

## ECONTROL COMFORT II



Control Panel for the automatic operation of 2 x Pumps

ECONTROL COMFORT 230/II

Voltage: 1~230V - 50 Hz

ECONTROL COMFORT 400/II

Voltage: 3~400V - 50 Hz

Type	max. Pump kW	Current A	Art. No.
ECONTROL COMFORT 230/II	0.37	2.5 - 4.0	6430000375
ECONTROL COMFORT 230/II	0.75	4.0 - 6.3	6430000376
ECONTROL COMFORT 230/II	1.1 kW	6.3 - 10.0	6430000132
ECONTROL COMFORT 230/II	2.2 kW	10.0 - 16.0	6430000133
ECONTROL COMFORT 400/II	0.75	1.6 - 2.5	6430001120
ECONTROL COMFORT 400/II	1.1 kW	2.5 - 4.0	6430000835
ECONTROL COMFORT 400/II	2.2 kW	4.0 - 6.3	6430000389
ECONTROL COMFORT 400/II	4.0	6.3 - 10.0	6430001123
ECONTROL COMFORT 400/II	5.5 kW	10.0 - 16.0	6430001138

Dimensions: 318 x 267 x 167 mm (Cover Material: glas-fibre-reinforced)

- Automatic operation with connected pressure-switch or float-switch
- Pump-Switch after each cycle; > equal operational hours per pump
- Back-Up Function
- Manual operation possible
- LED Display: 1 x Operation (green) and 1 x Malfunction/Error (red)
- Cable connections: 4 x M20 & 4 x M25  
(mains supply, 2 x pump, float-switch (dry-run), 2 x pressure-switch/float-switch, alarm)
- + Alarm Exit: potential-free contact for Central Building Control System (max. 230 V/4.0 A)
- ON/OFF Switch – lockable mains switch
- Overload Protection, Short Circuit Protection, Phase-malfunction protection
- dry-running protection via external device (float-switch)
- Connection possibility for external Alarm (Light/Buzzer)

## **EBARA E-Control 400/2 Comfort**

### **1. Description**

Electrical switch box for two pumps with three phases up to 4,0kW. Switching is possible with external niveau sensors or pressure switches. Delivery in plastic box, protection class IP63.

Includes a lockable, red/yellow coloured main switch, manual-off-automatic-switch for every pump, magnetic and thermal motor protection switch with optical control, operate and fault control lamp. Input possible up to 4 external limit switches: „operate“, „both pumps on“, „extern fault“ und „dry protection“. Potential-free contact for external optical or acustical signal equipment.

### **2. Function**

The external switch „operate“ starts one pump. After every changing between off and on from this switch the basic pump will be changed. This results in similar running time for both pumps.

When the switch „operate“ is active, the switch „both pumps on“ will activate the second pump. When the switch changes to inactive, the second pump will be switched off. This has no result in changing of the pumps. Active switch „both pumps on“ without an active „operate“ has no results. If „both pumps on“ is short connected, the switch „operate“ starts both pumps on the same time.

The switch „ext. Fault“ is used for signalisation for to high or to low niveau or other faults. This error will be signalised by the red lamp in the reset button, the potential free contact and the fault output contact. The ext. fault has no result in changing status of the pumps. For this take the switch „dry protection“.

With the switch „dry protection“ the automatic start of the pumps can be stopped. Attention! In this case be careful to switch to „manual“. This may cause in damaging your pumps because the „operate“ switch is not more controlled. It is not allowed to use this contact for protection against electrical or other critical errors. At delivery there is a bridge for this switch, if you don't want to use this option.

If one of the motor protection switches has switched off, the switch panel changes automatically to the second, intact pump. No changing pumps will be done up to switch on the motor protection. The red lamp fault from the pump indicates the error. The potential free contact and the fault output contact are active. For switching on the motor protection device you have to switch off the yellow/red main switch and open the case with a screw driver. Control the pump current with the technical data sheet of your pump and contact your dealer.

### **EBARA E-Control 400/2 Comfort**

In case of an error press the Reset-button. The external signal and the potential free contact will be switched off. The optical fault indication stays up to the error-situation will be solved.

#### **3. Technical Data**

Supply:	3x400V, N, PE
Current:	3x16A to 3x32A changin with type of control unit
On-time:	100%
Dimensions:	318x267x167 (HxWxD).
Protection class:	IP 63
Electrical class:	II (Isolated)
Fault output:	Potential free, max. 250V/5A
Fault output II:	230V, 50Hz, 2A