# Shopping basket
# IT cabinets

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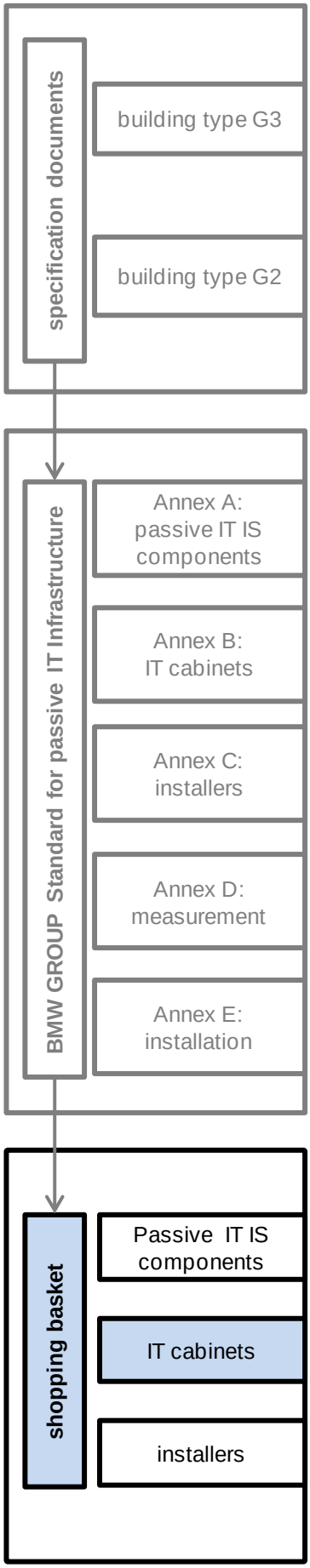

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# 1 General information

For the structured IT cabling to meet the stringent availability and quality requirements in this area, too, only closed and open IT cabinets may be installed that are approved by the **BMW Group IT IS Function Data-Centers (Rechenzentren)** at the time of implementation.

**Please refer to the B2B portal of the BMW Group or the BMW Group IT intranet and the present "Shopping Basket IT cabinet" for a list of currently approved IT cabinets.**

A distinction is made between the following areas of application and IT cabinets:

- IT cabinet active-open for FD rooms and NCC
- IT cabinet active-open for BD rooms
- IT cabinet passive-open for FD, BD rooms and NCC
- IT cabinet as FD for production environment (IP54)
    - IT cabinet active-closed with fitted cooling unit
    - IT cabinet passive-closed (assembled side by side with IT cabinet active-closed)
- IT cabinet for data centre
    - IT cabinet for server
    - IT cabinet active SFE (SFE = Scalability Flexibility Economy)
    - IT cabinet passive SFE

**The Shopping Basket IT cabinet of the BMW Group refers to further documents that must also be taken into account in the planning process as amended:**

- **BMW Group Standard for passive IT infrastructure**
    - **Annex B: Requirements to be met by IT cabinets**
- **BMW Group Standard for passive IT infrastructure**
    - **Annex E: Requirements to be met by installation**

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## 2 Overview of IT cabinets

| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet active-open for FD rooms and NCC (Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3000208** |
| **IT cabinet active-open for FD rooms and NCC (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **H200 x W800 x D1,200 mm** | **RAL 7035** | **01.133.690.0000108** |
| | | | | |
| **IT cabinet active-open for BD rooms (Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3000220** |
| **IT cabinet active-open for BD rooms (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **H200 x W800 x D1,200 mm** | **RAL 7035** | **01.133.690.0000119** |
| | | | | |
| **IT cabinet passive-open for FD, BD rooms and NCC (Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3000190** |
| **IT cabinet passive-open for FD, BD rooms and NCC (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **H200 x W800 x D1,200 mm** | **RAL 7035** | **01.133.690.0000112** |
| | | | | |
| **IT cabinet active-closed with integrated cooling unit (Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3000206** |
| | ***Cooling power 3,000 W*** | ***Voltage: 230V/1/ 50–60Hz*** | ***Weight: 44kg*** | ***03.032.333.1000003*** |
| **IT cabinet passive-closed (mounted side, Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3000194** |

