Instrument cases/system enclosures

Ripac Vario-Module

System enclosure for direct installation of PCBs or board-type plug-in units.

Basic enclosure optionally for EMC or non-EMC applications and suitable for individual configuration, e.g. with cover plates.

Optionally with corner trim for configuration as an instrument case or with 482.6 mm (19") flanges for configuration as a rack-mounted enclosure.

Rittal RiCase

All-metal instrument case for 482.6 mm (19") slide-in equipment

The perfect “safe” for valuable electronics. Extruded aluminium sections and die-cast elements form an extremely robust yet lightweight enclosure.

Stability and non-slip properties are guaranteed by 10 mm high corner caps. The distance from the desktop or from the lower enclosure offers excellent ventilation conditions.

Slide-in strips simply slide into the required profile channel, for the support of any required attachment.

RiBox

System enclosure for horizontal installation of individual boards, hubs, routers and modems.

Mounting plate of sheet steel for individual population.

Mounting kit for horizontal installation of boards.

Features

The RiCase instrument case impresses with its modern design and high functionality.

Particular features include the numerous colour variants and the all-metal enclosure construction.

The Ripac Vario-Module system enclosure (desktop or rack-mounted enclosure) is fully compatible with the latest Ripac subrack range, making it ideal for individual configuration and assembly as a microcomputer system.

At just 1 U, the RiBox system enclosure offers a high packaging density in the smallest space.
Technical specifications:

- **System enclosures 1 U, 150, 200, 250, 300, 350 mm deep**
- Easy to assemble with just 4 screws.
- Optionally for use as an instrument case or 19" rack-mounted enclosure.
- Front panel to hold an overlay to conceal the screws.
- Maximum possible useful interior space.
- Optional EMC upgrades with additional EMC gaskets.
- Option of installing 1 VME or CPCI board horizontally.

**Material/surface finish:**
- Side panels: Extruded aluminium section, untreated
- Base/cover trays: Aluminium, clear-chromated
- Front/rear panel: Extruded aluminium section, clear-chromated
- Mounting plate: Sheet steel

**Detailed drawing, see page 1273.**

### Design:

**System enclosure 1 U**, to IEC 60 297-1.
- Optionally available for 19" rack-mounting in the enclosure or as an instrument case version.

1. **Equipped as an instrument case**
2. **Equipped as a rack-mounted unit**

### Technical Specifications:

<table>
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<tr>
<th>Model</th>
<th>Width (B1) mm</th>
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Instrument cases/system enclosures

Ripac Vario-Module 3 U, 4 U

Technical specifications:
May be used as a rack-mounted enclosure or instrument case. External dimensions to IEC 60 297-1 for installation in 482.6 mm (19") racks. Installation dimensions for board type plug-in assemblies to IEC 60 297-3-101.

Material/Surface finish:
Side panels: Extruded aluminium section, spray finished in RAL 7035
Horizontal rails: Extruded aluminium section, clear-chromated
Corner trims: Die-cast zinc, spray-finished in RAL 7035
Side trims: Extruded aluminium section, spray-finished in RAL 7035

Protection category:
IP 40 for non-vented version.

Supply includes:
2 side panels, 4 horizontal rails, 4 threaded inserts, 2 corner trims, assembly parts.

Equipped as an instrument case

Equipped as a rack-mounted unit

Note:
Corner trims, mounting flanges and top and bottom covers must be ordered separately.

Horizontal rails for further configuration must be ordered separately, see page 558.

Detailed drawing, see page 1274.

Ripac Vario-Module

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Model No. VM Basic enclosure

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Also required

Top covers
- with vent holes
- without vent holes

Bottom covers
- with vent holes
- without vent holes

Front corner trims for assembly as instrument case

Flanges for configuration as rack-mount
- without handle holes
- with handle holes

Accessories

Front/rear panels see page 591 – 606
Front handles1) 2 3636.010 3636.010 3636.010 3636.010 3636.010 3636.010 3636.010 3636.010 3636.010 3636.010 3636.010 562
Acrylic front door 1 3981.420 3981.430 3981.430 3981.430 3981.430 3981.430 3981.430 3981.430 3981.430 3981.430 3981.430 620
Rear adjustable feet 4 3901.000 3901.000 3901.000 3901.000 3901.000 3901.000 3901.000 3901.000 3901.000 3901.000 3901.000 620

1) Only in conjunction with mounting flanges with handle holes.

Accessories Ripac Vario-Module Page 618 RiBox Page 613 RiCase Page 621
Instrument cases/system enclosures

Ripac Vario-Module 3 U, 4 U, EMC

**Technical specifications:**
May be used as a rack-mounted enclosure or instrument case.
External dimensions to IEC 60 297-1 for installation in 482.6 mm (19") racks.
Installation dimensions for board type plug-in assemblies to IEC 60 297-3-101.

