

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 19" OUTDOOR IP RACK CABINETS FREE STAND



## GAMMA 19" OUTDOOR IP RACK CABINETS FREE STAND

### ◆ Standard Dimensions :

Height : 6U / 9U/ 12U/ 15U/ 18U/ 21U

Width : 600 /800 mm

Depth : 600 /800 mm

### ◆ Standard Colour :

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
- IP66 Protected
- MADE IN KSA



## ◆ GAMMA NEW GENERATION SECURITY OUTDOOR CABINET – IP PROTECTION

### ➤ Gamma Outdoor General Features :

**1- Security Cabinet:** GAMMA Security Cabinets with Pole mount version enable protecting your valuable and sensitive equipment's with its unique design. It is well protected against rain, snow, wind, sun radiation With its perfect resistance against to corrosion, protects your technological investments against environmental effects. Overall, between the inner and outer skin there is an Optional isolation rubber material or Aluminium foil to prevent skin heat to go inside cabinet

**2- Cabinet Structure:** Structure made from Galvanized steel material, with high corrosion resistance and polyester outdoor electrostatic Powder Coated painting through fully Automated 6 stages pretreatment Powder coating line with Robotic spraying Guns

**3- Filter and Fan System:** The cabinet has a replaceable 1 or 2 filter housing with Canopy at right side , which eliminates water and dust entry while allowing fresh air entry to the cabinet. The left side of the cabinet is equipped with 1 or 2 fan with filters. The Single cycle fan system allows fresh air entry from right side and discharge from left side accumulated heat from the ventilation filters back of the fans .

**4- Rain Canopy** at top of the cabinet for double protection from rain

**5- Painting:** Outdoor style polyester paint through fully Automated 6 stages pretreatment Powder coating line with Robotic spraying Guns applied to resist environmental corrosive effects. It also resists to sun radiation. Standard applied colour is RAL7035 Light Grey.

**6- Optional Sunshade** 50 mm – 100 mm sunshade over the rain canopy for more heat reduction in case of direct sun all day to eliminate direct heat of cabinet skin

**7- Front Door Structure and Lock System:** Hidden 3 hinge, fixed on front door and 1 or 2 key lock depend on cabinet size . With gasket, the front door provides maximum safety and sealing when the door is closed.. It has a sealing gasket structure, provides excellent IP protection even cold / hot weather condition.

**8- Mounting Plate or 19" :** Pair of 19" Pillars or MP are provided according to customer

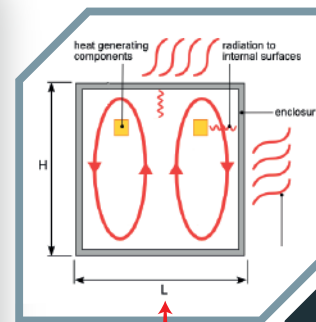
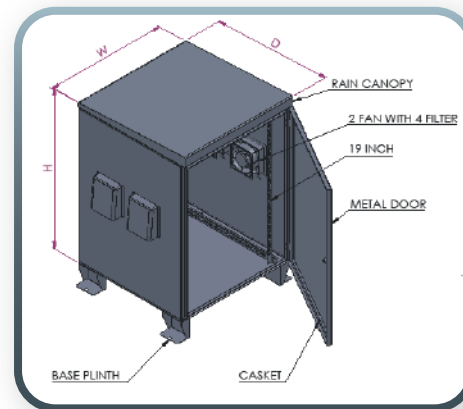
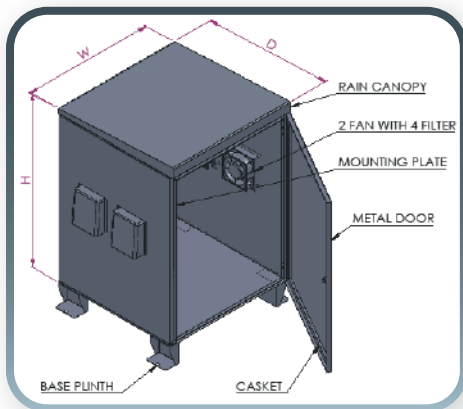
**9- Optional isolated Skin Structure:** Isolated Skin protects the equipment's inside cabinet from external effects, and harsh environmental conditions.



