

The logo for GUNKO features the word "GUNKO" in a bold, white, sans-serif font. The letter "O" is replaced by a red circular graphic element consisting of two concentric arcs, one on the top and one on the bottom, creating a stylized ring effect.

**GUNKO**

**DATA CENTER  
SOLUTIONS**





## INDEX

About Us?	06
Micro Data Center	10
SmartOne	12
SmartRack	14
SmartDC	16
Micro Data Center Accessories	19
Modular Data Center	27
Cabinet Accessories	43
Closed Corridor Types And Technics	52
Container Data Center	68





## ABOUT US?

**We began for industrial steel roof construction manufacturing in 1974 as a small-scale entrepreneur and over the same timeframe as a different line of production we invested for outdoor type air handling unit insulation panels with some brands which are on global scale.**

With the contributions of that companies we served, we successfully adopted of continuous improvement in matters such as metal production and quality control as the main principle of production.

In 2004 GÜNKO entered a new phase of expansion and decided to expand its manufacturing capacity for Telecom infrastructure market.

We started to produce product groups that we are specialized in manufacturing of 19" Rack Cabinets, wide range of accessories, Data center Hot/Cold aisles as and Outdoor type IP-Rated enclosures by having the necessary international certificates and test reports.

Today with all metal shaping experience of over 45 years, we continue to increase our market share both in Turkey and globally with well-known cabling and connectivity solution providers for their end-to-end telecommunication projects, as well as taking firm steps towards growth.





# MICRO DATA CENTER



# MICRO DATA CENTER

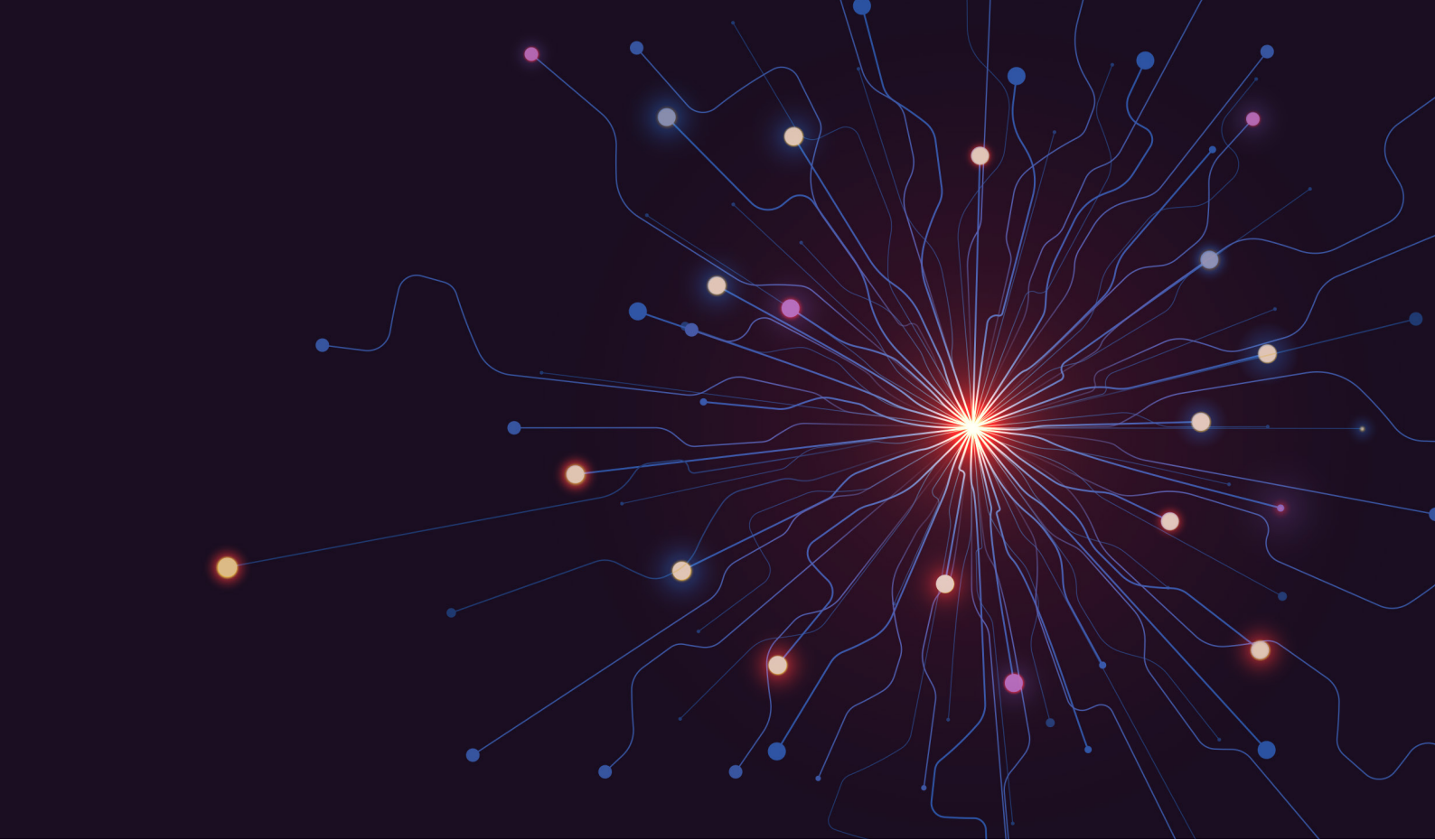


## WHAT IS A MICRO DATA CENTER?

**It is an integrated small data center solution consisting of cabinets or a single cabinet that can be placed in a single row.**

Micro Data Centers contain all the infrastructure parts needed by a data center in a single structure, such as server (hosting) and/or network (cabling) cabinets, hot-cold aisle structure, uninterruptible power supply, precision air-conditioning, power distribution, outlets server group, fire detection and extinguishing system, monitoring and management devices, physical security and cameras.





# WHO NEEDS MICRO DATA CENTER AND WHY?

**All of today's businesses need server, network and security infrastructure in their offices and facilities in order to realize their internet-based services and needs such as e-mails, financial transactions, accounting programs, internal communication, etc.**

Large enterprises could easily find solutions to their needs with the information technology rooms they set up in their own facilities or the services they receive from large data centers by leasing. On the other hand, for the majority of the small and medium-sized enterprises, data center solutions could not be established with suitable physical conditions, with a safe, secure, and traceable data processing rooms. Considering the aforementioned, the need for user friendly reliable smart solutions which controlled from a single point is increasing.

Micro Data Centers (MDC) are designed to meet the communication and information infrastructure needs of public and private enterprises, regional sub-representatives, small and medium sized enterprises (SME's) bank branches and regional locations, production facilities, offices of all sizes and similar enterprises. MDCs are integrated products that contain cooling, energy and security needs in a single structure in order to accommodate devices from a single point.

Micro Data Center solutions do not require any construction investments or any rooms reserved for the data centers. MDCs are ideal solutions that can be installed in locations where any room can be allocated architecturally for information needs, and even inside of offices if necessary.

# SmartOne

COOLING, ENERGY, AND SAFETY  
ALL IN ONE SOLUTION



Micro Data Centers are optimal solutions for accommodating all the infrastructure needs under single construction.



SmartOne is an optimal solution to gather all active devices and infrastructure needs in a single cabinet.

SmartOne provides at least 37U free space in 42U cabinet for device installment.

In order to provide N or 2N capacities of energy redundancy with cooling needs, cabinets are equipped with 2000/3500 Watt On/Off and 2500/5000-Watt Inverter In rack Type Precision Air Conditioners. These Air Conditioners are special devices designed and work 24/7 uninterruptedly for the information communication systems.



Inrack Type Cooling

Precision Cooler



With SmartOne, all needs required for creating a server room such as sensitive cooling, electrical distribution panel, automatic transfer system, environment monitoring and security infrastructure, monitorable and manageable uninterrupted energy distribution, NOVEC1230 or FM200 fire detection and extinguish system and all types of simple and smart PDU's intended to be gathered together in a single cabinet.



## SmartOne Micro Data Center

Model	SM02X	SM03X	SM03	SM05
<b>RACK INFO</b>				
Power Consumption Per Rack	2 kW/rack	3,5 kW/rack	3,5 kW/rack	5 kW/rack
Rack Amount	1 (Single)			
IP Class	IP54			
Rack Height- H	42U / 45U / 47U			
Rack Width- W	600 mm (R6) / 800 mm (R8)			
Rack Depth- D	1200 mm			
Front Door	Glass Or Flat Metal Front Door			
Rear Door	Flat Metal Rear Door			
<b>COOLER INFO</b>				
Cooler Type	InRack (On/Off)		InRack (Inverter)	
Cooler- Direct Expansion DX	2000 W	3500 W	3500 W	5000 W
Cooler- Capacity @35°C-35°C	1178 Watt	1665 Watt	1448 Watt	1920 Watt
Cooler- Electricity Info	1 Phase, 230 Volt, 50/60 Hz			
Cooler- Redundancy	N (1 ea / No Redundancy)			
Cooler- Dimensions (HxWxD)	5U x 19" x 750 mm			
<b>UPS</b>				
UPS	3 kVA		6 kVA	
UPS Type	Rack Type (2U)		Rack Type (2U+2U)	
UPS- Redundancy	N (1 ea / No Redundancy)			
UPS- Batteries	5 ~ 15 Minutes			
UPS- Electricity Info	1 Phase, 230 Volt, 50/60 Hz			
<b>PDU</b>				
PDU	Basic		Measurable	
PDU- Input Info	1 Phase, 230 Volt, 50/60 Hz, 32 Amper, 3x6 mm H05VV-F			
PDU- Output Info	18~36 x C13 + 3~6 x C19			
<b>MONITORING</b>				
MONITORING	Basic		Measurable	
Main Unit	Micro Box with electronic control		1U, Rack type with electronic control	
Sensors	Heat, Humidity, Cabinet Door Status, Water Leakage, Smoke, Air Quality, Movement, Vibration, Earthquake			
Security- Access	Biometric, Keypad, RFID			
Security- Cameras	IP Cam (1-2 pcs)			

# SmartRack

COOLING, ENERGY, AND SAFETY  
ALL IN ONE SOLUTION



It is an economic product that produced to be placed all the infrastructure parts which needed by a Micro Data Center solutions in a single cabinet.



SmartRack provides at least 42U InLine Type air conditioning and at least 34U In Rack Type air conditioning free space in 42U cabinets for device placement.

This system provides N or 2N capacities of energy redundancy, it is equipped with a 1000/2000/3500 Watt InLine ve InRack Type precision air conditioner on the inner side of the cabinet in order to meet the cooling needs correctly. These are the special devices that are produced and designed to work without 7/24 uninterruptedly for air conditioning of information communication systems.



With the SmartRack has been structured all the needs of a server room, such as cooling, electrical distribution panel, automatic transfer system, environment monitoring and security infrastructure, manageable and monitorable uninterrupted power distribution, NOVEC1230 or FM200 fire detection and extinguishing system and all types of simple and smart PDUs in a single cabinet.

## SmartRack ( InLine / InRack Cooler)

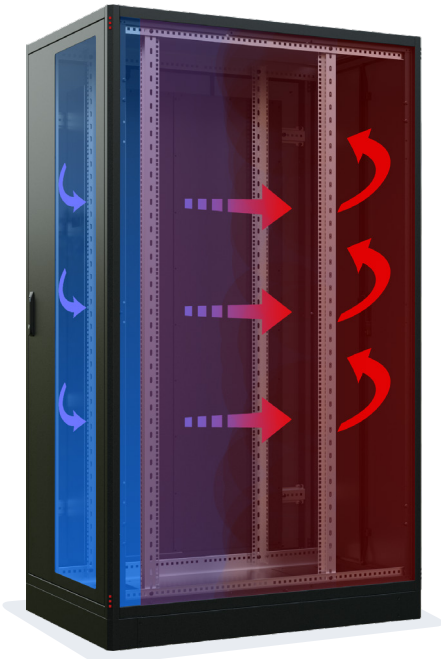
Model			
InLine Cooler	<b>SR10L</b>	<b>SR20L</b>	<b>SR35L</b>
InRack Cooler	<b>SR10R</b>	<b>SR20R</b>	<b>SR35R</b>
<b>RACK INFO</b>			
Power Consumption Per Rack	<b>1 kW/rack</b>	<b>2 kW/rack</b>	<b>3,5 kW/rack</b>
Rack Amount	1 (Single)		
isolation class	<b>IP55</b>		
Rack Height- H	42U / 45U / 47U		
Rack Width- W	600 mm (R6) / 800 mm (R8) / 900 mm (R9)		
Rack Depth- D	1200 mm		
Front Door	Glass or Flat Metal Front Door		
Rear Door	Flat Metal Rear Door		
<b>COOLER INFO</b>			
Cooler Type	<b>InLine (Package) / InRack (Package)</b>		
Cooler- Direct Expansion DX	<b>1000 W</b>	<b>2000 W</b>	<b>3500 W</b>
Cooler- Capacity @35°C-35°C	477 Watt	832 Watt	1436 Watt
Cooler- Electricity Info	1 Phase, 230 Volt, 50/60 Hz		
Precision Cooler - Redundancy	<b>N</b> (1 ea / No Redundancy)		
Cooler - Dimensions (HxWxD) InLine	900 x 200 x 900 mm		
Cooler - Dimensions (HxWxD) InRack	6Ux19"x750 mm	8Ux19"x750 mm	
<b>UPS</b>			
UPS	<b>3 kVA</b>		
UPS Type	Rack Type (2U)		
UPS- Redundancy	<b>N</b> (1 ea / No Redundancy)		
UPS- Batteries	5 ~ 15 Minutes		
UPS- Electricity Info	1 Phase, 230 Volt, 50/60 Hz		
<b>PDU</b>			
PDU	Basic	Measurable	
PDU- Input Info	1 Phase, 230 Volt, 50/60 Hz, 32 Amper, 3x6 mm H05VV-F		
PDU- Output Info	18~36 x C13 + 3~6 x C19		
<b>MONITORING</b>			
MONITORING	Basic	Measurable	
Main Unit	Mikro Box With Electronic Control	1u, Rack Type With Electronic Control	
Sensors	Heat, Humidity, Cabinet Door Status, Water Leakage, Smoke, Air Quality, Movement, Vibration, Earthquake		
Security - Access	Biyometrik, Keypad, RFID		
Security - Cameras	IP cam (1-2 pcs)		

# SmartDC

COOLING, ENERGY, AND SAFETY  
ALL IN ONE SOLUTION



SmartDC is a high-end product produced to accommodate all infrastructure needs up to three cabinets.



SmartDC is the high-end product of Micro Data Center solutions, produced to place active devices and all infrastructure needs in a single cabinet.

SmartDC provides at least 42U of free space for device placements in the cabinet.

Cabinets are equipped with a 12000-Watt Inline Type Precision Air Conditioners in order to meet the cooling needs and provide N or 2N capacities with energy redundancy. These Air Conditioners are special devices designed and work 24/7 uninterruptedly for the information communication systems.



Precision Cooler Outside Unit



With SmartDC, all needs required for creating a server room such as sensitive cooling, electrical distribution panel, automatic transfer system, environment monitoring and security infrastructure, monitorable and manageable uninterrupted energy distribution, NOVEC1230 or FM200 fire detection and extinguish system and all types of simple and smart PDU's intended to be gathered together in a single cabinet.

## SmartDC Micro Data Center

Model	SD12	SDR6&SDR8
<b>RACK INFO</b>		
Power Consumption Per Rack	4- 6- 12 kW/rack	
Rack Amount	1 ~ 3	
Isolation Class	IP54	
Rack Height- H	42U / 45U / 47U	
Rack Width- W	800 mm (R6)	600 mm (R6) / 800 mm (R8)
Rack Depth- D	1200 mm	
Front Door	Glass or Flat Metal Front Door	
Rear Door	Flat Metal Rear Door	
<b>COOLER INFO</b>		
Cooler Type	Inline (Inverter Compressor)	
Cooler- Direct Expansion DX	12000 W	
Cooler- capacity	4384 Watt	
Cooler- Electricity Info	1 Faz, 230 Volt, 50/60 Hz	
Cooler- Redundancy	N (1 ea / No Redundancy) ; 2n (2 pcs/Full Redundancy)	
Cooler- Dimensions (HxWxD)	1700 x 180 x 800 mm	
<b>UPS</b>		
UPS	10 kVA	
UPS Type	Rack Type (2U+2U)	
UPS- Redundancy	N (1 ea / No Redundancy) ; 2N (2 pcs/Full Redundancy)	
UPS- Batteries	5 ~ 15 Minutes	
UPS- Electricity Info	1 Phase, 230 Volt, 50/60 Hz	
<b>PDU</b>		
PDU	Basic	Measurable
PDU- Input Info	1 Phase, 230 Volt, 50/60 Hz, 32 Amper, 3x6 mm H05VV-F	
PDU- Output Info	18~36 x C13 + 3~6 x C19	
<b>MONITORING</b>		
MONITORING	Professional	
Main Unit	1u, Rack Type With Electronic Control	
Sensors	Heat, Humidity, Cabinet Door Status, Water Leakage, Smoke, Air Quality, Movement, Vibration, Earthquake	
Security- Access	Biometric, Keypad, RFID	
Security- Cameras	IP Cam (1-2 pcs)	



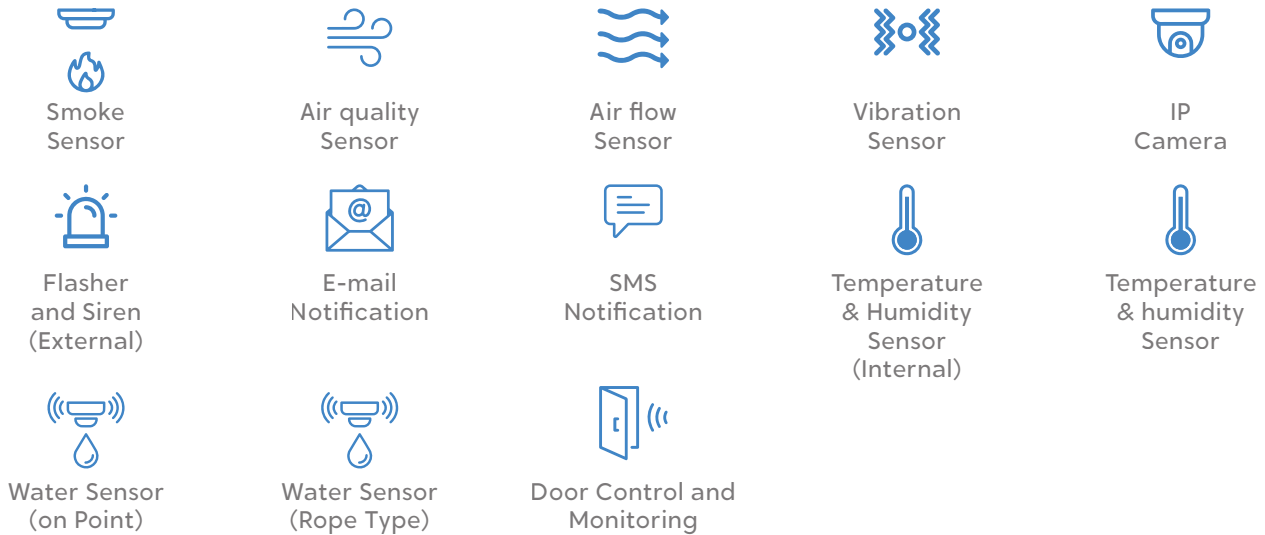
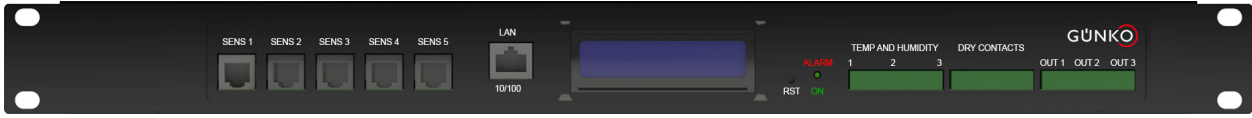


# **MICRO DATA CENTER ACCESSORIES**

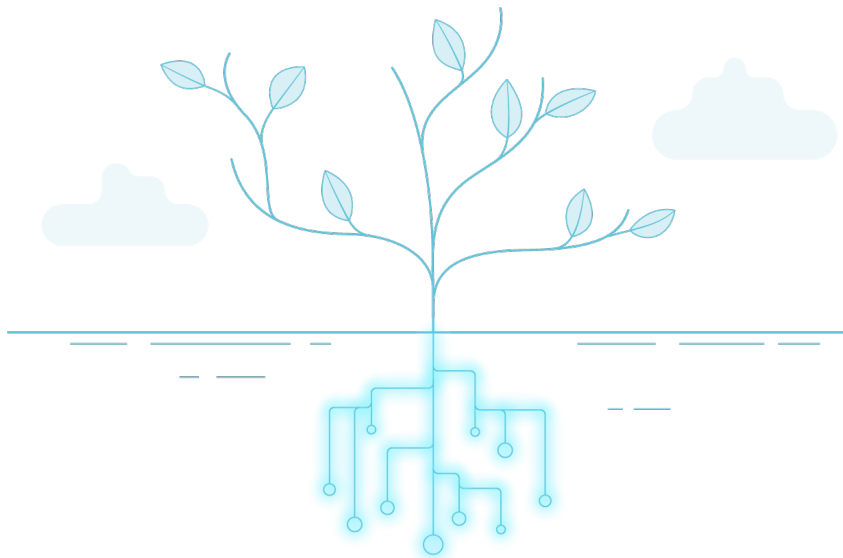


# ENVIRONMENT MONITORING SYSTEM

## EMS Series



**GÜNKO EMS** Series Environmental Monitoring System is a user-friendly device used to monitor, measure, record and control environmental variables (**temperature, humidity, smoke, air flow**) of data center rooms. Device can work without the need for any server connection. Device offers a reliable solution that is compatible with all sensors in industrial standards, easy to assemble and install.



