

ECOLine - ECOLine SERVER free standing



Reduce
%50*
shipment
cost

- Modular structure
- Delivered as unassembled and flat packaged
- Fast and easy to assemble
- Easy to transport
- Secure and sturdy

* Mixed quantity and mixed size

ECOLine - ECOLine SERVER

free standing enclosures

Estep[®]

600x600 - 600x800 - 800x800 - 600x1000

ECOLine free standing enclosures



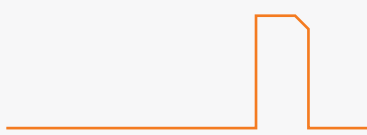
16U 22U 32U 42U



600 x 600*



600 x 800*



42U



800 x 800*

ECOLine SERVER free standing enclosures



26U 36U 42U



600 x 1000*



“Non-opening side doors. Upright frames are used as side panels. Easy assembly with modular structure”

- 19”
- MODULAR STRUCTURE
- HIGH QUALITY PRODUCTION
- FITS DECOR AND ENVIRONMENT
- SECURE AND STURDY
- COMPETITIVE PRICES

Measured values by Estap:

- Fastest assembly record time, 1 worker: 8 min
- Loading in one 40 ft. container: Mixed qty. between 100-150 pieces enclosures

* Please check drawing pages for cabinet sizes.

STANDARD DIMENSIONS:

Heights: 16U, 22U, 32U, 42U
 Width: 600 mm
 Depth: 600 mm and 780 mm

Height: 42U
 Width: 780 mm
 Depth: 780 mm

LOAD CARRYING CAPACITY: 400 kg

COLOUR:

RAL 9005 black 

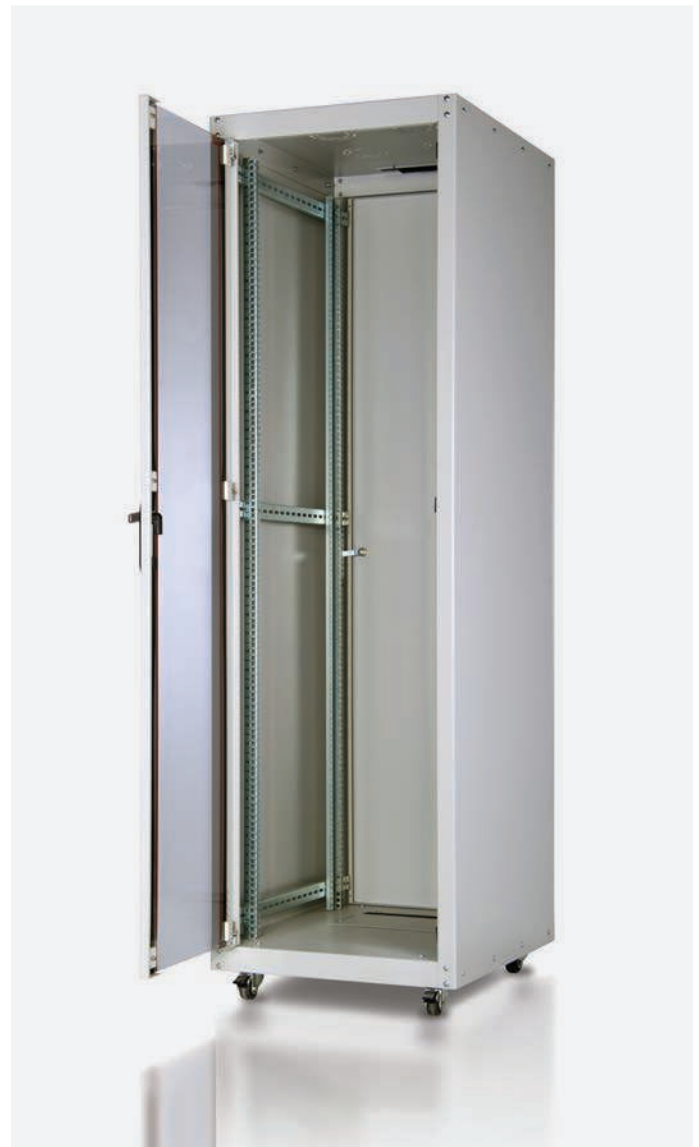
RAL 7035 light grey 

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

- Secure, locking front and back doors with spring loaded hinges.
- Front and rear doors are openable, lockable and removable. Front door features a full-length smoked shatterproof glass panel with decorative accent stripe and single point integrated locking mechanism with handle.
- Non-opening side panels are used as upright frames (unique body) providing extra stability.
- Adjustable front and back mounting rails allow for flexible configuration.
- For stability, front to back metal rods.
- Versatile-can be used in varied locations and environments, yet stylishly designed for showcase applications.
- Dedicated space for top mount cooling system (system not included).
- Multiple cable entry points provide maximum versatility.
- There is a sliding access panel on the bottom. There are pre-punched holes on rear side of bottom and top cases.
- Solid metal bottom with access panel.





STEPS TO SELECTING 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:

Product range name + U height (HHU) + Width&Depth (WD)

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: **ECO42U66**

Step 2

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

For example: **ECO42U66 - M02** (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: **ECO42U66 - M02 - F01** (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: **ECO42U66 - M02 - F01 - R01** (RX= Look at the RX rear door options on the next page)

MAIN PART NUMBER STRUCTURE

ECO - HHU - WD

Product range ECOline	U height	Width & Depth
ECO	HHU	WD
ECO	16U	66
	22U	68
	32U	
	42U	

- ECO** : ECOline free standing product range
- HHU** : "U" height
- WD** : Width and depth