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| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet active-closed with integrated cooling unit (Depth: 1,200 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.133.690.0000106** |
| | ***Cooling power 3,000 W*** | ***Voltage: 230V/1/ 50–60Hz*** | ***Weight: 44kg*** | ***03.032.333.1000003*** |
| **IT cabinet passive-closed (mounted side, Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **H200 x W800 x D1,200 mm** | **RAL 7035** | **01.133.690.0000110** |
| | | | | |
| **IT cabinet for server (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **---** | **RAL 7035** | **01.128.316.1000206** |
| | | | | |
| **IT cabinet active SFE (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **---** | **RAL 7035** | **01.133.690.0.000088** |
| **IT cabinet passive SFE (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **---** | **RAL 7035** | **01.133.690.000090** |

**PLEASE NOTE:**

**For orders for the plant BMW Leipzig, IT cabinets with special paint (RAL 9001) must be requested from the supplier (for example, VERTIV).**

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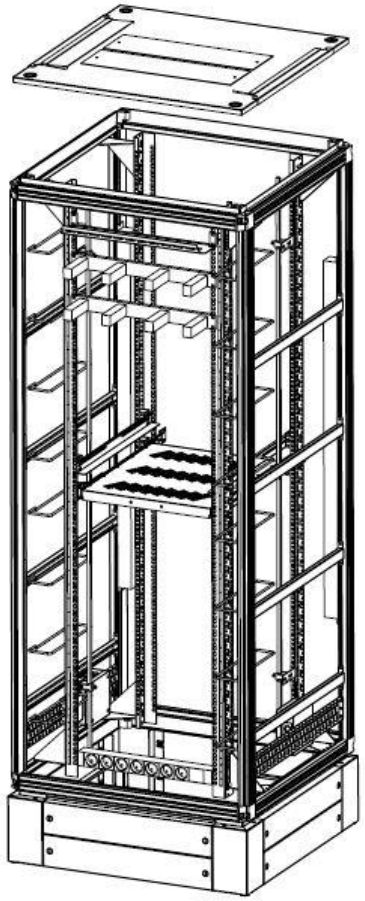
# 3 IT cabinet active-open for FD rooms and NCC (Depth: 800mm and 1,200mm)

**Application:**

- Use in floor distributors (FD) and network control centre (NCC)
- Open version for installation within IT rooms
- "IT cabinet active-open for FD rooms and NCC" for accommodating active IT IS components, including the fibre optic patch panels (active design) required for connection
  and, if required, additional passive IT IS components (combined version)



(Source: VERTIV)

| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet active-open for FD rooms and NCC (Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3000208** |
| **IT cabinet active-open for FD rooms and NCC (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **H200 x W800 x D1,200 mm** | **RAL 7035** | **01.133.690.0000108** |

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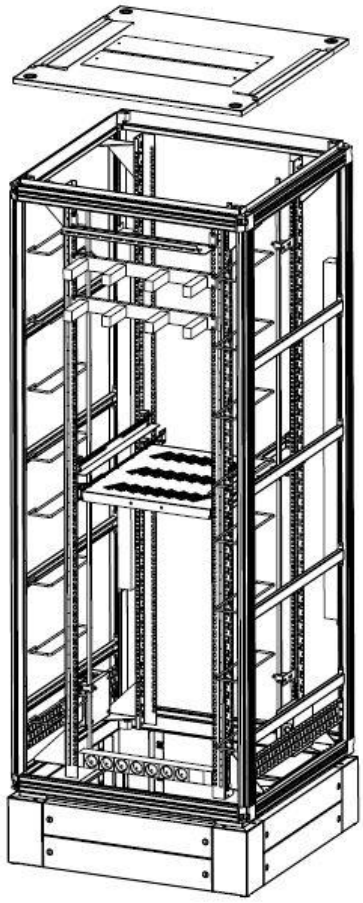
# 4 IT cabinet active-open for BD rooms (Depth: 800mm and 1,200mm)

**Application:**

- Use in building distributors (BD)
- Open version for installation within IT rooms
- **"IT cabinet active-open for BD rooms" for accommodating active IT IS components incl. surge protection box (ÜSS-Box) equipped with 3 x surge protection box modules at the rear 19" profile, fitted at U1-3**



(Source: VERTIV)

| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet active-open for BD rooms (Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3000220** |
| **IT cabinet active-open for BD rooms (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **H200 x W800 x D1,200 mm** | **RAL 7035** | **01.133.690.0000119** |