You can easily include the device in your local network with the **LAN Ethernet** connection available as standard. You can monitor remotely with secure web Access. You will be instantly informed of alarm notifications in many ways such as **SMS, e-mail, SNMP**. Data collected from sensors can be saved. The data collected with the **GÜNKO EMS** Series Environment Monitoring System and the connection established with the user are secured with advanced encryption algorithms. You can monitor all sensor status with the LCD screen. By connecting with compatible IP camera systems, you can remotely view and record live.

## TECHNICAL SPECIFICATIONS

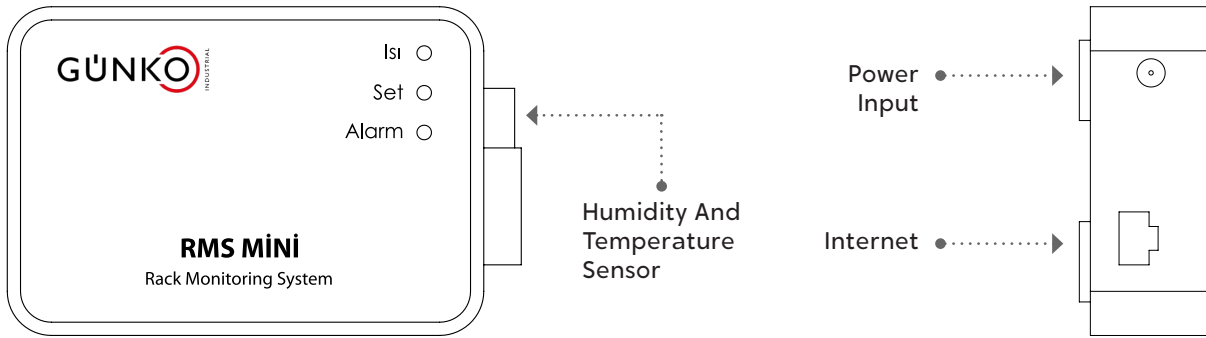
Model	EMS 1000
Dimensions	19" x 105 x 44 mm
Weight	480 gr
Voltage Supply	12 VDC
Current (Power)	500-2000 mA
Isolation Class	IP40
System Operating Temperature	(-)20 ~ 85°C ; %85 Rh
Sensor Operating Temperature	0 ~ 80°C ; %95 Rh
EMC accesibility	TS EN 61000-6-2
Measurement Accuracy	± %1
Measurement Range	750 ms
Notification Period	manageable
Limit Settings	Lower and Upper Limits Are Manageable
GSM Identification	Optional
Communication Protocol	Standard TCP IP ; GPRS
Protocols	HTTP, HTTPS, SNMP Traps, Modbus, FTP, SSH, Telnet
Digital Input	6 ea
Digital Output	2 ea
Analog Input	6 ea
Emergency E-Mail	Standard
Emergency SMS	Optional
Door Sensor	On/Off Magnetic Sensor
Temperature & Humidity Sensor	Internal
Water Leakage Sensor	Single Cable Water Leakage Sensor
Siren Output	Standard



# ENVIRONMENTAL MONITORING SYSTEM

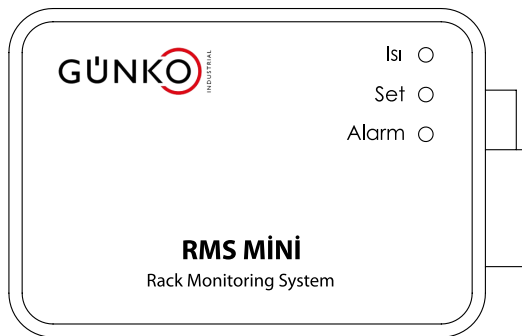
## RMS MINI

GÜNKO RMS MINI environmental monitoring device is a user-friendly device used to monitor, measure, record and control environmental variables (temperature, humidity, smoke) of single cabinet data center solutions.

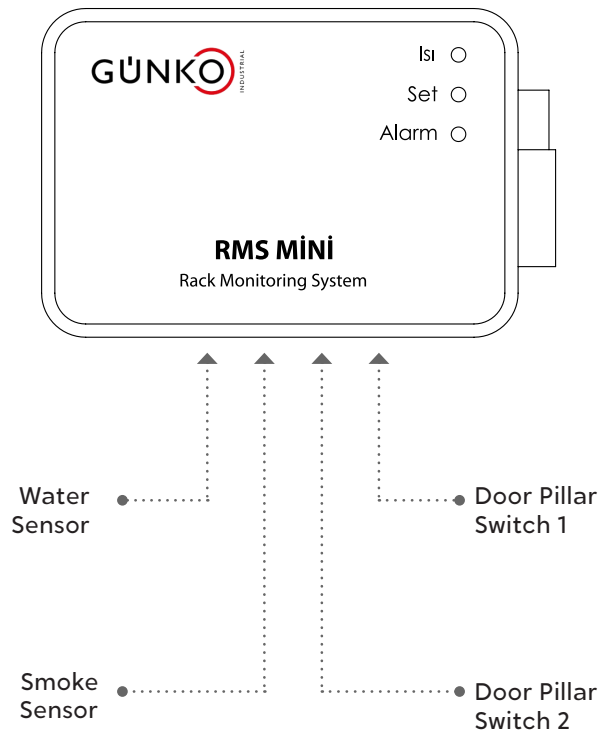


You can easily include GÜNKO RMS MINI environment monitoring device in your own local network with the LAN ethernet connection as standard. You can monitor remotely and be instantly notified via e-mail with secure web access.

RMS MINI- 01



RMS MINI- 02



# PDU

## GROUP SOCKETS



GÜNKO PDU		
PDU Type	Basic	Monitored
<b>INPUT SPECIFICATIONS</b>		
Voltage	1 Phase, 230 Volt, 50/60 Hz	1 Phase, 230 Volt, 50/60 Hz
Current (Power)	16- 32- 63 A	16- 32-A
Ingress Protection	Mini Circuit Breaker Hydraulic Magnetic Breaker	Hydraulic Magnetic Breaker
Connection	IEC60309	IEC60309
Cable	3x6 mm H05VV-F 3x10 mm H05VV-F	3x6 mm H05VV-F
Measurement (Input)	Ampermeter Voltmeter	Current, Voltage, Frequency, Active & Reactive Power, Energy
Communication	-	SNMP
<b>OUTPUT SPECIFICATIONS</b>		
Voltage	1 Phase, 230 Volt, 50/60 Hz	1 Phase, 230 Volt, 50/60 Hz
Current ( Power)	C13- 10 A ; C19- 16 A	C13- 10 A ; C19- 16 A
Output Sockets	C13 ; C19	C13 ; C19
Number Of Output Sockets	C13- 18~36 pcs C19- 3~6 pcs	C13- 18~24 pcs C19- 2~4 pcs
<b>PHYSICAL SPECIFICATIONS</b>		
Dimensions	1Ux1U ; 55x55 mm	55x55 mm
Color	Ral 9005 Black; Special	Ral 9005 Black; Special
Environmental Conditions	0-3000 m, %5-95 Rh, 0-45°C	0-3000 m, %5-95 Rh, 0-45°C
Certificates	EMC, LVD, ROHS	EMC, LVD, ROHS

**GÜNKO PDU's** are economic and user-friendly products which developed to provide uninterrupted energy supply in cabinets where all kinds of servers and network devices are hosted, in data centers of all sizes, and in rooms or units where information and communication devices used especially in offices and residences.



# DOORS SECURITY OPTIONS

GÜNKO Smart Series Micro Data Centers front and rear doors are manufactured with a three-point lockable bar mechanism and gasket insulation for both air isolation and physical security. Door handles are supplied with key lock as standard. RFID Card, Keypad Password and Fingerprint solutions are also offered for electronic security control.

**Standard  
Lever Lock**



**Combination  
Lever Lock**



**Lever Lock  
With Integrated RFID Reader**



**Electronic  
Lever Lock**



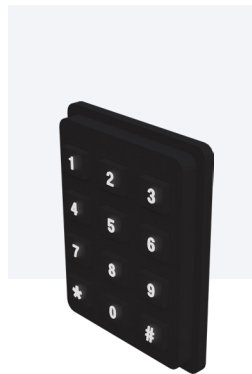
**Fingerprint Reader**



**Electronic Lock With  
Embedded RFID  
Reader**




**Keypad**












# **MODULAR DATA CENTER**



# MODULAR DATA CENTER



## WHAT IS THE MODULAR DATA CENTER?

**Modular Data Center is a solution that have all the infrastructure parts which needed by a Data Center such as server and network cabinets, hot-cold aisle structure, redundant uninterruptible power supply, redundant inrow precision air conditioners, uninterruptible power distribution system, the server group power outlets (PDU), fire detection and extinguishing system, monitoring and control devices, physical security, and cameras, etc and all products requirements in the form of modules independent of each other in an single corridor structure.**

White Space is a special air-conditioned processing area or hall where data is stored, transactions are made and communication takes place, server computers and network (internal and external network communication)products are hosted in data centers. "The White Space" expression represents that the used area is an empty space ready for use and the working area with the ground color used.



## WHO NEEDS AND WHY?

**The cabinets can be placed side by side or mounted each other to be useful and space saving in data centers or the server rooms. The situation is called in which the cabinets are placed side by side, "CABINET ROW" or "ROW". In data centers where there are more than one row, the spaces or areas formed between these rows are called "CORRIDORS".**

According to the standard ANSI/TIA/EIA-942 Telecommunications Infrastructure Standard for Data Centers which defines the infrastructure qualifications and requirements of buildings and Data Centers published by TIA- Telecommunication Industry Association, in order to manage the cooling function all devices and the cabinets in data centers should be placed that the air suction and discharge directions do not affect each other. For this reason, the cabinets are in the white space of the data centers are placed that the front covers of the devices, which are the air suction direction, and the rear covers of the devices, which are the direction of the discharge, facing each other. In this case the corridor that is created by the front covers of the cabinets facing each other and the cold air is absorbed by the devices is cold corridor; the corridor that is created by the rear covers facing each other and the hot air is discharged by the devices is hot corridor.

In order to maximize your cooling productivity according to your cooling solution, we have closed the top with special panels and the entrances with special doors to prevent air leakage in the corridors. This structure we have created is called closed corridor. If the cold corridor is closed, it creates closed cold corridor or the hot corridor is closed, creates closed hot corridor. In the closed cold corridor, the inside of the corridor will be cold and the hall will be hot; in the closed hot corridor, the inside of the corridor will be hot and the hall will be cold. In case of the constitutive parts of closed corridors are easy to assemble and disassemble it is called modular closed corridor.

# SERVER RACK DC

## 19" Free Standing Rack Cabinet

### Server Rack DC 19" Free Standing Rack Cabinet

**H: 42U / 45U / 47U W: 600 / 800 mm  
D: 1000 / 1100 / 1200 mm**

Server Rack DC is a unique data center server chassis designed to house heavy server and network systems, Server Rack cabinets are compatible with 19" rack mount equipment from all global manufacturers including DELL, Compaq, HP and IBM.

There are 3 different dimensions in between 42 U to 47U available. Heavy-duty construction with welded front and rear frames features a double-layer vertical structure with a total thickness of 3mm. Carrying capacity of the cabinet is 1500kg.

Server Rack DC series cabinets are designed in a structure suitable for data center and hot/cold corridor uses.

Server Rack DC cabinets provide Professional protection against all physical impacts and unauthorized intervention. The front and rear doors of the cabinet are manufactured with perforated for effective passive ventilation. Standard Server Rack DC cabinets are produced with 85% perforated single front door and 85% perforated double rear doors.

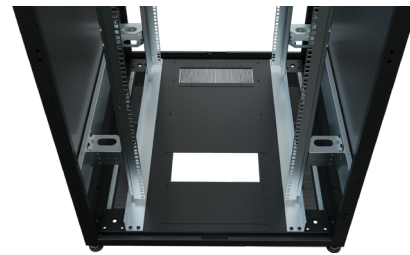
Front and rear doors are produced with four-point hinges. In addition, locks are providing high level of security with 4 points in single-wing doors and 3 points in double-wing doors. Side panels are designed with 2 horizontal lockable sections. This structure provides easy assembling besides easy disassembled transportation.

Ral9005 Black and Ral 7035 Light Gray paint options are available. Ral 9005 black paint is applied in our standard products.



### TOP AND BOTTOM CABLE ENTRIES

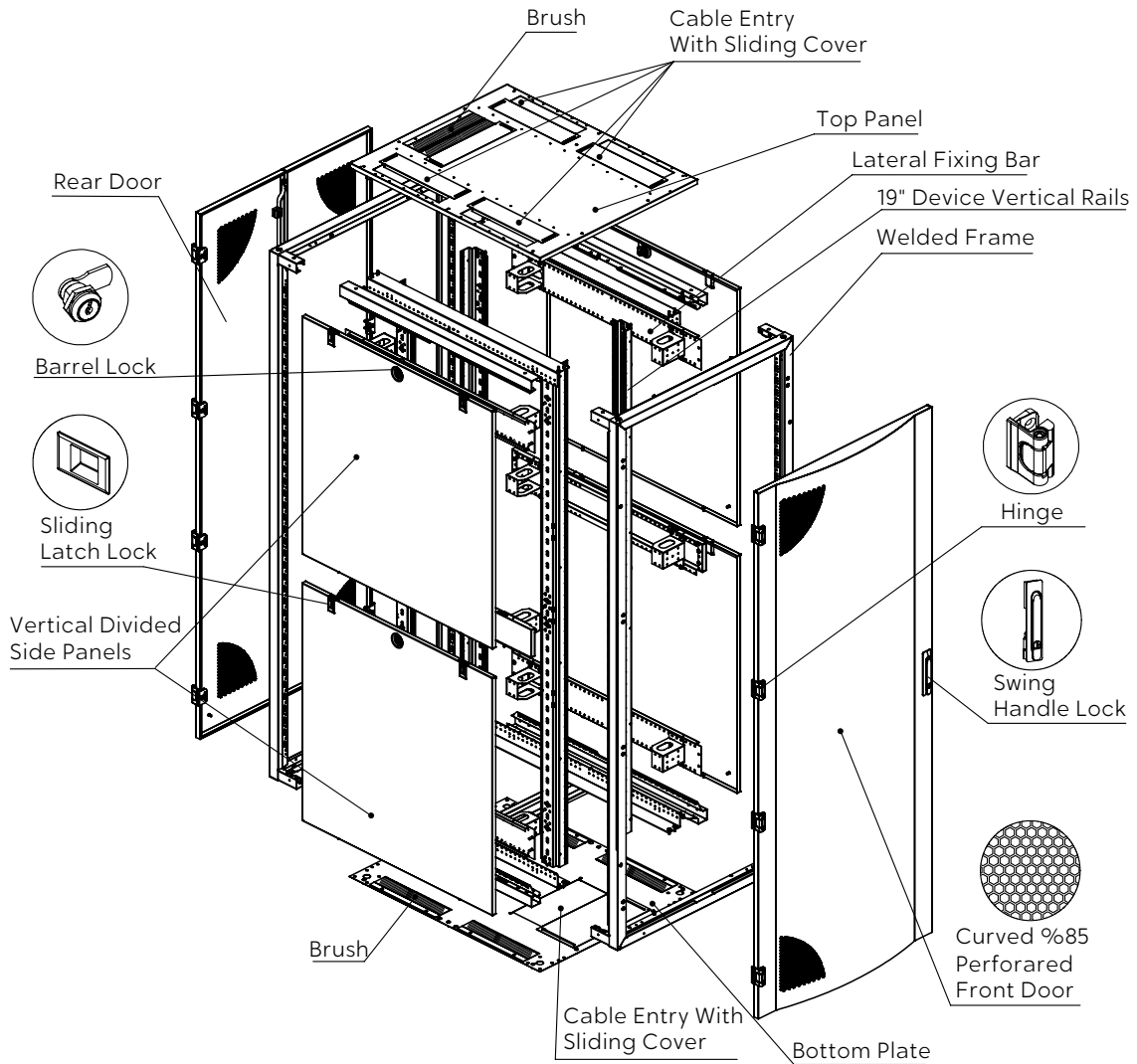
Server Rack DC Cabinets with different cable entries provides high quality solutions



There are 5 brushed cable entries on the lower chassis, 2 on the right and 2 on the left, and 2 on the opposite sides. In addition, there is a cable entry with a sliding cover on the front that allows dense cable bundles' easy installation.



There are 4 cable entries with sliding covers on the upper chassis, 2 on the right and 2 on the left and 2 on the opposite sides.



**Standard**  
Levelling Feet Set 1 = 4 pcs



**Optional**  
Castors Group 1 set: 4pcs lockable, Rotatable

## CONSTRUCTION DETAILS

Side panels are designed with 2 horizontal lockable sections. Benefit of this structure is the panels are easily removable and portable for the installation. There are one "O" lock and 2 deadbolt locks on the doors that provide locking. It is quickly and easily joined to the main.



### 19" DEVICE VERTICAL RAILS

Cabinet includes 4 pieces of 19" device vertical rails with 2mm thickness which can be assembled any location within depth of the cabinet.