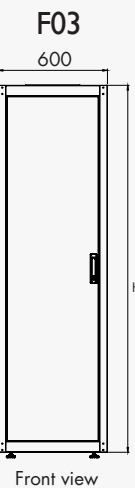
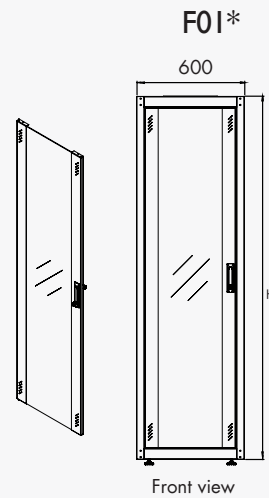
OPTIONS

MX - FX - RX

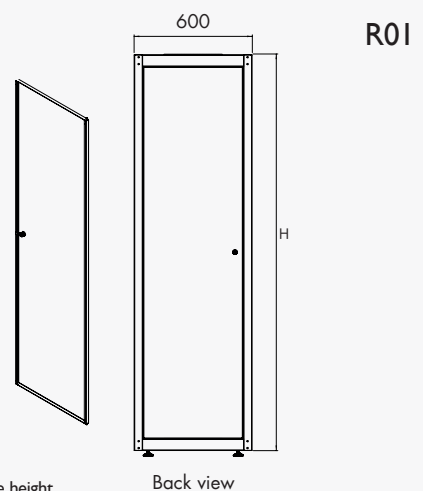
Colour options	Front door options	Rear door option
MX	FX	RX
M01 M02	F01* F03	R01

- MX** : Colour options
 - M01 = RAL 9005 black
 - M02 = RAL 7035 light grey
- FX** : Front door options
 - F01* = Single opening tempered proof glass door with left and right metal frame, slotted, single point handled locking
 - F03 = Single opening solid metal door, single point handled locking
- RX** : Rear door option
 - R01 = Single opening solid metal rear door with barrel type lock unit, single point handled locking

FX
Front door options

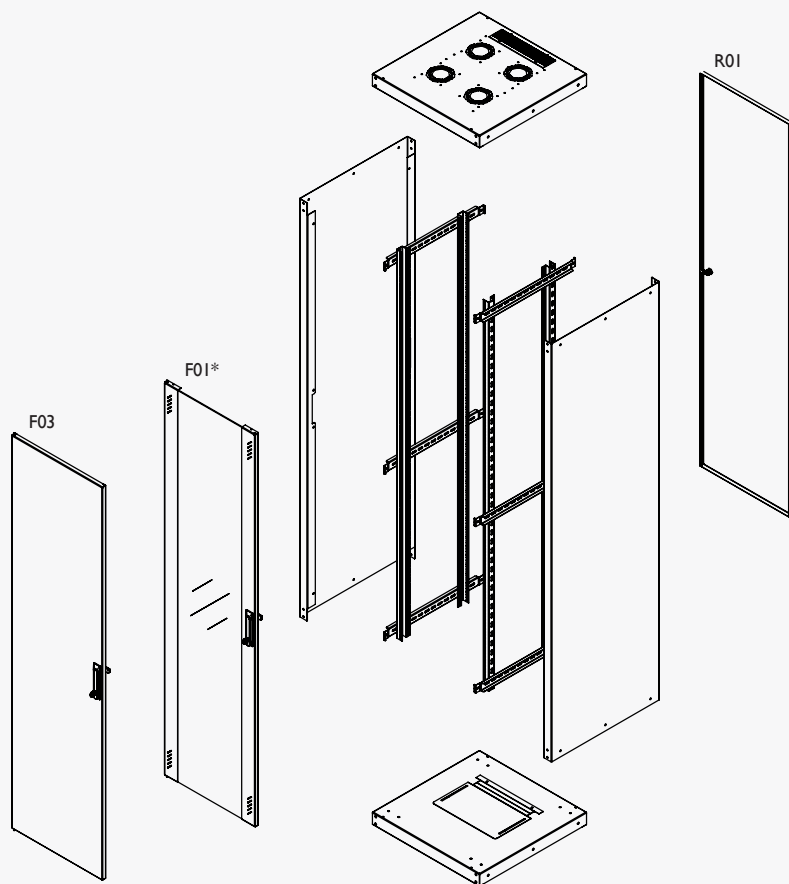


RX
Rear door option



H= Enclosure height

** F01 is the standard front door.

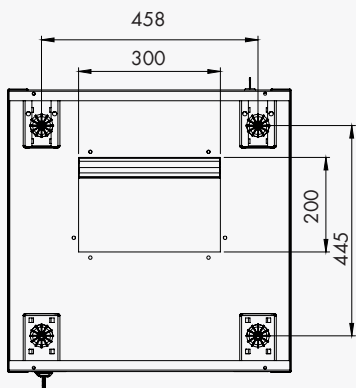


Exploded view

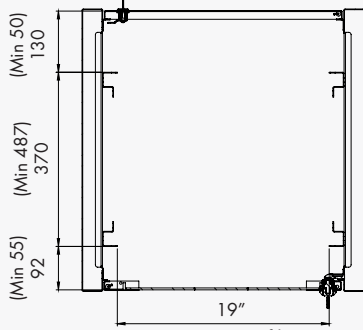
EColine free standing cabinets 19" 600 x 600 mm

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 levelling feet (mm)	Height: with casters (mm)
ECO16U66	16U 600x600	16	600	600	370	715	855	870	930
ECO22U66	22U 600x600	22	600	600	370	980	1122	1137	1190
ECO32U66	32U 600x600	32	600	600	370	1425	1567	1582	1640
ECO42U66	42U 600x600	42	600	600	370	1870	2012	2027	2085

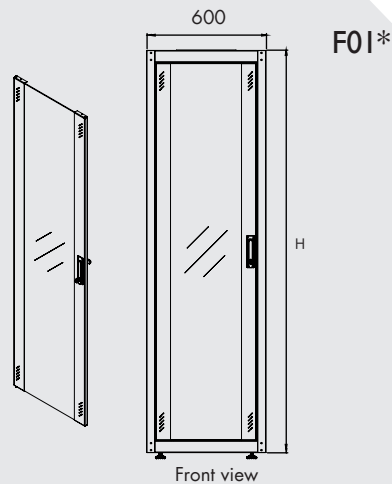
* F01 is the standard front door.



