

SAUDI
MADE



صناعة
سعودية

رؤية
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



شركة مصنع جاما للصناعات المعدنية GAMMA FACTORY FOR METAL INDS.

MORE THAN **15** YEARS IN MANUFACTURING OF :

- Cabinets & Accessories
- IP... Outdoor Enclosures
- NEMA x Stainless Steel Enclosures
- Power Distribution Unit (PDU)



GAMMA DC FLEX DATA CENTER CABINETS (42U-45U-47U) 600 X 1000

◆ Standard Dimensions :

U-Height : 42U-45-47U

Width : 600 mm

Depth : 1000 mm

◆ Standard Colour :

RAL 9005
BLACK



RAL 7035
Light Gray

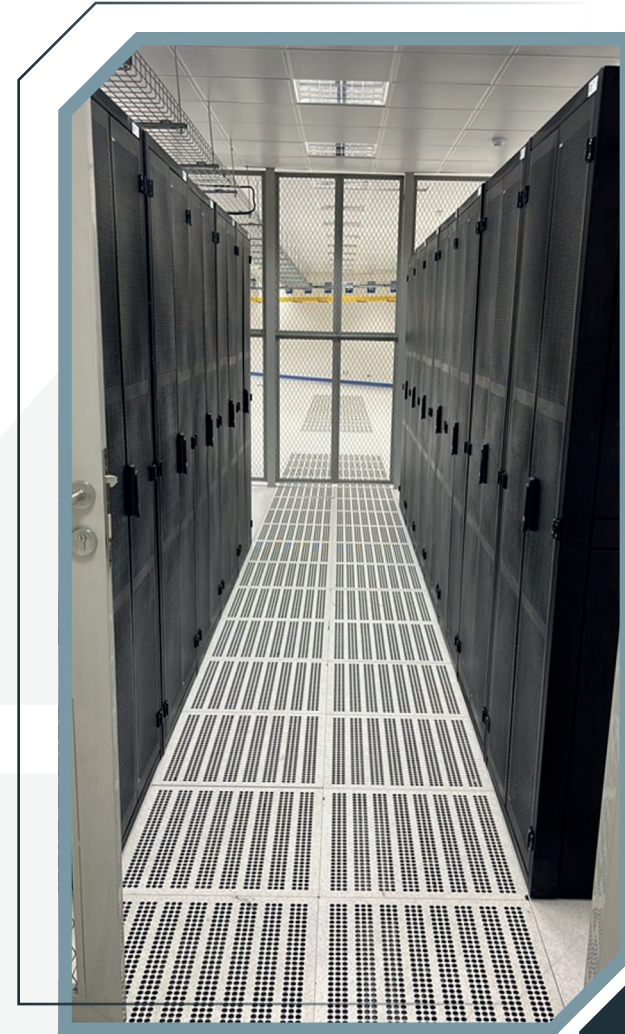


Other colours available
on request



◆ Complying with International Standards:

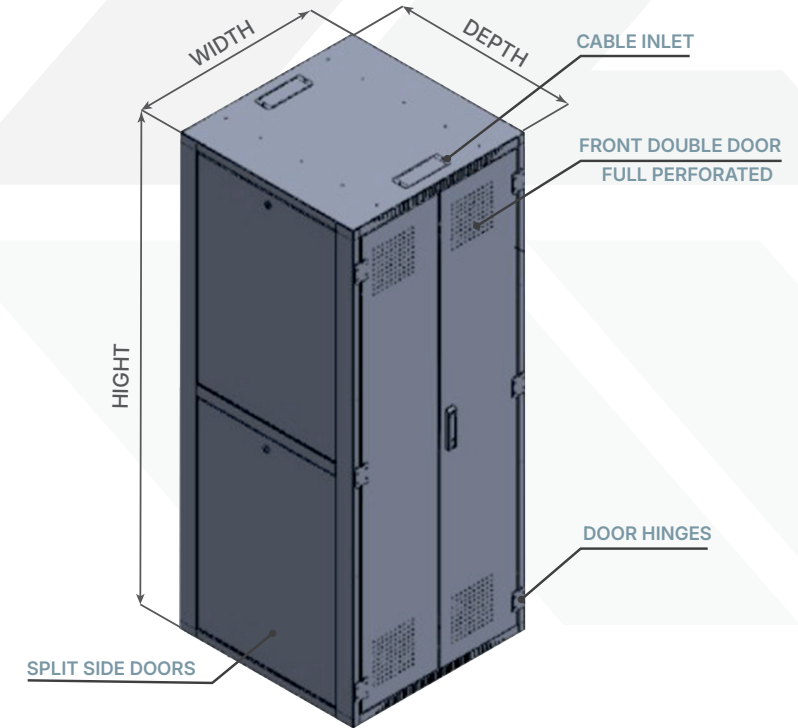
- ISO 9001-2015
- ISO 14001:2015
- EIA/ECA- 310 E & EIA-310 D
- IEC 297-1 19" MOUNTING
- IEC 297-2 Overall cabinet dimensions
- IP20 Protected
- MADE IN KSA



GAMMA DC FLEX DATA CENTER CABINETS SECTION

► Features:

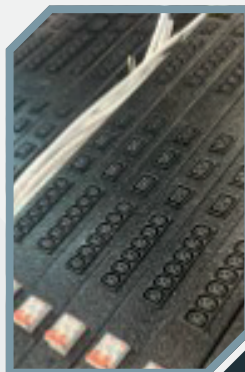
- GAMMA DC Flex Data Center Cabinets Height : 42U /45U /47U
- Size (W X D) : 600 X 1000
- Made from Heavy Duty Steel Welded structure .
- Double door front and back full perforated
- Handle lock 3-point lock – (Optional Security lock with access card)
- Solid Split Side Doors, 1 Key lock , with solid hinges
- Solid Top with Cable Inlet from Top front /back and side
- 2 Pair of 19" Mounting Rails depth Adjustable
- Static Load = 1100 kg
- 2 Pair of Transportation Caster Wheel and HD levelling feet
- Variety of options available on Request (please see optional Page)
- (Optional) Vertical Cable Management with Cover (2 pcs at front side)
- (Optional) 4 Fans, 105 CFM/Fan , 220 Volts
- (Optional) Brush for Cable Inlet
- (Optional) Security Access lock with card and key lock
- IP 20 Rated
- All Keys are alike
- Colour BLACK RAL 9005 , or Gray 7035 , other colours available on request
- Part # GMC-DC-FLEX-XXU-610 (XX = U Height)
- **MADE IN SAUDI ARABIA**



