

DATA SHEET

RKT-P SERIES

RAK-IT PLUS CABINETS

TECHNICAL SUPPORT AT 00800.2255.2269 OR VISIT BLACKBOX.EU



BLACK BOX

OVERVIEW

RAK-IT PLUS CABINETS DATA SHEET

INTRODUCTION

The RAK-IT Plus is one of the premium ranges of cabinets from Black Box. Smart design and state-of-the-art manufacturing facilities guarantees unbeatable quality, style and innovation:

FEATURES

- AVAILABLE IN DATA AND SERVER CABINET CONFIGURATIONS
- 1500 KG LOAD BEARING
- 500 KG DYNAMIC LOAD
- 5 HEIGHTS, 2 WIDTHS, 4 DEPTHS AS STANDARD
- RIGID BOLTED CONSTRUCTION
- SUPERIOR VENTING STANDARD AIRTECH DOOR WITH 80% AIRFLOW
- SUPERIOR VENTING AIRTECH V DOOR OPTION WITH 86% AIRFLOW
- MULTI-DEPTH MOUNTING
- MULTI-CABLE ACCESS THROUGH TOP AND BASE
- QUICK RELEASE CLADDING
- LEFT OR RIGHT HAND HINGED DOORS
- LOCKABLE SIDE PANELS
- HOUSES ALL MAJOR SERVER BRANDS
- COLDLOGIK COMPLIANT

COMPARISON CHART

SPECIFICATION COMPARISON CHART					
	24U	30U	36U	42U	48U
HEIGHT	1200 MM	1466 MM	1733 MM	1999 MM	2266 MM
AVAILABLE WIDTHS	600 MM, 800 MM	600 MM, 800 MM	600 MM, 800 MM	600 MM, 800 MM	600 MM, 800 MM
AVAILABLE DEPTHS FOOTPRINT	600, 800, 1000, 1200 MM	600, 800, 1000, 1200 MM	600, 800, 1000, 1200 MM	600, 800, 1000, 1200 MM	600, 800, 1000, 1200 MM
AVAILABLE DEPTHS FOOTPRINT WITH CLADDING	660, 860, 1060, 1260 MM	660, 860, 1060, 1260 MM	660, 860, 1060, 1260 MM	660, 860, 1060, 1260 MM	660, 860, 1060, 1260 MM

NOTE: The Cabinets are manufactured to IEC 60297-3 and EIA STD 310 standards for panels and racks housing electronic equipment.

DIAGRAM/SPECIFICATIONS

RAK-IT PLUS CABINETS DATA SHEET BREAKOUT DIAGRAM

DESCRIPTION

The cabinets consist of four corner posts, top and bottom end frame, depth support rails, front and rear 19" mounting angles, swing handle lockable front and rear door (available in a combination of options, lockable side panels, top cover with knock out blanks for cable entry and a set of four transport casters (not load bearing).

CONSTRUCTION

Frame: 1.2-mm and 1.5-mm CR4 steel

AirTech, glass and steel doors: 1.0-, 1.2-, and 2.0-mm CR4 steel, 4.0-mm toughened clear glass