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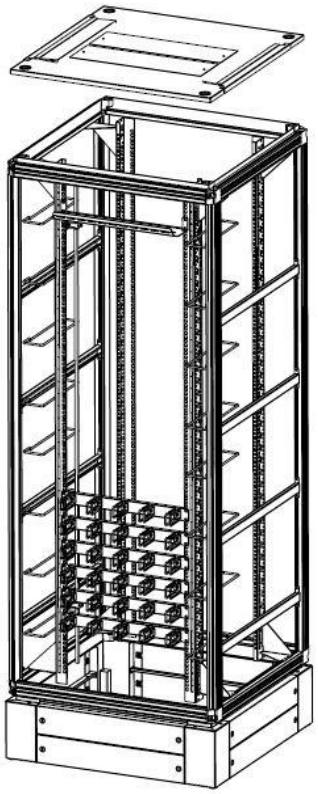
# 5 IT cabinet passive-open for FD, BD rooms and NCC (Depth: 800mm and 1,200mm)

**Application:**

- Use in floor distributors (FD), building distributors (BD) and network control centre (NCC)
- Open version for installation within IT rooms
- "IT cabinet passive-open" for accommodating exclusively passive IT IS components (in particular copper and fibre optic patch panels)



(Source: VERTIV)

| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet passive-open for FD, BD rooms and NCC (Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3000190** |
| **IT cabinet passive-open for FD, BD rooms and NCC (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **H200 x W800 x D1,200 mm** | **RAL 7035** | **01.133.690.0000112** |

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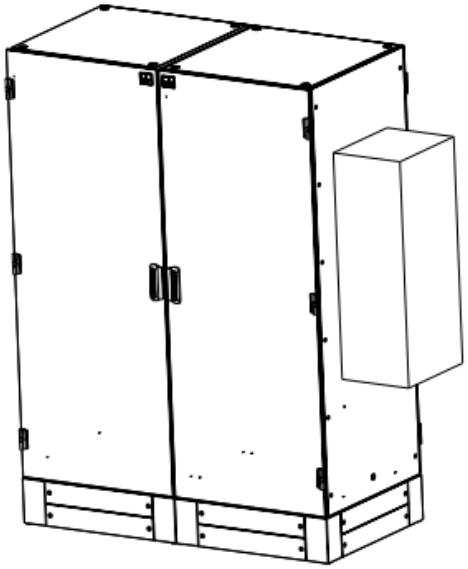
# 6 IT cabinet as FD for production environment (IP54) (Depth: 800mm and 1,200mm)

**Normal scenario (80 - 240 data cables):**

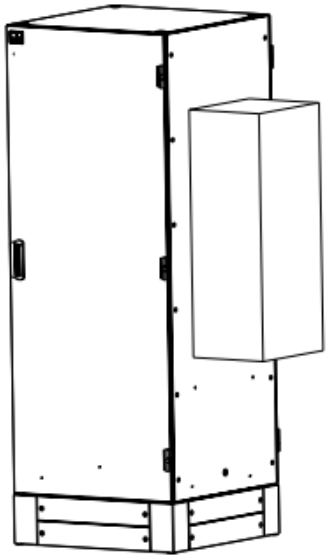
- Use as floor distributor (FD) in production environment
- The "IT cabinet active-closed with integrated cooling unit" and the "IT cabinet passive-closed" must always be planned and used as a pair.



(Source: VERTIV)

**Exception (< 80 data cables):**

- One "IT cabinet active-closed with integrated cooling unit" will be sufficient for a maximum number of 79 copper data cables.
- Potential subsequent cabling should be taken into account when IT cabinets are selected.



(Source: VERTIV)