GAMMA DC FLEX DATA CENTER CABINETS (42U-45U-47U) 600 X 1000

Part Number	Description - Standard Configuration - Colour Black RAL 9005 (WELDED STRUCTURE)	Width (W) mm	Depth (D) mm	Height (H) mm	Depth Rail to Rail (mm)	Static Load (KG)
GMC-DC-FLEX-42U-610	Gamma DC Flex Data Center Cabinets 42U 600×1000 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	600	1000	2020	900	1100
GMC-DC-FLEX-45U-610	Gamma DC Flex Data Center Cabinets 45U 600×1000 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	600	1000	2160	900	1100
GMC-DC-FLEX-47U-610	Gamma DC Flex Data Center Cabinets 47U 600×1000 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	600	1000	2250	900	1100

OTHER SIZES AVAILABLE ON REQUEST



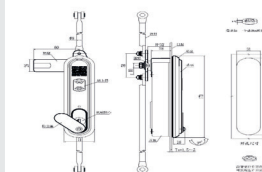
GAMMA VERTICAL PDU Models :

1. Basic PDU with Braker
2. Meter PDU with braker For Voltage and Amps and Watt
20 X C13 + 4 X C19 , 16 or 32 Amps (4 / 8 / 16 KW -220-250 V)
Power cord 1.8 m (3m option) Industrial Plug

ELECTRONIC LOCK WITH IC CARD (OPTIONAL)

Operation Instructions

1. After the controller powers on the electronic lock control wire, use the IC card to swipe the card in the designated swiping area. After the IC card matches the electronic lock, the green light flashes, and then press the circle position under the handle to turn on the electronic lock (if you don't press, The green light keeps flashing and waits for n seconds before the system automatically shuts down).
2. Rotate the handle to drive the steel bolt, connecting rod and other locking mechanisms to complete the opening action.
3. For key opening, first use the tool key to open the dust cover, then insert the key, and turn it clockwise to open the handle



GAMMA DC FLEX DATA CENTER CABINETS (42U-45U-47U) 600 X 1200

◆ Standard Dimensions :

U-Height : 42U-45-47U

Width : 600 mm

Depth : 1200 mm

◆ Standard Colour :

RAL 9005
BLACK



RAL 7035
Light Gray

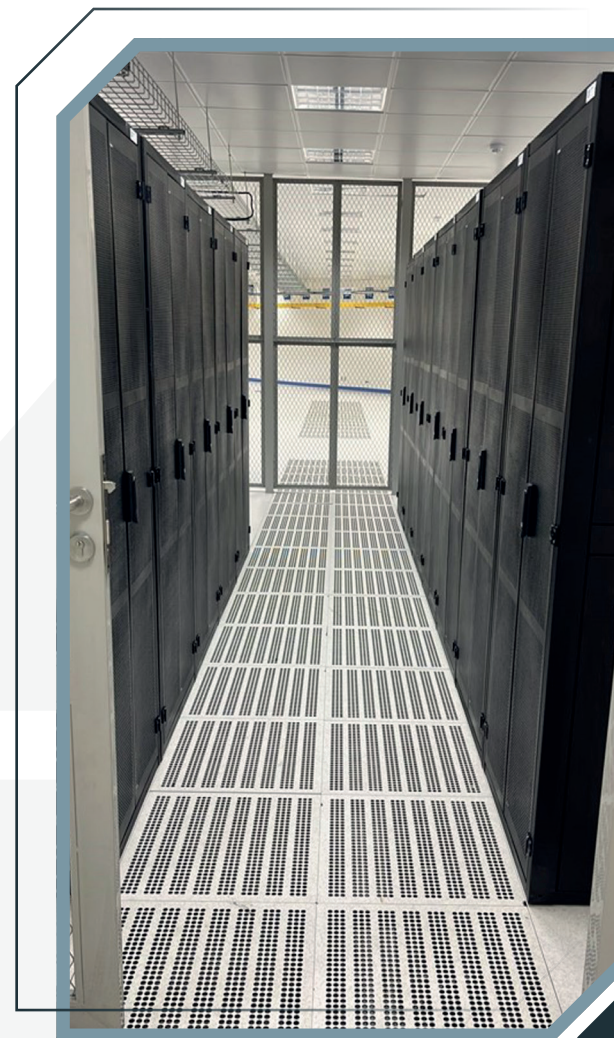


Other colours available
on request



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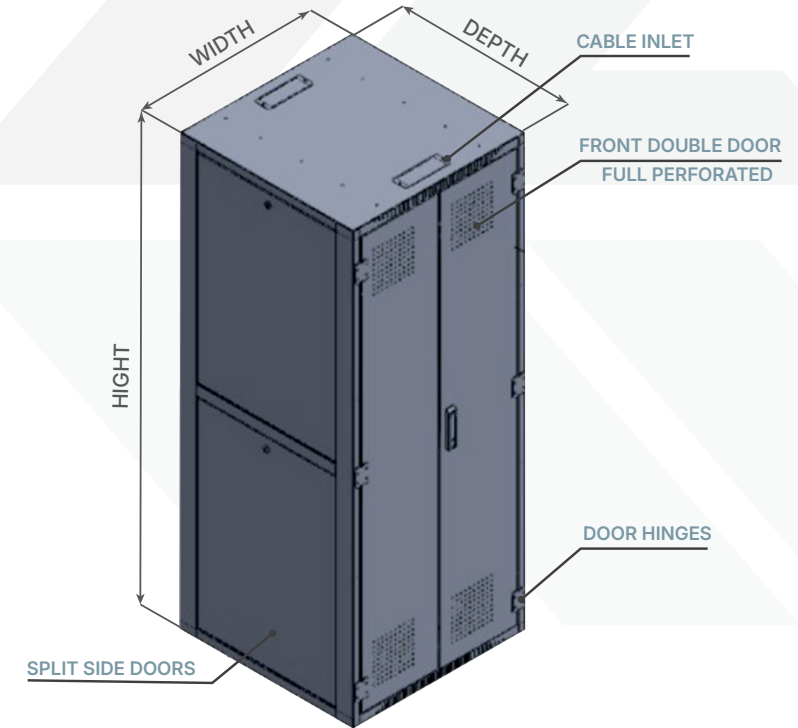
- ISO 9001-2015
- ISO 14001:2015
- EIA/ECA- 310 E & EIA-310 D
- IEC 297-1 19" MOUNTING
- IEC 297-2 Overall cabinet dimensions
- IP20 Protected
- MADE IN KSA