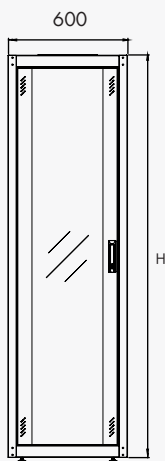
Bottom view



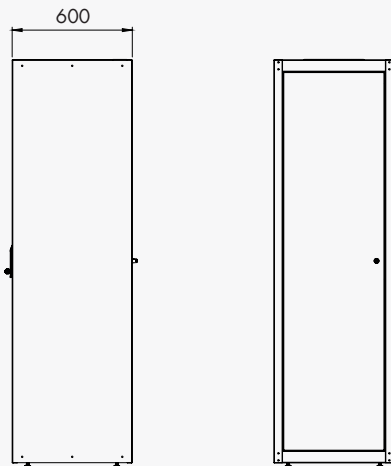
Mounting profile



Front view



Front view

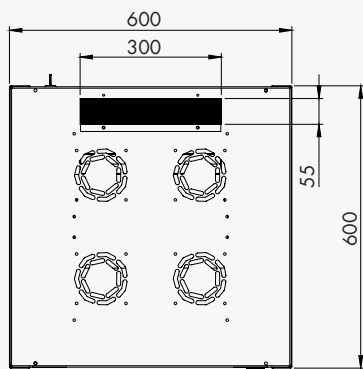


Side view

Back view

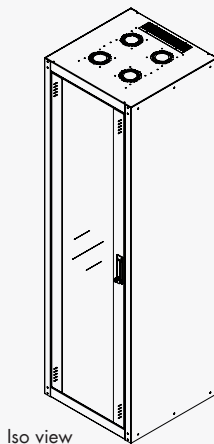


Front view



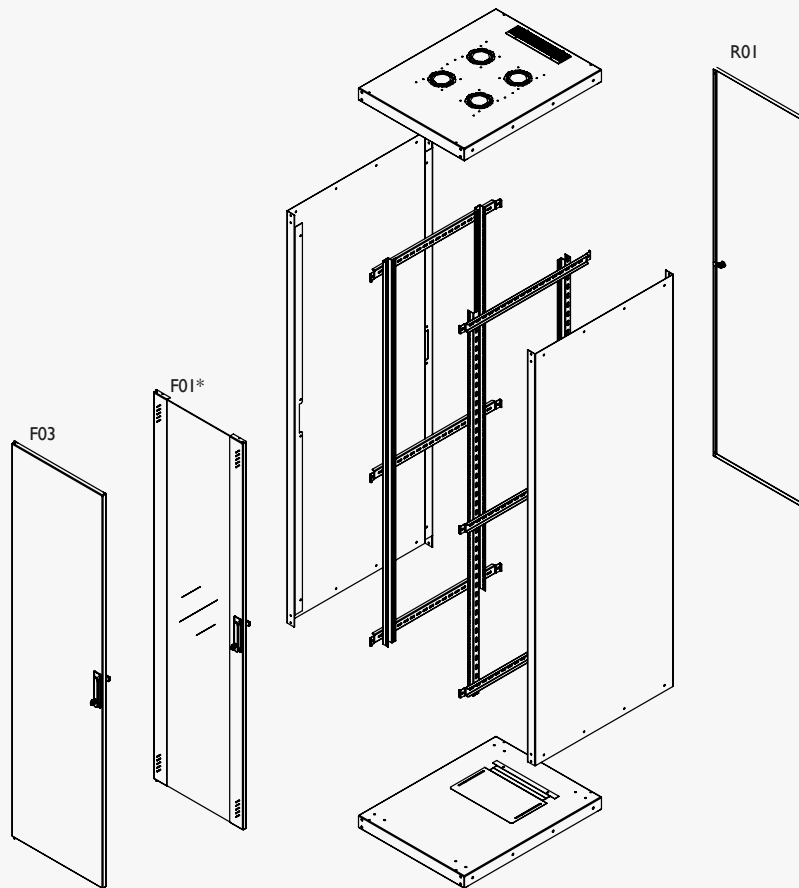
Top view

H= Enclosure height



Iso view

* F01 is the standard front door.

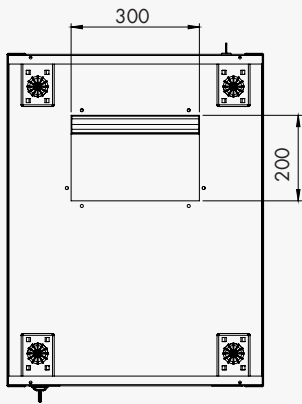


Exploded view

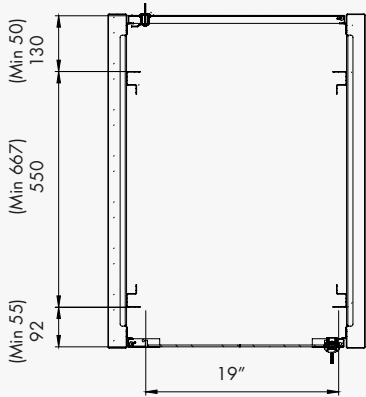
EColine free standing cabinets 19" 600 x 780 mm

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 levelling feet (mm)	Height: with casters (mm)
ECO16U68	16U 600x780	16	600	780	550	715	855	870	930
ECO22U68	22U 600x780	22	600	780	550	980	1122	1137	1190
ECO32U68	32U 600x780	32	600	780	550	1425	1567	1582	1640
ECO42U68	42U 600x780	42	600	780	550	1870	2012	2027	2085

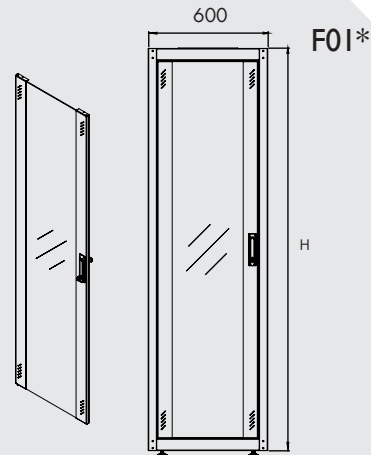
* F01 is the standard front door.