**Material/Surface finish:**
Side panels: Extruded aluminium section, spray-finished in RAL 7035
Horizontal rails: Extruded aluminium section, clear-chromated
Corner trims: Die-cast zinc, spray-finished in RAL 7035
Side trims: Extruded aluminium section, spray-finished in RAL 7035

**Protection category:**
IP 40 for non-vented version.

**Supply includes:**
- 2 side panels
- 4 horizontal rails
- 4 threaded inserts
- 2 rear corner trims
- Assembly parts

**Horizontal rail configuration**
- Equipped as an instrument case
- Equipped as a rack-mounted unit

**Note:** Corner trim, mounting flanges and top and bottom covers must be ordered separately.

**Detailed drawing:**
see page 1274.

---

**Technical specifications:**
- Side trims: Extruded aluminium section, spray-finished in RAL 7035
- Contact points: Conductive
- Material/Surface finish:
  - Side panels: Extruded aluminium section, spray-finished in RAL 7035
  - Horizontal rails: Extruded aluminium section, clear-chromated
  - Corner trims: Die-cast zinc, spray-finished in RAL 7035
  - Side trims: Extruded aluminium section, spray-finished in RAL 7035
- Protection category:
  - IP 40 for non-vented version
- Supply includes:
  - 2 side panels
  - 4 horizontal rails
  - 4 threaded inserts
  - 2 rear corner trims
  - Assembly parts

**Equipment:**
- May be used as a rack-mounted enclosure or instrument case.
- May be equipped as an instrument case or as a rack-mounted unit.
- Installation dimensions for board type plug-in assemblies to IEC 60 297-3-101.

**Installation width (TE):**
3 U: 42, 42, 63
4 U: 84, 84, 84

**Model No. VM Basic enclosure EMC:**
1 3983.040 3983.070 3983.050 3983.080 3983.060 3983.090 3983.100

**Also required:**
- EMC top covers
  - With vent holes
    - 1 3981.910 3981.911 3981.912 3981.913 3981.914 3981.915 3981.916 3981.917
  - Without vent holes
    - 1 3981.710 3981.711 3981.712 3981.713
- EMC bottom covers
  - With vent holes
    - 1 3981.714 3981.715 3981.716 3981.717
  - Without vent holes
    - 1 3981.718 3981.719 3981.720 3981.721
- Front corner trims for assembly as instrument case
  - With handle holes
    - 2 3981.310 3981.311 3981.312 3981.313
  - Without handle holes
    - 2 3981.210 3981.211 3981.212 3981.213
- Flanges for configuration as rack-mount
  - With handle holes
    - 2 3981.260 3981.261 3981.262 3981.263
  - Without handle holes
    - 2 3981.264 3981.265 3981.266 3981.267

**EMC installation:**
- EMC gaskets, horizontal
  - For upper/lower horizontal rail
    - Between covers and horizontal rails
      - 1 3684.808 3684.809 3684.810 3684.811 3684.812 3684.813 3684.814 3684.815
  - Horizontal rail configuration 1
    - 2 3684.245 3684.246 3684.247 3684.248 3684.249 3684.250 3684.251 3684.252
- EMC gaskets, vertical
  - 1 3686.975 3686.976 3686.977 3686.978 3686.979 3686.980 3686.981 3686.982

**Front/rear panels EMC:**
- See page 591 – 606

**Accessories:**
- Front/rear panels
- Carrying handles
- Front handles
- Acrylic front door
- Rear adjustable feet

**Only in conjunction with mounting flanges with handle holes.**

---

**Installation width (TE):**
3 U: 42, 42, 63
4 U: 84, 84, 84

**Model No. VM Basic enclosure EMC:**
1 3983.040 3983.070 3983.050 3983.080 3983.060 3983.090 3983.100

**Also required:**
- EMC top covers
  - With vent holes
    - 1 3981.910 3981.911 3981.912 3981.913 3981.914 3981.915 3981.916 3981.917
  - Without vent holes
    - 1 3981.710 3981.711 3981.712 3981.713
- EMC bottom covers
  - With vent holes
    - 1 3981.714 3981.715 3981.716 3981.717
  - Without vent holes
    - 1 3981.718 3981.719 3981.720 3981.721
- Front corner trims for assembly as instrument case
  - With handle holes
    - 2 3981.310 3981.311 3981.312 3981.313
  - Without handle holes
    - 2 3981.210 3981.211 3981.212 3981.213
- Flanges for configuration as rack-mount
  - With handle holes
    - 2 3981.260 3981.261 3981.262 3981.263
  - Without handle holes
    - 2 3981.264 3981.265 3981.266 3981.267