GAMMA DC FLEX DATA CENTER CABINETS SECTION

► Features:

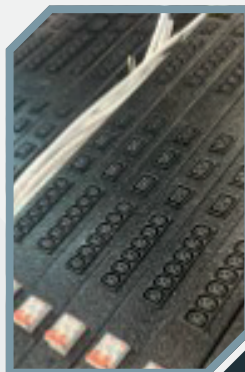
- GAMMA DC Flex Data Center Cabinets Height : 42U /45U /47U
- Size (W X D) : 600 X 1200
- Made from Heavy Duty Steel Welded structure .
- Double door front and back full perforated
- Handle lock 3-point lock – (Optional Security lock with access card)
- Solid Split Side Doors, 1 Key lock , with solid hinges
- Solid Top with Cable Inlet from Top front /back and side
- 2 Pair of 19" Mounting Rails depth Adjustable
- Static Load = 1100 kg
- 2 Pair of Transportation Caster Wheel and HD levelling feet
- Variety of options available on Request (please see optional Page)
- (Optional) Vertical Cable Management with Cover (2 pcs at front side)
- (Optional) 4 Fans, 105 CFM/Fan , 220 Volts
- (Optional) Brush for Cable Inlet
- (Optional) Security Access lock with card and key lock
- IP 20 Rated
- All Keys are alike
- Colour BLACK RAL 9005 , or Gray 7035 , other colours available on request
- Part # GMC-DC-FLEX-XXU-610 (XX = U Height)
- **MADE IN SAUDI ARABIA**



GAMMA DC FLEX DATA CENTER CABINETS (42U-45U-47U) 600 X 1000

Part Number	Description - Standard Configuration - Colour Black RAL 9005 (WELDED STRUCTURE)	Width (W) mm	Depth (D) mm	Height (H) mm	Depth Rail to Rail (mm)	Static Load (KG)
GMC-DC-FLEX-42U-612	Gamma DC Flex Data Center Cabinets 42U 600×1200 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	600	1200	2020	1100	1100
GMC-DC-FLEX-45U-612	Gamma DC Flex Data Center Cabinets 45U 600×1200 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	600	1200	2160	1100	1100
GMC-DC-FLEX-47U-612	Gamma DC Flex Data Center Cabinets 47U 600×1200 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	600	1200	2250	1100	1100

OTHER SIZES AVAILABLE ON REQUEST



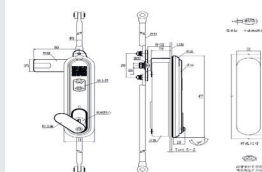
GAMMA VERTICAL PDU Models :

1. Basic PDU with Braker
2. Meter PDU with braker For Voltage and Amps and Watt
20 X C13 + 4 X C19 , 16 or 32 Amps (4 / 8 / 16 KW -220-250 V)
Power cord 1.8 m (3m option) Industrial Plug

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2. Rotate the handle to drive the steel bolt, connecting rod and other locking mechanisms to complete the opening action.
3. For key opening, first use the tool key to open the dust cover, then insert the key, and turn it clockwise to open the handle



GAMMA DC FLEX DATA CENTER CABINETS (42U-45U-47U) 800 X 800

◆ Standard Dimensions :

U-Height : 42U-45-47U

Width : 800 mm

Depth : 800 mm

◆ Standard Colour :

