

FOG SYSTEM Control Cabinet BV



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Important

Please read, heed and follow the enclosed safety information and the warning labels inside the control cabinet before installation or maintenance.

Warnings & safety symbols



Warning: This symbol is used to designate a danger of injury or potential damage to the system.



Caution: High voltages are present inside the control cabinet. All works concerned with the electrical installation must be carried out by skilled and qualified personnel.



Warning: the end user should ensure that the equipment be disposed of according to the local prevailing regulations.

Delivery and storage

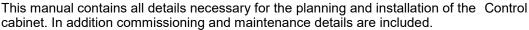
Any loss or damage during delivery should be reported to carrier by registered letter within 3 working days and be advised to **devatec** or to authorized dealer.

It is recommended that the Control Cabinet be kept in its transit packaging for as long as possible prior to maintenance. If the control cabinet is to be put into storage prior to installation, it must be stored under cover and protected from physical damage, dust, frost, rain and humidity. More than 6 months storage is not recommended.





General



The manual is intended for use by engineers and properly trained technical personnel. Maintenance, servicing or repair work must only be carried out by suitable skilled and qualified personnel, the customer must be responsible for ensuring their suitability.

Any risks or hazards, especially when working from ladders or towers should be identified by a skilled and Health and Safety representative and effective control measure put in place.

No liability will attach to the Distributor if any damage, injury or accident is attributable to inattentive, inappropriate, negligent or incorrect operation of the machinery whether or not caused deliberately. Always isolate all electrical and water supplies before commencing any maintenance.

Every effort has been made to ensure details contained in this manual are correct, however, in view of the wide range of conditions experienced in air handling systems, the information provided should only be used as a guide. Please contact your Agent if any doubt.

Correct use

The Control cabinet are intended for the exclusive use of air humidifiers type BUS, air handling unit or room environment within the limits of the specified operating conditions. Any other use is considered to be non-compliant and may render the system unsafe.

Electricity

All work concerned with electrical installation MUST only be performed by skilled and qualified technical personnel (eg electrician or technicians with appropriate training). The customer MUST be responsible for ensuring their suitability.

It is the duty of the installer to ensure that suitable sized cables and MCB protection is provided. Please observe the local regulations concerning the provision of electrical installations.



Warranty

A one year warranty term materials and workmanship is applicable to the parts of the Control Cabinet .

Notes

The manufacturer's policy is one of continuous research and development. He therefore reserves the right to amend without notice the specifications given in this document.

The photographs are for illustrating purposes only.





devatec sas

Rue Feu St Eloi 76550 Ambrumesnil France

Confirms that the Control Cabinet is manufactured in compliance with the European regulations 2002/95/EU (RoHS).

This guideline regulates after July 1st 2006 the use of mercury, cadmium, lead (soldering processes), chrome VI as well as PBB and PBDE. Control Cabinet manufactured previously to this date may contain above materials.

Name : MINFRAY Jean-Marie Position : R&D Engineer

Date: 01/10/2017

Signature:



CONTROL CABINET Delivery contents & Dimensions



Any loss or damage during delivery should be reported to carrier by registered letter within 3 working days and be advised to **devatec** or to authorized dealer.

It is recommended that the Control Cabinet be kept in its transit packaging for as long as possible prior to maintenance. If the humidifier is to be put into storage prior to installation, it must be stored under cover and protected from physical damage, dust, frost, rain and humidity. More than 6 months storage is not recommended.

What is in the box :

1. One Control Cabinet (with display)

Options::

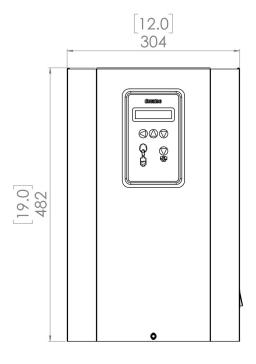
Remote information board

Outdoor enclosure protection

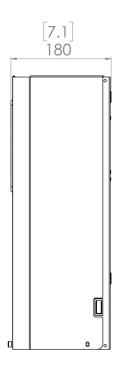
Humidity high limit switch

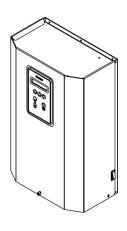
UV Lamp

Humidity sensor











CONTROL CABINET Installation steps



All works concerned with electrical installation must be carried out by a skilled and qualified personnel.

Please read, heed and follow the enclosed information for the installation of the humidifier and the steam, water and electrical networks.

For further technical assistance, feel free to call devatec.