**EMC installation:**
- EMC gaskets, horizontal
  - For upper/lower horizontal rail
    - Between covers and horizontal rails
      - 1 3684.808 3684.809 3684.810 3684.811 3684.812 3684.813 3684.814 3684.815
  - Horizontal rail configuration 1
    - 2 3684.245 3684.246 3684.247 3684.248 3684.249 3684.250 3684.251 3684.252
- EMC gaskets, vertical
  - 1 3686.975 3686.976 3686.977 3686.978 3686.979 3686.980 3686.981 3686.982

**Front/rear panels EMC:**
- See page 591 – 606

**Accessories:**
- Front/rear panels
- Carrying handles
- Front handles
- Acrylic front door
- Rear adjustable feet

**Only in conjunction with mounting flanges with handle holes.**
### Ripac Vario-Module 6 U, 7 U

**Technical specifications:**
- May be used as a rack-mounted enclosure or instrument case.
- External dimensions to IEC 60 297-1 for installation in 482.6 mm (19") racks.
- Installation dimensions for board type plug-in assemblies to IEC 60 297-3-101.

**Material/surface finish:**
- Side panels:
  - Extruded aluminium section, spray-finished in RAL 7035
- Horizontal rails:
  - Extruded aluminium section, clear-chromated
- Corner trims:
  - Die-cast zinc, spray-finished in RAL 7035

**Protection category:**
- IP 40 for non-vented version.

**Supply includes:**
- 2 side panels
- 4 horizontal rails
- 4 threaded inserts
- 2 rear corner trims
- 2 side trims centre, assembly parts.

**Equipped as an instrument case**

![Instrument case diagram]

**Horizontal rail configuration**

- Horizontal rails for further configuration must be ordered separately, see page 558.
- Detailed drawing, see page 1274.

**Ripac Vario-Module**

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**Also required**

- **Top covers**
  - with vent holes
    - 1 | 3982.950 | 3982.960 | 3982.970 | 3982.950 | 3982.960 | 3982.970 | 618
  - without vent holes
    - 1 | 3982.910 | 3982.920 | 3982.930 | 3982.910 | 3982.920 | 3982.930 | 618
- **Bottom covers**
  - with vent holes
    - 1 | 3982.750 | 3982.760 | 3982.770 | 3982.750 | 3982.760 | 3982.770 | 618
  - without vent holes
    - 1 | 3982.710 | 3982.720 | 3982.730 | 3982.710 | 3982.720 | 3982.730 | 618
- **Front corner trims for assembly as instrument case**
- **Flanges for configuration as rack-mounted**
  - without handle holes
  - with handle holes

**Accessories**

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<tr>
<td>Front/rear panel</td>
<td>see page 591 – 606</td>
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| Carrying handles          | 2 | 3981.360 | 3981.370 | 3981.380 | 3981.360 | 3981.370 | 619
| Front handles 1)          | 2 | 3666.010 | 3666.010 | 3666.010 | 3666.010 | 3666.010 | 562
| Acrylic front door         | 1 | 3981.460 | 3981.460 | 3981.460 | 3981.460 | 3981.460 | 620
| Rear adjustable feet      | 4 | 3901.000 | 3901.000 | 3901.000 | 3901.000 | 3901.000 | 620

1) Only in conjunction with mounting flanges with handle holes.
**Technical specifications:**
May be used as a rack-mounted enclosure or instrument case.
External dimensions to IEC 60 297-1 for installation in 482.6 mm (19") racks.
Installation dimensions for board type plug-in assemblies to IEC 60 297-3-101.

**Material/surface finish:**
Side panels: Extruded aluminium section, spray-finished in RAL 7035
Horizontal rails: Extruded aluminium section, clear-chromated
Corner trims: Die-cast zinc, spray-finished in RAL 7035
Contact points: Conductive

**Protection category:**
IP 40 for non-vented version.

**Supply includes:**
2 side panels, 4 horizontal rails, 4 threaded inserts, 2 rear corner trims, 2 side trims centre, assembly parts.

**Installation width** (TE) 84

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**Also required**
EMC top covers
- with vent holes 1 3981.950 3981.960 3981.970 3981.950 3981.970 618
- without vent holes 1 3981.910 3981.920 3981.930 3981.910 3981.930 618

EMC bottom covers
- with vent holes 1 3981.750 3981.760 3981.770 3981.750 3981.770 618
- without vent holes 1 3981.710 3981.720 3981.730 3981.710 3981.730 618

Front corner trims for assembly as instrument case 2 3981.330 3981.330 3981.330 3981.330 3981.330 619
Flanges for configuration as rack-mount
- without handle holes 2 3981.230 3981.230 3981.230 3981.230 3981.230 619
- with handle holes 2 3981.250 3981.250 3981.250 3981.250 3981.250 619

**EMC installation**
EMC gaskets, horizontal
- for upper/lower horizontal rail 1 1 3684.808 3684.808 3684.808 3684.808 3684.808 573
- between covers and horizontal rails 1 10 3684.245 3684.245 3684.245 3684.245 3684.245 573

EMC gaskets, vertical 1 3686.977 3686.977 3686.977 3686.978 3686.978 572
Front/rear panels EMC see page 591 – 606

**Accessories**
Front/rear panel see page 591 – 606
Carrying handles 2 3981.360 3981.370 3981.380 3981.360 3981.370 619
Front handles 1) 2 3666.010 3666.010 3666.010 3666.010 3666.010 562
Acrylic front door 1 3981.460 3981.460 3981.460 3981.460 3981.470 620
Rear adjustable feet 4 3901.000 3901.000 3901.000 3901.000 3901.000 620

1) Only in conjunction with mounting flanges with handle holes.