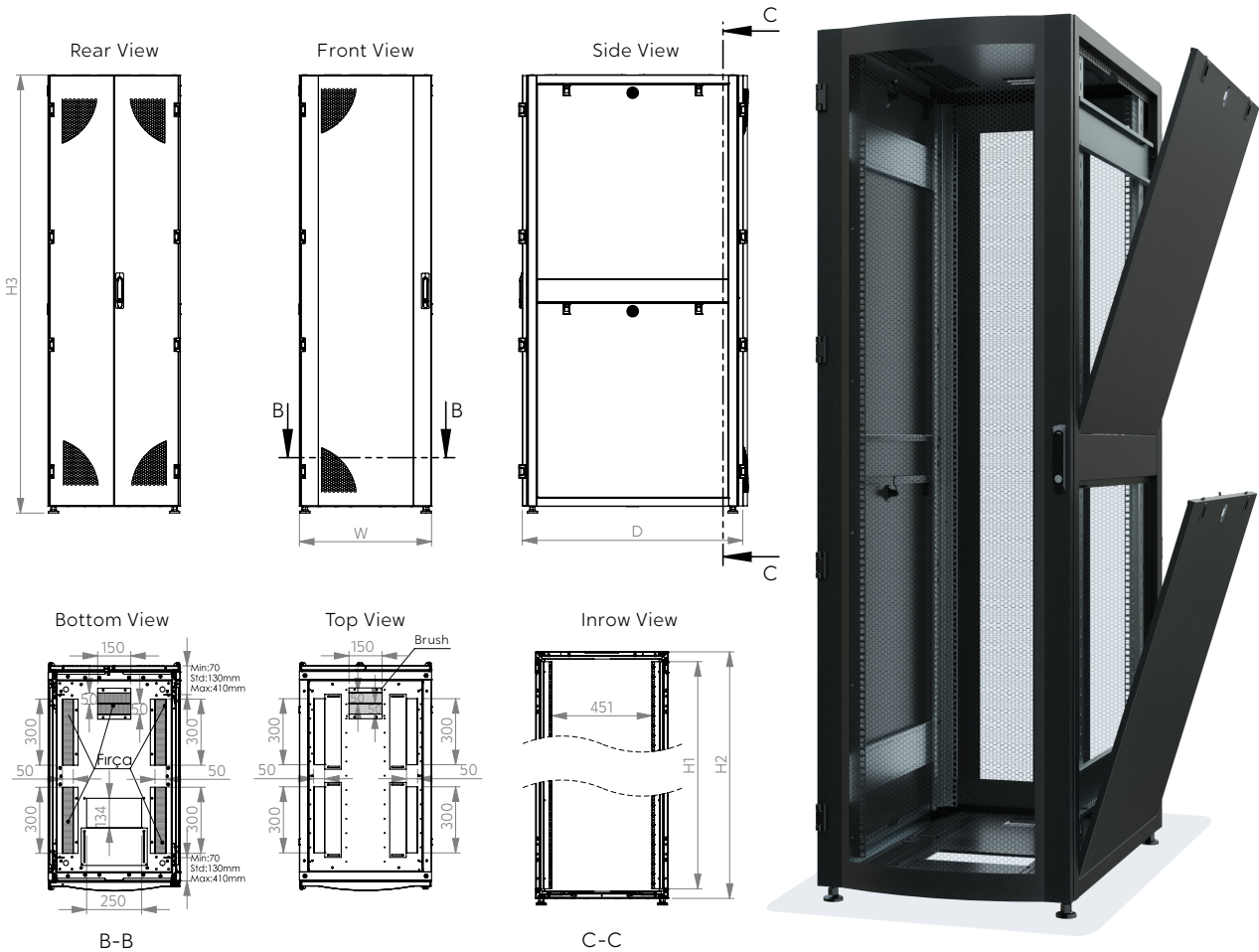


### HORIZONTAL SUPPORT UNIT

3 pieces of horizontal support units are used on the right and left sides of each cabinet in order to mount 19" device vertical rails and support the rigid structure of the cabinet. Support units are high strength and made of zinc plated to provide resistance against corrosion

# SERVER RACK DC VIEW

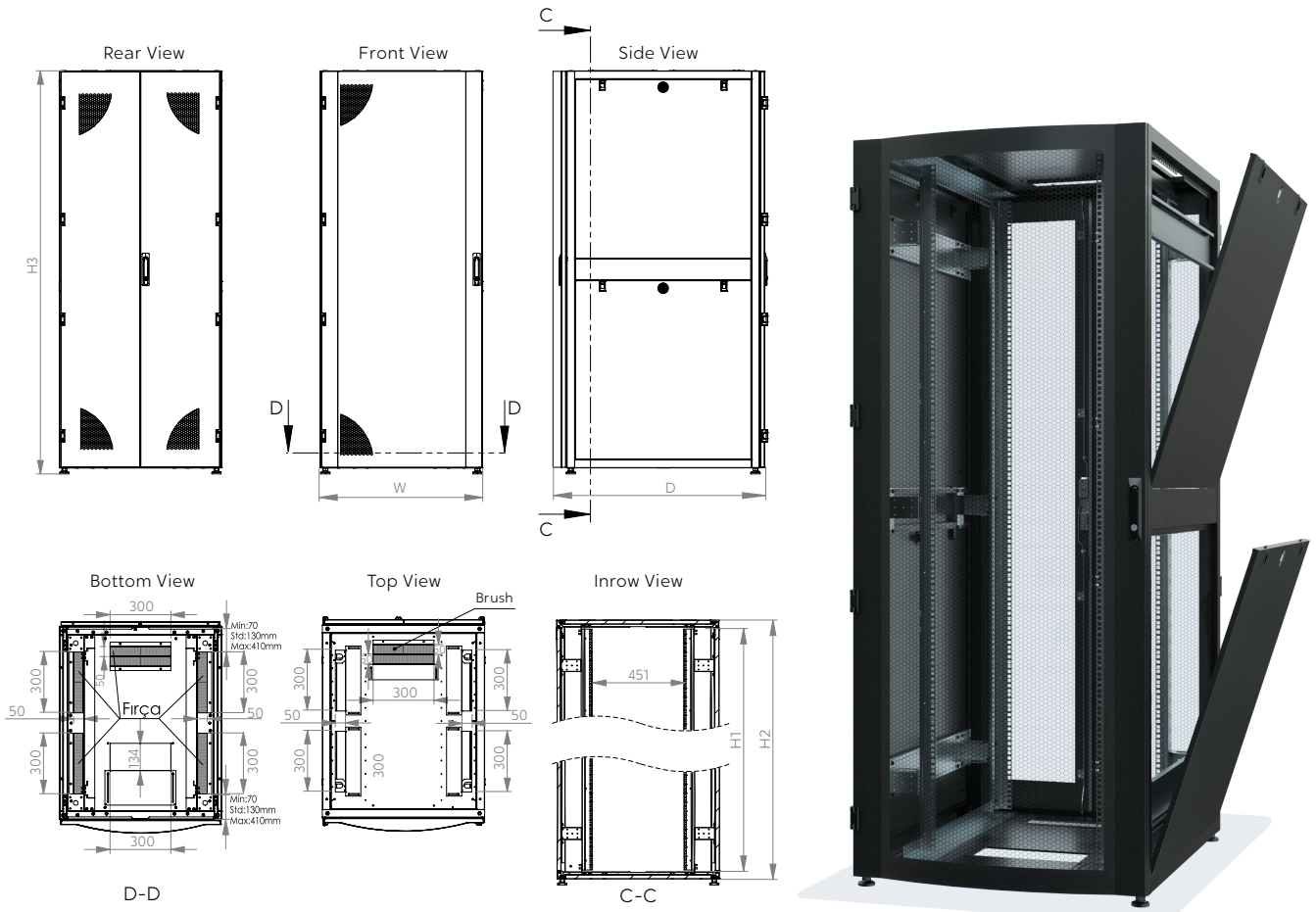
600 MM



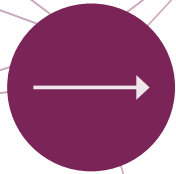
Product Code	Product Description	Width (W)	Depth (D)	Inner Height	Outer Height without Levelling Feet and Casters	Outer Height with Levelling Feet
SVRKDC42U6010CC341	Server Rack DC 19" 42U	600 mm	1000 mm	1870,1 mm	1958 mm	1988 mm
SVRKDC45U6010CC341	Server Rack DC 19" 45U	600 mm	1000 mm	2003,4 mm	2091,3 mm	2121,3 mm
SVRKDC47U6010CC341	Server Rack DC 19" 47U	600 mm	1000 mm	2092,3 mm	2180,2 mm	2210,2 mm
SVRKDC42U6011CC341	Server Rack DC 19" 42U	600 mm	1100 mm	1870,1 mm	1958 mm	1988 mm
SVRKDC45U6011CC341	Server Rack DC 19" 45U	600 mm	1100 mm	2003,4 mm	2091,3 mm	2121,3 mm
SVRKDC47U6011CC341	Server Rack DC 19" 47U	600 mm	1100 mm	2092,3 mm	2180,2 mm	2210,2 mm
SVRKDC42U6012CC341	Server Rack DC 19" 42U	600 mm	1200 mm	1870,1 mm	1958 mm	1988 mm
SVRKDC45U6012CC341	Server Rack DC 19" 45U	600 mm	1200 mm	2003,4 mm	2091,3 mm	2121,3 mm
SVRKDC47U6012CC341	Server Rack DC 19" 47U	600 mm	1200 mm	2092,3 mm	2180,2 mm	2210,2 mm

# SERVER RACK DC VIEW

800 MM

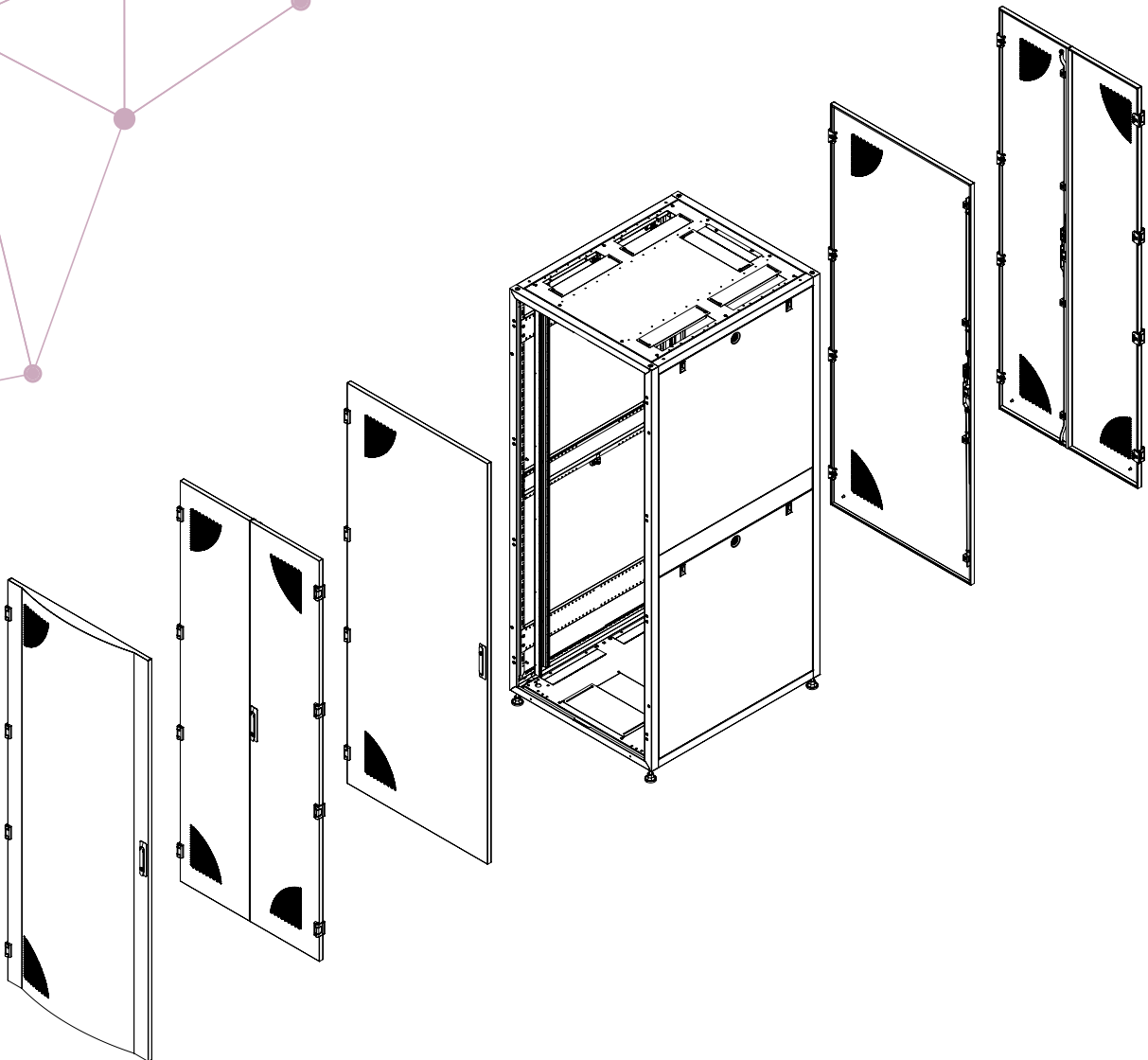


Product Code	Product Description	Width (W)	Depth (D)	Inner Height	Outer Height without Levelling Feet and Casters	Outer Height with Levelling Feet
SVRKDC42U8010CC341	Server Rack DC 19" 42U	800 mm	1000 mm	1870,1 mm	1958 mm	1988 mm
SVRKDC45U8010CC341	Server Rack DC 19" 45U	800 mm	1000 mm	2003,4 mm	2091,3 mm	2121,3 mm
SVRKDC47U8010CC341	Server Rack DC 19" 47U	800 mm	1000 mm	2092,3 mm	2180,2 mm	2210,2 mm
SVRKDC42U8011CC341	Server Rack DC 19" 42U	800 mm	1100 mm	1870,1 mm	1958 mm	1988 mm
SVRKDC45U8011CC341	Server Rack DC 19" 45U	800 mm	1100 mm	2003,4 mm	2091,3 mm	2121,3 mm
SVRKDC47U8011CC341	Server Rack DC 19" 47U	800 mm	1100 mm	2092,3 mm	2180,2 mm	2210,2 mm
SVRKDC42U8012CC341	Server Rack DC 19" 42U	800 mm	1200 mm	1870,1 mm	1958 mm	1988 mm
SVRKDC45U8012CC341	Server Rack DC 19" 45U	800 mm	1200 mm	2003,4 mm	2091,3 mm	2121,3 mm
SVRKDC47U8012CC341	Server Rack DC 19" 47U	800 mm	1200 mm	2092,3 mm	2180,2 mm	2210,2 mm



## SERVER RACK DC DOOR OPTIONS

We produce 80% or 85% open metal perforated doors. Produced doors designed for providing optimum airflow to keep equipment cool and support hot/cold corridor system configurations in server rooms and data centers. Multiple options for front and rear doors are stated below.





# TECHNICAL SPECIFICATIONS

## PROTECTION INDEX

IP20 According to IEC 61587-1 :2016 / IEC 61587-2:2011 / IEC 61587-3:2013  
IEC 60529  
IP20

## MECHANICAL PERFORMAMANCE

EN 61587-1 5.2.1 / 5.2.3

- Static mechanical load test (Performance level SL 12)
- Stiffness test (Performance level ST5)
- Dynamic mechanical load test (Performance level DL4V)
- Resonance point detection test Duration of lthe test at each frequency was 10 minutes
- Vibration test (Sinus-IEC 60068-2-6:Fc; 2007)
- Shock test (IEC 60068-2-27:Ea; 1987) Performance level DL4S
- Impact test (IEC 60068-2-75:Eh; 2014) (Performance level IK07)
- Permissible load carrying capacity : 1500kg

## CLIMATIC TESTS (Performance level C2)

- Cold (IEC 60068-2-1 :2007;Ab ) Temperature of the exposure: -25°C +/-3°C
- Dry heat (IEC 60068-2-2 :2007;Bd) Temperature of the exposure: +70°C +/-2°C
- Damp heat cyclic (IEC 60068-2-30:2005;Db ; (cyclic 2x), variant 2)

## INDUSTRIAL ATMOSPHERE (Performance level A2)

- Salt mist test IEC 60068-2-11
- Salt Spray Test TS EN ISO 9227
- Sulphur dioxide test and hydrogen sulphide test (IEC 60068-2-42, IEC 60068-2-43 and IEC 60068-2-49)

## GROUNDING CONTINUITY

EN 61587-1 / EN 61010-1

- The continuity of the protection circuit is in accordance with the standard regulations.  
The measured resistance was less than 0.1 Ohm.

# STANDARDS

1. ISO9001-2008 Quality management system must be used in the production of 19" Rack cabinets
2. 19" Rack Cabinets must have a TSE Certificate IEC 61587-1 :2016, IEC 61587-2:2011, IEC 61587-3:2013
3. IEC60917 – IEC 60297 standards
  - CE According the IEC/ISO 17050 – EN 62208:2011 & EN 60335-1  
In addition, all of the main and auxiliary materials used in the manufacturing process must comply with the following standards SHEET METAL: TS EN ISO 9001:2008; TS EN 10130 :2006; DIN EN 1030- EQV; BS EN 1030-EQV; NF A36-401.
  - **ELECTROSTATIC POWDER PAINT:** ISO 9001:2015 ASTM D523; ASTM D2794; DIN EN ISO 2811-1; ASTM D1186/ D1400; Ral:9005 or Ral:7035.
  - **CONNECTION COMPONENTS** (screw, nut, washer etc.)" TS EN ISO 7045; TS EN ISO 4032; RoHS IEC 62321 "
  - **CASTER SET "** TS EN 12532 , TS EN 12533 , RoHS IEC 62321:2008"
  - **LOCKS SYSTEMS "**DIN-EN ISO 1043-1 PA6 GFR 30; DIN-EN 1774-ZnAl4Cu1.

# ELEGANT NET DC

## 19" Free Standing Rack Cabinet

### Elegant NET DC 19" Free Standing Rack Cabinet

**H: 42U / 45U / 47U W: 600 / 800 mm  
D: 1000 / 1100 / 1200 mm**

**Elegant Net DC** structure has a unique data center server chassis designed for heavy server and network systems, and compatible with 19" rack mount equipment from all global manufacturers including DELL, Compaq, HP and IBM.

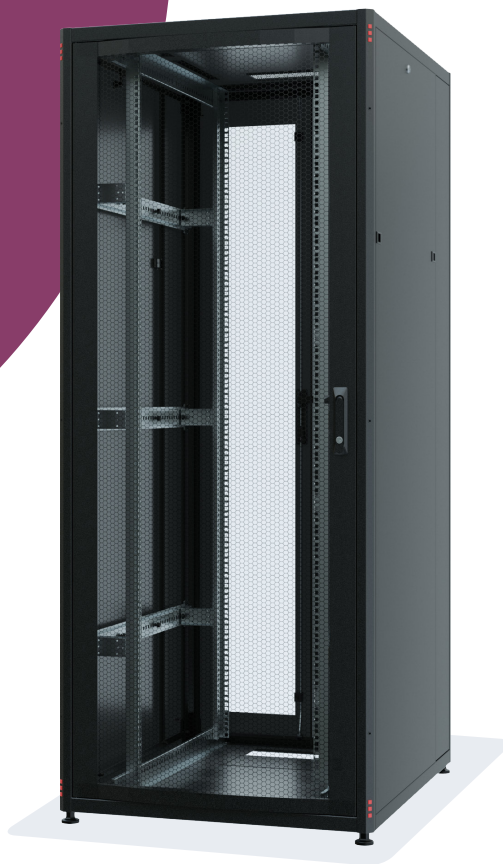
There are 3 different dimensions in between 42 U to 47 U available. Carrying capacity of the cabinet is 1500kg.

**Elegant Net DC** series cabinets are designed in a structure suitable for data center and hot/cold corridor uses.

**Elegant Net DC** cabinets provide Professional protection against all physical impacts and unauthorized intervention. The front and rear doors of the cabinet are manufactured with perforated for effective passive ventilation. Standard Elegant Net DC cabinets are produced with 85% curved perforated single front door and 85% perforated double rear doors.

Front and rear doors are produced with 3-point hinges. Side panels are designed with 2 horizontal lockable sections. This structure provides easy assembling besides easy disassembled transportation.

Ral9005 Black and Ral 7035 Light Gray paint options are available. Ral 9005 black paint is applied in our standard products.



### TOP AND BOTTOM CABLE ENTRIES

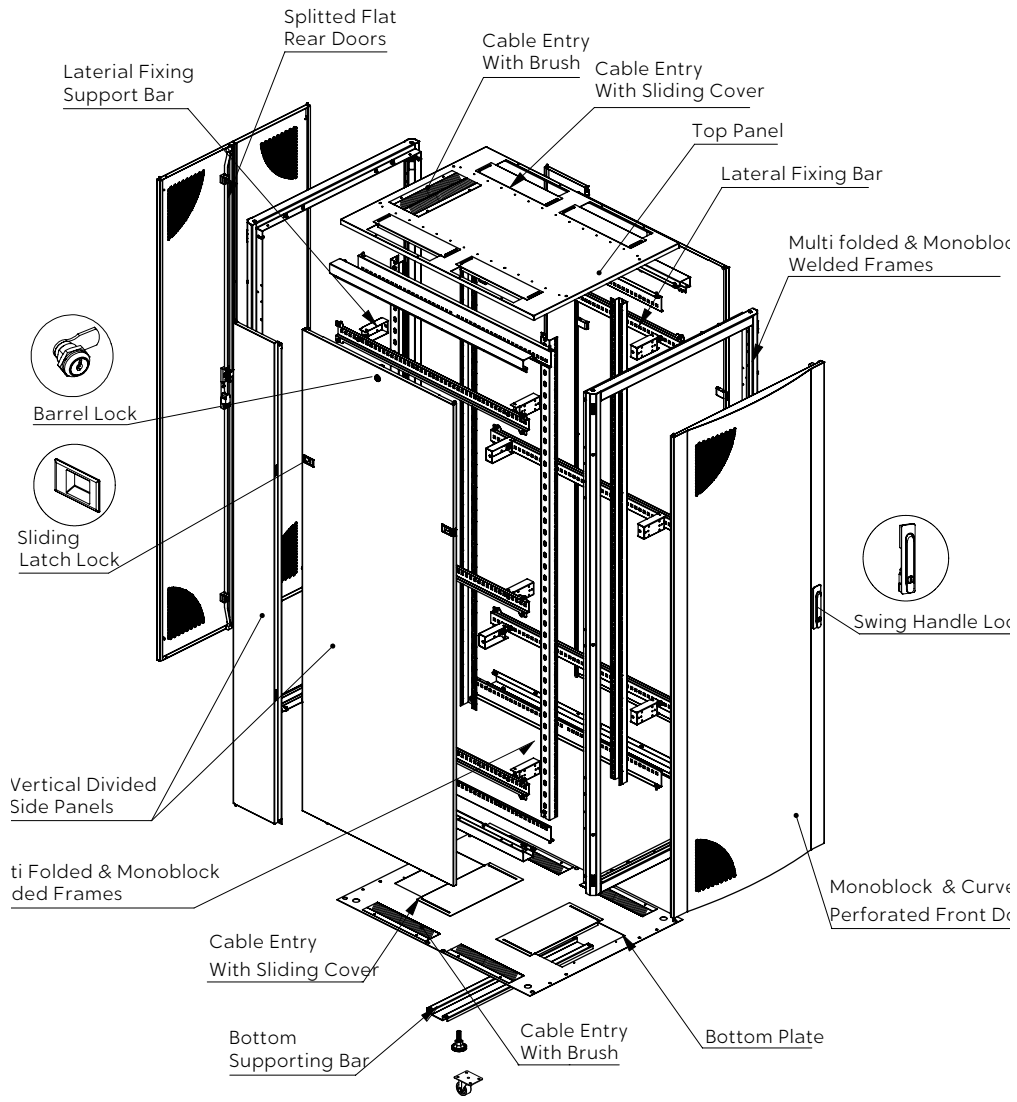
**Elegant Net DC** Cabinets with different cable entries provides high quality solutions.