Side panels: 1.0- and 1.2-mm CR4 steel

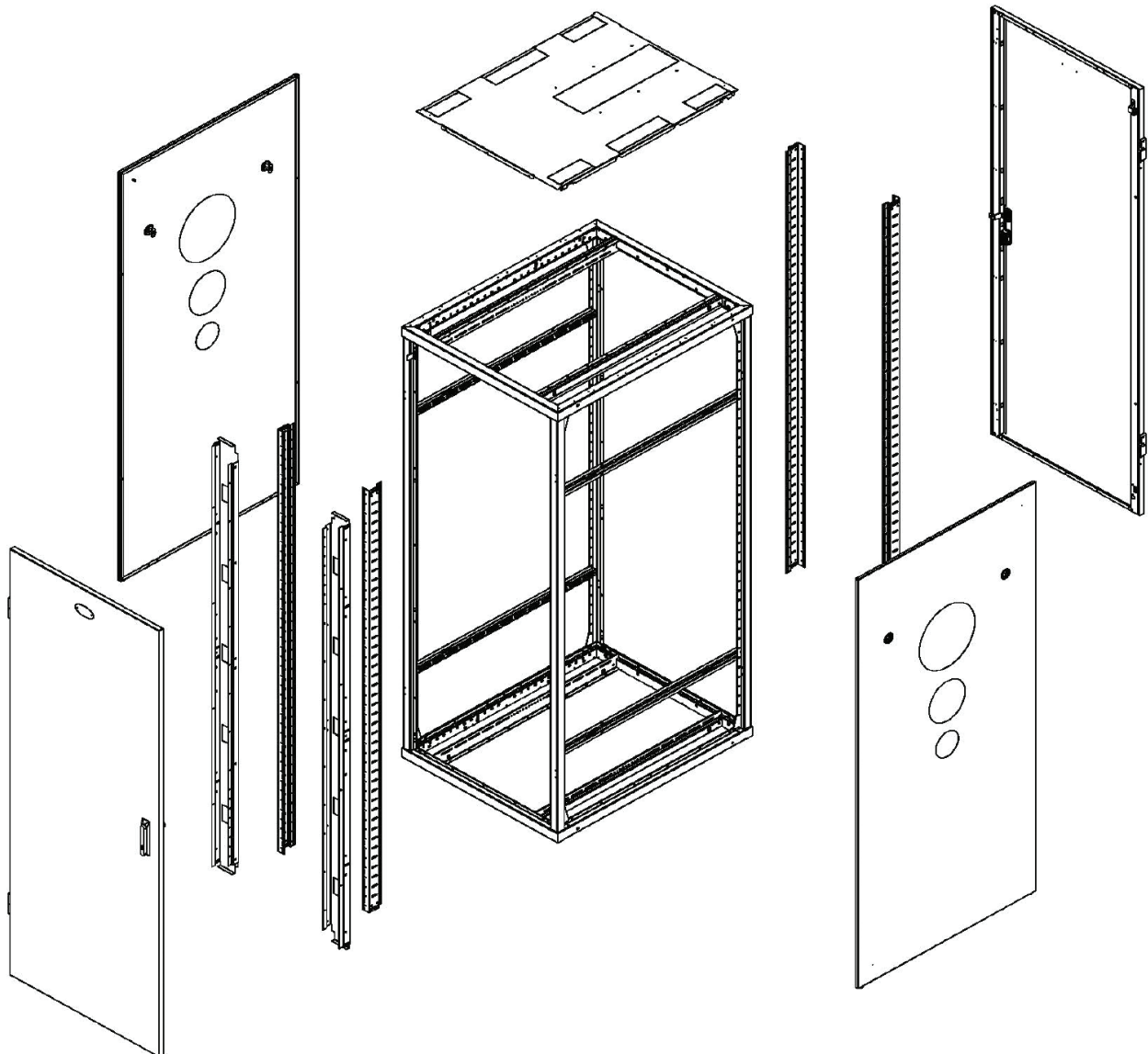
Top cover: 1.2-mm CR4 steel

Depth support rails: 1.5-mm CR4 steel

Mounting angles: 2.0-mm CR4 steel

Infills for 800-mm wide cabinet: 1.5-mm CR4 steel

Finish: Black RAL 9005 Standard Polyester semi gloss powder coat

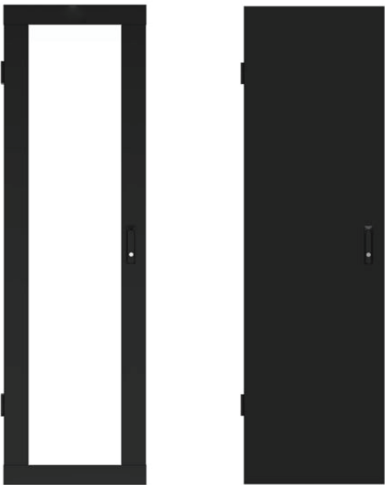


DOOR AND LOCKING OPTIONS

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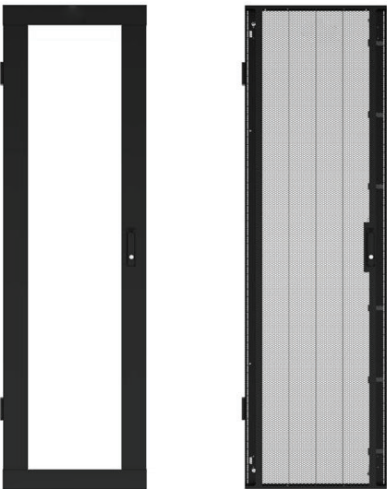
Curved and perforated doors