**Protection category:**
IP 40 for non-vented version.

**Supply includes:**
2 side panels, 4 horizontal rails, 4 threaded inserts, 2 rear corner trims, 2 side trims centre, assembly parts.

**Installation width** (TE) 84

**Technical specifications:**
May be used as a rack-mounted enclosure or instrument case.
External dimensions to IEC 60 297-1 for installation in 482.6 mm (19") racks.
Installation dimensions for board type plug-in assemblies to IEC 60 297-3-101.

**Material/surface finish:**
Side panels: Extruded aluminium section, spray-finished in RAL 7035
Horizontal rails: Extruded aluminium section, clear-chromated
Corner trims: Die-cast zinc, spray-finished in RAL 7035
Contact points: Conductive

**Protection category:**
IP 40 for non-vented version.

**Supply includes:**
2 side panels, 4 horizontal rails, 4 threaded inserts, 2 rear corner trims, 2 side trims centre, assembly parts.

**Installation width** (TE) 84

**Technical specifications:**
May be used as a rack-mounted enclosure or instrument case.
External dimensions to IEC 60 297-1 for installation in 482.6 mm (19") racks.
Installation dimensions for board type plug-in assemblies to IEC 60 297-3-101.

**Material/surface finish:**
Side panels: Extruded aluminium section, spray-finished in RAL 7035
Horizontal rails: Extruded aluminium section, clear-chromated
Corner trims: Die-cast zinc, spray-finished in RAL 7035
Contact points: Conductive

**Protection category:**
IP 40 for non-vent
Enclosure population
For individual interior installation of the enclosures, system components from the Ripac range may be used (see page 563 – 571).

Top covers
for Ripac Vario-Module

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</table>

Bottom covers
for Ripac Vario-Module

<table>
<thead>
<tr>
<th>Material:</th>
<th>Sheet steel, spray-finished</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>RAL 7035</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HP</th>
<th>Depth mm</th>
<th>Model No. VM standard with vent holes</th>
<th>Model No. VM standard without vent holes</th>
<th>Model No. VM EMC with vent holes</th>
<th>Model No. VM EMC without vent holes</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>250.4</td>
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<tr>
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<tr>
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<td>310.4</td>
<td>3982.752</td>
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<tr>
<td>84</td>
<td>250.4</td>
<td>3982.740</td>
<td>3982.700</td>
<td>3981.740</td>
<td>3981.700</td>
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<tr>
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<td>310.4</td>
<td>3982.750</td>
<td>3982.710</td>
<td>3981.750</td>
<td>3981.710</td>
</tr>
<tr>
<td></td>
<td>370.4</td>
<td>3982.760</td>
<td>3982.720</td>
<td>3981.760</td>
<td>3981.720</td>
</tr>
<tr>
<td></td>
<td>430.4</td>
<td>3982.770</td>
<td>3982.730</td>
<td>3981.770</td>
<td>3981.730</td>
</tr>
</tbody>
</table>

Feet
with fold-out support stand.
Load capacity up to 20 kg.

<table>
<thead>
<tr>
<th>Material:</th>
<th>Plastic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>RAL 7035</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. VM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3919.000</td>
</tr>
</tbody>
</table>

Mounting plate
For mounting heavy components.

<table>
<thead>
<tr>
<th>Material:</th>
<th>Aluminium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply includes:</td>
<td>Assembly parts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HP</th>
<th>Depth mm</th>
<th>Packs of</th>
<th>Model No. VM</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>250</td>
<td>1</td>
<td>3982.370</td>
</tr>
<tr>
<td>63</td>
<td>250</td>
<td>1</td>
<td>3982.380</td>
</tr>
<tr>
<td>84</td>
<td>250</td>
<td>1</td>
<td>3982.390</td>
</tr>
</tbody>
</table>
Front flanges

Required when the Ripac Vario-Module is to be used as a rack-mounted enclosure. The flanges have a channel to accommodate vertical EMC gaskets.