Bottom view



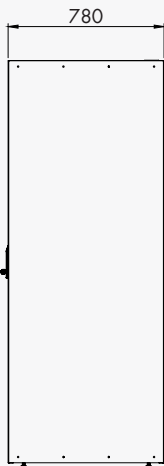
Mounting profile



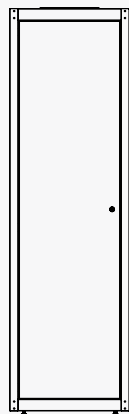
Front view



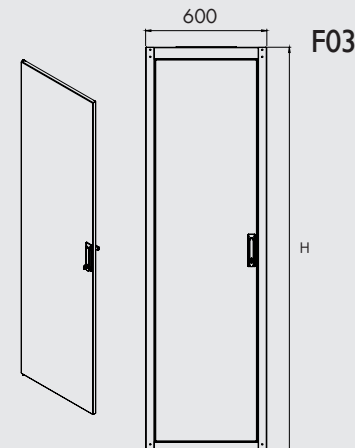
Front view



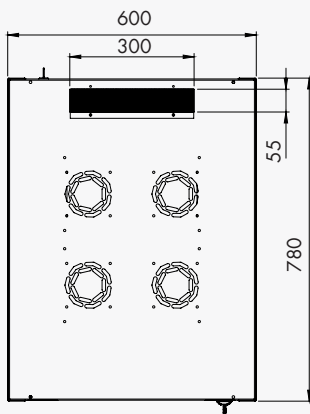
Side view



Back view

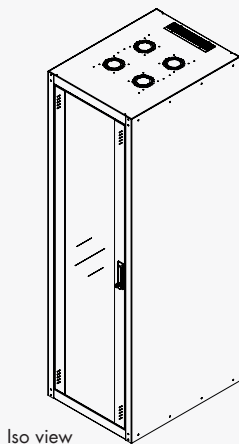


Front view



Top view

H= Enclosure height



Iso view

** F01 is the standard front door.



STEPS TO SELECTING 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:

Product range name + U height (HHU) + Width&Depth (WD)

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: **ECO42U88**

Step 2

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

For example: **ECO42U88 - M02** (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: **ECO42U88 - M02 - F09** (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: **ECO42U88 - M02 - F09 - R09** (RX= Look at the RX rear door options on the next page)

MAIN PART NUMBER STRUCTURE

ECO - HHU - WD

Product range ECOline	U height	Width & Depth		
ECO	+	HHU	+	WD
ECO		42U		88

- ECO** : ECOline free standing product range
- HHU** : "U" height
- WD** : Width and depth

OPTIONS

MX - FX - RX

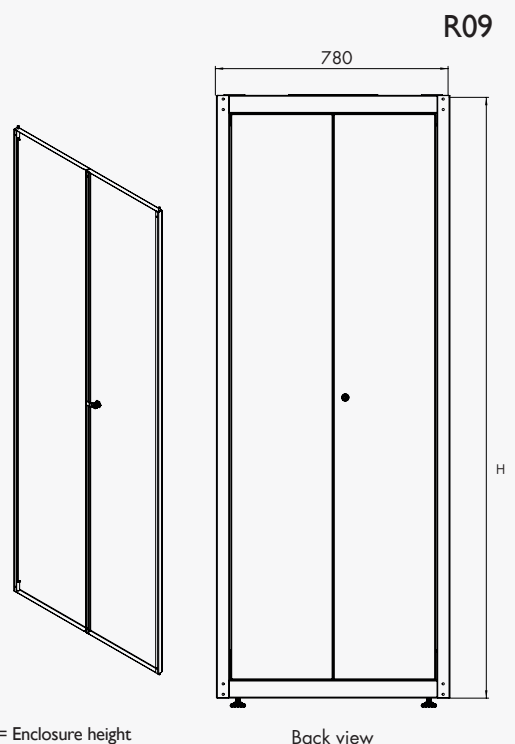
Colour options	Front door options	Rear door options		
MX	+	FX	+	RX
M01 M02		F09		R09

- MX** : Colour options
 - M01 = RAL 9005 black
 - M02 = RAL 7035 light grey
- FX** : Front door option
 - F09 = Double opening tempered proof glass door with left and right metal frame, slotted, barrel type lock unit on top / bottom
- RX** : Rear door option
 - R09 = Single opening solid metal rear door with "O" barrel type lock unit, single point