RAL 9005
BLACK



RAL 7035
Light Gray

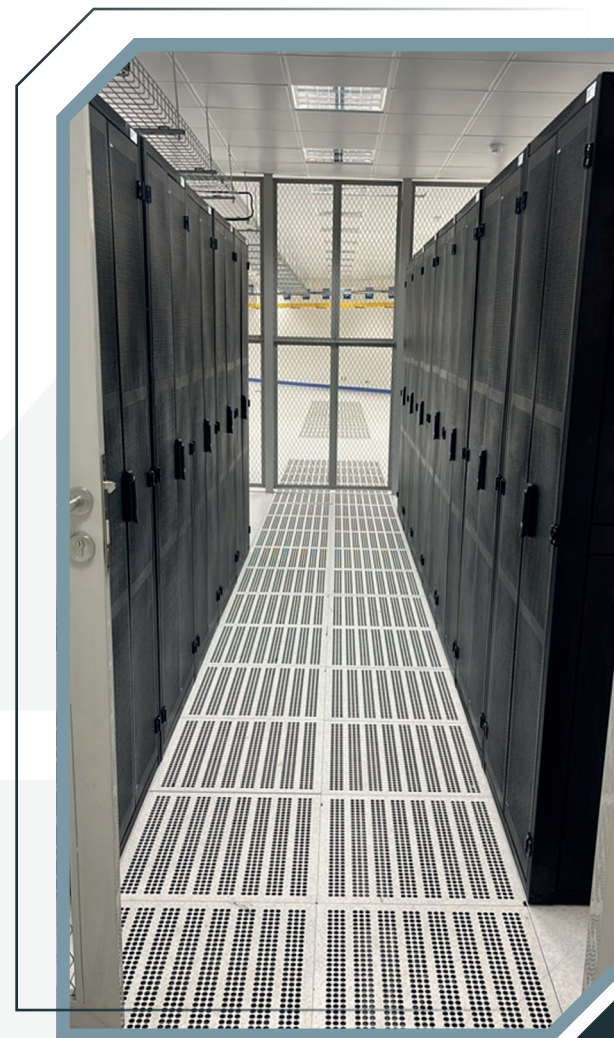


Other colours available
on request



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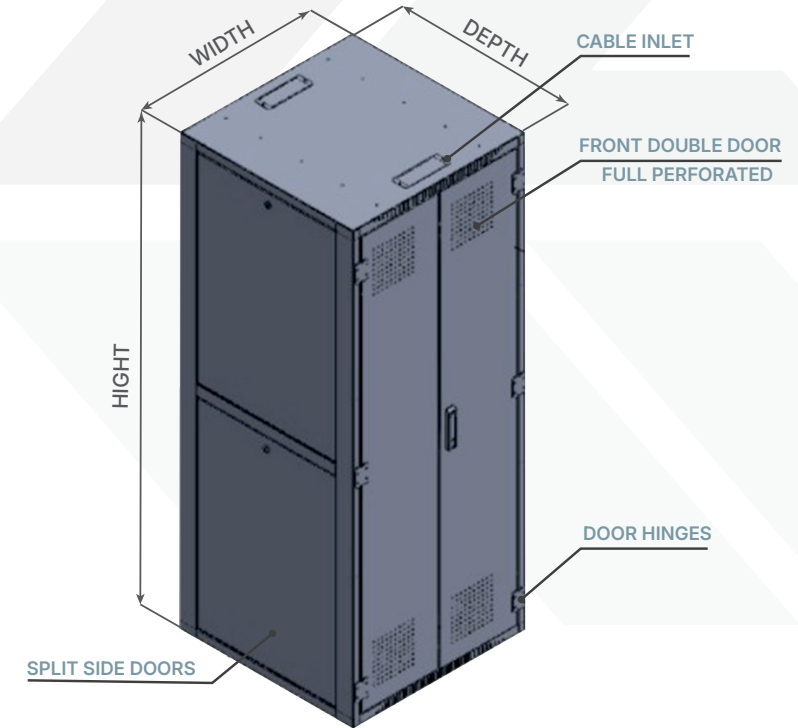
- ISO 9001-2015
- ISO 14001:2015
- EIA/ECA- 310 E & EIA-310 D
- IEC 297-1 19" MOUNTING
- IEC 297-2 Overall cabinet dimensions
- IP20 Protected
- MADE IN KSA



❖ GAMMA DC FLEX DATA CENTER CABINETS SECTION

► Features:

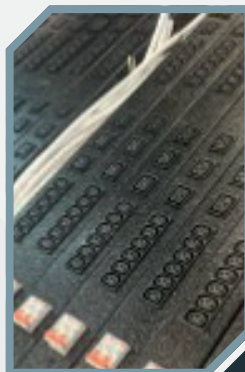
- GAMMA DC Flex Data Center Cabinets Height : 42U /45U /47U
- Size (W X D) : 800 X 800
- Made from Heavy Duty Steel Welded structure .
- Double door front and back full perforated
- Handle lock 3-point lock – (Optional Security lock with access card)
- Solid Split Side Doors, 1 Key lock , with solid hinges
- Solid Top with Cable Inlet from Top front /back and side
- 2 Pair of 19" Mounting Rails depth Adjustable
- Static Load = 1100 kg
- 2 Pair of Transportation Caster Wheel and HD levelling feet
- Variety of options available on Request (please see optional Page)
- (Optional) Vertical Cable Management with Cover (2 pcs at front side)
- (Optional) 4 Fans, 105 CFM/Fan , 220 Volts
- (Optional) Brush for Cable Inlet
- (Optional) Security Access lock with card and key lock
- IP 20 Rated
- All Keys are alike
- Colour BLACK RAL 9005 , or Gray 7035 , other colours available on request
- Part # GMC-DC-FLEX-XXU-610 (XX = U Height)
- **MADE IN SAUDI ARABIA**



GAMMA DC FLEX DATA CENTER CABINETS (42U-45U-47U) 800 X 800

Part Number	Description - Standard Configuration - Colour Black RAL 9005 (WELDED STRUCTURE)	Width (W) mm	Depth (D) mm	Height (H) mm	Depth Rail to Rail (mm)	
GMC-DC-FLEX-42U-88	Gamma DC Flex Data Center Cabinets 42U 800×800 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	800	800	2020	650	1100
GMC-DC-FLEX-45U-88	Gamma DC Flex Data Center Cabinets 45U 800×800 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	800	800	2160	650	1100
GMC-DC-FLEX-47U-88	Gamma DC Flex Data Center Cabinets 47U 800×800 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	800	800	2250	650	1100

OTHER SIZES AVAILABLE ON REQUEST



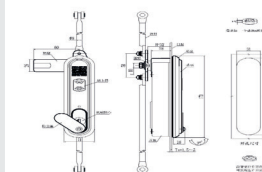
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2. Meter PDU with braker For Voltage and Amps and Watt
20 X C13 + 4 X C19 , 16 or 32 Amps (4 / 8 / 16 KW -220-250 V)
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2. Rotate the handle to drive the steel bolt, connecting rod and other locking mechanisms to complete the opening action.
3. For key opening, first use the tool key to open the dust cover, then insert the key, and turn it clockwise to open the handle



GAMMA DC FLEX DATA CENTER CABINETS (42U-45U-47U) 800 X 1000

◆ Standard Dimensions :

U-Height : 42U-45-47U

Width : 800 mm

Depth : 1000 mm

◆ Standard Colour :