Material:
Aluminium, clear-chromated

| U  | Packs of | Model No. VM
|----|----------|-----------------
| 3  | 2        | 3981.210 3981.260 |
| 4  | 2        | 3981.220 3981.270 |
| 6  | 2        | 3981.230 3981.280 |
| 7  | 2        | 3981.240 3981.290 |

Accessories:
Vertical EMC gasket, see page 572.
Front handles for mounting on front flanges, see page 562.

Front corner trims

Required when the Ripac Vario-Module is to be used as a desk-top instrument case. The corner trims have a channel to accommodate vertical EMC gaskets.

Material:
Aluminium, spray-finished

Colour:
RAL 7035

<table>
<thead>
<tr>
<th>U</th>
<th>Packs of</th>
<th>Model No. VM</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>3981.310</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>3981.320</td>
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<tr>
<td>6</td>
<td>2</td>
<td>3981.330</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>3981.340</td>
</tr>
</tbody>
</table>

1, 2 and 8 U available on request.

Accessories:
Vertical EMC gasket, see page 572.
Front handles for mounting on front corner trim pieces, see page 619.

Front handles

for mounting on front corner trims

Maximum load capacity: 500 N

Material:
Cover: ABS
Handle part: Aluminium, clear-anodised.

Supply includes:
2 handle parts, 4 covers, assembly parts.

<table>
<thead>
<tr>
<th>U</th>
<th>Packs of</th>
<th>Model No. VM</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>3982.350</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>3982.360</td>
</tr>
<tr>
<td>6</td>
<td>2</td>
<td>3982.400</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>3982.410</td>
</tr>
</tbody>
</table>

Carrying handles

For ergonomic transportation, even with stacked enclosures. May also be used as a support stand.

Max. load capacity: 350 N.

Material:
Die-cast zinc and extruded aluminium section

Colour:
RAL 7035

For enclosure depth mm | Packs of | Model No. VM |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>250.4</td>
<td>2</td>
<td>3981.350</td>
</tr>
<tr>
<td>310.4</td>
<td>2</td>
<td>3981.360</td>
</tr>
<tr>
<td>370.4</td>
<td>2</td>
<td>3981.370</td>
</tr>
<tr>
<td>430.4</td>
<td>2</td>
<td>3981.380</td>
</tr>
</tbody>
</table>

Note:
Only for use with front and rear trims.
Ripac Vario-Module accessories

**Rear feet**
For mounting on the rear of the enclosure.
Dual function:
- Mechanical protection of the connection components.
- Also act as a cable tidy during transportation.

**Material:**
PA,
self-extinguishing to UL 94-V0

**Colour:**
RAL 7035

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. VM</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3901.000</td>
</tr>
</tbody>
</table>

**Earthing set**
For connecting the top and bottom covers to the side panels with PE conductors.

**Supply includes:**
Conductor cable green/yellow, 1.5 mm², with washer, flat-pin connector and assembly parts.

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>3900.000</td>
</tr>
</tbody>
</table>

**Support stand/carrying handle**
To fit Ripac Vario Module 3 U, 4 U and 6 U, adjustable on a 30° pitch pattern.

**Material:**
Extruded aluminium section/die-cast

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

**Note:**
Corner trim for support stands/carrying handles should be ordered separately.

For Ripac Vario-Module | Packs of | Model No. VM |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>42 HP</td>
<td>1</td>
<td>3981.390</td>
</tr>
<tr>
<td>63 HP</td>
<td>1</td>
<td>3981.400</td>
</tr>
<tr>
<td>84 HP</td>
<td>1</td>
<td>3981.410</td>
</tr>
</tbody>
</table>

German patent no. 41 10 873

Corner trim for support stand | Packs of | Model No. VM |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3 U</td>
<td>2</td>
<td>3981.310</td>
</tr>
<tr>
<td>4 U</td>
<td>2</td>
<td>3981.500</td>
</tr>
<tr>
<td>6 U</td>
<td>2</td>
<td>3981.510</td>
</tr>
</tbody>
</table>

**Front doors**
of acrylic glazing, horizontally hinged
For protection of built-in control components.

**Material:**
Side parts: Aluminium, spray-finished in RAL 7035
Window: Smoked acrylic

**Supply includes:**
Assembly parts.

<table>
<thead>
<tr>
<th>U</th>
<th>For Ripac Vario-Module</th>
<th>Packs of</th>
<th>Model No. VM</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>42 HP</td>
<td>1</td>
<td>3981.420</td>
</tr>
<tr>
<td>3</td>
<td>63 HP</td>
<td>1</td>
<td>3981.430</td>
</tr>
<tr>
<td>3</td>
<td>84 HP</td>
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<tr>
<td>6</td>
<td>84 HP</td>
<td>1</td>
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<tr>
<td>7</td>
<td>84 HP</td>
<td>1</td>
<td>3981.470</td>
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</tbody>
</table>

German patent no. 41 10 872

**Front panels/rear panels**
To cover the enclosures front and rear.
Also available as a hinged or EMC version.
Model No. see page 605.
Technical specifications:
Depth: 300 mm, 420 mm, 540 mm
Installation width: 269.2 mm (1/2 19")
Installation options: 269.2 mm (1/2 19") slide-in equipment to IEC 60 297-3

Material/surface finish:
Covers: Extruded aluminium section/die-cast, spray-finished
Side panels: Extruded aluminium section, spray-finished
Corner caps: Plastic
Bracket: Extruded aluminium section, clear-chromated

Colour: RAL 7035 (pale grey)
Decorative colours and corner caps: RAL 5018 (turquoise), RAL 5012 (pale blue), RAL 7030 (stone grey)

Protection category: IP 42 for unvented version.