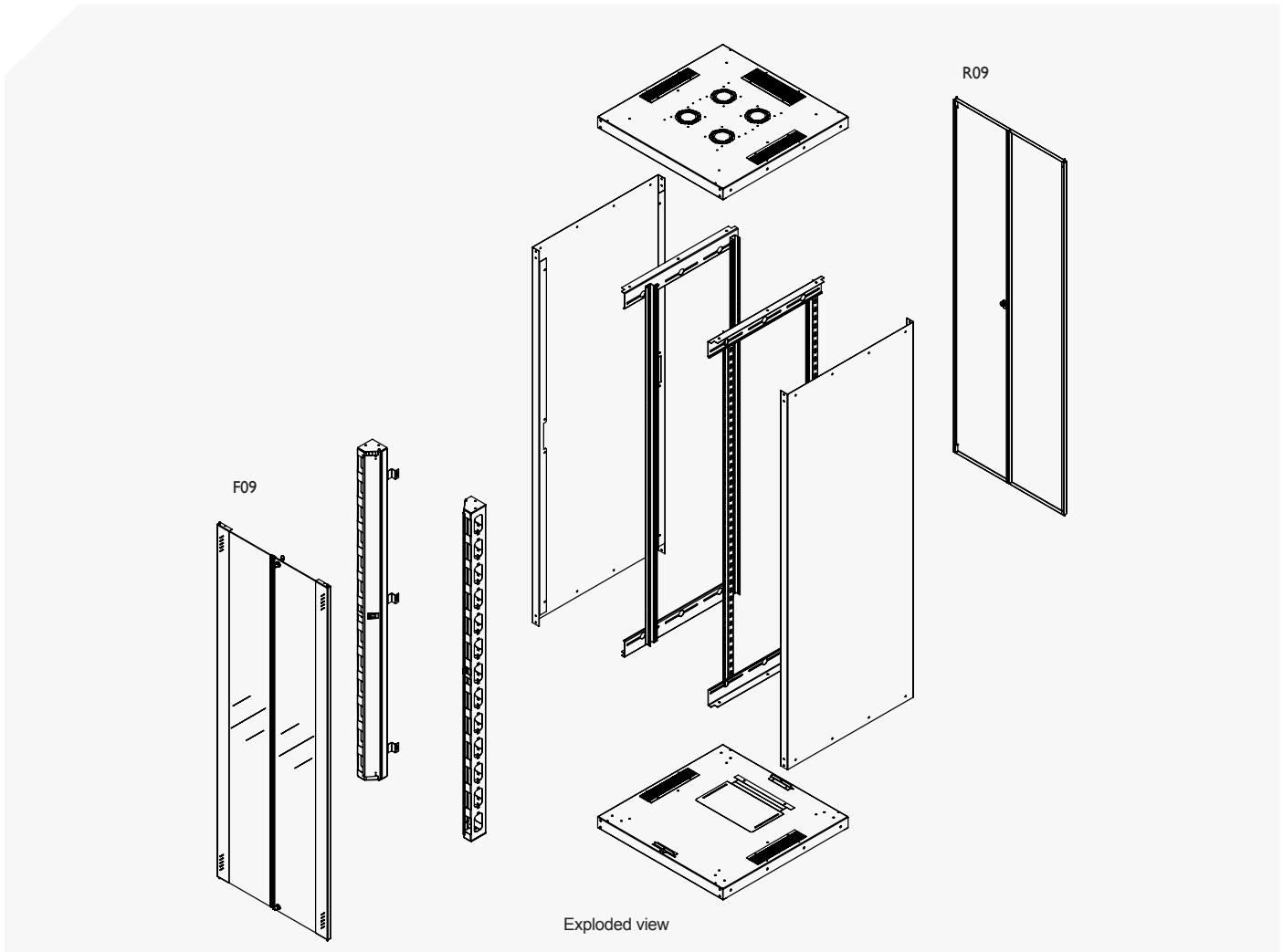
FX
Front door option



RX
Rear door option

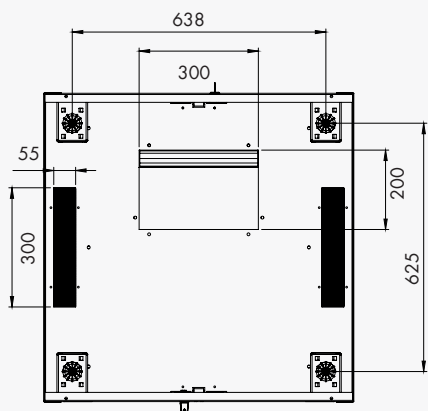


H= Enclosure height

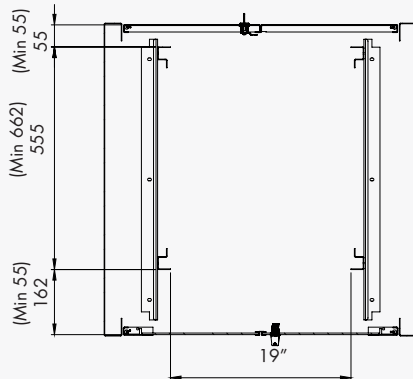


EColine free standing cabinets 19" 780 x 780 mm

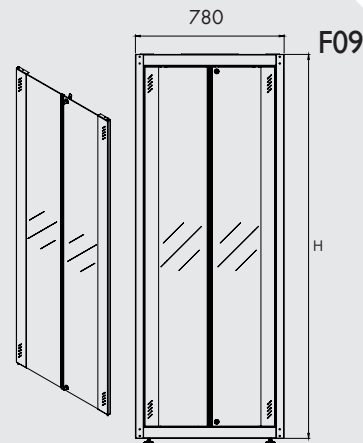
Part number	Product definition (mm)	U size	Width: overall (mm)	Depth: overall (mm)	Depth: max mounting profile (mm)	Height: vertical mounting profile (mm)	Height: without levelling feet (mm)	Height: with levelling feet (mm)	Height: with casters (mm)
ECO42U88	42U 780x780	42	780	780	555	1915	2012	2027	2085



