: overall (mm)	Height: without levelling feet (mm)	Height: with casters (mm)
<b>SRV42U EXT820</b>	42U Extension unit D=200 mm, suitable for ServerMAX W=780 mm	42	780	200	1993	2040
<b>SRV47U EXT820</b>	47U Extension unit D=200 mm, suitable for ServerMAX W=780 mm	47	780	200	2215	2262



## TECHNICAL SPECIFICATIONS

### TESTS AND CERTIFICATIONS

#### Environment

EN61587-1/4.2, IEC60068-2-1, IEC60068-2-2, IEC60068-2-30, IEC60917 and IEC60297

#### Industrial environment

EN61587-1/4.3, IEC60068-2-42, IEC60068-2-43 and IEC60068-2-49, IEC60068-2-1, IEC60917 and IEC60297

#### Static mechanical structure load test

EN61587-1 / 5.2.1, IEC60917 and IEC60297

#### Static mechanical structure stability

EN61587-1 / 5.2.2, IEC60917 and IEC60297

#### Dynamic load, vibration and mechanical stroke

EN61587-1 / 5.3.1, EN61587-1 / 5.3.3, IEC60917, IEC60297, IEC62208

#### Grounding continuity

EN61587-1 / 6.2, IEC60917 and IEC60297

#### Fire and flame resistance

EN61587-1 / 6.3, IEC60917 and IEC60297

#### Corrosion

ISO9227 and ASTM B 117-85, IEC60917 and IEC60297

#### IP protection degree

IP20 accordingly EN61587-1 / 6.4, IEC60529, IEC60917 and IEC60297

#### Transportation

ETS300019-1-2 Class 2.3

#### Storage

ETS300019-1-1 Class 1.2

#### Security

EN60950\_LVD

### PURCHASED PRODUCT CERTIFICATIONS

#### Sheet steel

DIN EN 10130 – 99 Ereğli DC- 01 6112, 7122, RoHS

#### Electrostatic powder coating

ISO 9001, ISO 2178, ISO 2813, ISO 6272, ISO 8130-5, ISO 8130-3, RoHS

#### Fan

ISO 9001, CE (89/336/EEC EMC, 73/23/EEC LVD), RoHS

#### Glass

ISO 9001, EN 12150 – 1:2000 tempered and secure

#### Fixings

DIN 7985, DIN 965, DIN 7981, DIN 934, DIN 985, DIN 933, RoHS

#### Castors

TS EN 12530, TS EN 12532, RoHS

#### Lock

DIN 1743, DIN 53571, RoHS

### KEY FEATURES

Main profile (framework) has an aesthetic structure which increases mechanical resistance, folded at an angle of 90 degrees and consisting of 4 bends for each profile. In total; 16 folds provide framework stability. Additionally, 2 piece vertical side panel divider profile provides additional resistance each with a 4 fold design; total of 8 fold additional support. In total ServerMax main profile framework consists of a 24 fold engineering design. Manufactured and tested to provide axial (x, y, z) resistance that meets EN 61587-1 / 5.2.1 and 5.2.2, and external impact resistance that meets EN 61587-1 / 5.3.3.

Bottom and upper cases have a structure to increase the resistance and strength of the cabinet by monoblock bended, welded and profile-interlocking design. Profiles are manufactured to interlock bottom and upper cases with screws. The bottom case providing cable access is fitted with a sliding blanking access plate to prevent dust.

A rubber edge on the cable access plate and sliding structure, it is possible to fix the cables and allows cables to be placed into the cabinet without any damage.

Additional there are pre-punched knock outs for air distribution delivered from raised floor.

Rear door in standard configuration is a double opening door which is removable and lockable. Integral locking is a 3 point locking system.

Rear doors can be opened up to 215 degrees, are removable and lockable with handle type locking unit.

Side panels have a structure that can be opened and removed with slam latch and key. They are lockable and removable. Side panels consist of a divider profile which creates 2 pieces side panels on each side. Original functional side panel is lockable and removable as mentioned above; the smaller side panel is fixed from inner side with screws. If additional ventilation is needed this panel can be replaced with a slotted / perforated one.

Within this engineering construction, the original functional side panel becomes easy to carry while the divider profile provides better resistancy.

Front doors are single opening, monoblock, welded, curved, %63 perforated in standard. Integral locking as 3 point locking system. For options please see the related diagrams and technical charts in pages 11-15.

