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CombiCard 1000-3000 Enclosure Series

Created by Bopla to overcome the limitations of standard "off-the-shelf" housings, the flexible CombiCard system provides the engineer with the capacity to adapt an enclosure to specific needs. Modular front, center and rear sections can be linked together in various combinations to produce a multitude of custom enclosure designs.

The CombiCard system is manufactured in ABS plastic, clear doors are polycarbonate. Modular sections are offered in three different external frame dimensions: 5¼" x 5½" (System 1000), 7¼" x 5½" (System 2000), and 11" x 5½" (System 3000).

The depth of CombiCard combinations is variable depending on the number of modular sections joined together. When assembling CombiCard combinations, front, center, and rear sections are linked together by a set of four aluminum tie bars. These bars pass through molded-in channels in the corners of each modular section. Screws supplied with the front and rear sections attach into the ends of the bars drawing all sections together to make one complete enclosure. Tongue and groove channel, with a gasket between sections, provides dust/watertight sealing. Front and/or rear sections can also be hinged to allow easy access to internal components. Optional card frame accessories accommodate the installation of single height VME bus boards, modular plug-in power supplies, etc. Back planes are offered in DIN 41612, DIN 41617 and press-in mother-board varieties.

CombiCard combinations can be panel mounted (DIN 43700), wall mounted or equipped with prop-up handle for table-top applications.

◆ Front Lids
◆ Front Frames
◆ Front Frames with Protective Doors
◆ Front Panels
◆ Bases for Control Panel Mounting
◆ Bases
◆ Low Bases
◆ Rear Lids
◆ Rear Lids with Terminal Compartments
◆ Hinges for Front Parts and Bases
◆ Hinges for Rear Parts and Bases

◆ Tie Bar Sets
◆ Front Panels
◆ Internal Mounting Panels
◆ Front Panels for Base Parts
◆ Mounting Plates for Rear Wall Lid
◆ Feet
◆ Handles
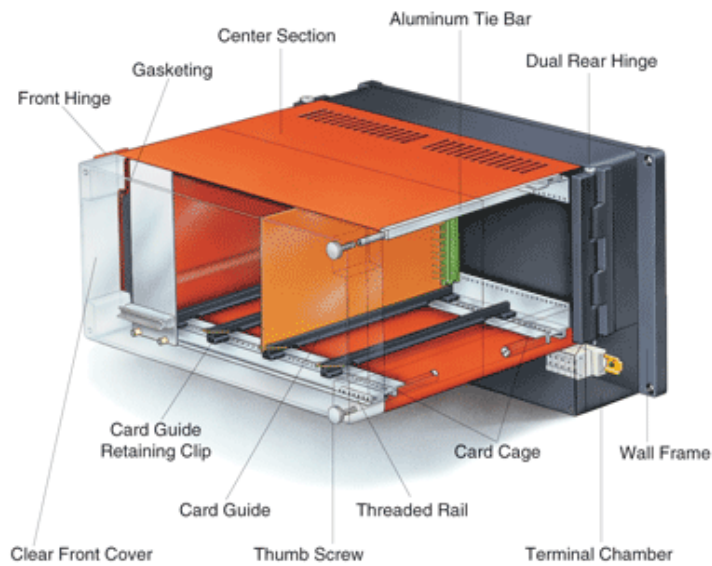◆ Wall Frames
◆ Cylinder Lock
◆ Knurled Screw
◆ Terminal Compartment Lid Hinge

Example of a CombiCard enclosure
with clear front door, front/rear
▼ hinges and rear cover with
terminal chamber

TECHNICAL DATA:

- Color: Base parts light gray, similar to RAL 7035; front lid in G-version, crystal clear; front and rear parts graphite gray, similar to RAL 7024. Special colors available on request, minimum quantity applies.
- Material: ABS, polycarbonate Front Lids (FD...G), for standard product.
- Gasket Material: Neoprene.
- Ingress Protection depending on combined system parts: IP65/DIN VDE 0470 NEMA 12
- Surface Resistance: ABS, $>10^{14}$ Ohm to DIN 53482

  Polycarbonate, $>10^{15}$ Ohm to DIN 53482.
- Disruptive Strength: ABS, 17KV/mm to DIN 53481
  Polycarbonate 28KV/mm to DIN 53481.
- Flammability: ABS, UL 94 HB/1.6 Polycarbonate, UL 94 V2/1.14.
- Temperature Range: -40ºF to +194ºF.
- Note: These enclosures are not suitable for areas exposed to fuel, oil or petrol.
- Approvals: Germanisher Lloyd, certificate 91 183-84 HH in special materials. Certification was carried out for UL 94 V0 materials only.
  – clear front lid: Lexan 940 A
  – other enclosure system parts: Noryl HF 185.
  – Minimum order quantities 500+.

RoHS

Please take the following into account when selecting system parts:

- All front, base and rear parts in a basic size can be combined with each other.
- The different enclosure parts can be hinged to each other.
- Front and rear parts can also be mounted direct-without base part.
- Special tie bar sets are required to assemble the selected enclosure configuration.

We recommend that Combi Card 1000-3000 systems be assembled and processed in our factory.

Front Hinge · Gasketing · Center Section · Aluminum Tie Bar · Dual Rear Hinge · Card Guide Retaining Clip · Card Guide · Card Cage · Wall Frame · Clear Front Cover · Thumb Screw · Threaded Rail · Terminal Chamber

We have attempted to present the information about our enclosures on this website in a straight-forward manner. We offer this information as accurate at the time of publication. Specifications are subject to change without notice. Bopla Enclosures is not responsible for inadvertent errors.
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