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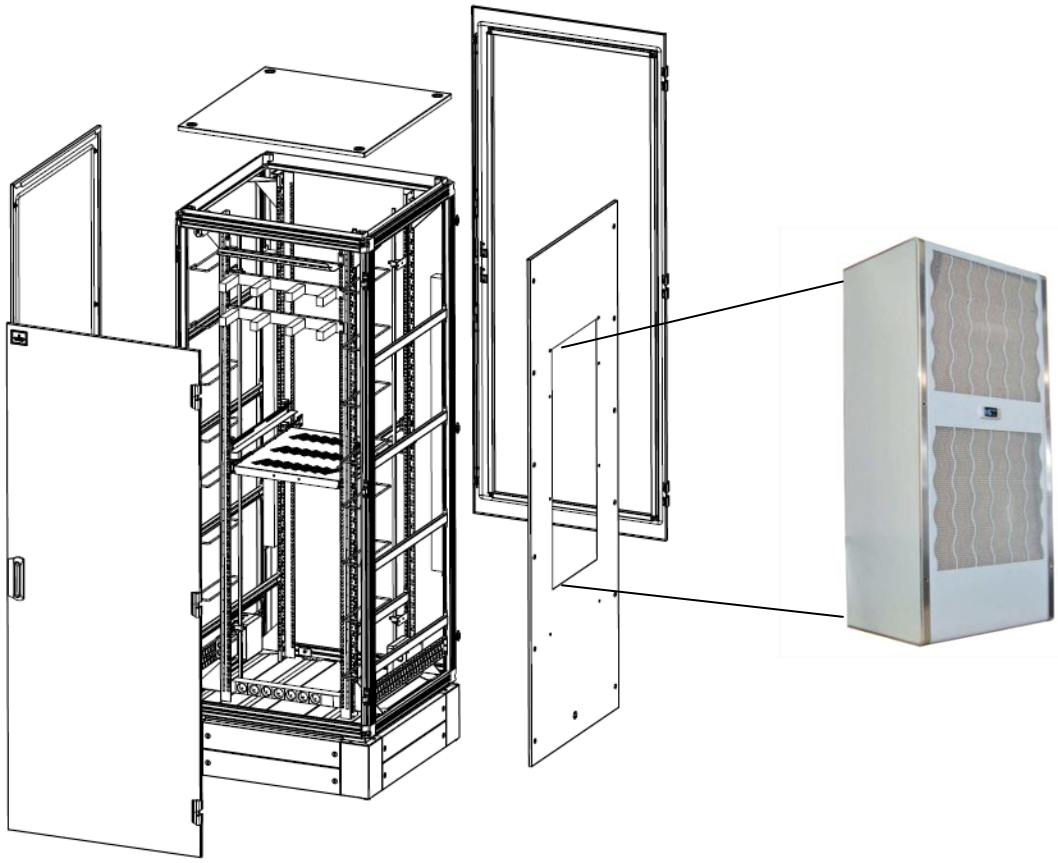
## 6.1 IT cabinet active-closed with integrated cooling unit (Depth: 800mm and 1,200mm)



(Source: VERTIV)

| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet active-closed with integrated cooling unit (Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3000206** |
| **IT cabinet active-closed with integrated cooling unit (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **H200 x W800 x D1,200 mm** | **RAL 7035** | **01.133.690.0000106** |

| Name | Cooling power | Operating voltage | Weight | Item number |
|---|---|---|---|---|
| **Cooling unit** | **3,000 W** | **230 V/1/ 50–60 Hz** | **44 kg** | **03.032.333.1000003** |

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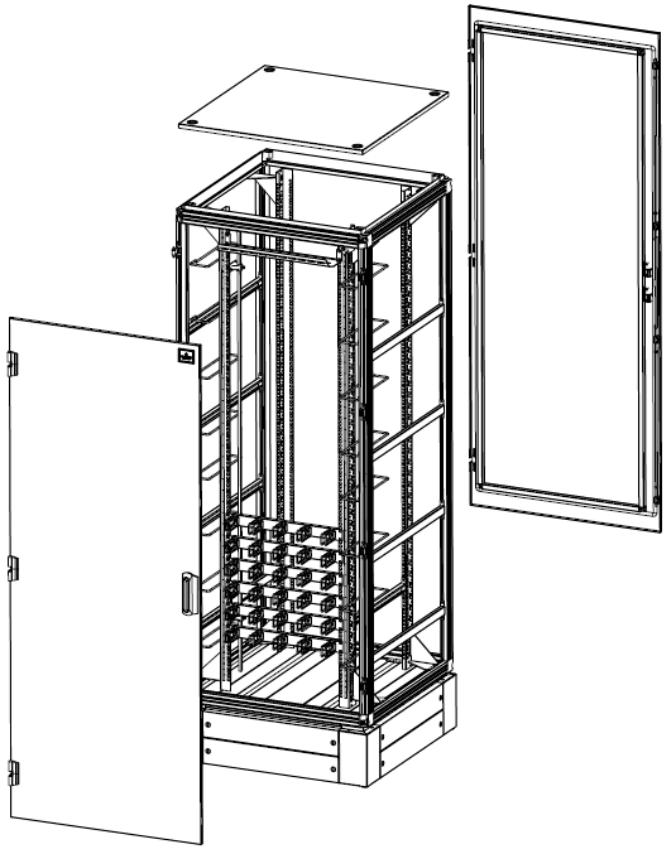
## 6.2 IT cabinet passive-closed (mounted side by side to active-closed IT cabinet) (Depth: 800mm and 1,200mm)