Front door can be opened up to 215 degrees, removable and lockable with handle type locking unit.

Vented top panel housing with a dedicated space for ventilation, the fan module system allows easy installation of max. 6 fans from top.

19”(inch) mounting angles (2ea. in front and 2ea. in rear) are part of cabinet interior configuration and adjustable in depth. Baying is possible for side by side applications without side panels. Levelling feet and integrated castor group are standard in shipping configuration.

The cabinet meets EN 61587-1, IEC 60917, IEC 60297 standards, RoHS compliancy, Gost and TSE certified. Cabinets are manufactured in our factory which has ISO 9001:2008 Quality Assurance System and our responsibility for environment with ISO 14001:2004 Environmental Management System.

## TECHNICAL SPECIFICATIONS

### Custom number

85380000 / 85381000 / 853710990019

### Packs of (ea.)

1

### Shipping structure

Assembled

### Mounting surface

Stand alone

### Load carrying capacity (kg)

1000

### Certification on product

TSE, Gost

### Surface finish

Electrostatic powder coated c/with surface treatment , 80 +/- 5 micron paint thickness and tested according to IEC 60068-2-1, 2-2, 2-30, 2-42, 2-43, 2-49, 2-11

## STANDARD PRODUCT

### Standart colour

RAL 7035, RAL 9005

### Baying

Possible with baying kit for side by side applications without side panels

### IP protection standard

IP20

## FRONT DOOR

Single opening, monoblock, welded, curved, %63 perforated

### Front door construction

Monoblock curved, welded construction

### Front door lock

Handle type, 3 point locking

### Hinge system

Spring loaded

### Door opening angle and swapping

215 degree

## SIDE PANEL

Solid metal, 1 mm. Left and right (2ea.)

### Construction

Lockable, removable c/with slam latches and lock

### Lock

Barrel type lock unit, single point + slam latch (2ea)

## REAR DOOR

Solid metal, 1 mm

### Rear door construction

Double door opening, %63 perforated, lockable, removable

### Rear door lock

Handled type lock unit, 3 point

### Hinge system

Spring loaded

### Door opening angle and swapping

215 degree

## FRAMEWORK

### Top and bottom base units

Solid Metal 2 mm

### Top and bottom base units construction

Completely welded corner socket system

### Uprights

Solid metal, 2 mm

### Uprights construction

Tightly fixed into top and bottom base units

3 times folded 3 x 2 = 6 folds

## SIDE PANEL DIVIDER PROFILE

Solid metal 2 mm

### Side panel construction

Tightly fixed into top and bottom base units

4 times folded x 2 = 8 folds

## INTERIOR PARTS

### 19" mounting angles

Solid metal, 2 mm

1 times folded for an L profile system

U marking available

2 ea. at rear; 2 ea. at front

Pre-configured as 19"

Zinc plated, passivated, 8-12 micron

Adjustable in depth

### Omega type support rails in depth

Solid metal, 1,5 mm

3 times folded for W=600 mm cabinets

Omega type folded for W=780 mm cabinets

3 ea. at left, 3 ea. at right 26U and 36U

4 ea. at left, 4 ea. at right 42U and 47U



For CUSTOMIZED PRODUCTS rather than above options, please contact sales department.

## FREQUENTLY USED ACCESSORIES SELECTION CHART FOR SERVERMAX

**Estep has a wide range of accessories:** Heavy duty fixed shelves, sliding shelves, fans, cooling units, vertical cable managements, cable rings, organisers, trays, plinths and so on...

\* See the other and part number definition on pages 173-213.

\* Please state colour choice in your orders. M01=RAL 9005 black and M02= RAL 7035 light grey

### Frequently used accessories selection table



#### ServerMAX / Vertical PDU part numbers

M44 24 AL IEC AMP MCB

ServerMAX / Cable management unit (suitable for 780x1000 Server Cabinets)	Enclosure sizes*
	800x1000
42U	M44ORG42SRV
47U	M44ORG47SRV



ServerMAX / Cable management rings	Part number
44x30	K44RING01
44x60	K44RING021U
44x110	K44RING03
70x160	K44RING04



ServerMAX / Floor fixing kit	Enclosure sizes*	
	600x1000	800x1000
	M44DPR03	M44DPR04

\* Please check drawing pages for cabinet sizes.