Glass vented and solid doors



Perforated doors



Glass vented and perforated doors



Single point swing handle as standard



Combination key override swing handle (four point locking and six point on wardrobe doors)



Proximity smart card/ fob reader



MIFARE



Keypad

Electronic intelligent locking with various readers and styles

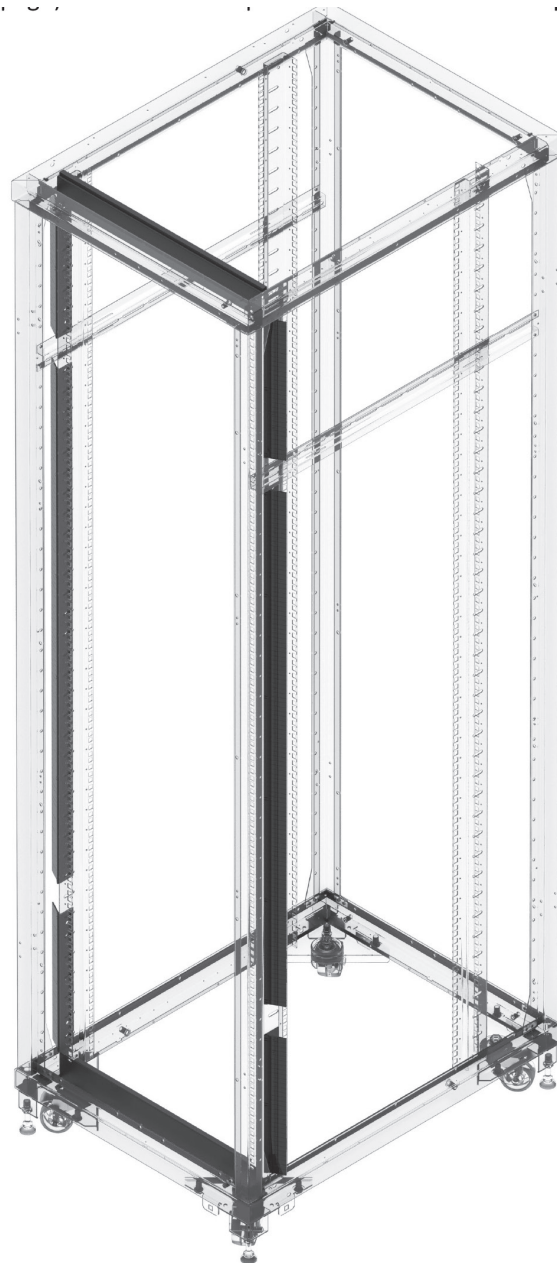
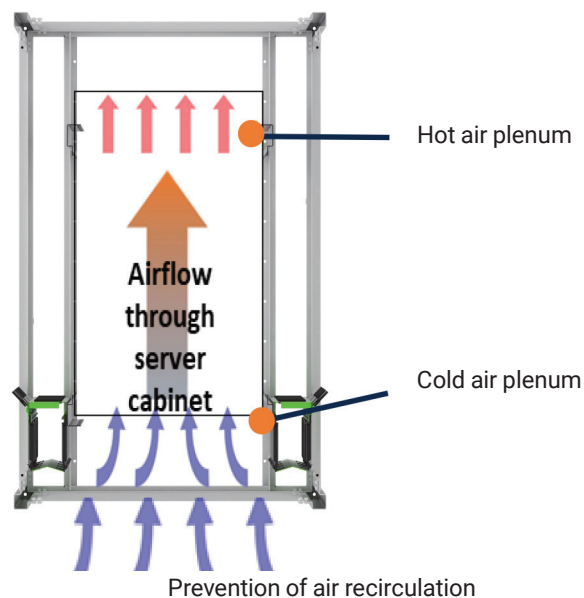


ANTI-AIR RECIRCULATING KIT

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DESCRIPTION

It is universally understood that preventing hot air recirculating internally from the back of the rack has many benefits, including prevention of hot spots and a reduction in energy consumption. The optional anti-air recirculation kit has a vertical brush strip on each side of the 19" mounting angles and two horizontal blanking panels above and below the 19" mounting angles. To help achieve best practices, fit blanking panels into unused U spaces within the rack to help minimize hot air recirculation.