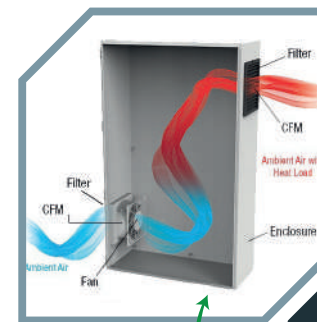
## GAMMA NET OUTDOOR IP RATED 19" Floor Stand Metal Enclosures

| Part Number         | Standard Description ( W X H X D ) mm                                                                | Depth (D) |
|---------------------|------------------------------------------------------------------------------------------------------|-----------|
| GMC-OD-FR-6U-66-1F  | 6U Free Stand steel enclosures size 600X600 1 door IP 65 with 4 19 inch Pillars -Plinth 50 mm -1 Fan | 600       |
| GMC-OD-FR-6U-68-1F  | 6U Free Stand steel enclosures size 600X800 1 door IP 65 with 4 19 inch Pillars -Plinth 50 mm-1 Fan  | 800       |
| GMC-OD-FR-9U-66-1F  | 9U Free Stand steel enclosures size 600X600 1 door IP 65 with 4 19 inch Pillars -Plinth 50 mm-1 Fan  | 600       |
| GMC-OD-FR-9U-68-1F  | 9U Free Stand steel enclosures size 600X800 1 door IP 65 with 4 19 inch Pillars -Plinth 50 mm-1 Fan  | 800       |
| GMC-OD-FR-12U-66-1F | 12U Free Stand steel enclosures size 600X600 1 door IP 65 with 4 19 inch Pillars -Plinth 50 mm-1 Fan | 600       |
| GMC-OD-FR-12U-68-1F | 12U Free Stand steel enclosures size 600X800 1 door IP 65 with 4 19 inch Pillars-Plinth 50 mm-1 Fan  | 800       |
| GMC-OD-FR-15U-66-1F | 15U Free Stand steel enclosures size 600X600 1 door IP 65 with 4 19 inch Pillars -Plinth 50 mm-1 Fan | 600       |
| GMC-OD-FR-15U-68-2F | 15U Free Stand steel enclosures size 600X800 1 door IP 65 with 4 19 inch Pillars-Plinth 50 mm-2 Fan  | 800       |
| GMC-OD-FR-21U-66-2F | 21U Free Stand steel enclosures size 600X600 1 door IP 65 with 4 19 inch Pillars -Plinth 50 mm-2 Fan | 600       |
| GMC-OD-FR-21U-68-2F | 21U Free Stand steel enclosures size 600X800 1 door IP 65 with 4 19 inch Pillars -Plinth 50 mm-2 Fan | 800       |
| GMC-OD-FR-21U-88-2F | 21U Free Stand steel enclosures size 800X800 1 door IP 65 with 4 19 inch Pillars -Plinth 50 mm-2 Fan | 800       |