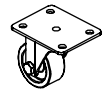
There are 4 brushed cable entries on the lower chassis, 2 on the right and 2 on the left. In addition, there are two cable entries with sliding cover on the front and back that allows dense cable bundles' easy installation.



There are 4 cable entries with sliding covers on the upper chassis, 2 on the right and 2 on the left and 2 on the opposite sides.



**Standard**  
Levelling Feet Set 1 = 4 pcs



**Optional**  
Castors Group 1 set: 4pcs lockable, Rotatable

## CONSTRUCTION DETAILS

Side panels are designed with 2 vertical lockable sections. Benefit of this structure is the panels are easily removable and portable for the installation. There are one "O" lock and 2 deadbolt locks on the doors that provide locking. It is quickly and easily joined to the main chassis with its claw-fit structure.



### 19" DEVICE VERTICAL RAILS

Cabinet includes 4 pieces of 19" device vertical rails with 2mm thickness which can be assembled any location within depth of the cabinet.

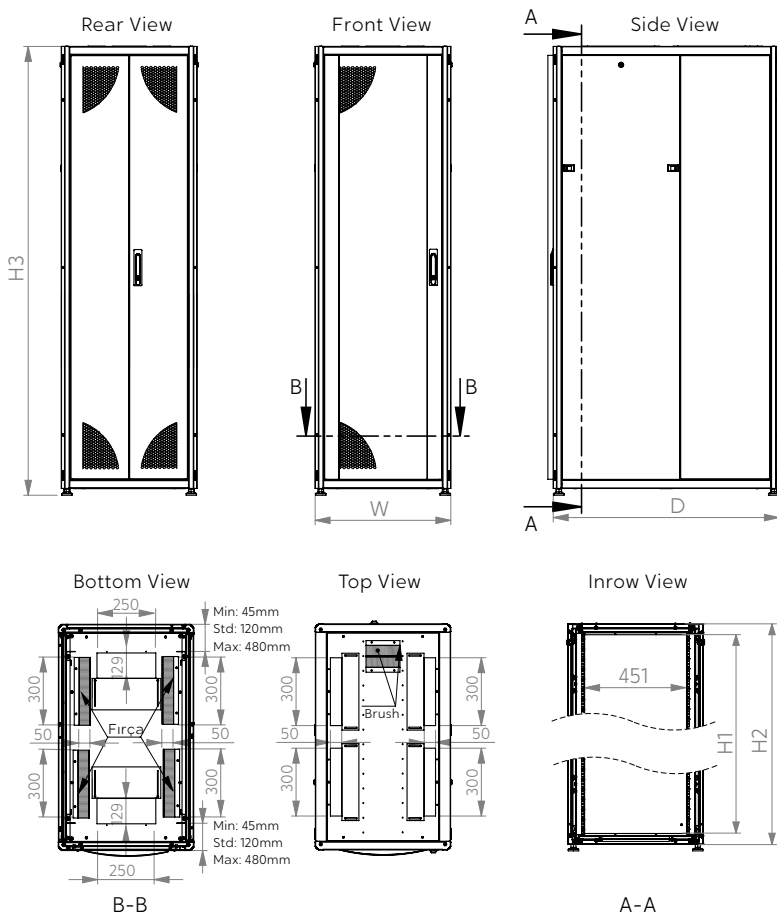


### HORIZONTAL SUPPORT UNIT

3 pieces of horizontal support units are used on the right and left sides of each cabinet in order to mount 19" device vertical rails and support the rigid structure of the cabinet. Support units are high strength and made of zinc plated to provide resistance against corrosion

# ELEGANT NET DC VIEW

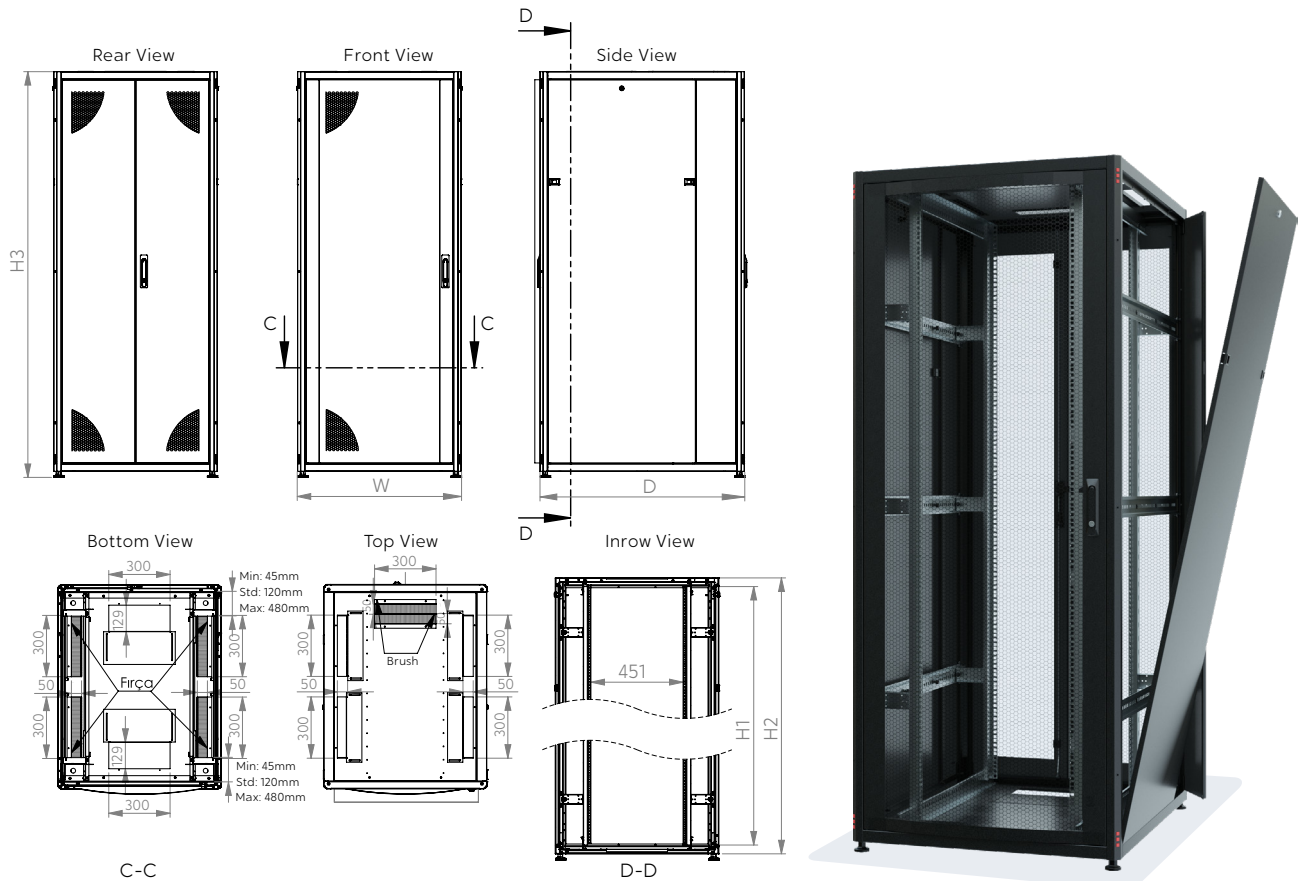
600 MM



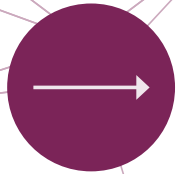
Product Code	Product Description	Width ( W )	Depth ( D )	Inner Height	Outer Height without Levelling Feet and Casters	Outer Height with Levelling Feet
ELGNDC42U6010CC341	Elegant NET DC 19" 42U	600 mm	1000 mm	1870,1 mm	1958 mm	1988 mm
ELGNDC45U6010CC341	Elegant NET DC 19" 45U	600 mm	1000 mm	2003,4 mm	2091,3 mm	2121,3 mm
ELGNDC47U6010CC341	Elegant NET DC 19" 47U	600 mm	1000 mm	2092,3 mm	2180,2 mm	2210,2 mm
ELGNDC42U6011CC341	Elegant NET DC 19" 42U	600 mm	1100 mm	1870,1 mm	1958 mm	1988 mm
ELGNDC45U6011C341	Elegant NET DC 19" 45U	600 mm	1100 mm	2003,4 mm	2091,3 mm	2121,3 mm
ELGNDC47U6011CC341	Elegant NET DC 19" 47U	600 mm	1100 mm	2092,3 mm	2180,2 mm	2210,2 mm
ELGNDC42U6012CC341	Elegant NET DC 19" 42U	600 mm	1200 mm	1870,1 mm	1958 mm	1988 mm
ELGNDC45U6012CC341	Elegant NET DC 19" 45U	600 mm	1200 mm	2003,4 mm	2091,3 mm	2121,3 mm
ELGNDC47U6012CC341	Elegant NET DC 19" 47U	600 mm	1200 mm	2092,3 mm	2180,2 mm	2210,2 mm

# ELEGANT NET DC VIEW

800 MM

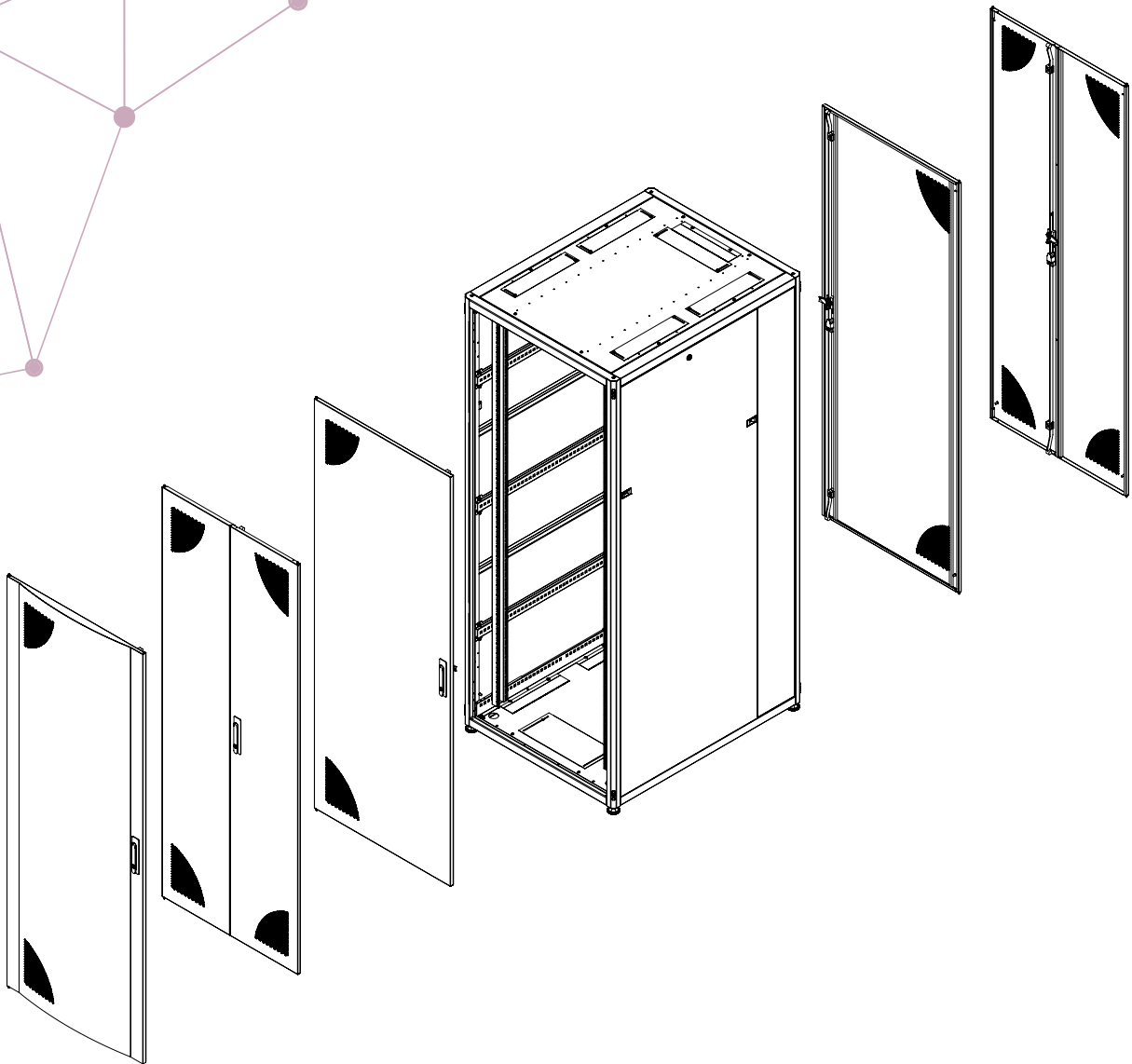


Product Code	Product Description	Width ( W )	Depth ( D )	Inner Height	Outer Height without Levelling Feet and Casters	Outer Height with Levelling Feet
ELGND42U8010CC341	Elegant NET DC 19" 42U	800 mm	1000 mm	1870,1 mm	1958 mm	1988 mm
ELGND45U8010CC341	Elegant NET DC 19" 45U	800 mm	1000 mm	2003,4 mm	2091,3 mm	2121,3 mm
ELGND47U8010CC341	Elegant NET DC 19" 47U	800 mm	1000 mm	2092,3 mm	2180,2 mm	2210,2 mm
ELGND42U8011CC341	Elegant NET DC 19" 42U	800 mm	1100 mm	1870,1 mm	1958 mm	1988 mm
ELGND45U8011CC341	Elegant NET DC 19" 45U	800 mm	1100 mm	2003,4 mm	2091,3 mm	2121,3 mm
ELGND47U8011CC341	Elegant NET DC 19" 47U	800 mm	1100 mm	2092,3 mm	2180,2 mm	2210,2 mm
ELGND42U8012CC341	Elegant NET DC 19" 42U	800 mm	1200 mm	1870,1 mm	1958 mm	1988 mm
ELGND45U8012CC341	Elegant NET DC 19" 45U	800 mm	1200 mm	2003,4 mm	2091,3 mm	2121,3 mm
ELGND47U8012CC341	Elegant NET DC 19" 47U	800 mm	1200 mm	2092,3 mm	2180,2 mm	2210,2 mm



## ELEGANT NET DC DOOR OPTIONS

We produce 80% or 85% open metal perforated doors. Produced doors designed for providing optimum airflow to keep equipment cool and support hot/cold corridor system configurations in server rooms and data centers. Multiple options for front and rear doors are stated below.



# TECHNICAL SPECIFICATIONS

## PROTECTION INDEX

IP20 According to IEC 61587-1:2016 / IEC 61587-2:2011 / IEC 61587-3:2013  
IEC 60529  
IP20

## MECHANICAL PERFORMAMANCE

EN 61587-1 5.2.1 / 5.2.3

- Static mechanical load test (Performance level SL 12)
- Stiffness test (Performance level ST5)
- Dynamic mechanical load test (Performance level DL4V)
- Resonance point detection test Duration of the test at each frequency was 10 minutes
- Vibration test (Sinus-IEC 60068-2-6:Fc; 2007)
- Shock test (IEC 60068-2-27:Ea; 1987) Performance level DL4S
- Impact test (IEC 60068-2-75:Eh; 2014) (Performance level IK07)
- Permissible load carrying capacity : 1500kg

## CLIMATIC TESTS (Performance level C2)

- Cold (IEC 60068-2-1:2007;Ab ) Temperature of the exposure:-25°C +/-3°C
- Dry heat (IEC 60068-2-2:2007;Bd) Temperature of the exposure: +70°C +/-2°C
- Damp heat cyclic (IEC 60068-2-30:2005;Db ; (cyclic 2x), variant 2)

## INDUSTRIAL ATMOSPHERE (Performance level A2)

- Salt mist test IEC 60068-2-11
- Salt Spray Test TS EN ISO 9227
- Sulphur dioxide test and hydrogen sulphide test (IEC 60068-2-42, IEC 60068-2-43 and IEC 60068-2-49)

## GROUNDING CONTINUITY

EN 61587-1 / EN 61010-1

- The continuity of the protection circuit is in accordance with the standard regulations.  
The measured resistance was less than 0.1 Ohm.

# STANDARDS

1. ISO9001-2008 Quality management system must be used in the production of 19" Rack cabinets
2. 19" Rack Cabinets must have a TSE Certificate IEC 61587-1:2016, IEC 61587-2:2011, IEC 61587-3:2013
3. IEC60917 – IEC 60297 standards
  - CE According the IEC/ISO 17050 – EN 62208:2011 & EN 60335-1  
In addition, all of the main and auxiliary materials used in the manufacturing process must comply with the following standards SHEET METAL: TS EN ISO 9001:2008; TS EN 10130 :2006; DIN EN 1030- EQV; BS EN 1030-EQV; NF A36-401.
  - **ELECTROSTATIC POWDER PAINT:** ISO 9001:2015 ASTM D523; ASTM D2794; DIN EN ISO 2811-1; ASTM D1186/ D1400; Ral:9005 or Ral:7035.
  - **CONNECTION COMPONENTS** (screw, nut, washer etc.)" TS EN ISO 7045; TS EN ISO 4032; RoHS IEC 62321 "
  - **CASTER SET "** TS EN 12532 , TS EN 12533 , RoHS IEC 62321:2008"
  - **LOCKS SYSTEMS "**DIN-EN ISO 1043-1 PA6 GFR 30; DIN-EN 1774-ZnAl4Cu1.