Enhanced airflow management can be achieved with the addition of brush strip sealing kits that create a seal to prevent hot air re-circulating to the front 19" plenum.

THERMAL MANAGEMENT AND SHELVING

RAK-IT PLUS CABINETS DATA SHEET

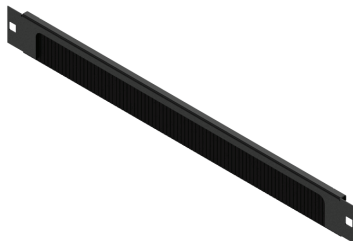
THERMAL MANAGEMENT

BLANK PANELS



Fitting 19" blanking or blank panels (and deploying rack air anti-recirculation kits) helps to avoid air mixing and recirculation within the rack space which in turn helps to maximize the cooling infrastructure effectiveness by delivering cool air to the equipment and not allowing it to bypass through empty U spaces.

BRUSH PANEL



19" blanking panel with brush strip enables cable entry without compromising air flow management.

TOP COVER FAN TRAY



Retrofittable zero U top cover fan trays remove heat from cabinet and can be thermostatically controlled if required.

SHELVING

ADJUSTABLE SHELF



Adjustable shelves with maximum load bearing of 100 kg adjust to suit rail depths 450 mm to 750 mm, 650 mm to 950 mm.

CANTILEVER SHELF



Easy-to-fit shelving solution is suitable for mounting non 19" equipment. Mount directly to the 19" mounting angles with cage nut fixings (included).

CHASSIS RUNNER



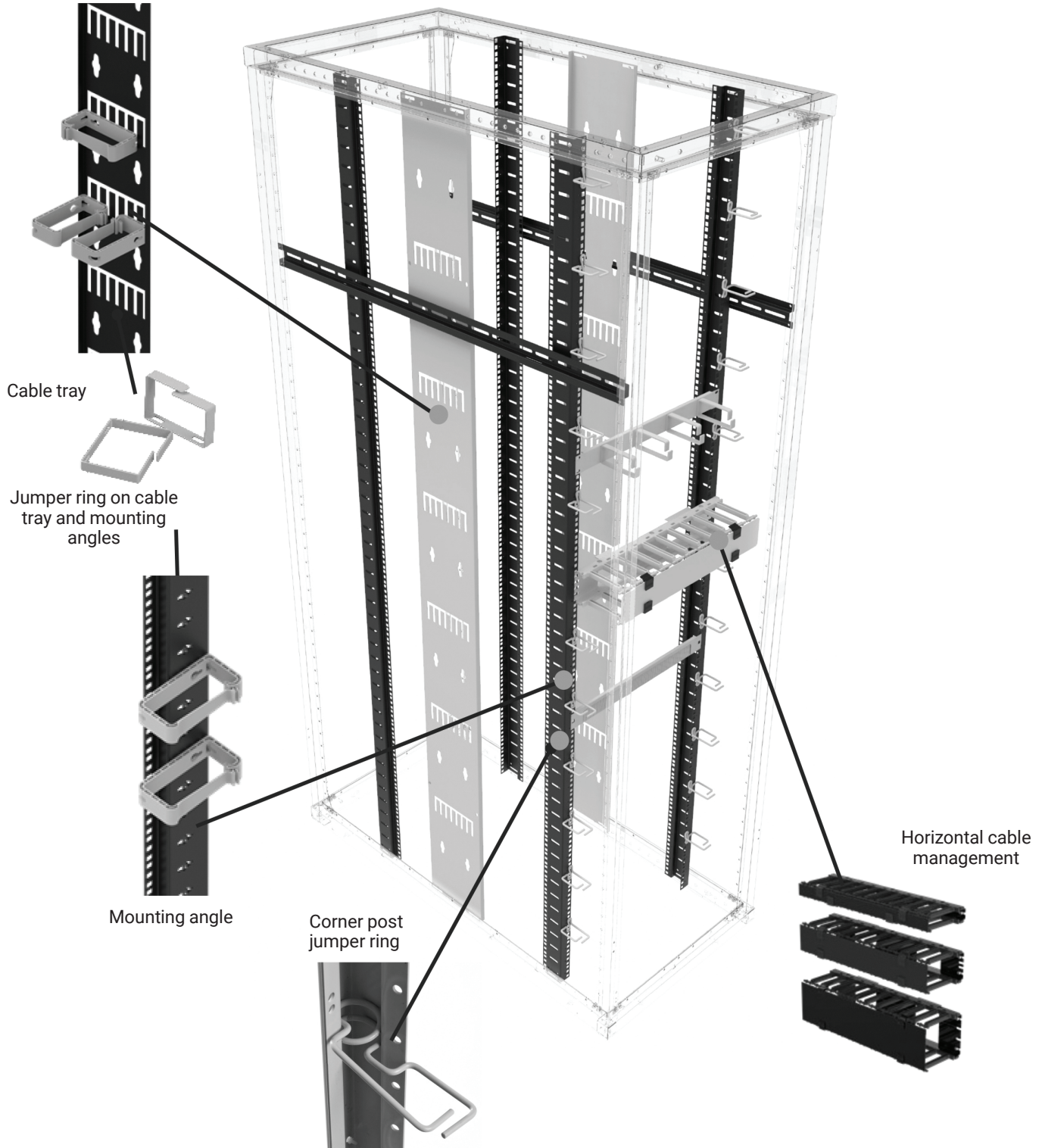
Simple and cost-effective alternative to cantilever and fixed shelving. Easy-to-fit and allows you to support and withdraw full-width products safely.