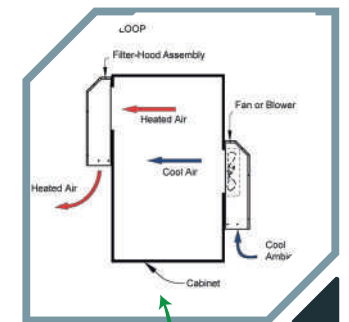
OTHER SIZES AVAILABLE ON REQUEST



Enclosure without FAN



Enclosure with FAN



## GAMMA CABINETS MANUFACTURED ACCORDING EIA-310 E , ETSI SPECIFICATIONS

Gamma Data Cabinets Fit all 19" Equipments

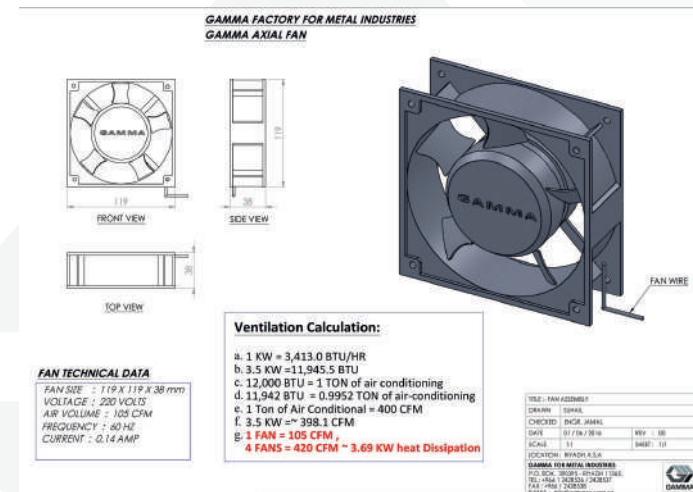
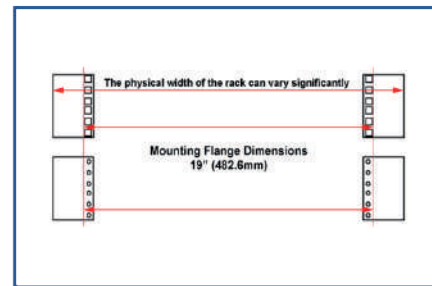
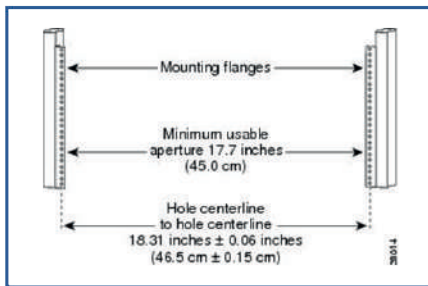
## GAMMA NET AXIAL FAN DATA SHEET

### GAMMA Ventilation Fan Calculation:

GAMMA Ventilation Calculation as below clarifications:

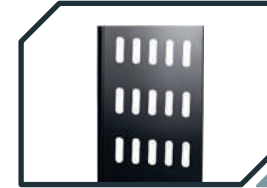
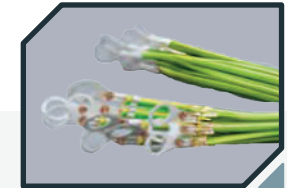
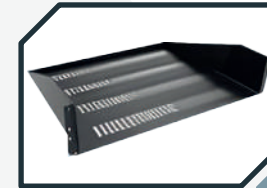
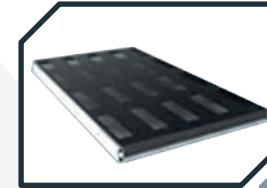
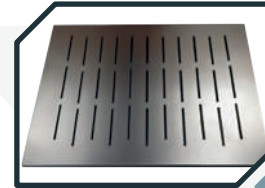
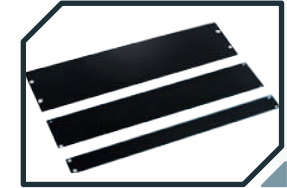
- a. 1 KW = 3,413.0 BTU/HR
- b. 3.5 KW = 11,945.5 BTU
- c. 12,000 BTU = 1 TON of air conditioning
- d. 11,942 BTU = 0.9952 TON of air-conditioning
- e. 1 Ton of Air Conditional = 400 CFM
- f. 3.5 KW = ~398.1 CFM
- g. 1 FAN = 105 CFM, 4 FANS = 420 CFM ~ 3.69 KW heat Dissipation

*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



## 08



## 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                       | البوليفرد - 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 جده - 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 - جده                        |
| 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 - KAFC    | 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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