RAL 9005
BLACK



RAL 7035
Light Gray

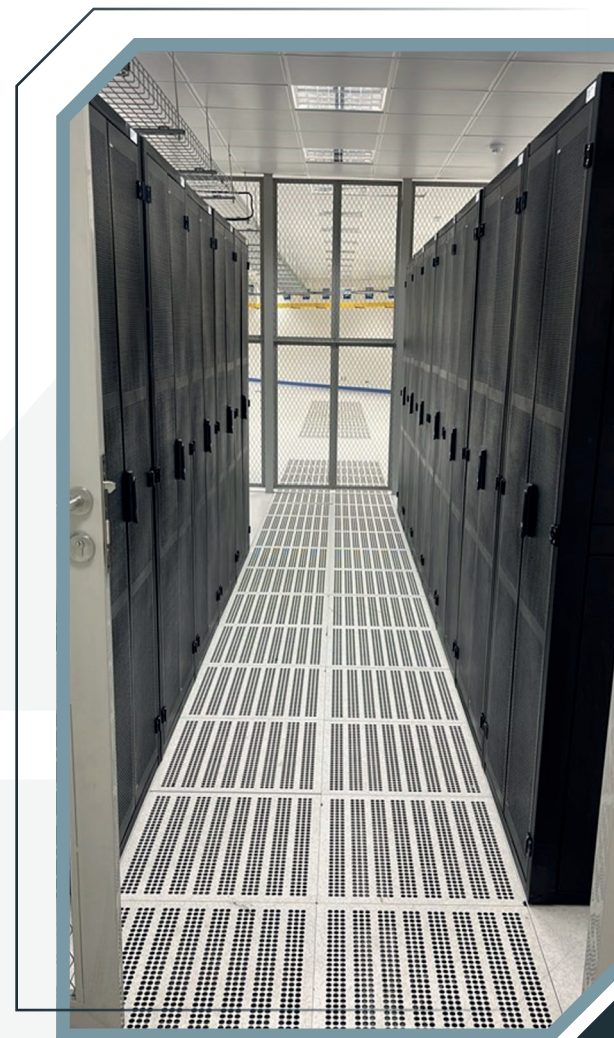


Other colours available
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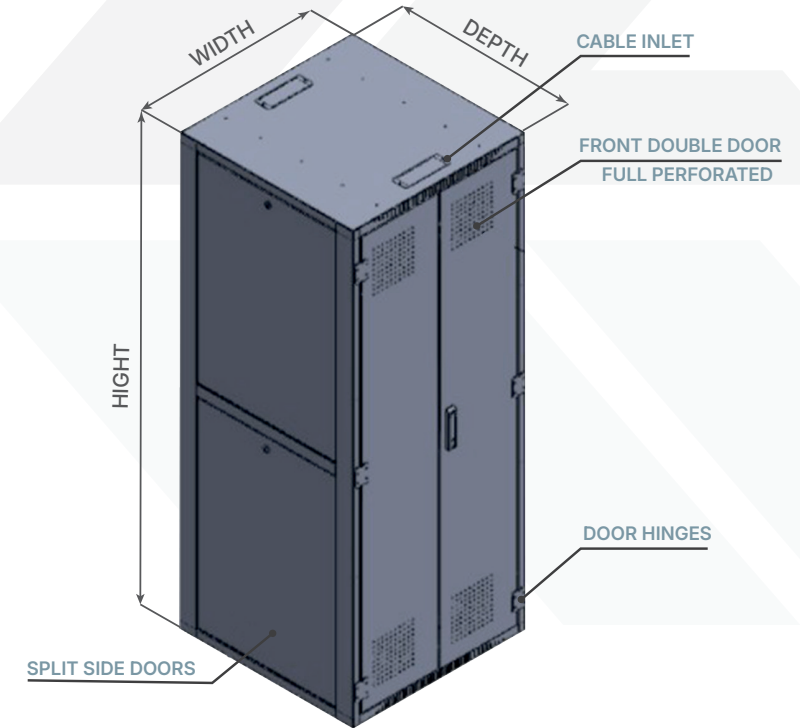
- ISO 9001-2015
- ISO 14001:2015
- EIA/ECA- 310 E & EIA-310 D
- IEC 297-1 19" MOUNTING
- IEC 297-2 Overall cabinet dimensions
- IP20 Protected
- MADE IN KSA



GAMMA DC FLEX DATA CENTER CABINETS SECTION

► Features:

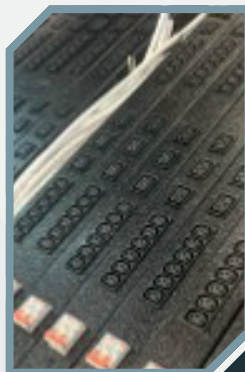
- GAMMA DC Flex Data Center Cabinets Height : 42U /45U /47U
- Size (W X D) : 800 X 1000
- Made from Heavy Duty Steel Welded structure .
- Double door front and back full perforated
- Handle lock 3-point lock – (Optional Security lock with access card)
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- (Optional) Brush for Cable Inlet
- (Optional) Security Access lock with card and key lock
- IP 20 Rated
- All Keys are alike
- Colour BLACK RAL 9005 , or Gray 7035 , other colours available on request
- Part # GMC-DC-FLEX-XXU-610 (XX = U Height)
- **MADE IN SAUDI ARABIA**



GAMMA DC FLEX DATA CENTER CABINETS (42U-45U-47U) 800 X 1000

Part Number	Description - Standard Configuration - Colour Black RAL 9005 (WELDED STRUCTURE)	Width (W) mm	Depth (D) mm		Depth Rail to Rail (mm)	Static Load (KG)
GMC-DC-FLEX-42U-810	Gamma DC Flex Data Center Cabinets 42U 800×1000 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	800	1000	2020	850	1100
GMC-DC-FLEX-45U-810	Gamma DC Flex Data Center Cabinets 45U 800×1000 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	800	1000	2160	850	1100
GMC-DC-FLEX-47U-810	Gamma DC Flex Data Center Cabinets 47U 800×1000 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	800	1000	2250	850	1100

OTHER SIZES AVAILABLE ON REQUEST



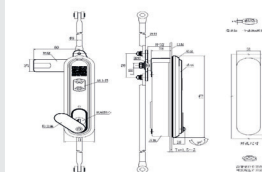
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20 X C13 + 4 X C19 , 16 or 32 Amps (4 / 8 / 16 KW -220-250 V)
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2. Rotate the handle to drive the steel bolt, connecting rod and other locking mechanisms to complete the opening action.
3. For key opening, first use the tool key to open the dust cover, then insert the key, and turn it clockwise to open the handle