CABLE MANAGEMENT

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600-MM WIDE DATA CABINET

Vertical cable management option



CABLE MANAGEMENT (CONTINUED)

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800-MM WIDE DATA CABINET

Front to rear cable troughs
for 800-mm wide cabinets only

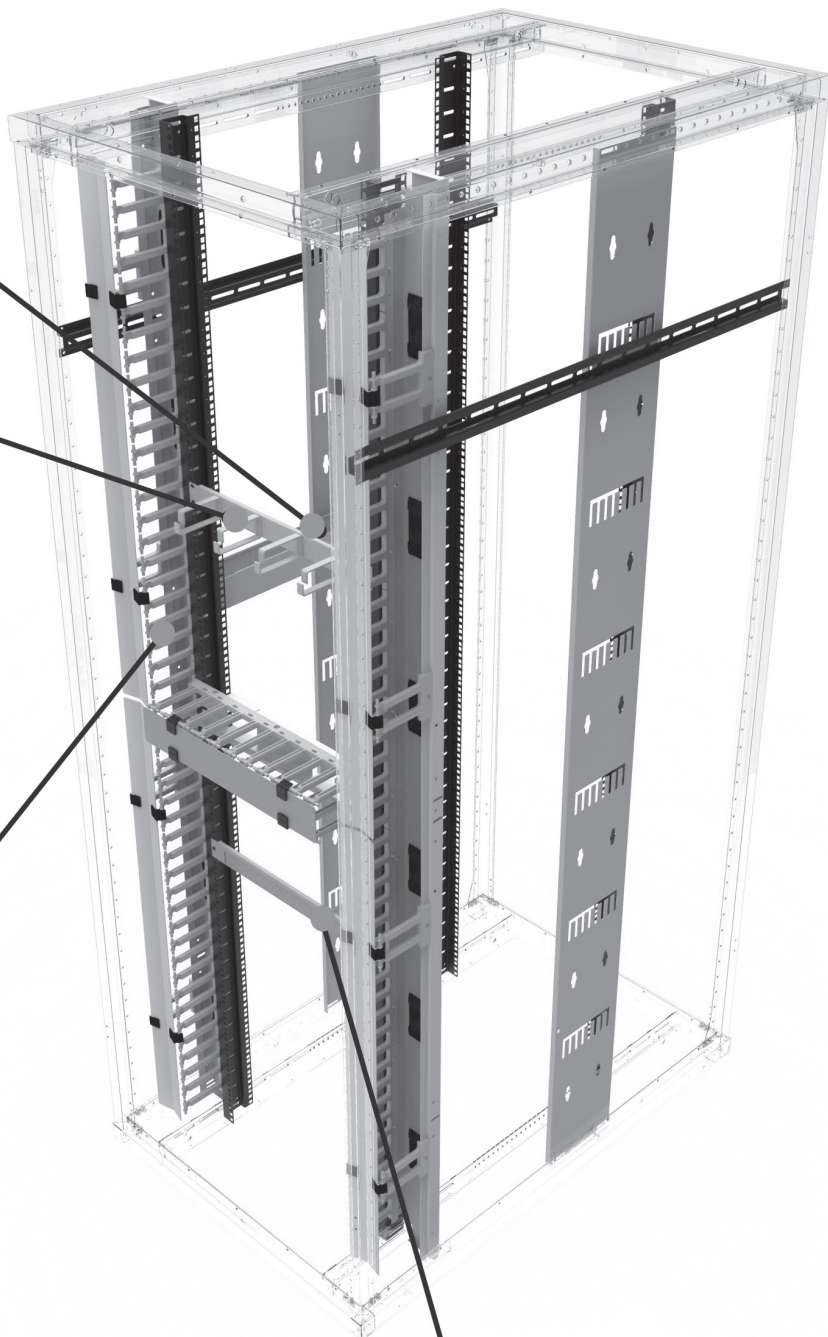


4 loop jumper ring panel

Vertical cable fingers
with open hinged cover



Versatile jumper ring that can be
mounted in a multitude of useful
positions within the rack, for example
on the front or sides of the 19" rails
and on the vertical cable trays.



19" brush strip panel

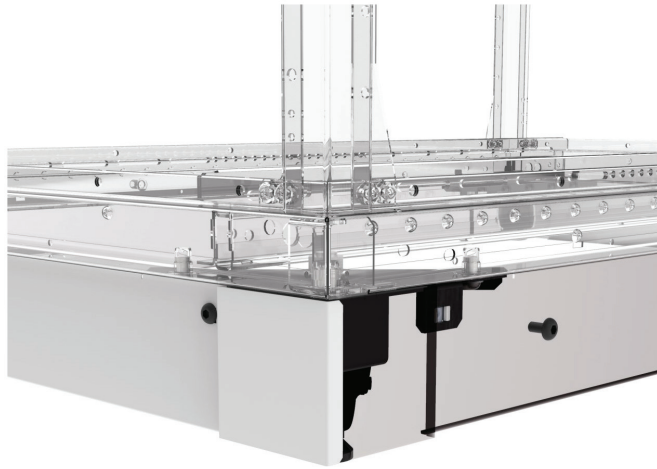


19" blanking panel with brush strip enabling cable entry
without compromising air flow management.

CASTERS, FEET, AND PLINTHS

RAK-IT PLUS CABINETS DATA SHEET

FIXED PLINTH