Supply includes:
2 side panels, 2 covers, 8 corner caps, 8/12/16 cover caps (300/420/540 mm depth), 4 482.6 mm (19") mounting brackets, 4 threaded inserts, 2 plain inserts, 1 rear panel.

Special sizes and colours available on request.

Property rights:
German registered design no. 96 09 457
IR reg. design no. DM/039 974 with validity for FR, IT
UK reg. design no. 2064682
US design patents Des. 402,640 and Des. 423,464
Japan. reg. designs no. 1045507 and 1045508

Detailed drawing, see page 1275.
Instrument cases/system enclosures

Rittal RiCase 482.6 mm (19")

**Technical specifications:**
- **Depth:**
  - 300 mm, 420 mm, 540 mm
  - Installation width: 482.6 mm (19")
- **Installation options:**
  - 482.6 mm (19") slide-in equipment to IEC 60 297-3

**Material/surface finish:**
- **Covers:** Extruded aluminium section, die-cast, spray-finished
- **Side panels:** Extruded aluminium section, spray-finished
- **Corner caps:** Plastic 482.6 mm (19") mounting
- **Bracket:** Extruded aluminium section, clear-chromated

**Supply includes:**
- 2 side panels,
- 2 covers,
- 8 corner caps,
- 8/12/16 cover caps (300/420/540 mm depth),
- 2 482.6 mm (19") mounting brackets,
- 2 threaded inserts,
- 2 plain inserts.

**Not vented**

<table>
<thead>
<tr>
<th>Enclosure for subrack width 482.6 mm (19&quot;)</th>
<th>Packs of 3 U</th>
<th>Packs of 4 U</th>
<th>Packs of 6 U</th>
<th>Packs of 7 U</th>
<th>Packs of 9 U</th>
<th>Packs of 12 U</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (H) mm</td>
<td>166.4</td>
<td>166.4</td>
<td>210.8</td>
<td>210.8</td>
<td>299.7</td>
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<td>299.7</td>
</tr>
<tr>
<td>H1 (HE) mm</td>
<td>133.8</td>
<td>133.8</td>
<td>178.3</td>
<td>178.3</td>
<td>267.2</td>
<td>267.2</td>
<td>267.2</td>
</tr>
<tr>
<td>Depth (T) mm</td>
<td>300.0</td>
<td>420.0</td>
<td>300.0</td>
<td>420.0</td>
<td>540.0</td>
<td>540.0</td>
<td>540.0</td>
</tr>
</tbody>
</table>

**Vented**

<table>
<thead>
<tr>
<th>Model No. RC, RAL 5018</th>
<th>1</th>
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</thead>
<tbody>
<tr>
<td>3750.310 3750.320 3750.410 3750.420 3750.600 3750.610 3750.620 3750.700 3750.710 3750.900 3750.910 3750.919</td>
<td></td>
</tr>
<tr>
<td>Model No. RC, RAL 5012</td>
<td>1</td>
</tr>
<tr>
<td>3750.312 3750.322 3750.412 3750.422 3750.602 3750.612 3750.622 3750.702 3750.712 3750.902 3750.912 3750.919</td>
<td></td>
</tr>
<tr>
<td>Model No. RC, RAL 7030</td>
<td>1</td>
</tr>
<tr>
<td>3750.314 3750.324 3750.414 3750.424 3750.604 3750.614 3750.624 3750.704 3750.714 3750.904 3750.914 3750.919</td>
<td></td>
</tr>
</tbody>
</table>

**Weight (kg)**

| Vented/ unvented | 5.3 | 6.9 | 5.7 | 7.5 | 6.6 | 8.5 | 10.8 | 12.2 | 9.1 | 11.5 | 10.1 | 12.9 | 15.0 |

**Accessories**

- **Carring handles, horizontal** 2 |
  - 3751.250 3751.260 3751.280 3751.290 3751.250 3751.260 3751.270 3751.280 3751.290 3751.290 3751.290 3751.290 3751.290 3751.290 624

**Special sizes and colours available on request.**

**Detailed drawing, see page 1275.**
### Mounting angles for 482.6 mm (19’’)
For front/rear installation of subracks and blanking plates.