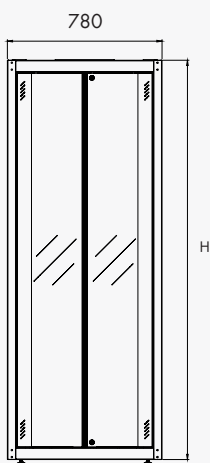
Bottom view



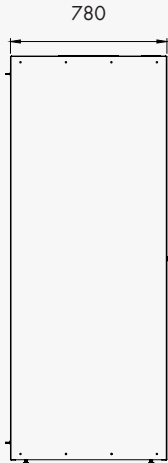
Mounting profile



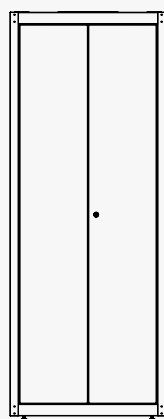
Front view



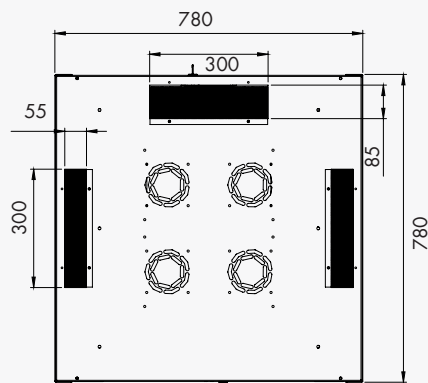
Front view



Side view

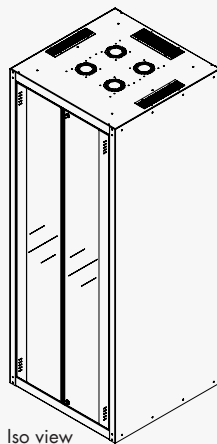


Back view



Top view

H= Enclosure height

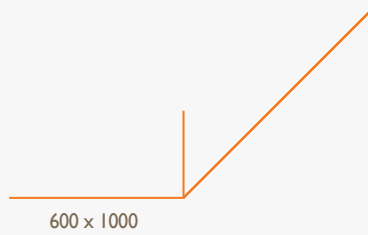
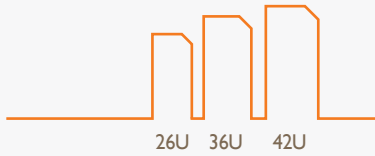


Iso view



TECHNICAL DETAILS FOR

600x1000



STANDARD DIMENSIONS:

Heights: 26U, 36U, 42U

Width: 600 mm

Depth: 1000 mm

LOAD CARRYING CAPACITY: 400 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 equipments)

Overall cabinet dimensions to IEC 297-2



EColine SERVER modular cabinets come flat pack in standard light grey (RAL7035). Front door and rear door has a vented steel frame with metal grillwork (perforated). Estap multi vendor ECOLine SERVER racks include the following features: Secure, locking front and back doors with spring loaded hinges. Front and rear door features a steel frame with metal grillwork (perforated) and integrated locking mechanism. Multiple cable entry points provide maximum versatility. There is a sliding access panel on the bottom. There are prepunched holes on the top of the cabinet, rear side of bottom and top cases. Solid metal bottom with access panel. Non-opening side panels are used as upright frames (unique body) gives extra stability. Adjustable front and back mounting rails allow for flexible configuration. Three sets of front to back metal rods for stability. Versatile-can be used in varied locations and environments, yet stylishly designed for showcase applications. Dedicated space for top mount cooling system (system not included)

“ Multivendor racks provide an economical solution for free standing server cabinets. Sturdy and compact, the ECOLine SERVER features a modular design ideal for SERVER applications of offices, private and government buildings, schools, hotels and all indoor applications. ”



MAIN PART NUMBER STRUCTURE

ECOSRV - HHU - WD

Product range ECOline	U height	Width & Depth
ECO	HHU	WD
ECOSRV	26U 36U 42U	61

- ECO** : ECOline SERVER product range
- HHU** : "U" height
- WD** : Width and depth

OPTIONS

MX - FX - RX

Colour options	Front door option	Rear door option
MX	FX	RX
M01 M02	F04*	F04*

- MX** : Colour options
 - M01 = RAL 9005 black
 - M02 = RAL 7035 light grey
- FX** : Front door option
 - F04 = Single opening 63 perforated door with complete metal frame, slotted, single point handled locking
- RX** : Rear door option
 - F04* = Single opening 63 perforated door with complete metal frame, slotted, single point handled locking