Plinth kits are designed to help close off the gap between the rack and the floor for racks with casters/leveling feet fitted. These kits have a pair of front and rear kick plates and side kick plates and fitting these adds to the efficient use of air and to the aesthetics of the rack when on casters/leveling feet by hiding the incoming services into the rack base. These are not load-bearing plinths.

CASTERS WITH LEVELING FEET



WITH CASTERS AND LEVELING FEET



LEVELING FEET



These caster kits allow for the movement of the RAK-IT PLUS Cabinet with a total mass of 500 kg. The base-adjustable foot kits allow the cabinets to be leveled on an uneven floor surface.

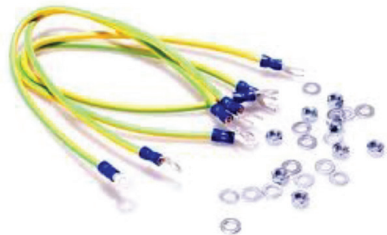
Cabinet leveling feet have a weight loading of 300 kg

GROUNDING (EARTHING) AND POWER

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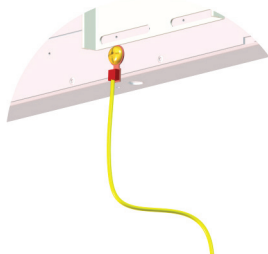
GROUNDING

EARTH BONDING KIT



Standard cladding or wardrobe door earth bonding kit

CLEAN EARTH



COPPER BUS BAR



Horizontal and vertical 3-mm and 5-mm thick solid copper options. Clearance holes for M6 fasteners.