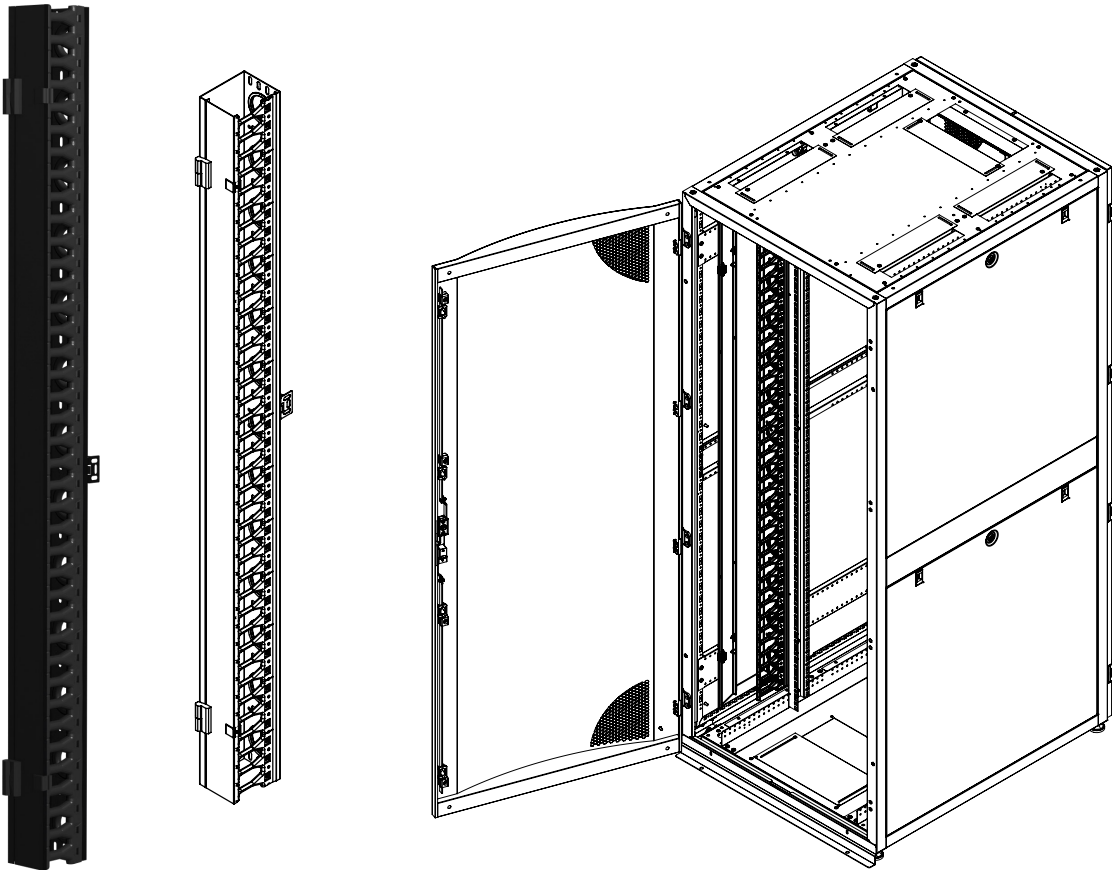


# **CABINET ACCESSORIES**



# VERTICAL ORGANIZER

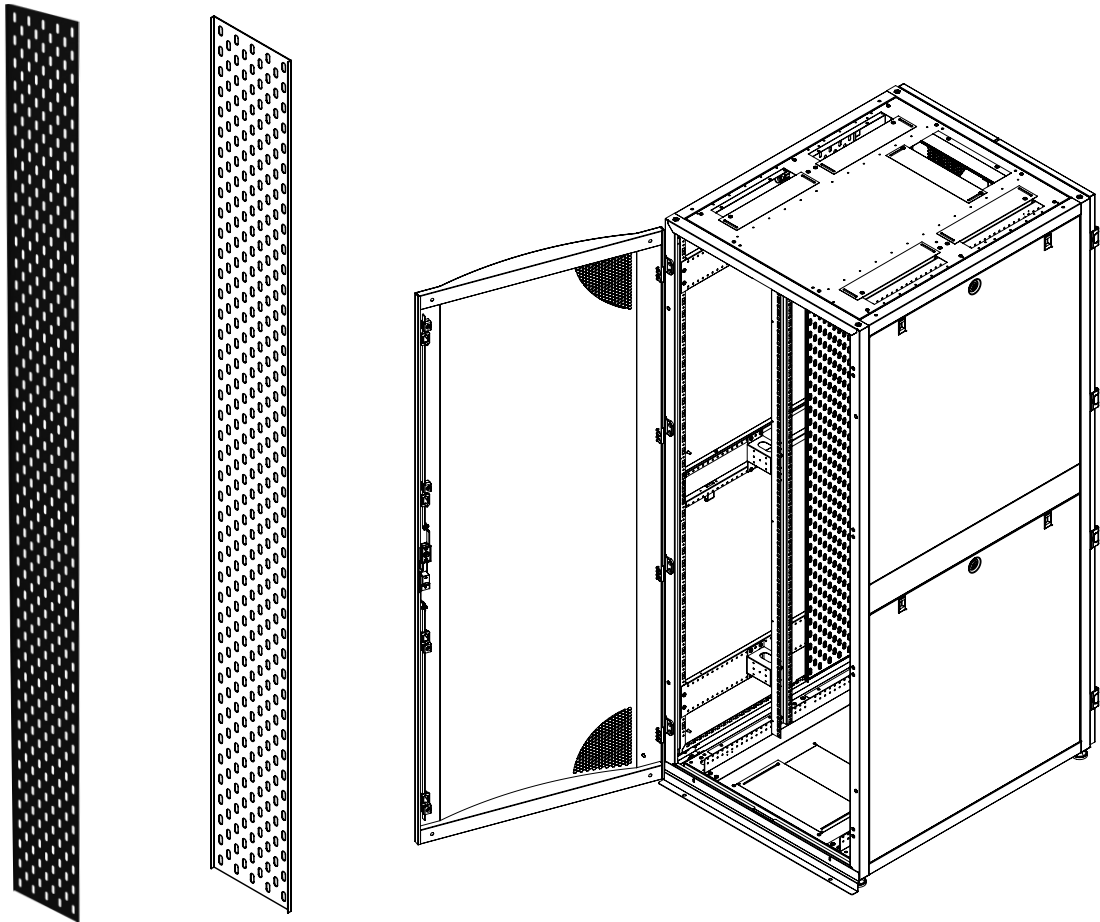
Vertical organizers are designed as two pieces on the right and left at the front of the data center cabinets (W=800mm). Due to the plastic finger type modules, accessory allows cables to be organized without causing any damage.



ACCESSORIES	PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
W600	PADCFORG42V105R1W60CC	600 mm	42u Vertical Finger Type Organizer 105 mm 1 Row 1set=2pcs
W600	PADCFORG45V105R1W60CC	600 mm	45u Vertical Finger Type Organizer 105 mm 1 Row 1set=2pcs
W600	PADCFORG47V105R1W60CC	600 mm	47u Vertical Finger Type Organizer 105 mm 1 Row 1set=2pcs
W800	PACCFORG42V105R1	800 mm	42u Vertical Finger Type Organizer 105 mm 1 Row 1set=2pcs
W800	PACCFORG45V105R1	800 mm	45u Vertical Finger Type Organizer 105 mm 1 Row 1set=2pcs
W800	PACCFORG47V105R1	800 mm	47u Vertical Finger Type Organizer 105 mm 1 Row 1set=2pcs

# CABLE TRAY

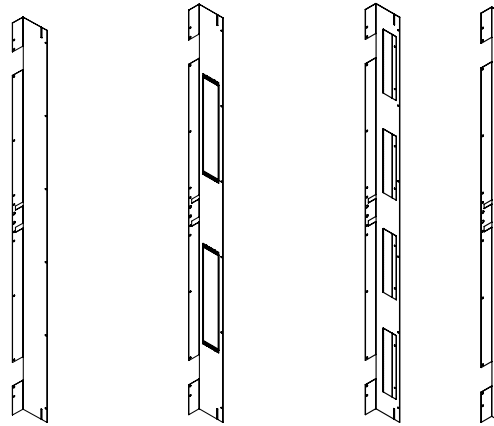
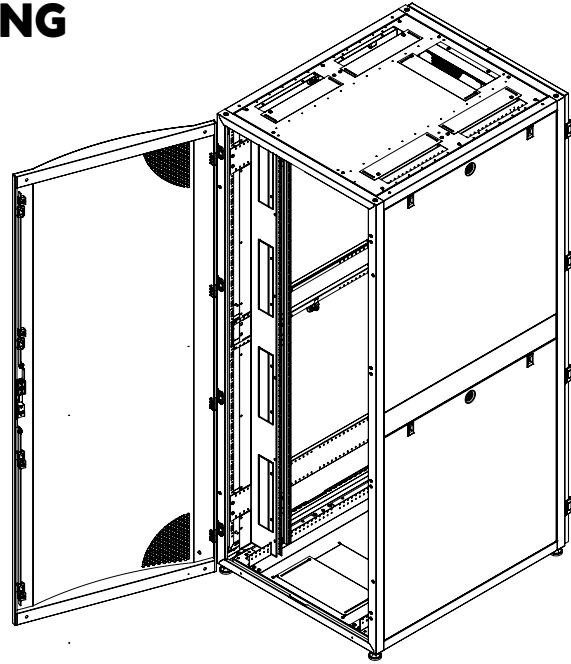
Cable trays are designed to fix the cables used in the cabinets or mount PDUs. Due to its different width alternatives, design provides any cable arrangements for needs.



ACCESSORIES	PRODUCT CODE	PRODUCT DESCRIPTION
GENERAL	PACCDKD42UW10T15	42u W=100 mm Vertical Cable Tray 1.5 mm Thickness
GENERAL	PACCDKD45UW10T15	45u W=100 mm Vertical Cable Tray 1.5 mm Thickness
GENERAL	PACCDKD47UW10T15	47u W=100 mm Vertical Cable Tray 1.5 mm Thickness
GENERAL	PACCDKD42UW20T15	42u W=200 mm Vertical Cable Tray 1.5 mm Thickness
GENERAL	PACCDKD45UW20T15	45u W=200 mm Vertical Cable Tray 1.5 mm Thickness
GENERAL	PACCDKD47UW20T15	47u W=200 mm Vertical Cable Tray 1.5 mm Thickness

# SERVER RACK DC AIR BLOCKING PANELS

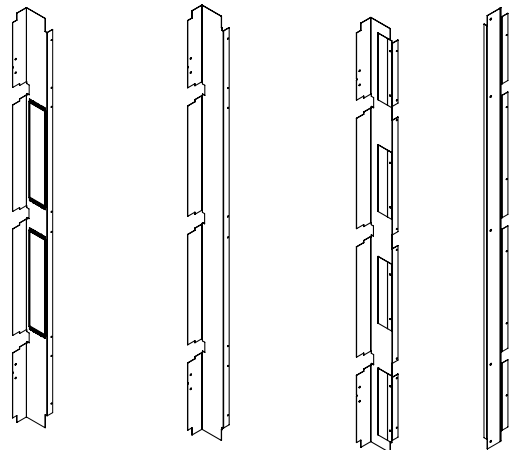
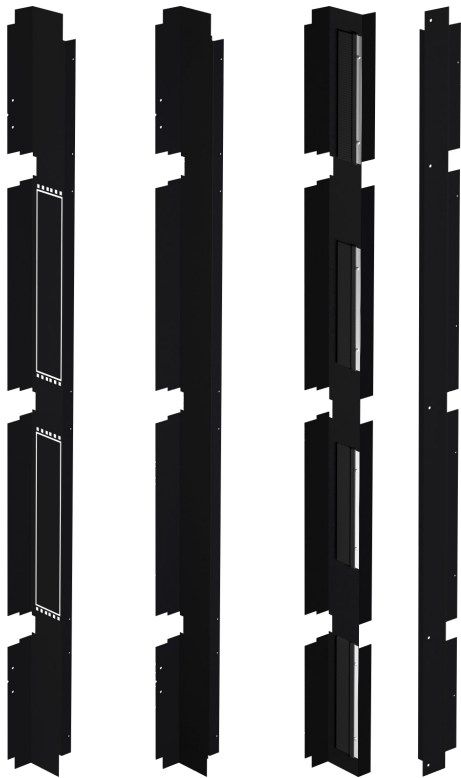
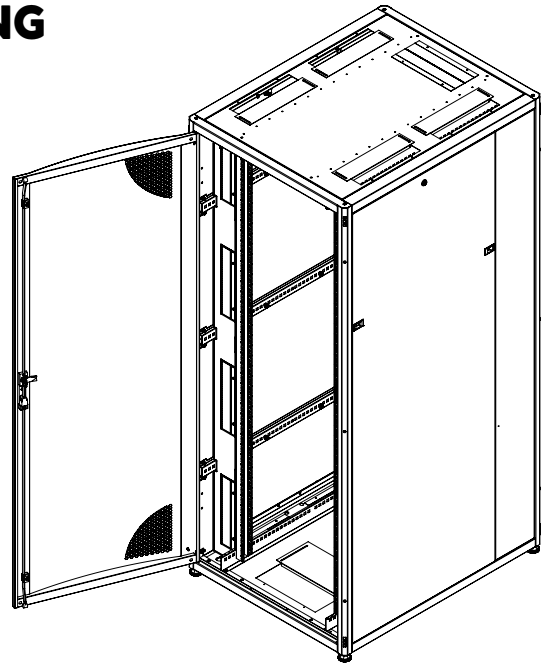
Air blocking panels are designed to prevent undesirable air flow in the cabinet. Due to its brushed and blasted cable entries, allowing cable transitions from front to back.



PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
PADC42UABPW60CC	600 mm	Solid Air Blocking 42U Panel, for Sides of 19" rails for-1set=2pcs
PADC45UABPW60CC	600 mm	Solid Air Blocking 45U Panel, for Sides of 19" rails for-1set=2pcs
PADC47UABPW60CC	600 mm	Solid Air Blocking 47U Panel, for Sides of 19" rails for-1set=2pcs
PADC42UABPW80CC	800 mm	Solid Air Blocking 42U Panel, for Sides of 19" rails for-1set=2pcs
PADC45UABPW80CC	800 mm	Solid Air Blocking 45U Panel, for Sides of 19" rails for-1set=2pcs
PADC47UABPW80CC	800 mm	Solid Air Blocking 47U Panel, for Sides of 19" rails for-1set=2pcs
PADC42UABPCECC	800 mm	42U Air Blocking Panel-2x2U 19" Cable Entry- 1set=2pcs
PADC45UABPCECC	800 mm	45U Air Blocking Panel-2x2U 19" Cable Entry- 1set=2pcs
PADC47UABPCECC	800 mm	47U Air Blocking Panel-2x2U 19" Cable Entry- 1set=2pcs
PADC42UABPWBC	800 mm	42U Air Blocking Panel-4x300 With Brush-1set=2pcs
PADC45UABPWBC	800 mm	45U Air Blocking Panel-4x300 With Brush-1set=2pcs
PADC47UABPWBC	800 mm	47U Air Blocking Panel-4x300 With Brush-1set=2pcs

# ELEGANT NET DC AIR BLOCKING PANELS

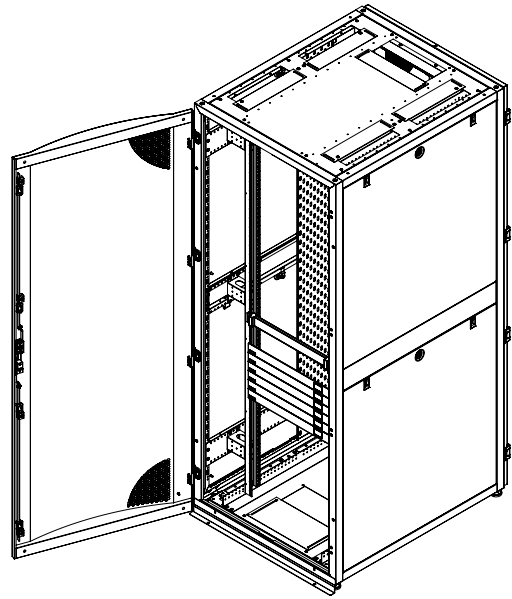
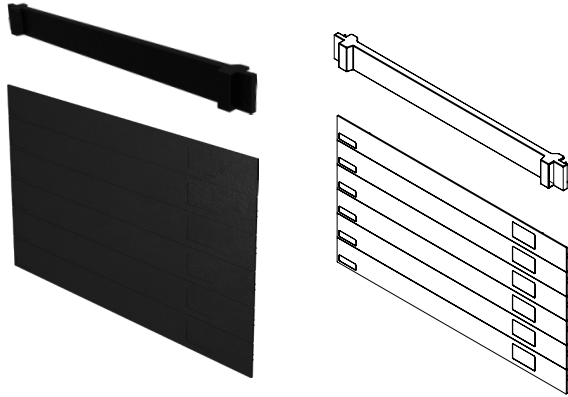
Air blocking panels are designed to prevent undesirable air flow in the cabinet. Due to its brushed and blasted cable entries, allowing cable transitions from front to back.



PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
PAELGND42UABPW60CC	600 mm	Solid Air Blocking 42U Panel, for Sides of 19" rails for-1set=2pcs
PAELGND45UABPW60CC	600 mm	Solid Air Blocking 45U Panel, for Sides of 19" rails for-1set=2pcs
PAELGND47UABPW60CC	600 mm	Solid Air Blocking 47U Panel, for Sides of 19" rails for-1set=2pcs
PAELGND42UABPW80CC	800 mm	Solid Air Blocking 42U Panel, for Sides of 19" rails for-1set=2pcs
PAELGND45UABPW80CC	800 mm	Solid Air Blocking 45U Panel, for Sides of 19" rails for-1set=2pcs
PAELGND47UABPW80CC	800 mm	Solid Air Blocking 47U Panel, for Sides of 19" rails for-1set=2pcs
PAELGND42UABPCECC	800 mm	42U Air Blocking Panel-2x2U 19" Cable Entry- 1set=2pcs
PAELGND45UABPCECC	800 mm	45U Air Blocking Panel-2x2U 19" Cable Entry- 1set=2pcs
PAELGND47UABPCECC	800 mm	47U Air Blocking Panel-2x2U 19" Cable Entry- 1set=2pcs
PAELGND42UABPWBC	800 mm	42U Air Blocking Panel-4x300 With Brush-1set=2pcs
PAELGND45UABPWBC	800 mm	45U Air Blocking Panel-4x300 With Brush-1set=2pcs
PAELGND47UABPWBC	800 mm	47U Air Blocking Panel-4x300 With Brush-1set=2pcs

## PLASTIC BLANK PANELS

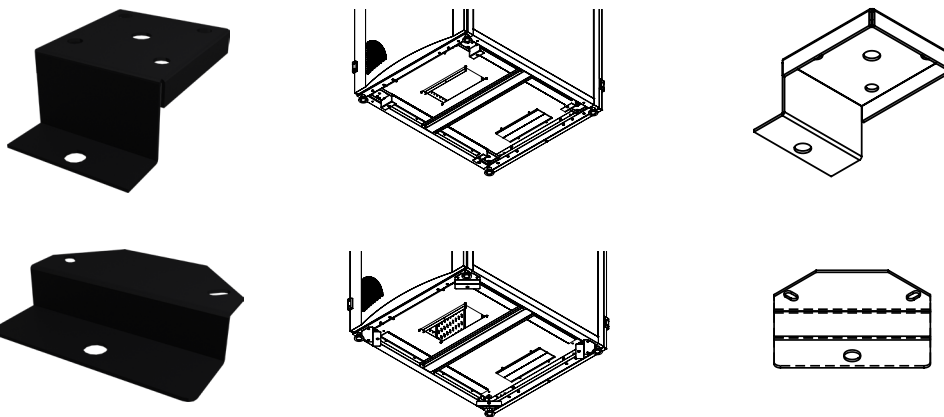
Plastic blank panels designed to prevent undesirable air flow inside the cabinet. Due to its plastic and modular structure, providing easy assembly.



ACCESSORIES	PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
General	PACCRKKPA01	600 mm	1U 19' Plastic Blank Panel- Toolless
General	PACCRKKPAP06	600 mm	6U 19' Plastic Blank Panel

## FLOOR CONNECTION KITS

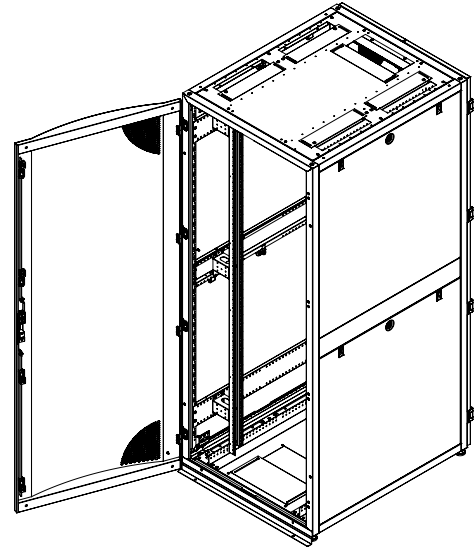
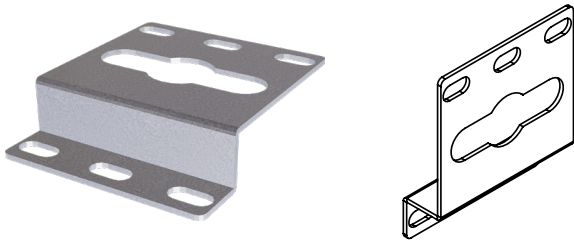
Floor connection kits are designed to attach levelling feet to the cabinet. Due to its reinforced structure, kits provide high load carrying capacity.



ACCESSORIES	PRODUCT CODE	PRODUCT DESCRIPTION
General	PAELGNDCKFFKWPC	Elegant DC Ground Connection Kit for Levelling Feet
General	PADCKFFKWPC	Floor Fixing Kit 1set=4pcs, Use Together With Levelling Feet

## "0" U PDU HOLDER

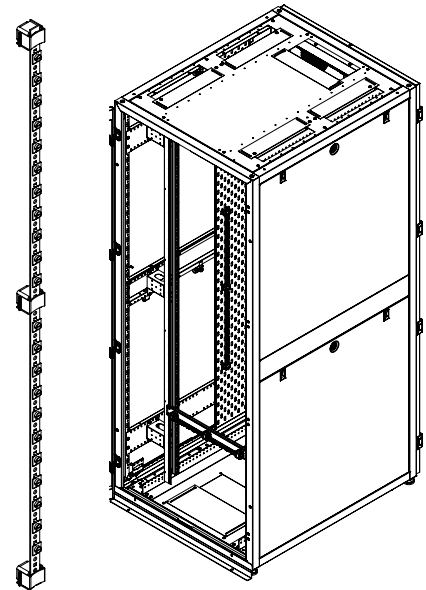
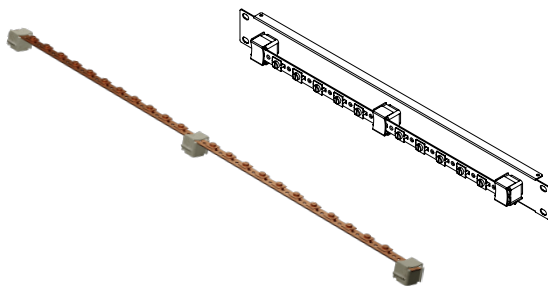
0U PDU holders are designed to mount vertical PDU's inside the cabinet. Due to its universal structure, accessory allows the PDU to be mounted desired location in the cabinet.