Failure to adhere to manufacturer's installation recommendations will invalidate your warranty.

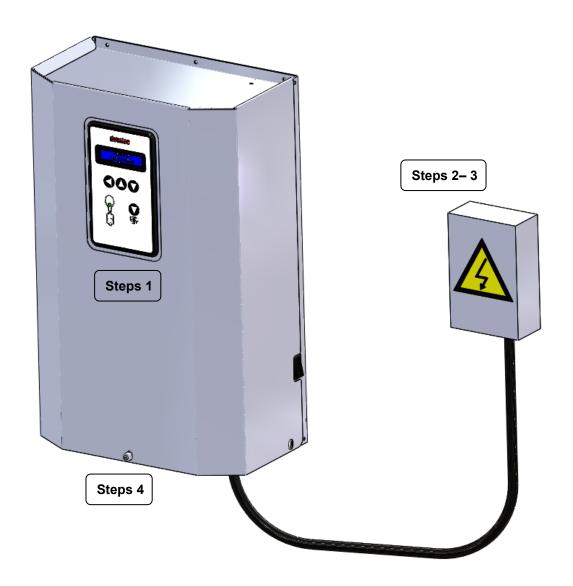
Steps

Setp 1 - Placing and wall attachment

Step 2 - Electrical connection

Step 3 - Control connection

Step 4 - Air connection







How to install the control cabinet on wall

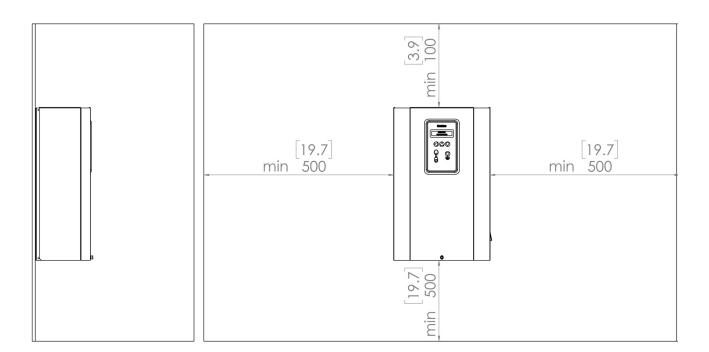
Installation tips:

The Control cabinet should be operated within 5°C and 40°C in a room with less than 80% of humidity.

When in operation, the rear panel becomes hot (60°C) so do not hang the humidifier on a heat sensitive surface.

The Control cabinet have been developped to be hanged on wall. Before installation, make sure that the surface material is strong enough to hold the control cabinet.

Consider free space around the humidifier to allow easy access for maintenance purposes (s.a. here under sketches).







Installation on wall

Nota:

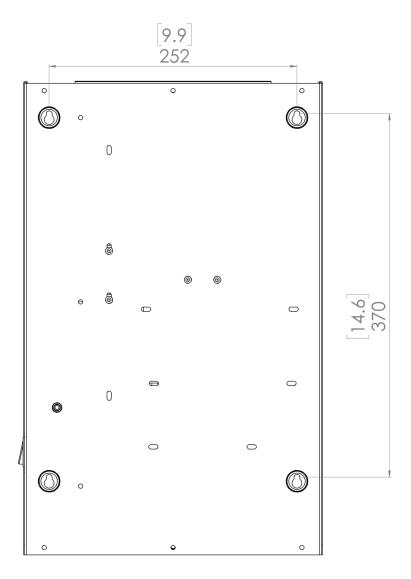
Use installation equipment and material appropriate to the surface on which the unit should be hanged .

Method:

Mark and drill the mounting holes for 6 mm screws (s.a. the drilling distance table) : Control Cabinet : 4 mounting screws.

Insert pegs in holes and the upper screws. Allow about 10 mm for hanging the cabinet.

Hang the cabinet and level it vertically and horizontally. Screw up the upper screws and then screw up the lower screws.





CONTROL CABINET Installation - Step 2



RECOMMENDATION:



All works concerned with the electrical installation must be carried out by skilled and qualified personnel (eg electrician with appropriate training). The customer is responsible for ensuring their suitability. Please observe local regulations concerning the provision of electrical installations.



Check all electrical terminal screws at commissioning, after 50 hours operation and at every service thereafter.



Take care: the Control cabinet, electronic components are very sensitive to electrostatic shocks. Appropriate steps must be taken before any operation.



