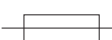
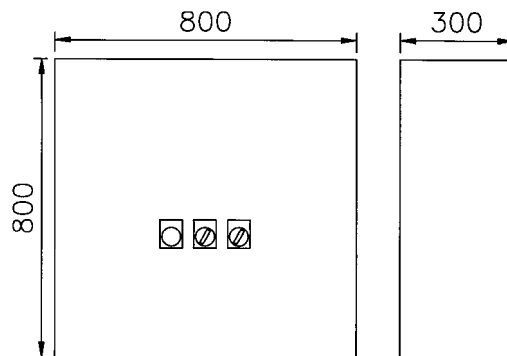


System Control Panel 1 Pump/Fan

Automatic and manual reduced voltage starting (Y/D) and automatic filter cleaning after operation. Control by PLC. External start signal can be connected to the control. Connection of the thermal protection from all turbo-pumps 15-30 kW. For intermittent running and timed control running,

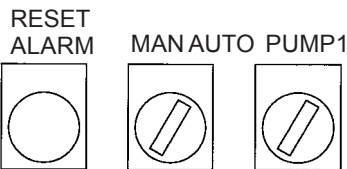
select one of the part numbers for start method as detailed on page 67. Options (pg. 67-68) that are ordered at the same time as the system control panel will be delivered built in.

Motor	U _n	 *)	Part No
5.5 kW	400 V	25 A	8500
7.5 kW	400 V	25 A	8505
9.2 kW	400 V	35 A	8510
11 kW	400 V	35 A	8515
15 kW	400 V	35 A	8520
18.5 kW	400 V	50 A	8525
22 kW	400 V	63 A	8530
30 kW	400 V	80 A	8535
5.5 kW	230 V	35 A	8501
7.5 kW	230 V	50 A	8506
9.2 kW	230 V	50 A	8511
11 kW	230 V	50 A	8516
15 kW	230 V	50 A	8521
18.5 kW	230 V	60 A	8526
22 kW	230 V	100 A	8531
30 kW	230 V	125 A	8536



INPUTS

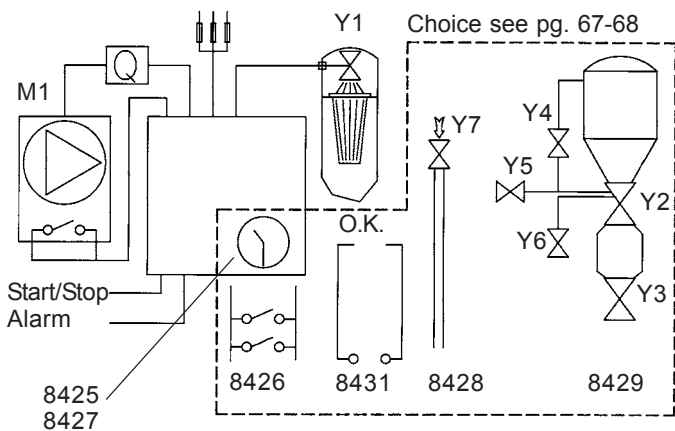
- MAIN CONTROL SWITCH
- START/STOP
- RESET ALARM
- MAN/AUTO
- THERMO PROTECTOR PUMP 1



OUTPUTS

- PUMP/FAN
- FILTER CLEANING
- ALARM THERMO PROTECTOR

Connections

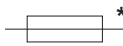


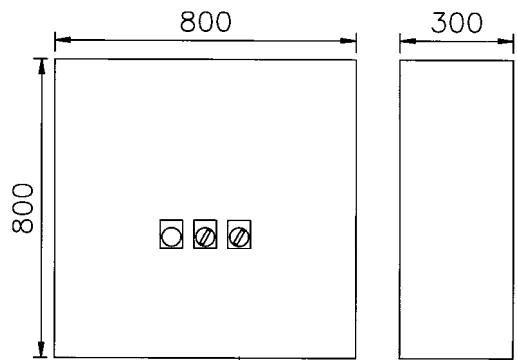
*) Recommended fusing without consideration to length of supply, temperature etc. Fusing should always be done according to the prevailing local requirements.