ACCESSORIES	PRODUCT CODE	PRODUCT DESCRIPTION
General	PACCPDUHLDW1U	0 U Pdu Holder For Fixing On Vertical Cable Tray 1set=2pcs

## GROUNDING KIT

Grounding kit is designed to provide grounding of the devices mounted in the cabinet. Due to its vertical and horizontal options, accessories provide a variety of usage.



ACCESSORIES	PRODUCT CODE	PRODUCT DESCRIPTION
General	PA00TPKV01	Grounding kit 22pcs.earthing leads+copper busbar (2 pc 22x2=44 Busbar )
General	PA00TPK01	Grounding kit 6ea.earthing leads+copper busbar
General	PA00TPK02	Grounding Kit, 1set=4pcs Grounding Cable (6mm) and 2 Pieces of Grounding Busbar with Insulator (6 connections)
General	PA00TPK03BL	1U 19" Grounding Kit, 1 Set=4 pcs Grounding Cable and 3pcs Grounding Busbar with Insulator (10 connections) 2,5 mm cable
General	PA00TPK04	Grounding Kit, 1 Set=4pcs Grounding Cable and 2 pcs Grounding Bushbar with Instulator (8 connections) (300mm)







# **CLOSED CORRIDOR TYPES AND TECHNICS**

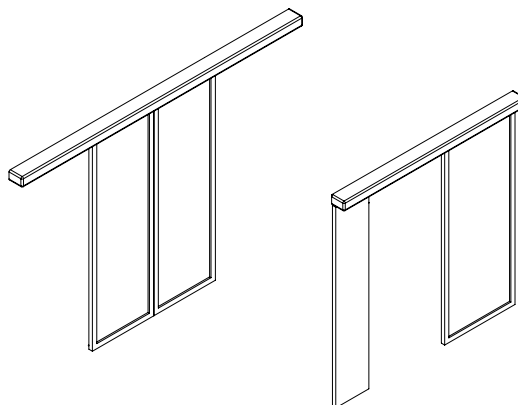
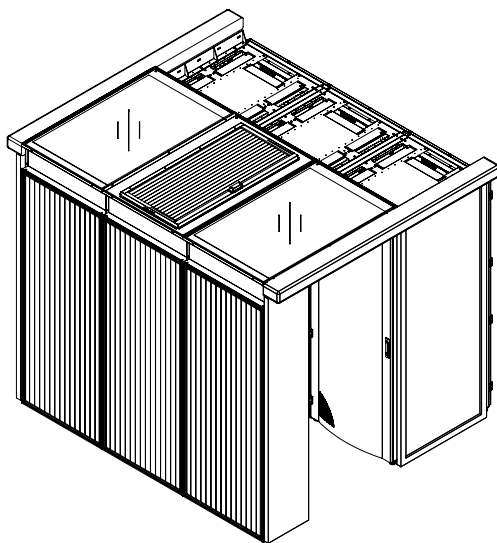
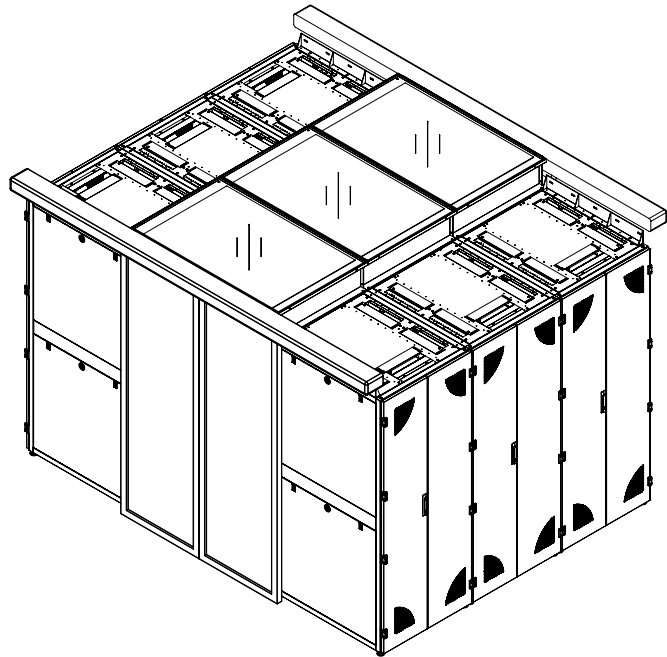


# CLOSED CORRIDOR TYPES



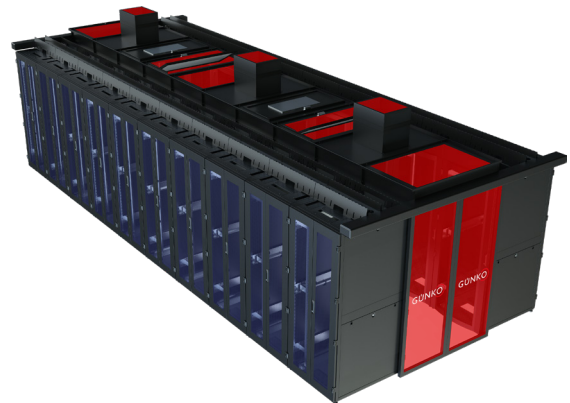
## According to the number of the rows 'Double' and 'Single' Row Corridor;

According to the dimensions of room or area which the **Modular Data Center** will be installed and the number of the cabinet needed, 'Double Row' or 'Single Row' corridor can be preferred. To place 'Double Row' for a room with a width of less than 5 meters (500 cm), 'Single Row' for a room with a width of less 3 meters (300 cm) is quite not possible. The number of the cabinets in closed corridor can be increased according to the depth of the room. It is the capacity and method of the cooling system solution that limits the number of cabinets. Single Row is suggested in case of the number of the required cabinet is 10pcs and less.



# CLOSED CORRIDOR TYPES AND TECHNICS

The structure of the closed corridor is formed according to the cooling/air condition needs and solution of the data center. All kinds of the air conditioning solution is prepared according to the theory "cold air goes down, hot air raises". The purpose of Data Centers is to cool the information technology and communication devices in such a way that remain within their operating values and to dispose of the waste heat of devices.



The types of the closed corridor are determined by considering the direction of movement of the cold and hot air.

## According to the cold air intake (Direction of air supply);

1. From under the Raised Floor to Closed Corridor with the Outlet,
2. From under the Raised Floor to Hall with the Outlet
3. From the Air Conditioner Device or Wall to the Hall
4. From the Suspending Ceiling to Closed Corridor with the Hood,
5. From the Ceiling to Closed Corridor with the Duct
6. From the Inrow Air Conditioner to Closed Corridor
7. From the Inrow Air Conditioner to Hall.

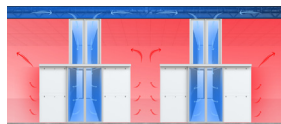
## According to the Hot Air Discharging (Direction of suction);

1. From the Hall to the Air Conditioner Device or Wall
2. From the Closed Corridor to Suspending Ceiling with the Hood,
3. From the Closed Corridor to the Ceiling Duct
4. From the Hall to the Inrow Air Conditioner
5. From the Closed Corridor to the Inrow Air Conditioner.

## Closed Cold Corridor Technics



KK-11



KK-41

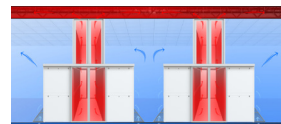


KK-51

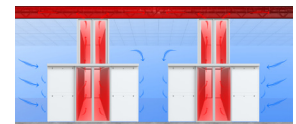


KK-64

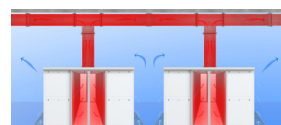
## Closed Hot Corridor Technics



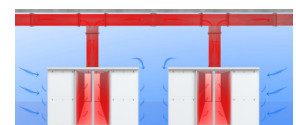
KK-22



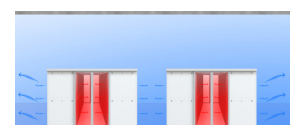
KK-32



KK-23



KK-33



KK-75

(Cold Air has been indicated with the color Blue, Hot air with the color Red.)

# THE CORRIDOR ROOF COVER PLATES

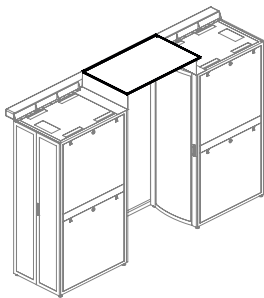
In order to create a Modular Closed Corridor, it is required to close the between cabinets or the front of the cabinet row with the Roof Cover Plates. The wideness of Roof Cover Plates are the same with the cabinets that they are on (800, 600 and 300mm); the lengthiness of them can be as much as with the corridors (1000, 1100, 1200mm). The body of the plates are manufactured with the same material and color of the cabinets.

According to the place of use and needs, the cover plates are metal sheet, tempered glass (transparent), plexiglass (transparent), corrugated polycarbonate (transparent), with led lighting armature, with air duct and hood.

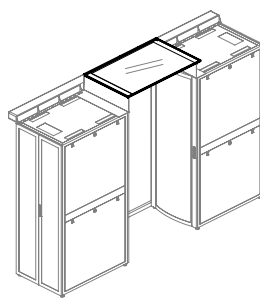
The transparent plates provide the light to enter the corridor, plates with led lighting armature provide more powerful lighting to the corridor, metal sheets plates provide the materials such as cameras/sensors to be placed over the corridor, hood plates provide the ventilation in the corridor.

In order to extinguishing gas to enter the corridor easily in case of fire, some of the roof cover plates must be openable/movable. Therefore a magnetic movement mechanism can be added to the tempered glass, plexiglas, corrugated polycarbonate and led armature panels.

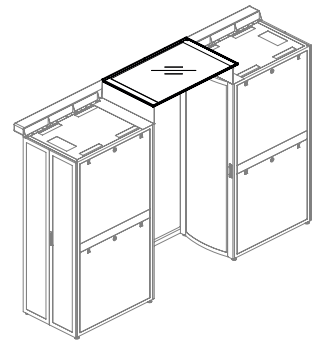
## THE VIEW OF THE ROOF COVER PLATES



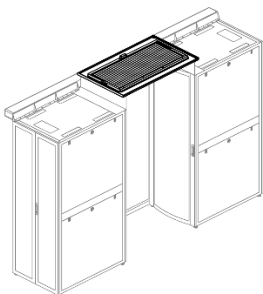
Metal Sheet Plate



Tempered Glass Plate



Plexiglass Plate



Corrugated Polycarbonate Plate

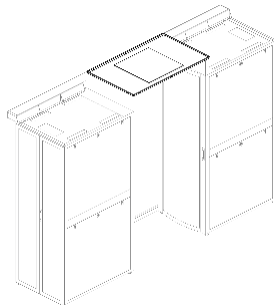


Plate with led lighting armature

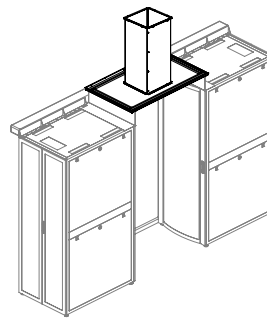
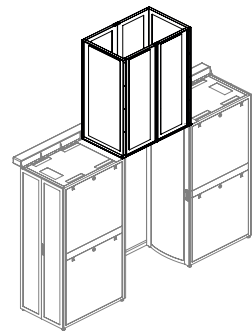
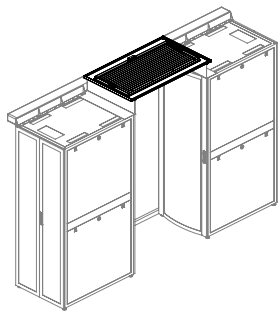


Plate with air duct and hood

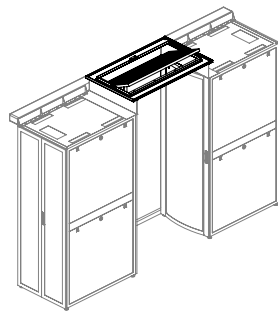


Hood Plate

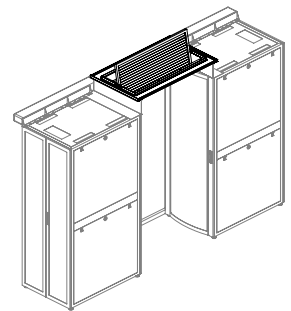
## THE MODE OF OPERATION OF OPENABLE/MOVABLE PLATES



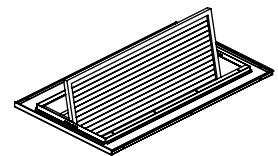
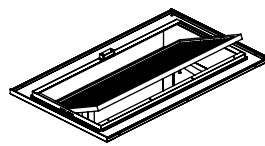
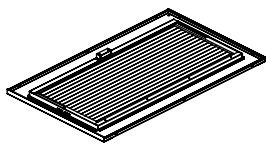
Closed



In Motion



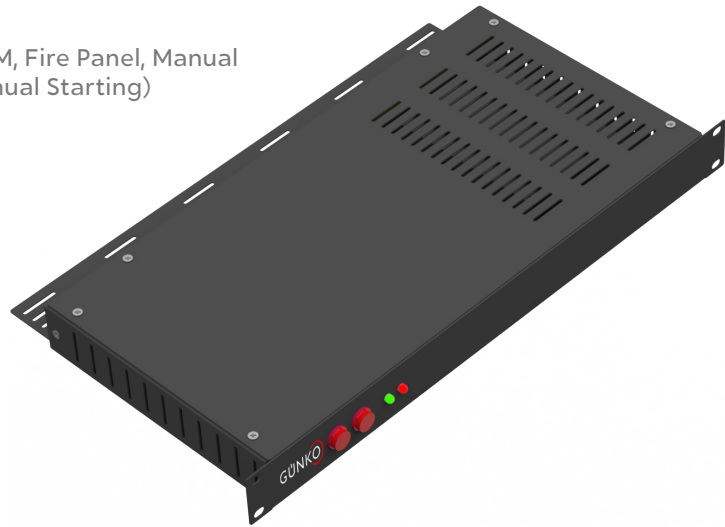
Open



ACCESSORIES	PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
W600	PADCRCPCL6012CC	600x1200 mm	Closed Metal
W600	PADCRCPPC6012CC	600x1200 mm	Transparent Polycarbonate With Metal Frame
W600	PADCRCPLG6012CC	600x1200 mm	Led Lighting With Metal Frame
W600	PADCRCPALSP6012CC	600x1200 mm	Aluminum Frame, Corrugated Polycarbonate
W600	PADCRCPHALLG6012CC	600x1200 mm	Moveable, Led Illuminated
W600	PADCRCPHALSP6012CC	600x1200 mm	Moveable, Aluminum Frame, Corrugated Polycarbonate
W600	PADCRCPCMN6012HXXCC	600x1200 mm	Vented
W600	PADCASWPW60HXXCC	600x1200 mm	Dummy Panel, Polycarbonate With Aluminum Frame
W800	PADCRCPCL8012CC	800x1200 mm	Closed Metal
W800	PADCRCPPC8012CC	800x1200 mm	Transparent Polycarbonate With Metal Frame
W800	PADCRCPLG8012CC	800x1200 mm	Led Lighting With Metal Frame
W800	PADCRCPALSP8012CC	800x1200 mm	Aluminum Frame, Corrugated Polycarbonate
W800	PADCRCPHALLG8012CC	800x1200 mm	Moveable, Led Illuminated
W800	PADCRCPHALSP8012CC	800x1200 mm	Moveable, Aluminum Frame, Corrugated Polycarbonate
W800	PADCRCPCMN8012HXXCC	800x1200 mm	Vented
W800	PADCASWPW80HXXCC	800x1200 mm	Solid Polycarbonate With Aluminum Frame

# PANEL CONTROL UNIT

Energy 230 V AC 3 x Dry Contact Inputs (DCIM, Fire Panel, Manual Starting) 1 pcs Emergency Button Input (Manual Starting)  
 1 pcs Test Button  
 1 pcs Reset Button  
 Audible and light warning system

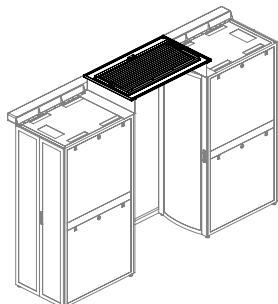
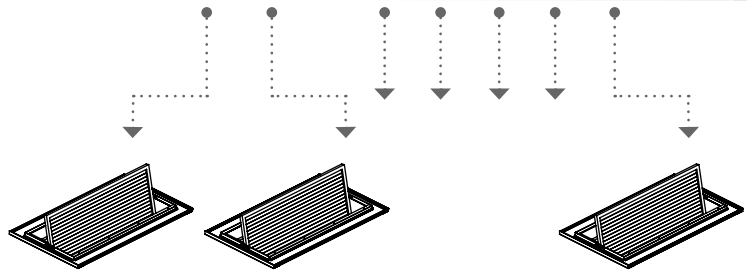
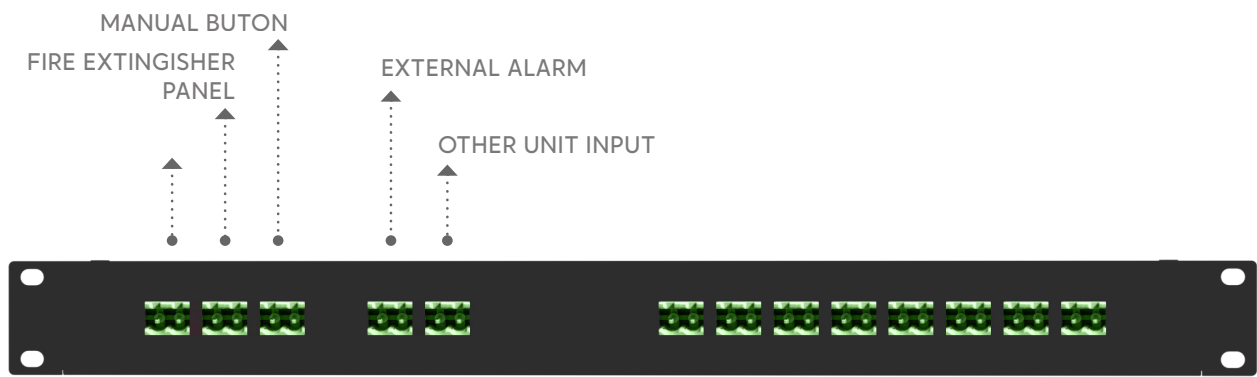


The control unit can manage movable roof cover plates up to 8 pcs by getting information from extinguishing system or (DCIM) data center management software the with using the dry contact input and the cover plates makes a 90c half-turn with their weight. When the energy of the magnets is cut, it provides to be intervened to cold corridor from the fire extinguishing nozzle. There is a voiced and lightened alert legend on the CPU 800 module which indicates the panels are in open position. The opened position of the panels can be transmitted to an external siren or lightened alert device or any monitoring module with dry contact. After the top panels are opened and the dangerous situation is removed, the panels can be closed position by using the reset button on the PCU800 module.

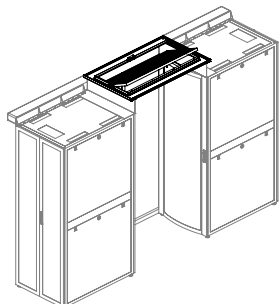
ACCESSORIES	PRODUCT CODE	PRODUCT DESCRIPTION
PCU800	PADCRCPHTKKPCC	Moveable Ceiling Panel Control Unit

PCU800 module can be used by issue a single- point command with serial connection for more than 8 movable panels at the large data center halls.

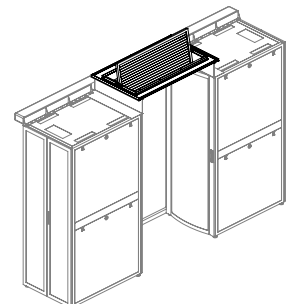




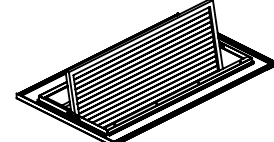
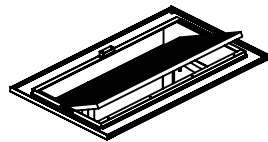
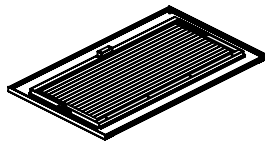
Closed



In motion



Open

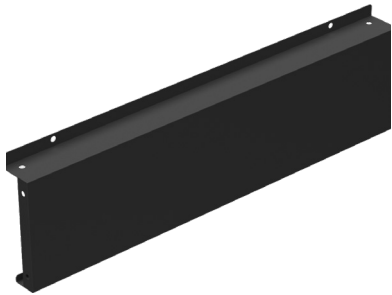




## FRONT HEADER PLATE

In order to create a Modular Closed Corridor, it is required that to close between the cabinets or the front of the cabinet row with roof cover plates.

In order to place corridor closing panels, some special panels named front header panels are placed on top of the front doors. Front header panels can keep cabinet information along with the carrying to the corridor closing panels.