**Application:**

- Closed version (without side walls due to mounting side by side of "active-closed IT cabinet") for installation outside IT rooms
- "IT cabinet passive-closed" for accommodating exclusively passive IT IS components (in particular copper and fibre optic patch panels)



(Source: VERTIV)

| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet passive-closed (mounted side, Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3000194** |
| **IT cabinet passive-closed (mounted side, Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **H200 x W800 x D1,200 mm** | **RAL 7035** | **01.133.690.0000110** |

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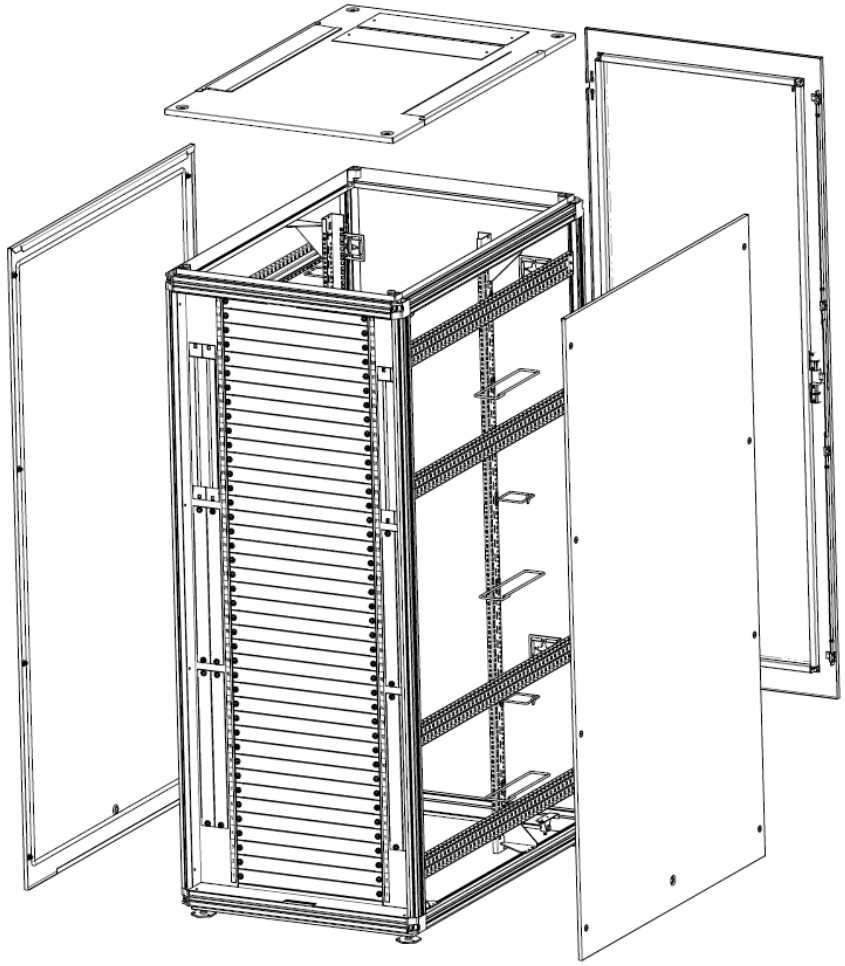
# 7 IT cabinet for data centre

## 7.1 IT cabinet for server (Depth: 1,200mm)

**Application:**

- For use in data centres and server rooms
- "IT cabinet for server" for accommodating active IT IS components
  (if required, including the fibre optic patch panels necessary for connection)



(Source: VERTIV)

| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet for server (Depth: 1200 mm)** | **H2,000 x W800 x D1,200 mm** | **---** | **RAL 7035** | **01.128.316.1000206** |

**PLEASE NOTE:**

**If there is no raised floor in a NCC / server room, an additional base must be provided for the "IT cabinet for server".**

