



The **RPC** capacitor racks have been specifically designed for installation inside panels made up of a modular structure suitable for housing 19-inch racks. This dimension is the market standard for hardware elements (eg UPS, servers, routers, ...) to be inserted into cabinets for **Data** and **Power Centers**.

## PERFORMANCE DATA

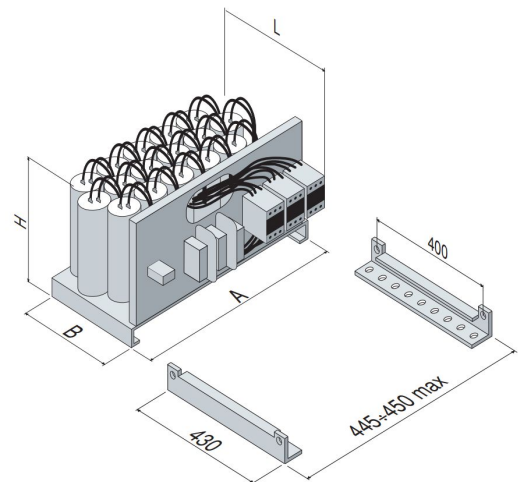
- Capacitance tolerance      -5% / +10
- Rated frequency            50 Hz
- Supply                         Three-phase + ground
- Max. allowable voltage      1,1 Un (max. 8 /24 h)
- Safety device                 Overpressure disconnecter
- Auxiliary circuits             230 Vac (110 Vac on request)

## HARMONIC CONTENT (in absence of resonance)

- RPC-B15:                    THD(I)max. = 15%      in rete
- RPC-B50:                    THD(I)max. = 35%      in rete

## TECHNICAL DATA

|                      |   |
|----------------------|---|
| Frame                | In galvanized steel sheet.  |
| Ventilation          | Not provided. By the installer / assembler.   |
| Installation         | Indoor, in carpentry not exposed to direct sunlight.  |
| Degree of protection | IP 00.  |
| Fuses                | Capacitive banks are protected by three fuses. The protection system of the power circuits (fuses NH-00 curve gG) foresees the use of fuses with high breaking capacity (100kA).  |
| Contactors           | Suitable for switching capacitive loads with pre-insertion resistors.   |
| Capacitors           | <p>Single-phase capacitors in self-regenerable metallised polypropylene (MKP), equipped with an explosion-proof device and discharge resistance. They are impregnated in vegetable oil, free of PCBs. Triangle connection. Type of continuous service.</p> <ul style="list-style-type: none"> <li>• rated voltage / max. voltage: <ul style="list-style-type: none"> <li>- B15: 415 Vac / 450 Vac</li> <li>- B50: 500 Vac / 550 Vac</li> </ul> </li> <li>• overvoltage: 1.1 x Un (8h / 24h)</li> <li>• current overload: 1.3 x In</li> <li>• tolerance on capacity: -5% / + 10%</li> <li>• dissipation losses: ≤0.4 W / kvar</li> </ul> |
| Thermal category     | -25°C / D.  |
| Room temperature     | -5°C / +40°C  |



## QUALITY AND TESTING

- Regulations                    IEC / EN 60831-1/2. EN 61921.
- European directives        Low voltage: 2014/35/CE; Electromagnetic compatibility: 2014/30/CE.

### CONFIGURATIONS

#### Notes

- Rated power is expressed at 415 V - 50 Hz.
- To protect the capacitor banks, an insulation and protection device must be installed in the power supply line. Racks must be grounded.

The racks are available in two different versions, for applications with different voltage harmonic content allowed on the network

**RPC-B15:** THD(I)max. = 15% on the network  
THD(Ic)max. = 50% on the capacitors

**RPC-B50:** THD(I)max. = 35% on the network  
THD(Ic)max. = 80% on the capacitors

#### Table

| Code          | Type    | Qn<br>(kvar) | In<br>(A) | Power per bank |      |    | Steps<br>combination<br>(n) | Dimensions<br>A x B x L x H (mm) | Weight<br>(kg) |
|---------------|---------|--------------|-----------|----------------|------|----|-----------------------------|----------------------------------|----------------|
|               |         |              |           |                |      |    |                             |                                  |                |
| 8701412250320 | RPC-B15 | 25           | 35        | 12,5           | 12,5 |    | 2 x 12,5                    | 440 x 340 x 490 x 270            | 11             |
| 8701412375320 | RPC-B15 | 37,5         | 52        | 12,5           | 25   |    | 3 x 25                      | 440 x 340 x 490 x 270            | 13             |
| 8701412500320 | RPC-B15 | 50           | 70        | 12,5           | 12,5 | 25 | 4 x 12,5                    | 440 x 340 x 490 x 270            | 17             |
| 8701412750320 | RPC-B15 | 75           | 104       | 25             | 25   | 25 | 3 x 25                      | 440 x 340 x 490 x 270            | 19             |
| 8701413100320 | RPC-B15 | 100          | 139       | 25             | 25   | 50 | 4 x 25                      | 440 x 340 x 490 x 270            | 23             |
| 8701414010320 | RPC-B15 | 100          | 139       | 50             | 50   |    | 2 x 50                      | 440 x 340 x 490 x 270            | 23             |
| 8721412250350 | RPC-B50 | 25           | 35        | 12,5           | 12,5 |    | 2 x 12,5                    | 440 x 340 x 490 x 270            | 13             |
| 8721412375350 | RPC-B50 | 37,5         | 52        | 12,5           | 25   |    | 3 x 25                      | 440 x 340 x 490 x 270            | 15             |
| 8721412500350 | RPC-B50 | 50           | 70        | 12,5           | 12,5 | 25 | 4 x 12,5                    | 440 x 340 x 490 x 270            | 19             |
| 8721412750350 | RPC-B50 | 75           | 104       | 25             | 25   | 25 | 3 x 25                      | 440 x 340 x 490 x 270            | 21             |
| 8721413100350 | RPC-B50 | 100          | 139       | 25             | 25   | 50 | 4 x 25                      | 440 x 340 x 490 x 270            | 25             |
| 8721414010350 | RPC-B50 | 100          | 139       | 50             | 50   |    | 2 x 50                      | 440 x 340 x 490 x 270            | 25             |

Other solutions are available upon request.