Front Header Plate



Front Header Plate with Logo

The widths of the front header panels can be in size of the cabinets on which they are located 800mm, 600mm and 300mm; and heights can vary as 150mm, 200mm and 300mm depending on the place of use and need. Front header panels are produced with the same material and the same color with the cabinets and lighting, logo and LED illuminated logo can be placed according to the customers' needs.



Front Header Plate, Logo with Lightning

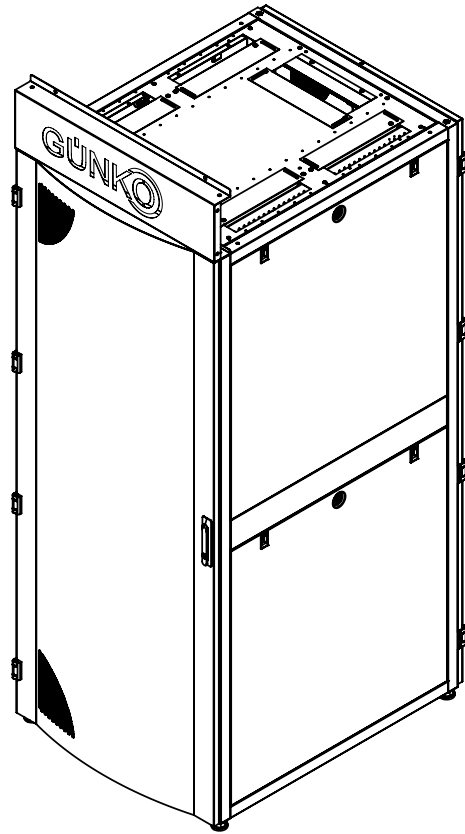
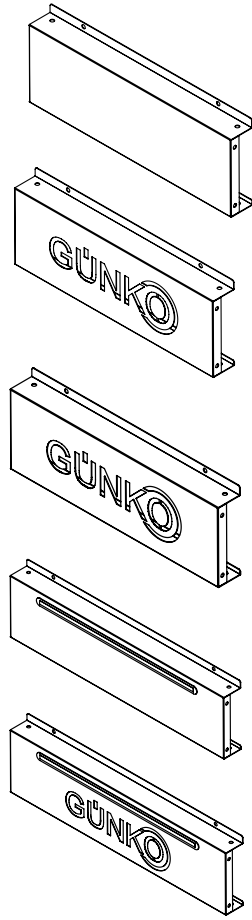


Front Header Plate with Lightning with Lightning



Front Header Plate, Logo and Lightning Lightning with Lightning

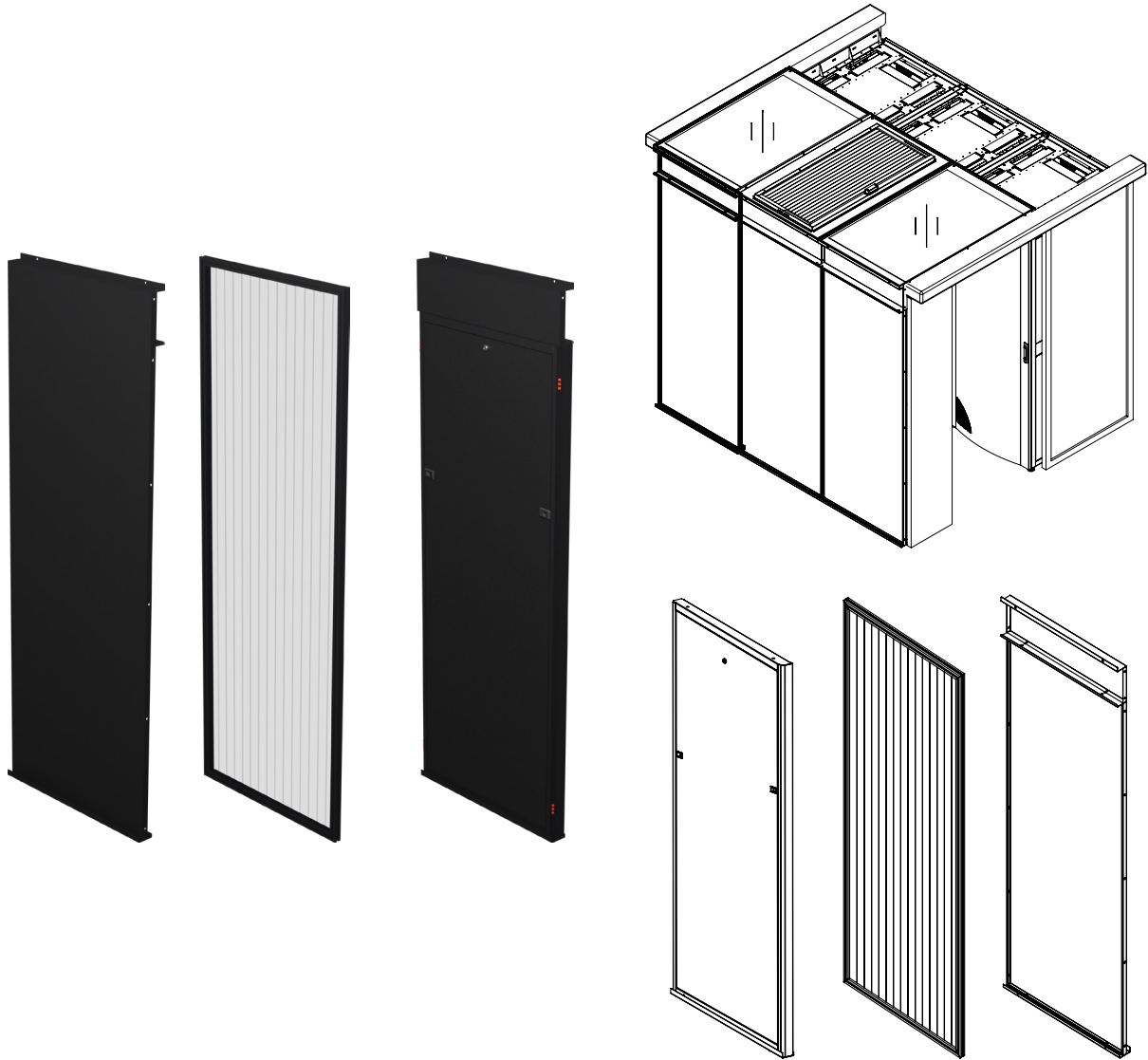




ACCESSORIES	PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
W600	PADCHPW60H20LGXXXCC	600x200 mm	Front Header Plate, Logo With Lightning
W600	PADCHPW60H30LGXXXCC	600x300 mm	Front Header Plate, Logo With Lightning
W600	PADCHPW60H20CC	600x200 mm	Front Header Plate
W600	PADCHPW60H30CC	600x300 mm	Front Header Plate
W800	PADCHPW80H20LGXXXCC	800x200 mm	Front Header Plate, Logo With Lightning
W800	PADCHPW80H30LGXXXCC	800x300 mm	Front Header Plate, Logo With Lightning
W800	PADCHPW80H20CC	800x200 mm	Front Header Plate
W800	PADCHPW80H30CC	800x300 mm	Front Header Plate
W600	PADCHPW60H20LGCC	600x200 mm	Front Header Plate With Lightning
W600	PADCHPW60H30LGCC	600x300 mm	Front Header Plate With Lightning
W600	PADCHPW60H20XXXCC	600x200 mm	Front Header Plate With Logo
W600	PADCHPW60H30XXXCC	600x300 mm	Front Header Plate With Logo
W600	PADCHPW60H20LLXXXCC	600x200 mm	Front Header Plate, Logo With Lightning
W600	PADCHPW60H30LLXXXCC	600x300 mm	Front Header Plate, Logo With Lightning
W800	PADCHPW80H20LGCC	800x200 mm	Front Header Plate With Lightning
W800	PADCHPW80H30LGCC	800x300 mm	Front Header Plate With Lightning
W800	PADCHPW80H20XXXCC	800x200 mm	Front Header Plate With Logo
W800	PADCHPW80H30XXXCC	800x300 mm	Front Header Plate With Logo
W800	PADCHPW80H20LLXXXCC	800x200 mm	Front Header Plate, Logo With Lightning
W800	PADCHPW80H30LLXXXCC	800x300 mm	Front Header Plate, Logo With Lightning

# DUMMY PANELS

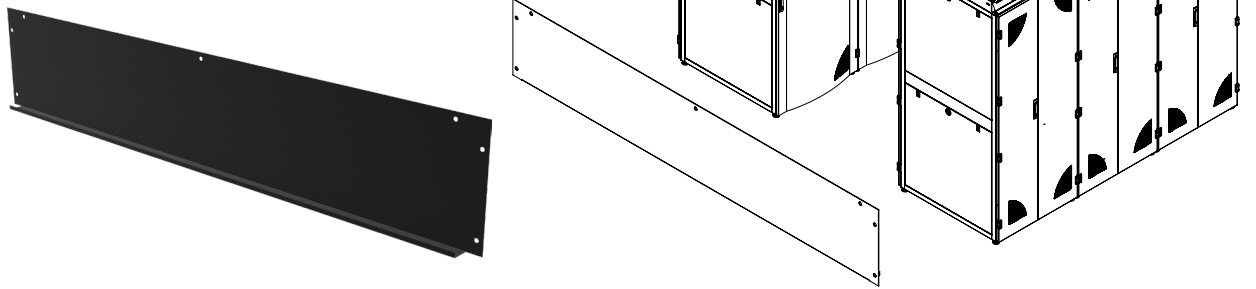
Dummy panels are produced to assist in the creation of hot/cold corridors in central aisle solutions. Panels can be used in the opposite side of the single row cabinets or closing the gaps in the corridor system. Different designs that dummy panels have allows you to choose the most suitable solution for your project.



ACCESSORIES	PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
W600	PADCASWPW60H240CC	600x2400 mm	Aluminum Frame + Solid Polycarbonate Sheet
W600	PADCSWPW60H240CC	600x2400 mm	Metal Sheet
W600	PADCFSWPW60H240CC	600x2400 mm	Steel Frame + Metal Door
W800	PADCASWPW80H240CC	800x2400 mm	Aluminum Frame + Solid Polycarbonate Shee
W800	PADCSWPW80H240CC	800x2400 mm	Metal Sheet
W800	PADCFSWPW80H240CC	800x2400 mm	Metal Frame+ Metal Door

## CORRIDOR CLOSING PANELS

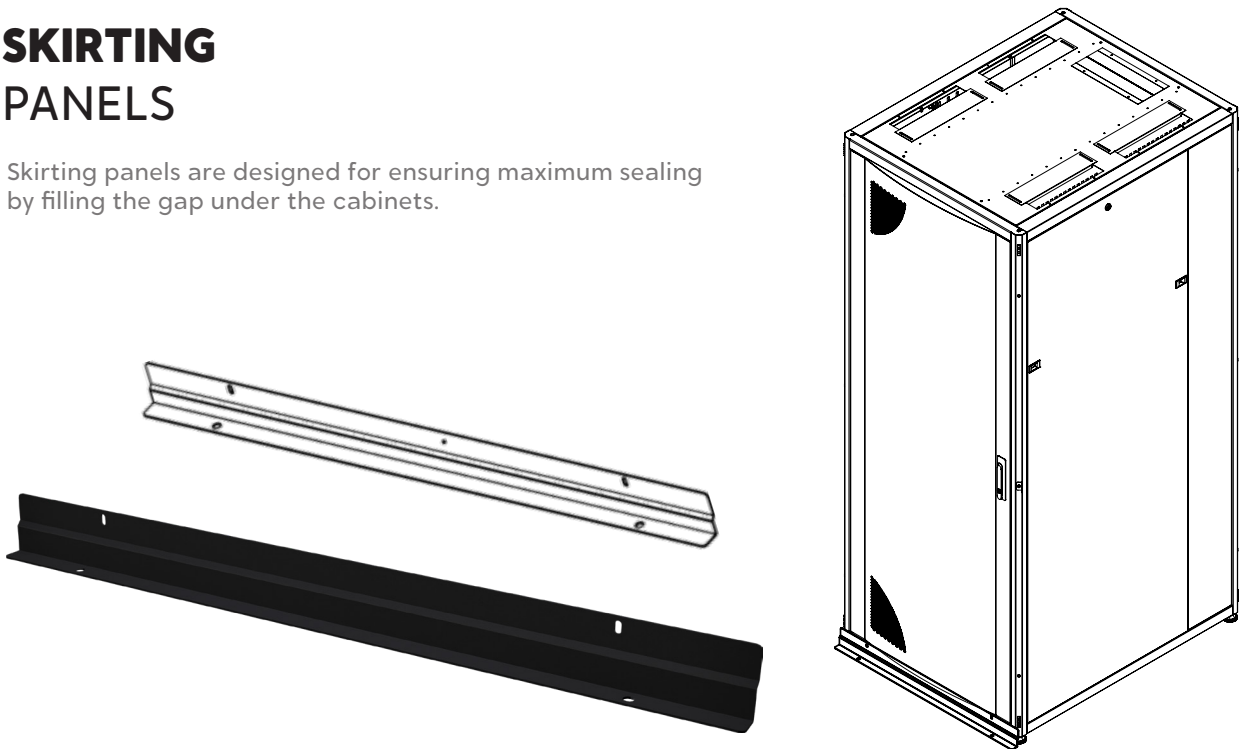
Corridor closing panels produced for filling the gap between sliding doors and roof cover plates in the corridor systems.



ACCESSORIES	PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
General	PADCCHCPW120H20CC	1200x200 mm	Corridor Header Closing Plate Front Rear (1 set=2pcs)
General	PADCCHCPW120H30CC	1200x300 mm	Corridor Header Closing Plate Front Rear (1 set=2pcs)

## SKIRTING PANELS

Skirting panels are designed for ensuring maximum sealing by filling the gap under the cabinets.



ACCESSORIES	PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
W600	PADCSPH30W60CC	1200x200 mm	Skirting Panel (1 Set, 2 pcs)
W800	PADCSPH30W80CC	1200x300 mm	Skirting Panel (1 Set, 2 pcs)



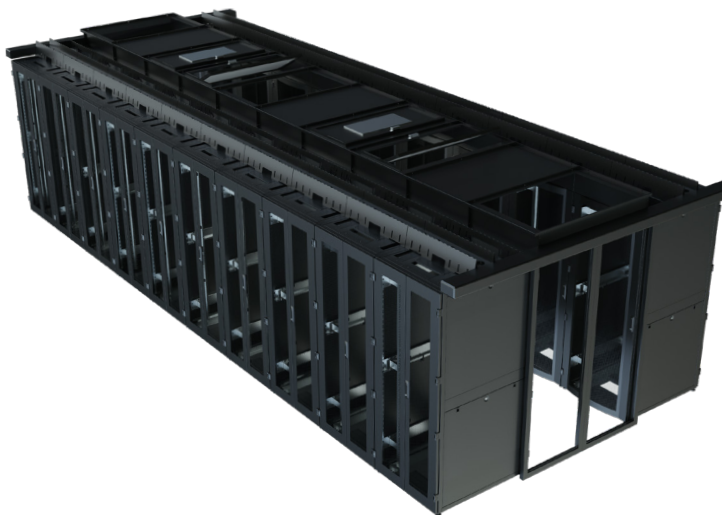
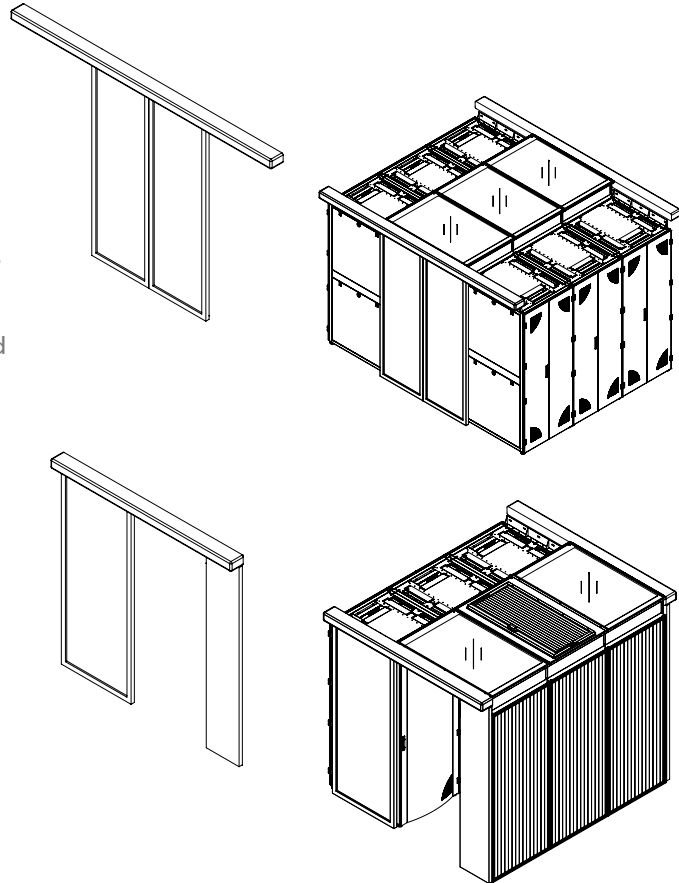
# AUTOMATIC SLIDING DOORS

Günko sliding door systems are designed to combine safety and aesthetics together.

Slim and aesthetically pleasing aluminum profile structure provides a stylish first look in your data centers solutions. Doors are equipped with anti-slamming protection mechanism and speed adjustment modules for safe usage.

## AUTOMATIC SLIDING DOOR SPECIFICATIONS:

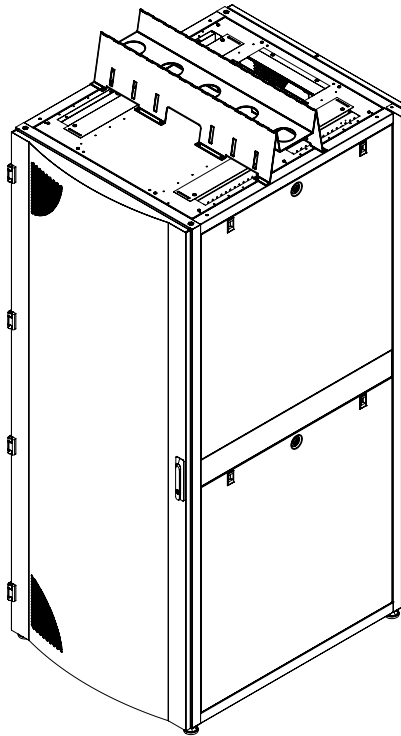
- \* Electromagnetic lock
- \* With safety photocell
- \* Hand sensor
- \* Proximity card login
- \* 4+4 Smoked laminated glass
- \* Self-cleaning rail system
- \* Guaranteed for 2,000,000 moves



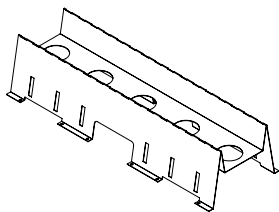
PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
PADC42UCSDW12AOSL500	1200 mm	42U Single Opening Automatic Door With Photocell
PADC45UCSDW12AOSL500	1200 mm	45U Single Opening Automatic Door With Photocell
PADC47UCSDW12AOSL500	1200 mm	47U Single Opening Automatic Door With Photocell
PADC42UCDDW12AOSL500	1200 mm	42U Double Opening Automatic Door With Photocell
PADC45UCDDW12AOSL500	1200 mm	45U Double Opening Automatic Door With Photocell
PADC47UCDDW12AOSL500	1200 mm	47U Double Opening Automatic Door With Photocell
PADC42UCSDW12AORSA	1200 mm	42U Single Opening Automatic Door With Photocell
PADC45UCSDW12AORSA	1200 mm	45U Single Opening Automatic Door With Photocell
PADC47UCSDW12AORSA	1200 mm	47U Single Opening Automatic Door With Photocell
PADC42UCDDW12AORSA	1200 mm	42U Double Opening Automatic Door With Photocell
PADC45UCDDW12AORSA	1200 mm	45U Double Opening Automatic Door With Photocell
PADC47UCDDW12AORSA	1200 mm	47U Double Opening Automatic Door With Photocell

## M & A TYPE CABLE SEPERATORS

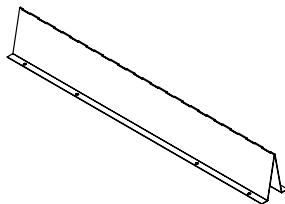
Cable separators are designed for creating separation between data and electric cables placed on top of the cabinets. Separators can be mounted in the desired location along with the depth of the cabinet for easy usage.