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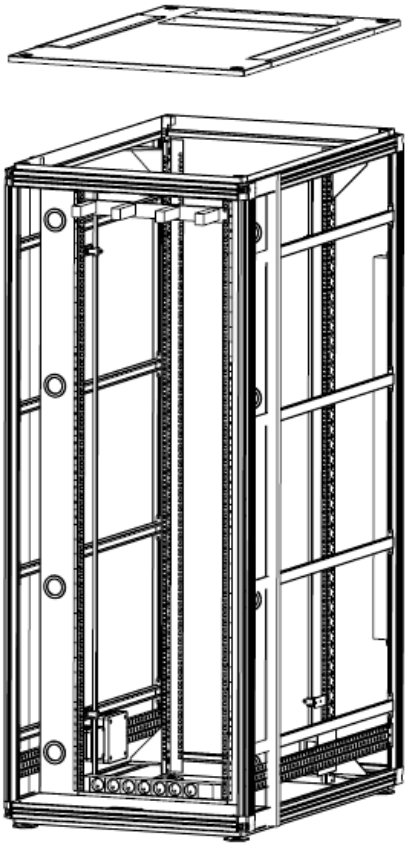
## 7.2 IT cabinet SFE active (Depth: 1,200mm)

**Application:**

- For use in data centres and server rooms
- The "IT cabinet SFE active" is mounted side by side with the "IT cabinet SFE passive".
- The fibre optic infrastructure and the active IT IS components (LAN Connectivity Server) are installed in the "IT cabinet SFE active".
- Installation must be coordinated with the BMW Group IT IS Function Data-Centers (Rechenzentren) having local responsibility.



(Source: VERTIV)

| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet SFE active (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **---** | **RAL 7035** | **01.133.690.0.000088** |

**PLEASE NOTE:**

**If there is no raised floor in a NCC / server room, an additional base must be provided for the " IT cabinet SFE active".**

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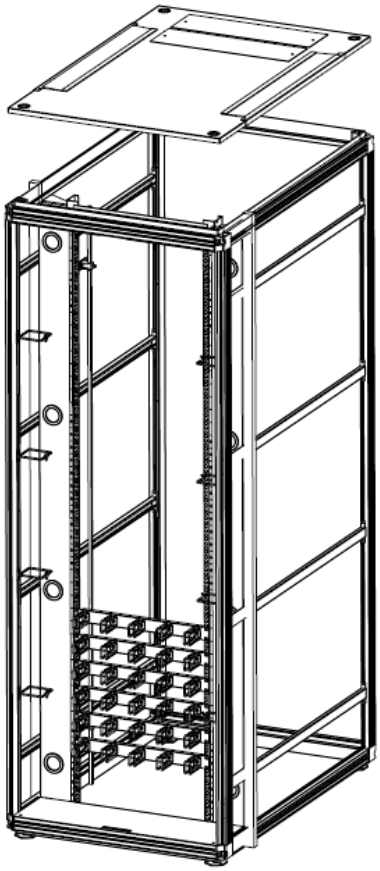
## 7.3 IT cabinet SFE passive (Depth: 1,200mm)

**Application:**

- For use in data centres and server rooms
- The "IT cabinet SFE passive" is mounted side by side with the "IT cabinet SFE active".
- The end point of the copper infrastructure is installed in the "IT cabinet SFE passive".
- Installation must be coordinated with the BMW Group IT IS Function Data-Centers (Rechenzentren) having local responsibility.



(Source: VERTIV)

| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet SFE passive (Depth: 1,200 mm)** | **H2,000 x W800 x D1,200 mm** | **---** | **RAL 7035** | **01.133.690.000090** |

**PLEASE NOTE:**

**If there is no raised floor in a NCC / server room, an additional base must be provided for the „IT cabinet SFE passive".**

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# 8 IT cabinet special structures