ESD KIT



Consists of M6 stud, wrist band, and grounding cable

POWER

POWER DISTRIBUTION UNITS



Broad range of standard models ranging from 4- to 16-way configurations 13-amp, IEC, 16-amp, 32-amp, and specials

INTELLIGENT POWER



Full range of build configurations from overall power monitoring to link legacy interface units, remote monitoring, and control

UNINTERRUPTIBLE POWER SUPPLIES



Monitors power conditions constantly maintaining and regulating voltage and frequency. Up to 95% efficiency in online double conversion mode and 98% in high-efficiency mode

ORDERING INFORMATION

PART NUMBER	SERVER OR DATA	DIMENSIONS	DOOR DESIGN
RAK-IT PLUS Cabinets			
RKT-P36810V	Server Cabinet	36U, 800(W) x 1000(D) mm	Glass Vented / Perforated Doors
RKT-P42610V	Server Cabinet	42U, 600(W) x 1000(D) mm	Glass Vented / Perforated Doors
RKT-P42612V	Server Cabinet	42U, 600(W) x 1200(D) mm	Glass Vented / Perforated Doors
RKT-P42812V	Server Cabinet	42U, 800(W) x 1200(D) mm	Glass Vented / Perforated Doors
RKT-P48610V	Server Cabinet	48U, 600(W) x 1000(D) mm	Glass Vented / Perforated Doors
RKT-P48612V	Server Cabinet	48U, 600(W) x 1200(D) mm	Glass Vented / Perforated Doors
RKT-P48810V	Server Cabinet	48U, 800(W) x 1000(D) mm	Glass Vented / Perforated Doors
RKT-P48812V	Server Cabinet	48U, 800(W) x 1200(D) mm	Glass Vented / Perforated Doors
RKT-P2486G	Data Cabinet	24U, 800(W) x 600(D) mm	Glass Vented / Solid Steel Doors
RKT-P2488G	Data Cabinet	24U, 800(W) x 800(D) mm	Glass Vented / Solid Steel Doors
RKT-P3066G	Data Cabinet	30U, 600(W) x 600(D) mm	Glass Vented / Solid Steel Doors
RKT-P3068G	Data Cabinet	30U, 600(W) x 800(D) mm	Glass Vented / Solid Steel Doors
RKT-P3086G	Data Cabinet	30U, 800(W) x 600(D) mm	Glass Vented / Solid Steel Doors
RKT-P3088G	Data Cabinet	30U, 800(W) x 800(D) mm	Glass Vented / Solid Steel Doors
RKT-P3666G	Data Cabinet	36U, 600(W) x 600(D) mm	Glass Vented / Solid Steel Doors
RKT-P3668G	Data Cabinet	36U, 600(W) x 800(D) mm	Glass Vented / Solid Steel Doors
RKT-P3686G	Data Cabinet	36U, 800(W) x 600(D) mm	Glass Vented / Solid Steel Doors
RKT-P4266G	Data Cabinet	42U, 600(W) x 600(D) mm	Glass Vented / Solid Steel Doors
RKT-P4268G	Data Cabinet	42U, 600(W) x 800(D) mm	Glass Vented / Solid Steel Doors
RKT-P4286G	Data Cabinet	42U, 800(W) x 600(D) mm	Glass Vented / Solid Steel Doors
RKT-P4866G	Data Cabinet	48U, 600(W) x 600(D) mm	Glass Vented / Solid Steel Doors
RKT-P4886G	Data Cabinet	48U, 800(W) x 600(D) mm	Glass Vented / Solid Steel Doors
RKT-P4888G	Data Cabinet	48U, 800(W) x 800(D) mm	Glass Vented / Solid Steel Doors
RKT-P42610C	Server Cabinet	42U, 600(W) x 1000(D) mm	Steel Curve Perforated Front / Perforated Rear Door
RKT-P42612C	Server Cabinet	42U, 600(W) x 1200(D) mm	Steel Curve Perforated Front / Perforated Rear Door
RKT-P42812C	Server Cabinet	42U, 800(W) x 1200(D) mm	Steel Curve Perforated Front / Perforated Rear Door
RKT-P48610C	Server Cabinet	48U, 600(W) x 1000(D) mm	Steel Curve Perforated Front / Perforated Rear Door
RKT-P48612C	Server Cabinet	48U, 600(W) x 1200(D) mm	Steel Curve Perforated Front / Perforated Rear Door
RKT-P48810C	Server Cabinet	48U, 800(W) x 1000(D) mm	Steel Curve Perforated Front / Perforated Rear Door
RKT-P48812C	Server Cabinet	48U, 800(W) x 1200(D) mm	Steel Curve Perforated Front / Perforated Rear Door
RKT-P24610P	Server Cabinet	24U, 600(W) x 1000(D) mm	Steel Perforated Doors
RKT-P2466P	Data Cabinet	24U, 600(W) x 600(D) mm	Steel Perforated Doors
RKT-P2468P	Data Cabinet	24U, 600(W) x 800(D) mm	Steel Perforated Doors
RKT-P2486P	Data Cabinet	24U, 800(W) x 600(D) mm	Steel Perforated Doors
RKT-P30610P	Server Cabinet	30U, 600(W) x 1000(D) mm	Steel Perforated Doors
RKT-P3066P	Data Cabinet	30U, 600(W) x 600(D) mm	Steel Perforated Doors
RKT-P3068P	Data Cabinet	30U, 600(W) x 800(D) mm	Steel Perforated Doors
RKT-P3086P	Data Cabinet	30U, 800(W) x 600(D) mm	Steel Perforated Doors
RKT-P3088P	Data Cabinet	30U, 800(W) x 800(D) mm	Steel Perforated Doors
RKT-P36610P	Server Cabinet	36U, 600(W) x 1000(D) mm	Steel Perforated Doors
RKT-P36810P	Server Cabinet	36U, 800(W) x 1000(D) mm	Steel Perforated Doors
RKT-P3686P	Data Cabinet	36U, 800(W) x 600(D) mm	Steel Perforated Doors
RKT-P3688P	Data Cabinet	36U, 800(W) x 800(D) mm	Steel Perforated Doors