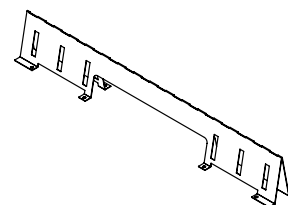
M-Shaped Vented



A-Shaped Closed



A-Shaped Vented

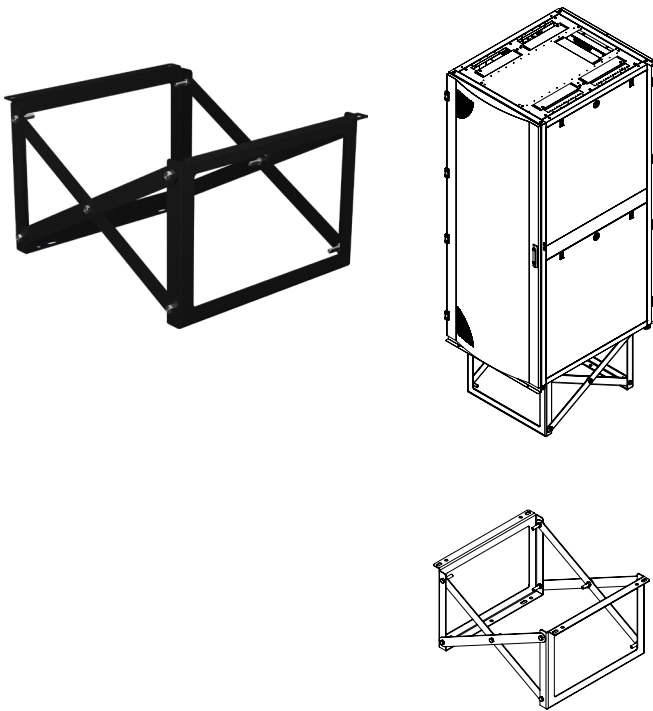


ACCESSORIES	PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
W600	PADCCSW60ASSCC	600 mm	Cable Seperator- A Shaped-Closed
W600	PADCCSW60ASVCC	600 mm	Cable Seperator- A Shaped-Vented
W600	PADCCSW60MSCC	600 mm	Cable Seperator- M Shaped
W800	PADCCSW80ASSCC	800 mm	Cable Seperator- A Shaped-Closed
W800	PADCCSW80ASVCC	800 mm	Cable Seperator- A Shaped-Vented
W800	PADCCSW80MSCC	800 mm	Cable Seperator- M Shaped

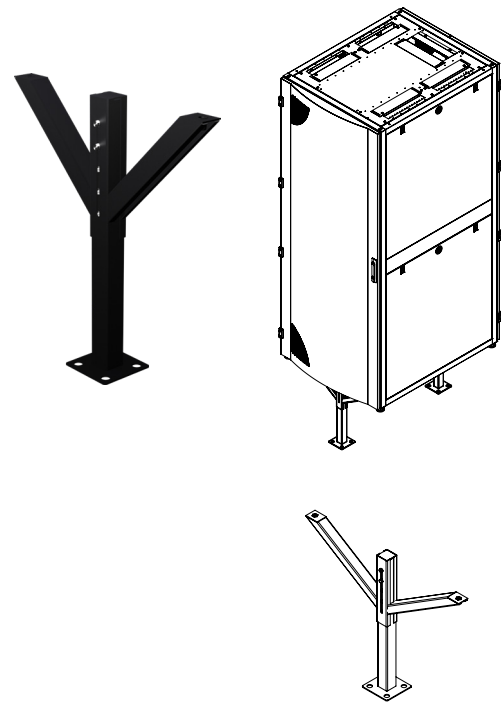
# EARTHQUAKE SAFETY SOLUTIONS

Seismic tables are designed for securing electronic equipment and cables mounted in the cabinets against earthquake and similar movements. Design allows maximum protection for electronic equipment and cables mounted in the cabinets against earthquake and similar movements.

Seismic Table



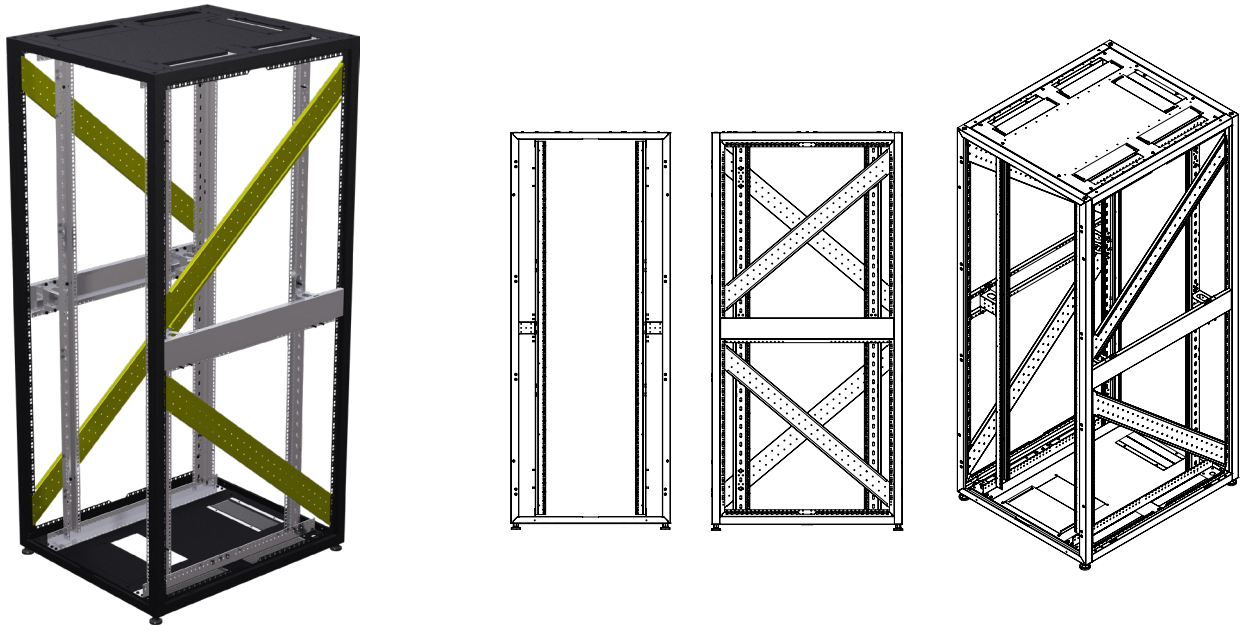
Y Seismic



ACCESSORIES	PRODUCT CODE	WIDTH (W)	PRODUCT DESCRIPTION
Y Seismic	PADCYSKRFW60H65	W=600 mm H500- 650 mm	Y Seismic Connection Kit
Y Seismic	PADCYSKRFW80H65	W=800 mm H500- 650 mm	Y Seismic Connection Kit
Y Seismic	PADCYSKRFW60H45	W=600 mm H300- 450 mm	Y Seismic Connection Kit
Y Seismic	PADCYSKRFW80H45	W=800 mm H300- 450 mm	Y Seismic Connection Kit
Seismic Table	PADCSTW60D100CC	W=600 mm D=1000 mm	Seismic Table
Seismic Table	PADCSTW60D110CC	W=600 mm D=1100 mm	Seismic Table
Seismic Table	PADCSTW60D120CC	W=600 mm D=1200 mm	Seismic Table
Seismic Table	PADCSTW80D100CC	W=800 mm D=1000 mm	Seismic Table
Seismic Table	PADCSTW80D110CC	W=800 mm D=1100 mm	Seismic Table
Seismic Table	PADCSTW80D120CC	W=800 mm D=1200 mm	Seismic Table

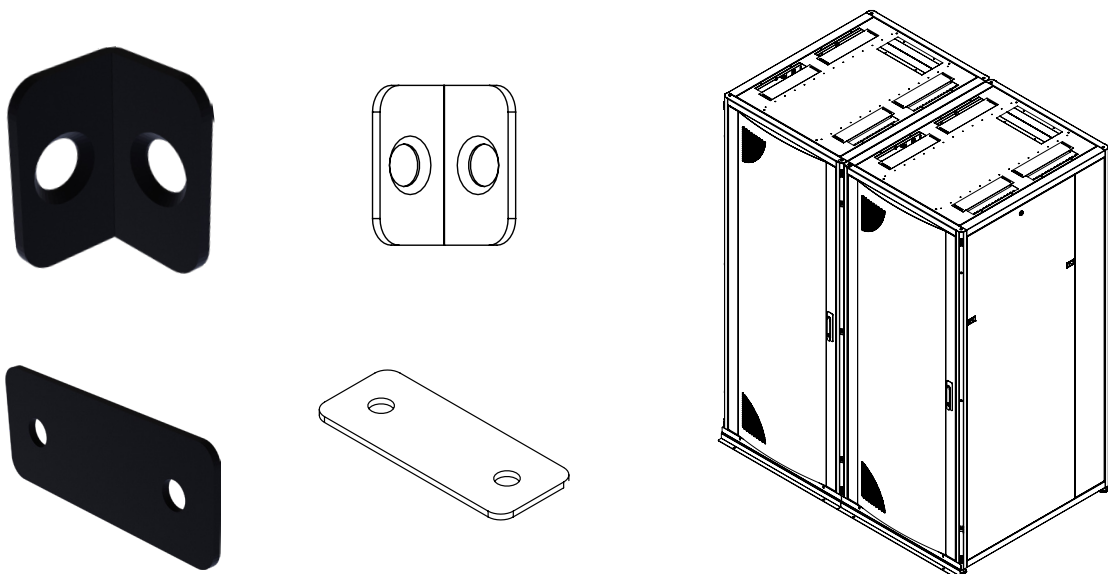
## SEISMIC BAR

Seismic bars are designed for protecting stability and securing cabinet structure against earthquake and similar movements. Design allows maximum protection for electronic equipment and cables mounted in the cabinets against earthquake and similar movements.



## CABINET CONNECTION KITS

Connection kits are designed for connecting cabinets side-by-side when side panels are not mounted on the cabinets. Design prevents possible air leakage between the cabinets placed side-by-side.



ACCESSORIES	PRODUCT CODE	PRODUCT DESCRIPTION
GENERAL	PAELGNDCSBSCC	Elegant DC Cabinet Connection Kit
GENERAL	PADCSBSCC	Server Rack DC Cabinet Connection Kit








# **CONTAINER DATA CENTER**



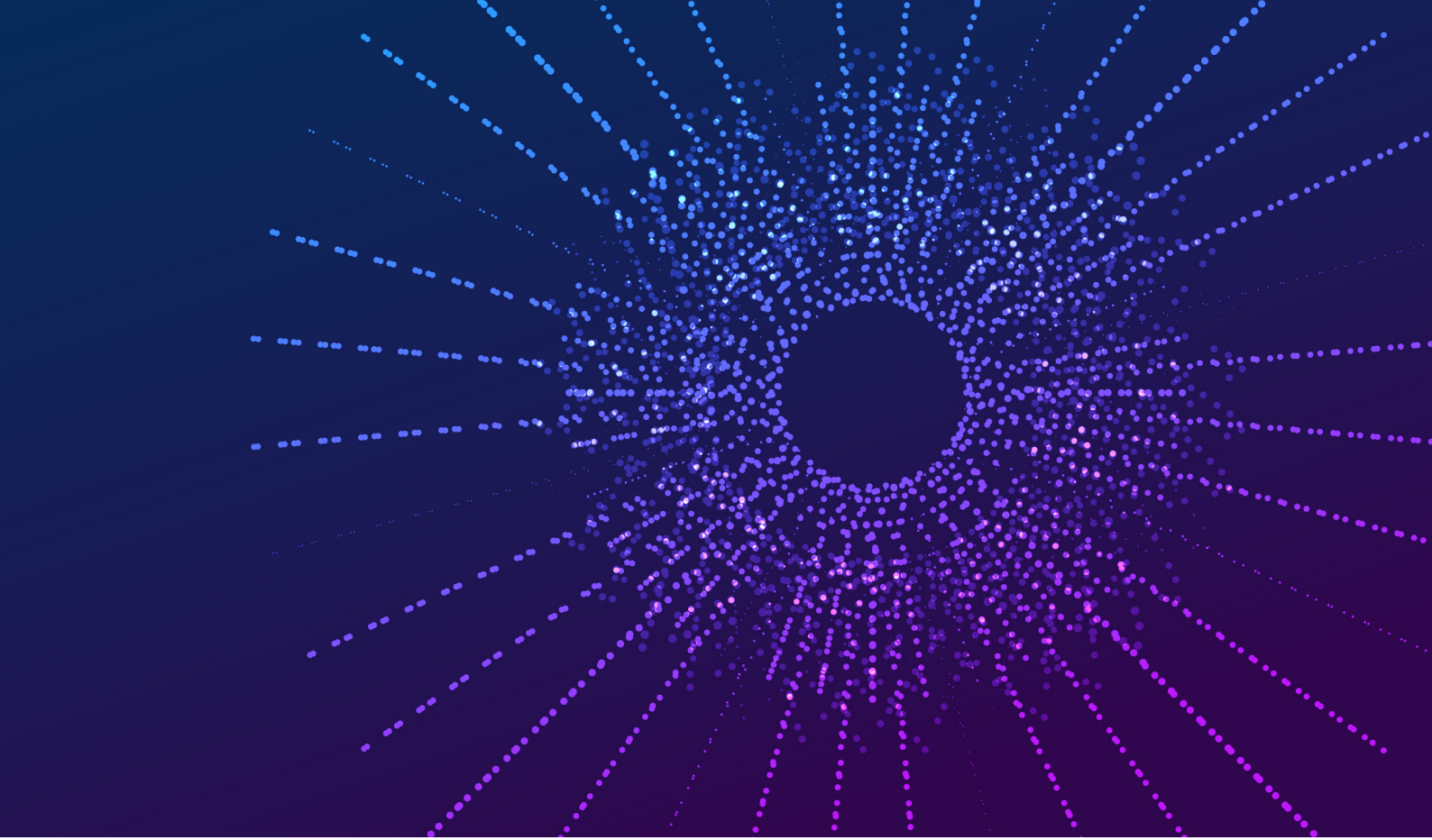
# CONTAINER DATA CENTER



## WHAT IS CONTAINER DATA CENTER?

**Container or Mobile Data Center (CDC) provides all infrastructure solutions a data center requires.**

CDC is a modern data center solution that contains all required elements such as hot/cold corridor structure, redundant uninterruptable power supply, redundant sensitive air conditioners, uninterrupted energy distribution system, group PDUs, fire detection, extinguish system, monitoring and management devices, security cameras, and even backup energy source generators in a single structure.



# WHO NEEDS AND WHY?

**The cabinets can be placed side by side or mounted each other to be useful and space saving in data centers or the server rooms. The situation is called in which the cabinets are placed side by side, "CABINET ROW" or "ROW". In data centers where there are more than one row, the spaces or areas formed between these rows are called "CORRIDORS".**

CDCs are suitable solution for businesses and industrial facilities of all sizes, hospitals, universities, military facilities, factories, public institutions, municipalities and all institutions and organizations that need a backup (disaster recovery) data centers.

Since CDCs are standard solutions, they do not cause time loss such as projecting and editing specifications before purchasing. From production to the delivery to the field, lead time will be 8 to 12 weeks, so it can be considered as a fast solution. When your data center needs increase, it allows you to expand modularly with similar container additions. It provides standardization with the same data centers and easy monitoring and management from the center for institutions and businesses that do similar work in more than one location. CDCs can be easily transported to the desired locations in an emergency or when it is necessary to move quickly and safely.

CDCs are an integrated solution that includes all the necessities of a data center. Due to its compact structure, it is easy to manage, operate and maintain solution. By enabling high IT power capacity usage in small area, it provides lower energy consumption compared to built-in data centers.

# CONTAINER DATA CENTER



**CDCs are high-end products for accommodating all the infrastructure needs under single construction.**

## WHAT ARE THE BENEFITS?

- All-in one integrated solution
- Central management and monitoring
- Easy management, maintenance and operation
- High power capacity in small space
- Low energy consumption
- Mobilization, fast and easy transport
- Fast supply
- No need for project and its specifications
- Possible modular expansion

## CONTAINER DATA CENTER EXAMPLES

80 kW capacity 40ft ISO container data center (Internal Condenser) N+1 Inrow Precision Air Conditioner / 2N Modular & Rack Type UPS



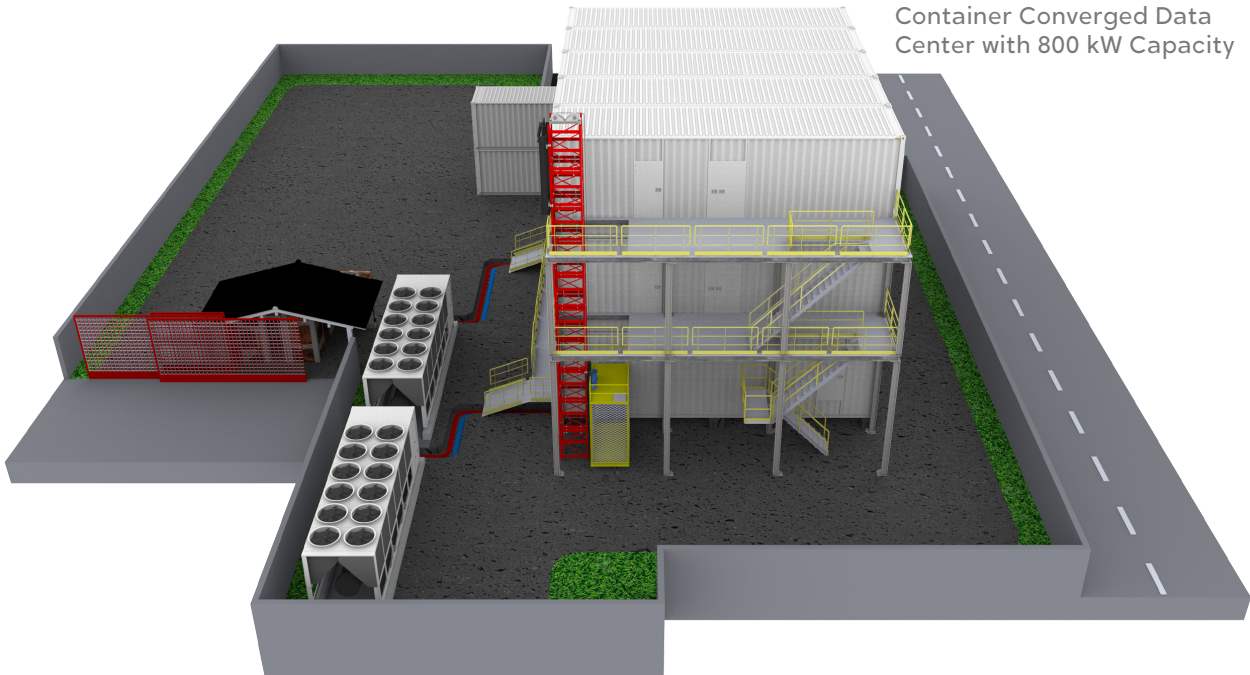
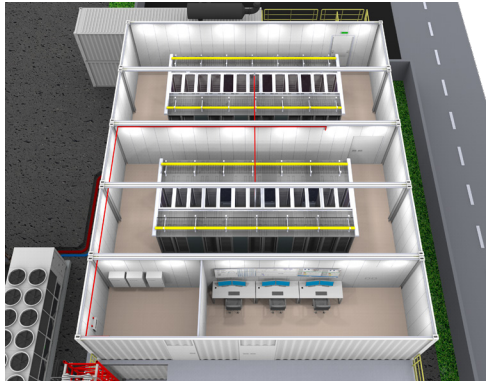
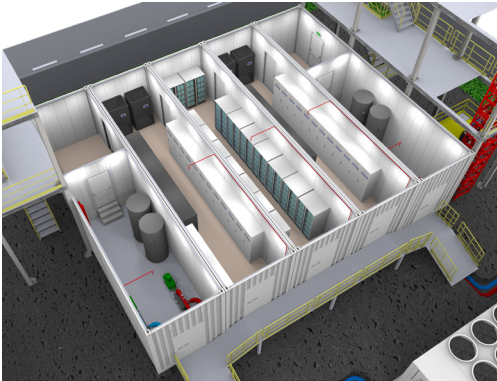
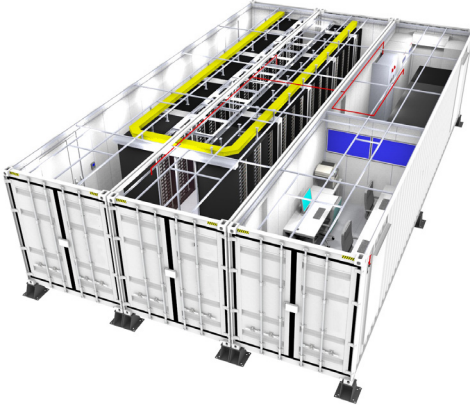
### Construction Site and Field Type

ISO Container Unified Data Center with 120 kW Capacity



### Integrated Modular Container Data Center

ISO Container Unified Data Center with 200 kW Capacity



Container Converged Data Center with 800 kW Capacity





[gunko.com.tr](http://gunko.com.tr)

© 2023

GÜNKO reserves the right to change the information in this catalog without any warning.  
Our company is not responsible for visual and typographical errors.