GAMMA DC FLEX DATA CENTER CABINETS (42U-45U-47U) 800 X 1200

◆ Standard Dimensions :

U-Height : 42U-45-47U

Width : 800 mm

Depth : 1200 mm

◆ Standard Colour :

RAL 9005
BLACK



RAL 7035
Light Gray

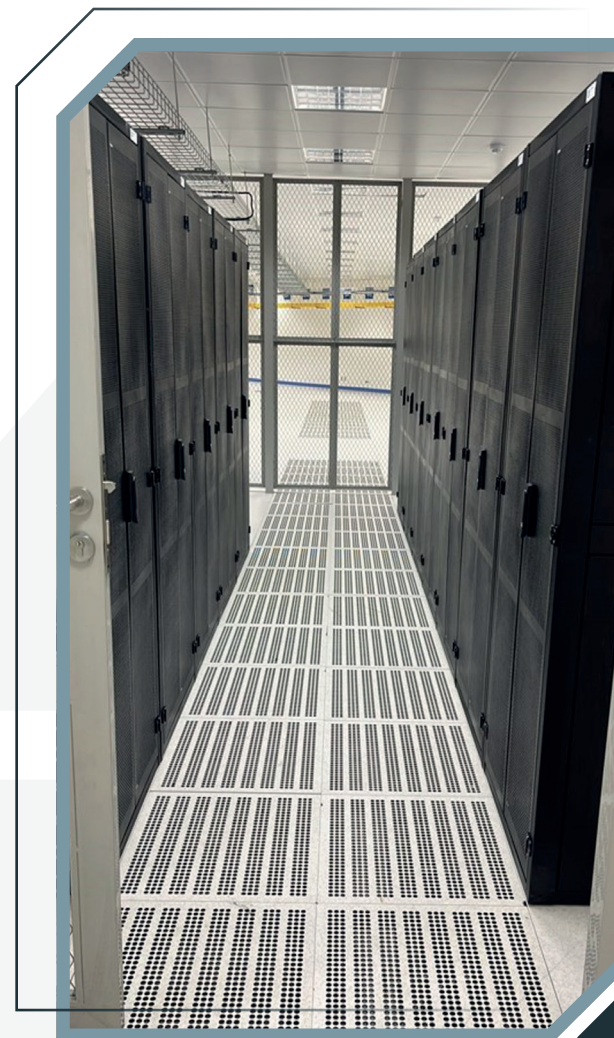


Other colours available
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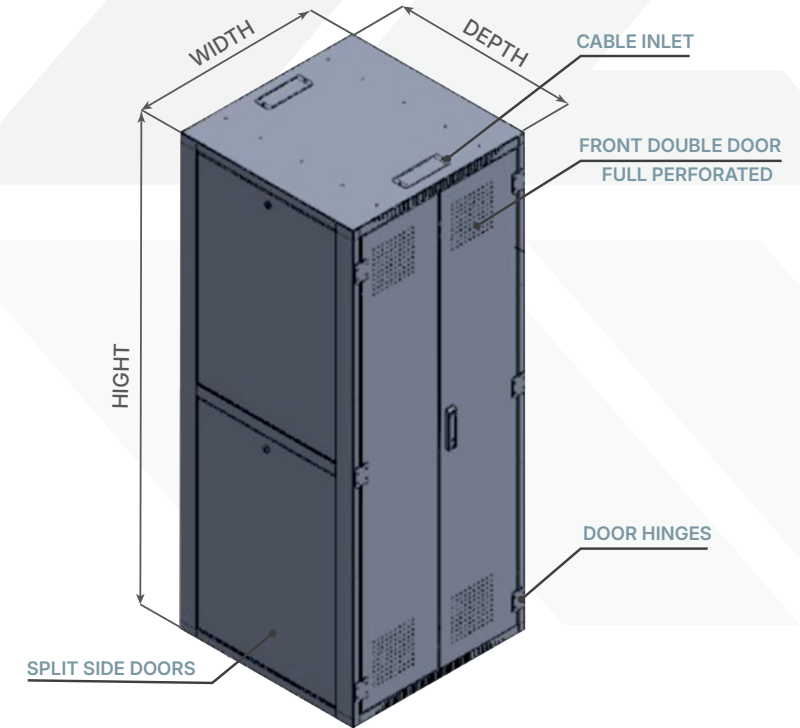
- ISO 9001-2015
- ISO 14001:2015
- EIA/ECA- 310 E & EIA-310 D
- IEC 297-1 19" MOUNTING
- IEC 297-2 Overall cabinet dimensions
- IP20 Protected
- MADE IN KSA



◇ GAMMA DC FLEX DATA CENTER CABINETS SECTION

► Features:

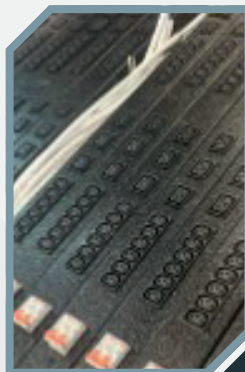
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GAMMA DC FLEX DATA CENTER CABINETS (42U-45U-47U) 800 X 1200

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GMC-DC-FLEX-45U-812	Gamma DC Flex Data Center Cabinets 45U 800×1200 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	800	1200	2160	1050	1100
GMC-DC-FLEX-47U-812	Gamma DC Flex Data Center Cabinets 47U 800×1200 with Removable Solid Split Side Doors, Double door front and back full perforated , 2 pair of 19" Adjustable Pillars , 2 pair of caster Wheels	800	1200	2250	1050	1100

OTHER SIZES AVAILABLE ON REQUEST



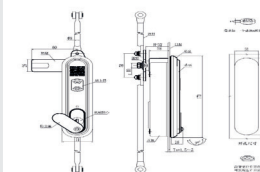
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GAMMA CABINETS MANUFACTURED ACCORDING EIA-310 E , ETSI SPECIFICATIONS Gamma Data Cbinets Fit all 19" Equipments