System Control Panel 2 Pumps/Fans

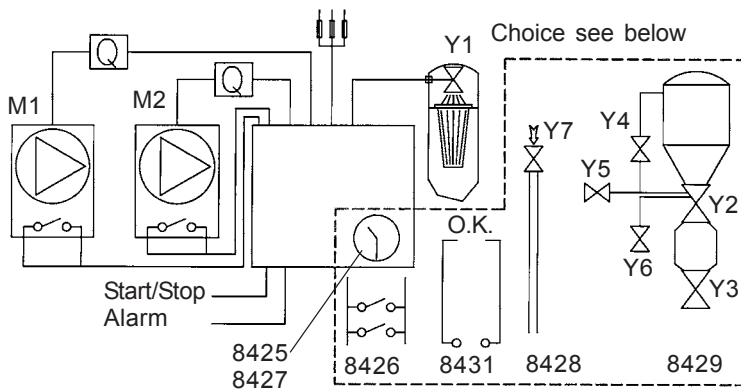
Automatic and manual reduced voltage starting (Y/D) and automatic filter cleaning after operation. The lag pump will be started and stopped on demand. Lead-lag order is alternated automatically. Control by PLC. External start signal can be connected to the control. Connection of the thermal protection

from all turbopumps 15-30 kW. For intermittent running and timed control running, select one of the part numbers for start method as detailed below. Options (pg. 67-68) that are ordered at the same time as the System Control Panel will be delivered built in.

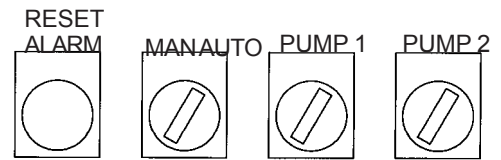
Motor	U _n	 *)	Part No
2x5.5 kW	400 V	25 A	8540
2x7.5 kW	400 V	35 A	8545
2x9.2 kW	400 V	50 A	8550
2x11 kW	400 V	50 A	8555
2x15 kW	400 V	63 A	8560
2x18.5 kW	400 V	80 A	8565
2x22 kW	400 V	100 A	8570
2x30 kW	400 V	100 A	8575



Connections

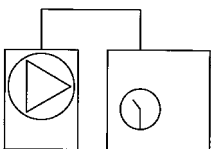


- INPUTS**
- MAIN CONTROL SWITCH
 - START/STOP
 - START SIGNAL 2:ND PUMP/FAN
 - STOP SIGNAL 2:ND PUMP/FAN
 - RESET ALARM
 - MAN/AUTO
 - THERMO PROTECTOR PUMP 1
 - THERMO PROTECTOR PUMP 2



- OUTPUTS**
- PUMP/FAN 1
 - PUMP/FAN 2
 - FILTER CLEANING
 - ALARM THERMOPROTECTOR

Choice start/stop

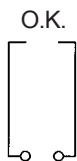


- Part No.**
- 8425 Electronic clock, weekly, programable
 - 8427 Electronic clock, yearly, programable

Continious choice see next page.

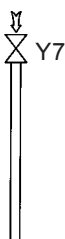
*) Recommended fusing without consideration to length of supply, temperature etc. Fusing should always be done according to the prevailing local requirements.

Choice System Control Panel cont.

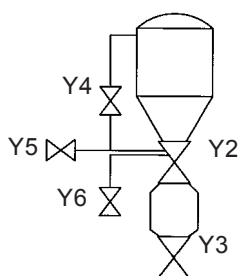


Part No

8431 Running time counter per pump/fan. Clear signal for external systems. Sends a clear signal when vacuum is present.



8428 Clean out valve function. Opens clean out valve before pump shut off to clear main tubing run.



8429 Airlock control including expanded PLC. Controls signals upper (Y2) and lower (Y3) valve as well as pressure equalization valves (Y4, Y5, Y6) used on larger diameter airlocks (ø250 and ø400 mm). Sequence see pg. 30. Signals 24 VAC.

Accessories to the System Control

Part No.
8430 Additional running time counter.

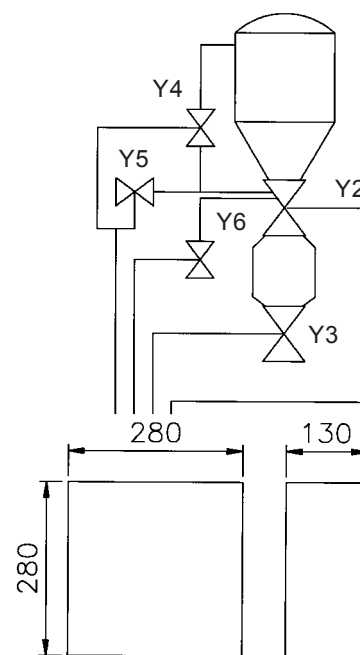
Spare parts to the System Control

Part No.
40967 PLC (micro processor)

Airlock Control Panel

Art. No. 8015

The control for peristaltic airlocks is delivered in a separate enclosure and includes a PLC that controls the function of the airlock, see p 30. Power supply is 230 V AC.



Special Control Panels

Control panels can be built for special applications. Several examples would include controls for auger discharge or control of shutter valves in the tubing system main lines for capacity optimization. When ordering, specify the function required precisely and use clear descriptive names of the components and functions required.