ORDERING INFORMATION (CONTINUED)

PART NUMBER	SERVER OR DATA	DIMENSIONS	DOOR DESIGN
RAK-IT PLUS Cabinets (continued)			
RKT-P42610P	Server Cabinet	42U, 600(W) x 1000(D) mm	Steel Perforated Doors
RKT-P42610P-B	n/a	42U, 600(W) x 1000(D) mm	Steel Perforated Doors
RKT-P42612P	Server Cabinet	42U, 600(W) x 1200(D) mm	Steel Perforated Doors
RKT-P4266P	Data Cabinet	42U, 600(W) x 600(D) mm	Steel Perforated Doors
RKT-P4268P	Data Cabinet	42U, 600(W) x 800(D) mm	Steel Perforated Doors
RKT-P42812P	Server Cabinet	42U, 800(W) x 1200(D) mm	Steel Perforated Doors
RKT-P4286P	Data Cabinet	42U, 800(W) x 600(D) mm	Steel Perforated Doors
RKT-P48610P	Server Cabinet	48U, 600(W) x 1000(D) mm	Steel Perforated Doors
RKT-P4868P	Data Cabinet	48U, 600(W) x 800(D) mm	Steel Perforated Doors
RKT-P48810P	Server Cabinet	48U, 800(W) x 1000(D) mm	Steel Perforated Doors
RKT-P48812P	Server Cabinet	48U, 800(W) x 1200(D) mm	Steel Perforated Doors
RKT-P4886P	Data Cabinet	48U, 800(W) x 600(D) mm	Steel Perforated Doors
RKT-P4888P	Data Cabinet	48U, 800(W) x 800(D) mm	Steel Perforated Doors

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Black Box is a world leading technology solutions provider specializing in complete high-performance KVM, professional A/V signal distribution and extension and switching solutions for mission-critical applications. Black Box is dedicated to delivering superior project engineering, technical support, and 24/7 customer service you can rely on for your most critical operations.

Every day, our customers trust us to design, integrate, and maintain reliable control room solutions for broadcasting, post-production, stadiums & arenas, medical, air traffic control, oil & gas, government & military, and utility industries. Leave the tech to us and our comprehensive technology solutions will deliver secure connections, fast-response times, real-time collaboration and more.