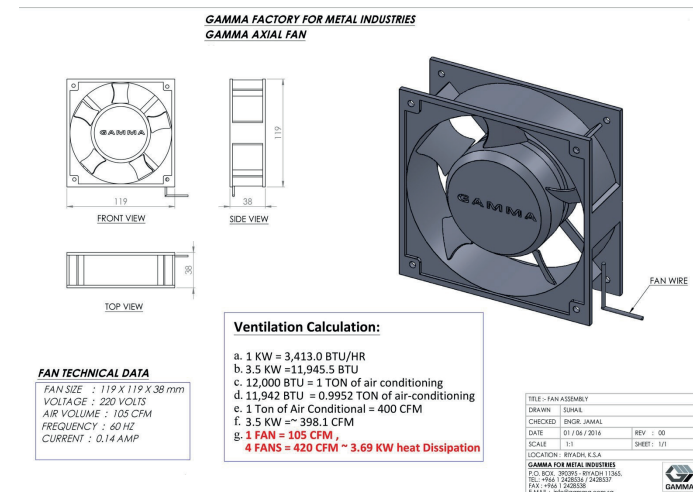
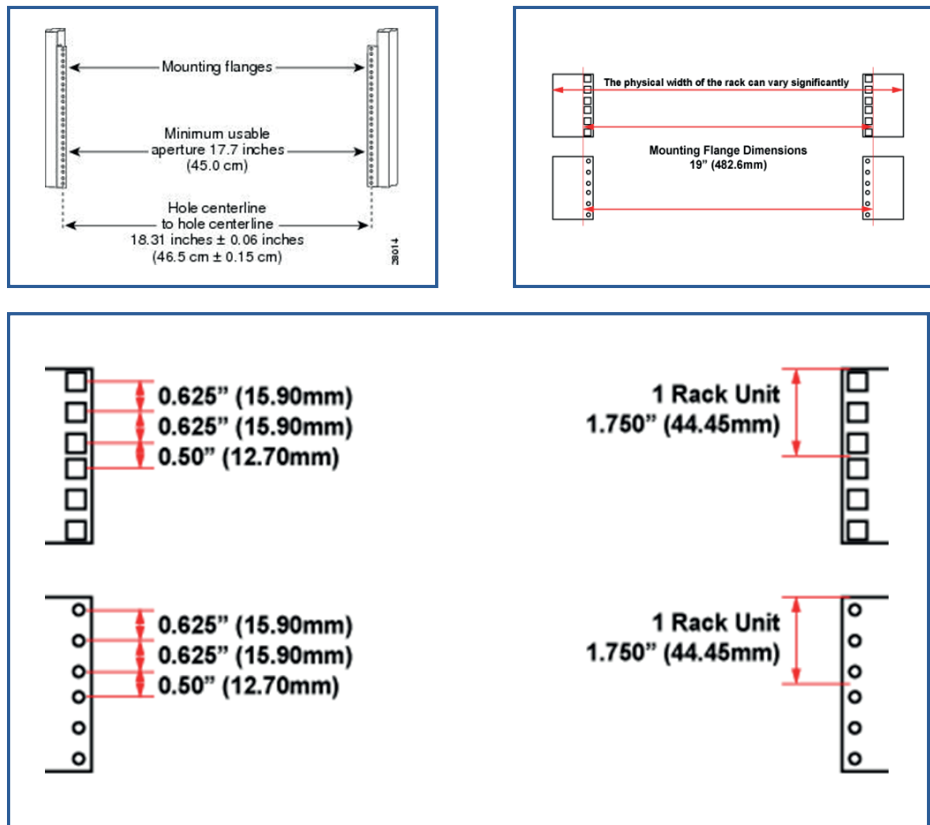
GAMMA NET AXIAL FAN DATA SHEET

GAMMA Ventilation Fan Calculation:

GAMMA Ventilation Calculation as below clarifications:

- a. 1 KW = 3,413.0 BTU/HR
- b. 3.5 KW = 11,945.5 BTU
- c. 12,000 BTU = 1 TON of air conditioning
- d. 11,942 BTU = 0.9952 TON of air-conditioning
- e. 1 Ton of Air Conditional = 400 CFM
- f. 3.5 KW = ~398.1 CFM
- g. 1 FAN = 105 CFM, 4 FANS = 420 CFM ~ 3.69 KW heat Dissipation

4 Fans will be enough for 3.5 KW heat.



GAMMA NET RACK CABINETS OPTIONS

Part Number	Description
GMC-SDP-F	Single Door Perforated Front
GMC-SDP-B	Single Door Perforated back
GMC-DDP-F	Double Door Perforated Front 800
GMC-DDP-B	Double Door Perforated Back 800
GMC-DDP-F-60	Double Door Perforated Front 600
GMC-DDP-B-60	Double Door Perforated Back 600
GMC-VCM	Vertical Cable Management for 800 W
GMC-EBB	Earthing Bus Bar – 19" rack mounted
GMC-TH-M	Thermostat for Fans -Mechanical
GMC-EK	Earthing Kit – 10 pcs/set
GMC-HCO	Horizontal Cable Organizer – 19" Mount
GMC-PS	Perforated Side Doors
GMC-GN	Gauge Nut – 20 pcs/set
GMC-FR	Fixed Shelves
GMC-SLS	Sliding Shelf
GMC-7035	Colour Light Gray RAL 7035
GMC-CT	Vertical Cable Tray (2 pcs)
GMC-BP-1U	1U Blank Panel
GMC-BP-2U	2U Blank Panel
GMC-GP	Gland Plate for base covering
GMC-PDU-6W-UK13A	PDU 6 Way UK type 13 Amps
GMC-PDU-UK-6W-16A	PDU 6 Way UK type 16 Amps
GMC-C13-C19-16A	Vertical PDU C13 X 20 , C19 X 4 , 16 A
GMC-C13-C19-32A	Vertical PDU C13 X 20 , C19 X 4 , 32 A