FX
Front door option



Front view

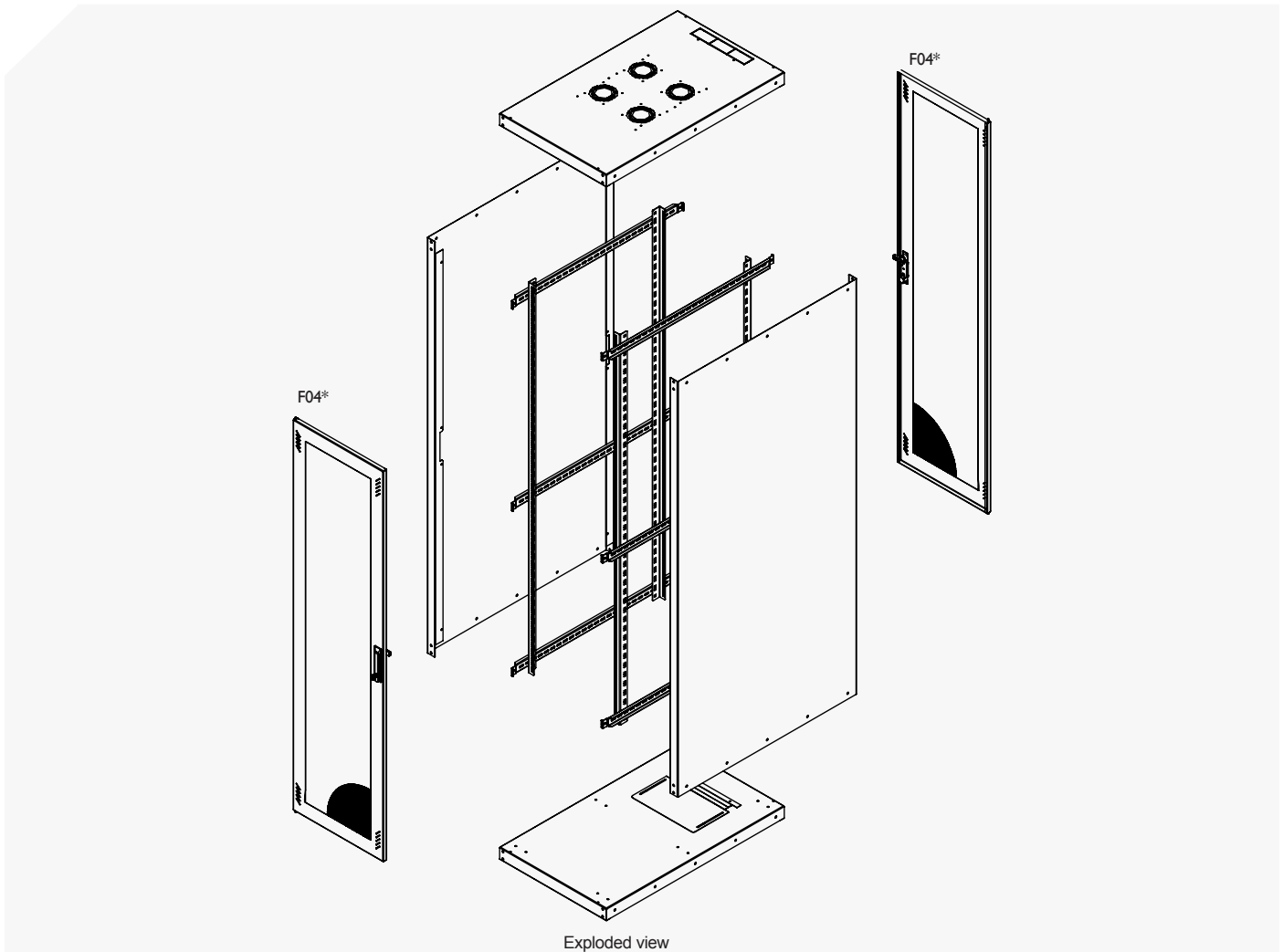
RX
Rear door option



Back view

H= Enclosure height

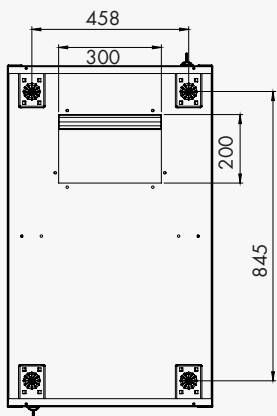
* F04 can be used as front and rear door for ECOline SERVER enclosures.



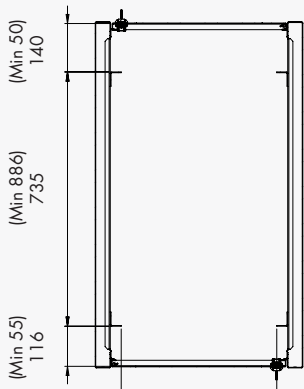
EColine SERVER free standing cabinets 19" 600 x 1000 mm

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 levelling feet (mm)	Height: with casters (mm)
ECOSRV26U	26U 600x1000	26	600	1000	735	1180	1300	1315	1360
ECOSRV36U	36U 600x1000	36	600	1000	735	1625	1745	1760	1820
ECOSRV42U	42U 600x1000	42	600	1000	735	1890	2012	2027	2090

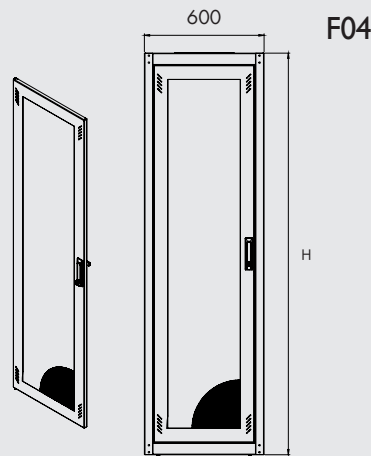
* F04 can be used as front and rear door for EColine SERVER enclosures.



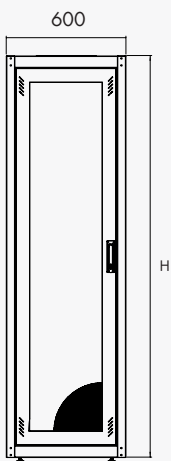
Bottom view



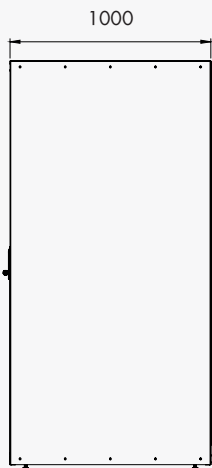
Mounting profile



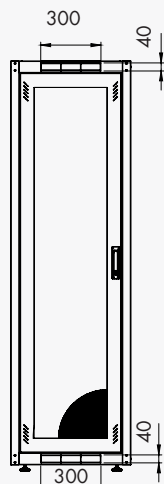
Front view



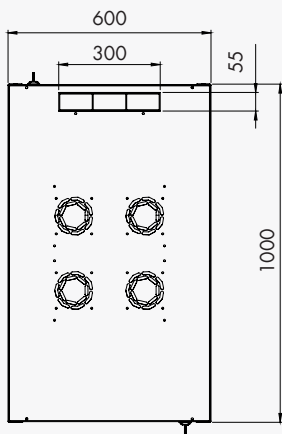
Front view



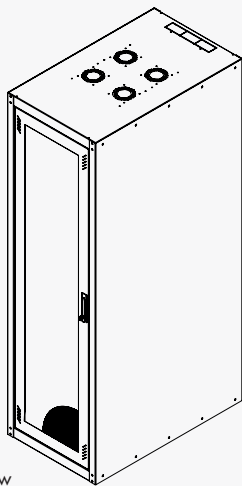
Side view



Back view



Top view



Iso view

H= Enclosure height



TESTS AND CERTIFICATIONS

Environment

EN61587-1 / 4.2, IEC60068-2, 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, C60297, 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 Class2.3

Storage

ETS300019-1-1 Class1.2

Security

EN60950_LVD

PURCHASED PRODUCT CERTIFICATION

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 framework has a structure which increase mechanical resistance an aesthetically pleasing, manufactured in a “U” shape. Side panels close on the top and bottom case for framework stability. Manufactured and tested to provide axial (x, y, z) resistance that meets EN 61587-1 / 5.2.1 and 5.2.2, external impact resistance that meets EN 61587-1 / 5.3.3.