## 8.1 IT cabinet with roof fan unit (Depth: 800mm)

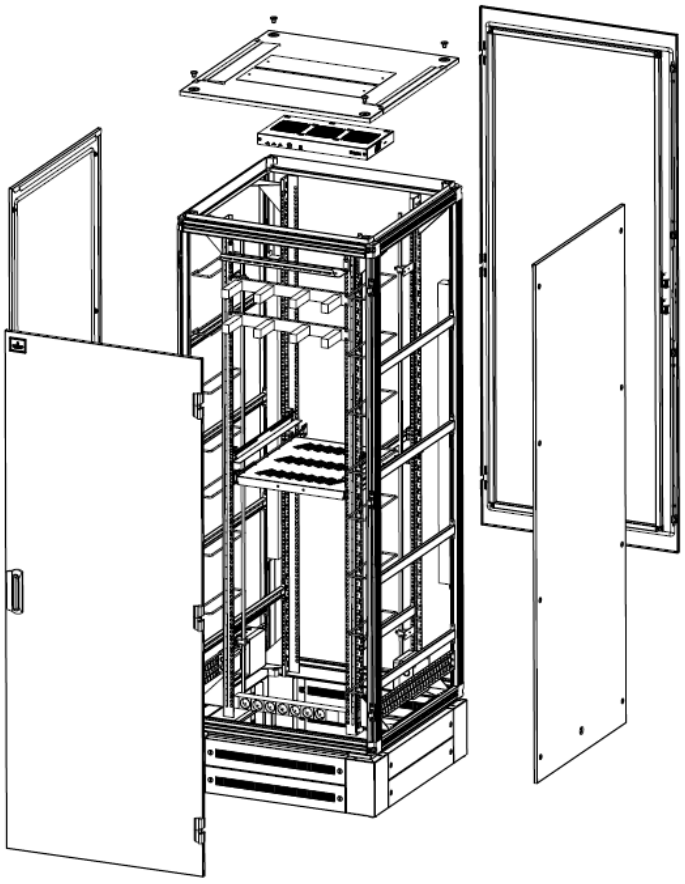
**PLEASE NOTE:**

**This IT cabinet is not permitted for general use.**

**The use of the "IT cabinet with roof fan unit" is only permitted after a written approval has been obtained from the BMW Group IT IS Function Data-Centers (Rechenzentren).**

**Optional application:**

- Used as floor distributor (FD) in central areas (for example, office or laboratory environments) in which only low noise levels can be tolerated.
- "IT cabinet with roof fan unit" that uses low-noise fan systems for cooling purposes. (for example, special ventilation panels in the roof area with speed-controlled DC fans)



(Source: VERTIV)

| Name | Cabinet frame | Base | Colour | Item number |
|---|---|---|---|---|
| **IT cabinet with roof fan unit (Depth: 800 mm)** | **H2,000 x W800 x D800 mm** | **H200 x W800 x D800 mm** | **RAL 7035** | **01.135.832.3.000213** |

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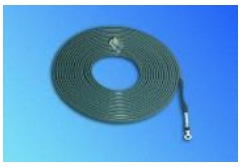
# 9 Rack Monitoring System (RMS)

**Application:**

- Use as cabinet monitoring system for recording the following parameters:
  - Temperature
  - Humidity
  - Door contact(s)
- Transmission of environment conditions data to higher-level management systems.

| Name | Details | Figure | Item number |
|---|---|---|---|
| **RMS Compact II** | TCP/IP connection through Ethernet<br>Configuration via SNMP and web browser<br>Internal voltage supply for sensors (no additional power pack required)<br>Alerting via LED, relay, network management or e-mail | | 06.108.200.8 |
| **RMS temperature sensor** | Insensitive to failures<br>Temperature measuring range: 0–60°C<br>Precision: +/-5%<br>1 sensor with 4 m connecting cable |  | 06.108.220.9 |
| **RMS humidity sensor** | Insensitive to failures<br>Humidity measuring range: 30 - 90% rel. humidity<br>Precision: +/-5% | | 06.108.212.9 |
| **RMS smoke detector** | Optical smoke sensor with VdS approval<br>for the early detection of fires with smoke development<br>For use from -20°C to +75°C and at 10 - 85% rel. humidity | | 06.108.211.9 |
| **RMS door contact sensor** | Magnetic bridge sensor responds to any magnetically conductive material (no special counterpart required)<br>Monitoring of side parts and roof<br>For use from -20°C to +70°C<br>Switching voltage: max. 200 VDC<br>Switching current: max. 500 mA | | 06.108.215.9 |

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# 10 Energy supply in IT cabinets

**Application:**

- Socket block **PDU 3 x 16 A C20 / 3x C19 + 9x C13 + 9x Schuko safety sockets** for installation in "IT cabinets active-open", "IT cabinets active-closed", "IT cabinets for NCC".
- Socket block **PDU 3 x 16 A C20 / 27x C13** for installation in "IT cabinets for servers", "IT cabinets SFE active" and "IT cabinets SFE passive".
- optional socket block **PDU 3 x 16 A C20 / 27x C13 RM** for installation in "IT cabinets for servers", "IT cabinets SFE active" and "IT cabinets SFE passive".
- Socket block, **7-way, Schuko safety sockets (service block)** for installation in "IT cabinets active-open", "IT cabinets active-closed", "IT cabinets SFE active".