**Material:**
Extruded aluminium section, clear-chromated

**Supply includes:**
Assembly parts.

**Note:**
1 pack of threaded inserts and 2 packs of mounting rails and spacers are required for depth-adjustable installation.

<table>
<thead>
<tr>
<th>For enclosure height</th>
<th>Packs of</th>
<th>Model No. RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 U</td>
<td>2</td>
<td>3751.650</td>
</tr>
<tr>
<td>2 U</td>
<td>2</td>
<td>3751.660</td>
</tr>
<tr>
<td>3 U</td>
<td>2</td>
<td>3751.670</td>
</tr>
<tr>
<td>4 U</td>
<td>2</td>
<td>3751.680</td>
</tr>
<tr>
<td>6 U</td>
<td>2</td>
<td>3751.690</td>
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<tr>
<td>7 U</td>
<td>2</td>
<td>3751.640</td>
</tr>
<tr>
<td>9 U</td>
<td>2</td>
<td>3751.780</td>
</tr>
<tr>
<td>12 U</td>
<td>2</td>
<td>3751.790</td>
</tr>
</tbody>
</table>

### Threaded inserts with M4 thread for RiCase
For the installation of mounting angles, slide rails, mounting kits, cable ducts etc. Simply slide into the channels in the side panels.

**Material:**
Extruded aluminium section, clear-chromated

**Also required:**
Threaded inserts, see page 623.
Mounting rails, see page 623.
Spacers, see page 623.

<table>
<thead>
<tr>
<th>For enclosure height</th>
<th>Packs of</th>
<th>Model No. RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 U</td>
<td>8</td>
<td>3751.700</td>
</tr>
<tr>
<td>2 U</td>
<td>8</td>
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<tr>
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<td>8</td>
<td>3751.720</td>
</tr>
<tr>
<td>4 U</td>
<td>8</td>
<td>3751.730</td>
</tr>
<tr>
<td>6 U</td>
<td>8</td>
<td>3751.740</td>
</tr>
<tr>
<td>7 U</td>
<td>8</td>
<td>3751.750</td>
</tr>
<tr>
<td>9 U</td>
<td>8</td>
<td>3751.760</td>
</tr>
<tr>
<td>12 U</td>
<td>8</td>
<td>3751.770</td>
</tr>
</tbody>
</table>

### Mounting rails
- For depth-variable installation of mounting angles
- For the installation of component shelves, static or pull-out

**Material:**
Aluminium, clear-chromated

**Supply includes:**
Assembly parts.

**Also required:**
Threaded inserts, see page 623.
Spacers, see page 623.

**Accessories:**
Component shelf, see page 1017.
Component shelf, 482.6 mm (19’’), see page 1013.

<table>
<thead>
<tr>
<th>For enclosure depth mm</th>
<th>Packs of</th>
<th>Model No. RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>2</td>
<td>3751.400</td>
</tr>
<tr>
<td>420</td>
<td>2</td>
<td>3751.410</td>
</tr>
<tr>
<td>540</td>
<td>2</td>
<td>3751.420</td>
</tr>
</tbody>
</table>

### Spacers
For the attachment of mounting rails.

**Design**
- Short for depth-variable mounting bracket
- Long for component shelf installation (width 409 mm)

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
<th>Model No. RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short for depth-variable</td>
<td>4</td>
<td>3751.450</td>
</tr>
<tr>
<td>mounting bracket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long for component shelf</td>
<td>4</td>
<td>3751.460</td>
</tr>
<tr>
<td>installation (width 409 mm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Slide rails**
To support heavy installed equipment.

**Material:**
1.5 mm sheet steel, passivated

**Supply includes:**
Assembly parts.

**Earthing set**
for RiCase
To meet electrical protective measures; fits all RiCase enclosures.

**Supply includes:**
Threaded insert, screw, green/yellow connection cable, serrated washer, nut.

**Rear trim**
To cover the sides to the left and right of the subrack when no rear door or rear panel is used.

**Material:**
Extruded aluminium section, spray-finished

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

**Carrying handles**
horizontal
For easy, secure transportation.
- May be retrofitted
- Load capacity 30 kg/pair

**Material:**
Side parts: Die-cast, spray-finished
Centre part: Extruded aluminium section, spray-finished

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.
Support stand/carrying handle

- Support stand/carrying handle adjustable in 30° increments
- Suitable for retrofitting to 2 – 7 U.
- For 269.2 mm (1/2 19″) and 482.6 mm (19″) wide enclosures
- Load capacity 30 kg

Material:
Hinged part: Die-cast, spray-finished
Centre part: Extruded aluminium section, spray-finished with plastic cover

Colour:
RAL 7035

Decorative colours:
1. RAL 7030 (stone grey)
2. RAL 5018 (turquoise)
3. RAL 5012 (pale blue)

Supply includes:
Assembly parts.