SOME OF CONSULTANTS AND MINISTRIES REFERENCE LIST



هيئة الزكاة والضريبة والجمارك
Zakat, Tax and Customs Authority



CERTIFICATES



REFERENCE LIST

PROJECT	المشروع	PROJECT	المشروع	PROJECT	المشروع	PROJECT	المشروع
The red sea development company	تطوير البحر الأحمر	General Directorate of investigation	المديرية العامة للمباحث	STC WI FI 3G Offloading Project - KASC Jeddah	مدينة الملك عبدالله الرياضية	Schools Infrastructure Development - wave 2	شركة تطوير للمباني TBC
King Abdullah security project KAP1	مركز الملك عبدالله للمقرات الأمنية	The Saudi Central Bank (SAMA)	البنك المركزي السعودي	Ministry of Health - MOH West - MOH ESTERN	وزارة الصحة - المراكز الطبية	Rotana Hotel	فندق روتانا
King Abdullah security project KAP2	مركز الملك عبدالله للمقرات الأمنية	NEOM Hospital	مستشفى نيوم	DIGITAL TRUNKED RADIO SYSTEM WOA	الهيئة السعودية للكهرباء	Plazza in Hotel	فندق بلازا ان
King Abdullah security project KAP2-B	مركز الملك عبدالله للمقرات الأمنية	New Boulevards	البوليفر - الهيئة العامة للترفيه	Qasem Hospital	مستشفى القصيم	Half Moon Beach Hotel	فندق هاف مون بيتش
King Abdullah security project KAP2-C	مركز الملك عبدالله للمقرات الأمنية	Winter Land	ونتر لاند - الهيئة العامة للترفيه	MOH - PHC	وزارة الصحة - الرعاية الصحية الأولى	Hyat Regency Hotel	فندق حياة ريجنسي
King Abdullah security project KAP4	مركز الملك عبدالله للمقرات الأمنية	City Walk Jeddah	سيني ووك جدة - الهيئة العامة للترفيه	Qasem University Hospital	مستشفى جامعة القصيم	Hilton Garden in Hotel	هيلتون جاردن
Royal Commission for Riyadh City (RCRC)	الهيئة الملكية لمدينة الرياض	Nuclear and Radiological Regulatory	هيئة الوقاية النووية والإشعاعية	Riyadh Metro	مترو الرياض	Park Inn - Jeddah	فندق بارك ان - جدة
Security Force Medical Center (SFMC)	المركز الطبي لقوات الأمن	ARAR AIRPORT	مطار عرعر	General Commission for Survey - Phase 3 & 2	الهيئة العامة للمساحة	Park Inn hotel - JRIYADH	فندق بارك ان - الرياض
200 BED HOSPITAL - TABUK	مستشفى ٢٠٠ سرير - تبوك	VSAT BACKUP HUB FOR SCECO	الهيئة السعودية للكهرباء	General Directorate for Health Affairs	المديرية العامة للشؤون الصحية	Narsis Buder Hotel	فندق ناريسيس بوديل
Hajj Command and Holly Capital Project	مشروع قيادة الحج	National Water Commission (NWC)	الهيئة الوطنية للمياه (NWC)	MOI CCTV Project	مشروع كاميرات المراقبة لوزارة الداخلية	Makan Hotel	فندق مكان
King Salman Hospital	مستشفى الملك سلمان	World Trade Center - WTC	مركز الملك عبدالله المالي	E - learning Project - Tatweer - School Project	مشروع التعليم الإلكتروني	MUNICIPALITY OF MEDINA	بلدية المدينة المنورة
Marriott Executive Apartment	فندق شقق الماريوت التنفيذية	ISLAMIC University	الجامعة الإسلامية	Royal Saudi Navy Force - RSNF	القوة البحرية الملكية السعودية	Tabuk Emirate	إمارة تبوك
South Border Guards Housing	إسكان الحدود الجنوبية	Samsung C&T	سامسونج - رابغ	Saudi Electronic University	الجامعة السعودية الإلكترونية	MUNICIPALITY OF TAIF	بلدية الطائف
AL SALAM PALACE	قصر السلام	AL ULA University	جامعة العلا - جامعة طبية	Royal Saudi Air Force - RSAF	القوات الجوية الملكية السعودية	Eastern Province Emirate	إمارة المنطقة الشرقية
King Abdulla Finance District - KAFD	مركز الملك عبدالله المالي	Imam Moh'd University	جامعة الإمام محمد	Strategic Missile Force - SMF	قوة الصواريخ الاستراتيجية	Security Development and Planning Agency	وكالة التطوير والتخطيط الأمني
Jeddah Islamic Port	ميناء جدة الإسلامي	Prince Satam University	جامعة الأمير سطام	SAIC - RSAF PROJECT - USA	مشروع القوات الجوية الملكية - الولايات المتحدة الأمريكية	Royal Private Affairs	قصور ملكية
Ministry of Municipal and Rural Affairs	وزارة الشؤون البلدية والقروية	Al - Jouf University	جامعة الجوف	King Abdul Aziz Center National Dialogue	مركز الملك عبد العزيز للحوار الوطني	VSAT -COGS	في سات
Building of Secretary of the GCC	مبنى الأمين العام لمجلس التعاون	Hafar Al-Batin University	جامعة حفر الباطن	National Center for Technology Electrical Energy Systems	المركز الوطني لتكنولوجيا أنظمة الطاقة الكهربائية	Technical and Vocational Training Corporation	المؤسسة العامة للتدريب التقني والمهني
Radusson Blue Hotel	فندق راديسون بلو	Taima & Hakel University	جامعة تيماء وحقل	Qassim Emirates	إمارة القصيم	MIFON Project Phase 3	المرحلة 3 MIFON مشروع
National Water Commission (NWC)	الهيئة الوطنية للمياه (NWC)	Hakel University	جامعة حائل	SOIETZ Saudi Organization for Industry	الهيئة السعودية للمدن الصناعية	King Abdullah University Hospital	مستشفى جامعة الملك عبد الله بن عبد العزيز





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