| Name | Figure | Item number |
|---|---|---|
| **Socket block PDU 3 x 16 A C20 / 3x C19 + 9x C13 + 9x Schuko safety sockets** | | 03.600.024.1000021 |
| **Socket block PDU 3 x 16 A C20 / 27x C13** | | 03.600.024.1000022 |
| **optional socket block PDU 3 x 16 A C20 / 27x C13 RM** | | 03.607.824.1000007 |
| **Socket block, 7-way, Schuko safety sockets** | | 03.300.007.1 |

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# 11 Most frequently used accessory kits

| Name | Details | Figure | Item number |
|---|---|---|---|
| **Front door** | Large surface perforation (83% free surface)<br>Handle for mounting a profile half-cyclinder lock<br>180° hinges<br>Sheet steel, powder-coated (1mm) | | H2,000: 01.147.418.1<br>H2,200: 01.147.422.1 |
| **Side panel** | Mounted for all active and passive IT cabinets<br>Sheet steel, powder-coated (1mm)<br>H2,000 x B800mm | | 01.130.653.1 |
| **Base cover with brush strip** | Cable entry at the side, front and rear<br>powder-coated sheet steel<br>H100 x W800mm | | 01.130.745.1 |
| **Base (closed)** | Cable entry from all sides, Static load rating: 5000N<br>4x plinth corners with levelling feet<br>8x closed plinth covers and mounting kit<br>powder-coated sheet steel<br>H100 x W800 x D1,200mm | | 01.130.975.1. 000001 |
| | **PLEASE NOTE:**<br>**If there is no raised floor in a NCC / server room, an additional base must be provided or ordered for the IT cabinets.** | | |

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| Name | Details | Figure | Item number |
|---|---|---|---|
| **Earthing bar (horizontal)** | Earthing bar<br>with mounting kit, brackets, contact clamps<br>Earth wires<br>Cross-section: 9 x 9mm<br>Length: 533mm | | 01,110,703.<br>9000009 |
| **Cable protector** | Cable protector for securing the supply lines of active IT IS components<br>Set with 50 pieces | | 039102139001 |
| **Fibre optic patch panel** | 1U fibre optic patch panel with 4 cable routing clips incl. foam inserts<br>Colour: black RAL9005 | | 05,040,100.<br>8000003 |
| **Fibre optic cable management panel** | 1U fibre optic cable management panel for the proper routing of optical fibres<br>Colour: light gray RAL 7035 | | 05.040.050.1 |
| **Cover for fibre optic cable management panel** | 1x cover<br>Colour: light gray RAL 7035 | | 05.040.051.1 |

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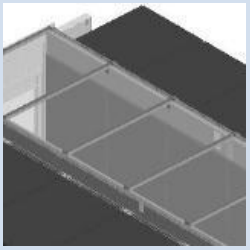
| Name | Details | Figure | Item number |
|---|---|---|---|
| **Roof fan unit** | For use in IT cabinet EMC for BD to ensure forced heat dissipation<br>Noise level: ≤ 50 dB(A) at maximum speed control<br>Speed regulation 30 to 100 %, when sensor breaks, 100 % speed<br>Monitoring of individual fans<br>Zero-potential collective alarm output for over temperature and fan failure | | 03.027.321.1 |
| **Cold aisle front door panel** **(for aisle width of 1,200mm, IT cabinet height of 2,000mm)** | 1x door frame<br>2x door leaves designed as swing doors with safety glass in the upper area<br>Colour: light gray RAL 7035 | | H2,000xW1,200: 03.028.021.1<br>H2,200xW1,200: 03.028.022.1 |
| **Cold aisle roof element** **(for aisle width of 1,200mm, IT cabinet width of 800mm, IT cabinet width of 2,000mm)** | 1x acrylic perspex panel<br>2x angular extruded sections with air vents<br>2x angular extruded sections |  | 03.029.126.1 |
| **Cold aisle separator strip** **(for aisle width of 1,200mm)** | For connecting the door component or front panel<br>2x end separator strips | | 03.029.010.1 |

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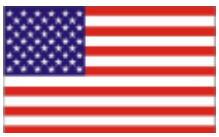

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