

Modular Switch Cabinets

EcoRCMP/EcoSCMP/EcoPSMP/EcoMCMP

Function Modular switch cabinets

The controller, the safety controller and the power supply of Dürr painting and sealing stations are arranged in modular switch cabinets. The modular design makes it possible to have the best possible configuration for the respective customer application process. Two cabinet versions, a high version and a low version, allow the switch cabinets to be physically arranged to suit the local space situation.

A distinction is made between the following switch cabinets with regard to functionality:

EcoRCMP (Robot Control Modular Panel):

Modular control cabinet for actuating any type of *Ecopaint* robot.

EcoSCMP (Station Control Modular Panel):

Station PLC controller with integrated safety-oriented part and control panel with PC and integrated monitor.

EcoPSMP (Power Supply Modular Panel):

Infeed panel for up to 6 robots or other Dürr products.

EcoMCMP (Manual Control Modular Panel):

Modular control cabinet for actuating manual painting stations or machine stations.

Highlights

- Extremely rapid integration, installation and start-up using plug-in cabling.
- Compact design saves space.
- Closed design means that cabinet can be positioned flexibly and independently.
- Minimum number of parts need to be stocked at the customer's.
- Maintenance and servicing work is simple, since the individual cabinets all have an identical design.
- All cabinets are pre-tested and extremely reliable.
- The cabinets are subjected to continuous product updating by Dürr and are documented with serial numbers.
- The UL variation is available for the US market (Underwriters Laboratories).

EcoSCMP with operating switchboard and display



EcoRCMP and EcoPSMP for painting system with 2 robots (low version)



EcoRCMP (low version)

Left: Power supply with air conditioning door

Right: Controller part

Bottom left and right: Plug for cabling



EcoRCMP (high version)

Technical data



	EcoMCMP	EcoPSMP	EcoRCMP	EcoSCMP
Cabinet dimensions (H x W x D) in mm	High: 2200 x 600 x 600 Low: 1200 x 1200 x 600	Low: 1200 x 600 x 600	High: 2200 x 600 x 600 Low: 1200 x 1200 x 600	Low: 1200 x 1200 x 600
Weight	approx. 500 kg	approx. 250 kg	approx. 500 kg	approx. 300 kg
Painting	RAL7035	RAL7035	RAL7035	RAL7035
Connected load	400 V AC, up to 6 kVA	400 V AC, up to 90 kVA	400 V AC, up to 8 kVA Opener up to 12 kVA	400 V AC, up to 3 kVA
Electrical output	(cos f 0.7) 1.4–2.8 kW	-	(cos f 0.7) 1.4–2.8 kW Opener up to 8.4 kW Application 0.8 kW	-
Incoming supply	-	L1, L2, L3, PE	-	-
Internal voltage	24 V DC with UPS, individually fused according to potential	-	24 V DC with UPS, individually fused according to potential	24 V DC individually fused according to potential
Ambient temperature	+ 5 to + 40°C	+ 5 to + 40°C	+ 5 to + 40°C	+ 5 to + 40°C
Air humidity	10 to 90 %	10 to 90 %	10 to 90 %	10 to 90 %
Interfaces (plug-in)	Feed line, MMI (<i>EcoScreen</i>)	Harting plug (HAN16) Infeed via connecting terminals	Feed line to PLC, to S.-PLC, to robot, to MMI (<i>EcoScreen</i>)	Feed line, to PLC, to S.-PLC, to robot, to MMI (<i>EcoScreen</i>)
Field bus interfaces	Slave (Profibus DP, Interbus, Device Net) Master (preferably Profibus DP)	-	Slave (Profibus DP, Interbus, Device Net) Master (preferably Profibus DP)	Slave (Profibus DP, Device Net) Master (preferably Profibus DP)
Network connections	RJ45 plug-in connection in acc. with Cat.5	-	RJ45 plug-in connection in acc. with Cat.5	RJ45 plug-in connection in acc. with Cat.5
Service connections	Ethernet	-	PHG and brake release unit	Ethernet
Variations	Modular design as per option list		Modular design as per option list	Modular design as per option list
Design	Electrical components mounted on: base frame, Lütze B, Lütze B chamber wiring	Electrical components mounted on mounting base, channel wiring	Electrical components mounted on: base frame, Lütze B chamber wiring (high version) Mounting base channel wiring (low version)	Electrical components mounted on galvanised mounting base
Labelling	Component labelling Component and frame	Component labelling with adhesive signs on components and mounting base		
Wire marking	In acc. with EN60204 Para. 14.2.1 all individual wires that are not routed via plugs are marked in the switch cabinet (destination labelling)		In acc. with EN60204 Para. 14.2.1 all individual wires that are not routed via plugs are marked in the switch cabinet (destination labelling)	
Documentation	as PDF file, layout plans, bus overviews, part lists, cable lists on CD (EPLAN file version 5.7 on request)			
Guidelines	89/336/EWG EMV guideline 2006/95/EWG Low-voltage guideline 98/37/EG Machine guideline			