Keyboard lid

Suitable for the installation of 482.6 mm (19″) keyboards.
- Horizontally hinged with security lock
- Removable cover plate

Material:
Frame section: Extruded aluminium section/die-cast, spray-finished
Base and cover plate: Aluminium, spray-finished

Colour:
RAL 7035

Supply includes:
Assembly parts.

Front door

Vertically hinged
For mechanical protection of built-in control components.
- Optionally hinged on the right or left
- With security lock

Material:
Frame section: Extruded aluminium section, spray-finished
Corner pieces: Die-cast aluminium, spray-finished
Glazed pane: Smoked acrylic

Colour:
RAL 7035

Supply includes:
Assembly parts.
Instrument cases/system enclosures

Rittal RiCase accessories

Aluminium front door
vertically hinged
For mechanical protection of built-in control components.
- Optionally hinged on the right or left
- With security lock

Material:
Frame section: Extruded aluminium section, spray-finished
Corner pieces: Die-cast aluminium, spray-finished
Aluminium plate

Colour:
RAL 7035

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>W (B) mm</th>
<th>H (U) mm</th>
<th>Model No. RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>482.6 (19&quot;)</td>
<td>503</td>
<td>3</td>
<td>3751.360</td>
</tr>
<tr>
<td>482.6 (19&quot;)</td>
<td>503</td>
<td>4</td>
<td>3751.370</td>
</tr>
<tr>
<td>482.6 (19&quot;)</td>
<td>503</td>
<td>6</td>
<td>3751.380</td>
</tr>
</tbody>
</table>

Front door
for tower enclosure
For mechanical protection of built-in control components.
- Optionally hinged on the right or left
- With security lock

Material:
Frame section: Extruded aluminium section, spray-finished
Corner pieces: Die-cast aluminium, spray-finished
Glazed pane: Smoked acrylic

Colour:
RAL 7035

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>W mm</th>
<th>H (U) mm</th>
<th>Model No. RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>482.6 (19&quot;)</td>
<td>503</td>
<td>3</td>
<td>3751.390</td>
</tr>
<tr>
<td>482.6 (19&quot;)</td>
<td>503</td>
<td>4</td>
<td>3751.430</td>
</tr>
</tbody>
</table>

Tower feet
For vertical siting of enclosures. May be retrofitted.

Material:
Plastic to UL 94-V0, self-extinguishing

Decorative colours:
1. RAL 7030 (stone grey)
2. RAL 5018 (turquoise)
3. RAL 5012 (pale blue)

Supply includes:
4 tower feet, assembly parts.

<table>
<thead>
<tr>
<th>Decorative colour RAL</th>
<th>Packs of</th>
<th>Model No. RC</th>
</tr>
</thead>
<tbody>
<tr>
<td>5018</td>
<td>1 set</td>
<td>3751.850</td>
</tr>
<tr>
<td>5012</td>
<td>1 set</td>
<td>3751.852</td>
</tr>
<tr>
<td>7030</td>
<td>1 set</td>
<td>3751.854</td>
</tr>
</tbody>
</table>
**Rittal RiCase accessories**

### Back panel
**screw-fastened**
To close off the rear.

**Material:**
2/3 mm aluminium, natural-anodised

**Supply includes:**
Two 482.6 mm (19") mounting brackets, assembly parts.

### Rear door
**vertically hinged**
To close off the rear.

- Hinged, with security lock
- Optionally hinged on the left or right

**Material:**
Aluminium, spray-finished

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

### Rear door
**for fan installation**
To close off the rear.

- With security lock
- Optionally hinged on the left or right
- For the installation of 120 mm fans

**Material:**
Aluminium, spray-finished

**Colour:**
RAL 7035

**Supply includes:**
Assembly parts.

### Table: Back panel

<table>
<thead>
<tr>
<th>For enclosure width mm</th>
<th>H (U)</th>
<th>Packs of</th>
<th>Model No. RC</th>
</tr>
</thead>
<tbody>
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<td>3751.600</td>
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<tr>
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<td>3751.610</td>
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<tr>
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<td>1</td>
<td>3751.620</td>
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<tr>
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<td>3751.630</td>
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<td>1</td>
<td>3751.530</td>
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<tr>
<td>482.6 (19&quot;)</td>
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<td>1</td>
<td>3751.540</td>
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</table>

### Table: Rear door

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<th>H1 mm</th>
<th>Model No. RC</th>
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</thead>
<tbody>
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<tr>
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<td>83.50</td>
<td>3751.180</td>
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</tbody>
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### Accessories:
- Fan expansion kit, see page 706.
- Blanking plates, see page 1100.
- Hinged blanking plates, see page 1100.
- Ventilation front panels, see page 1100.
- M6 assembly screws, see page 1105.
- Captive nuts M6, see page 1105.