Bottom and upper case have a structure which increase resistance and strength of cabinet. Monoblock bended top and bottom housing cases provide increased stability. Each side panel body is screwed to top and bottom cases with M6x15 special screws. Complete closed bottom case with sliding rubber edged cable access panel.

Rear door is single opening metal door for 600x600, and 600x800 with integral barrel type locking unit.

Rear door is double opening metal door for 800x800 with integral barrel locking unit.

Rear door is single opening complete framed %63 perforated metal door for 600x1000 with integral handle type locking unit. Side panels are non-opening screwed style, for maximum stability.

Front glass door is tempered, anti-static, secure and smoked glass (4 mm thickness) with decorative stripe, according to EN 12150-1:2000 standard. Front glass has left and right metal frame structure with high density polyurethane adhesive and screws are used to fix the glass to metal frame. It can be opened 105 degrees, is removable and lockable and should be single opening for 600x600, 600x800 with handle type locking unit, and double opening for 800x800 with barrel type 2 pcs. locking unit. Front door for 600x1000 is single opening complete framed %63 perforated metal door with handle type locking unit.

All front and rear doors are subject to 105 degrees opening. Vented top panel with a dedicated space for a cooling system allows easy installation of max. 2 or 4 fan group. Single brushed cable access for W=600 cabinets, 3ea. brushed cable access for W=800 mm. 19”(inch) mounting angles (2 ea. in front and 2 ea. in rear) shall be part of cabinet interior and adjustable in depth. Levelling feet are standard for stability. The cabinet shall meet standards EN 61587-1, IEC 60917, IEC 60297 and RoHS compliant, shall be Gost and TSE certified.

TECHNICAL SPECIFICATIONS

Custom number

85380000 / 85381000 / 853710990019

Packs of (ea.)

1

Shipping structure

Flat pack

Mounting type

Free standing

Load carrying capacity (kg)

400

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

Standard colour

RAL 7035, RAL 9005

Standard stripe colour

Orange

IP protection standard

IP20

FRONT DOOR

Single opening shatterproof glass with left and right metal frame for 600x600mm, 600x800mm

Double opening shatterproof glass with left and right metal frame for 800x800mm

Single opening perforated %63 with complete metal frame, for 600x1000mm

Glass

4 mm full-length smoked, shatterproof, tempered, secure

Front Door Construction

Single door opening for W=600 mm cabinets

Double door opening for W=800 mm cabinets

Front Door Lock

Handle type, single point locking for W=600 mm cabinets

Double(top&bottom) barrel type locking for W= 800 mm cabinets

Adhesive material

High density polyurethane DIN 53479, DIN 53505

Hinge system

Spring loaded

Door opening angle

105 degree

SIDE PANEL

Solid metal, 1,5 mm. Left and right (2ea.)

Side panel construction

Non-removable screwed with M6x15

REAR DOOR

Solid metal, 1,0 mm

Rear door construction

Single door opening, lockable, removable for W=600 mm cabinets

Double door opening, lockable, removable for W= 800 mm cabinets

Rear door lock

Barrel type lock unit, single point, handled locking system for 600x1000 mm ECOline SERVER

Hinge system

Spring loaded

Door opening angle

105 degree

FRAMEWORK

Top and bottom base units

Solid metal 1,5 mm

Top and bottom base units construction

Mono-block, bended construction

OPTIONS

Front door options

Single opening solid metal door for 600x600mm, 600x800mm (look at page number 93)



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

FREQUENTLY USED ACCESSORIES SELECTION TABLE FOR ECOLine

Estap has a wide range of accessories: Fixed shelves, heavy duty fixed shelves, sliding shelves, fans, cooling units, vertical cable managements, cable rings, organisers, trays, plinth and so on...

* See the other accessories and part number definitions 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



ECOLine / Shelves Part numbers	Enclosure sizes*			
	600x600	600x800	600x1000	800x800
Fixed shelves	M44SBR60	M44SBR80	M44SBR100	M44SBR80
Heavy duty fixed shelves	-	-	M55SR720	-
Sliding shelves	M44HRK60	M44HRK80	-	M44HRK80
Heavy duty sliding shelves	-	-	M55HR720	-



ECOLine / Fan units Part numbers	Enclosure sizes*			
	600x600	600x800	600x1000	800x800
2 Fan unit with on/off switch	M35HV2F	M35HV2F	M35HV2F	M35HV2F
4 Fan unit with on/off switch	M35HV4F	M35HV4F	M35HV4F	M35HV4F
2 Fan unit with thermostat unit	M35HV2FT	M35HV2FT	M35HV2FT	M35HV2FT
4 Fan unit with thermostat unit	M35HV4FT	M35HV4FT	M35HV4FT	M35HV4FT



ECOLine / Cable management Part numbers	Enclosure sizes*			
	600x600	600x800	600x1000	800x800
1U cable management panel (5 rings)	E44ORG1U	E44ORG1U	E44ORG1U	E44ORG1U
Vertical cable management	-	-	-	M44ORG42ECO



ECOLine / PDU Part numbers	Enclosure sizes*			
	600x600	600x800	600x1000	800x800
6 way PDU with 1x16A CCTbreaker, 1U	M446AL_ES	M446AL_ES	M446AL_ES	M446AL_ES
9 way PDU with 1x16A CCTbreaker, 2U	M449ALC_ES	M449ALC_ES	M449ALC_ES	M449ALC_ES



ECOLine / Castor Part numbers	Enclosure sizes*			
	600x600	600x800	600x1000	800x800
Castor group	M22TKGR1	M22TKGR1	M22TKGR1	M22TKGR1
Fixings/ M6 cagenut screw, washer (1 set=20 pcs)	KFS6X15	KFS6X15	KFS6X15	KFS6X15

* Please check drawing pages for cabinet sizes.