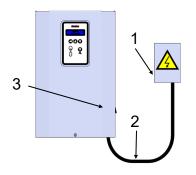
CONTROL CABINET Installation - Step 2

ELECTRICAL CONNECTIONS



All works concerned with electrical installation must be carried out by a skilled and qualified personnel.

Make sure that all incoming power supplies are isolated before installation and maintenance of the Control Cabinet

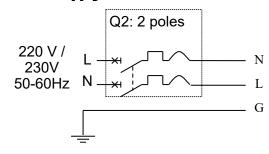


- 1 Power supply isolator and MCB (Customer supply))
- 2 Power supply cable
- 3- Electrical compartment

WARNING:

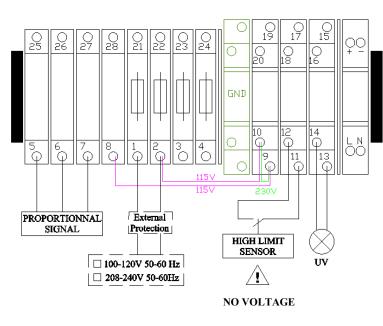
Failure to fit an electrical power isolator and MCB as part of the electrical installation significantly increases the risk of electric shock, which can be fatal.

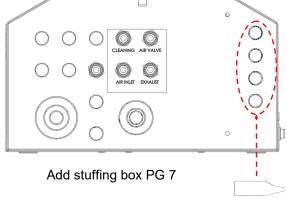
1- Power supply isolator and MCB (near the unit)

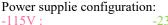


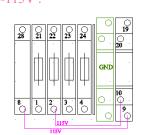
Q2: MCB and electrical power isolation Q2: MCB and electrical power isolation

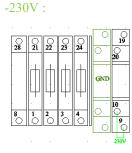
3- Electrical compartment











<u>^</u>

Failure to observe manufacturer's installation recommendations will invalidate the manufacturer's warranty.

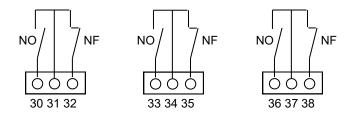


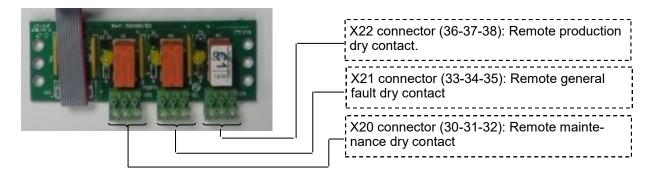
ALL WORKS CONCERNED WITH ELECTRICAL INSTALLATION MUST BE CARRIED OUT BY A SKILLED AND QUALIFIED PERSONNEL



REMOTE INFORMATION BOARD (OPTION)

Contact can be modified in NO or NF by wiring as per the following schemes (ex: wiring on 30 & 31 = NO contact).





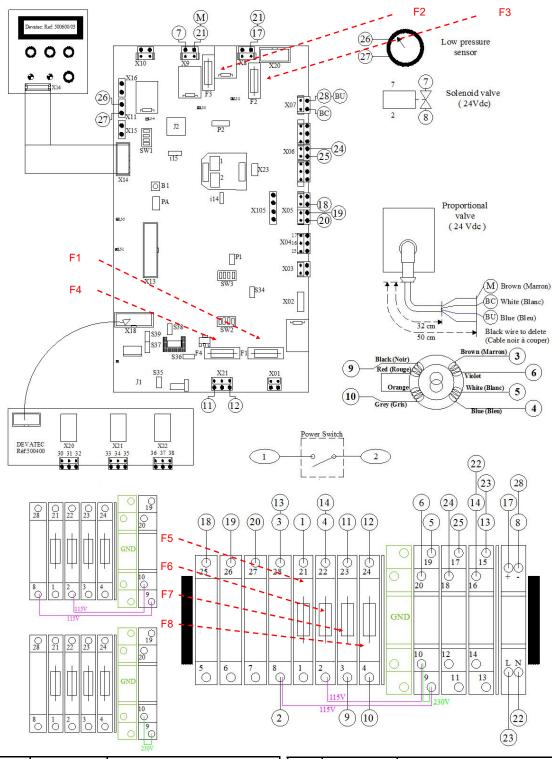


The wiring of the optional equipment described under must be made with 0.75 mm2 flexible shielded cable.



CONTROL CABINET Installation - Step 2

WIRING SCHEME



Mark	Intensity	Fuse function	
F1	2A Temporised	Protection of UV Lamp	
F2	2A Temporised	Protection of the purge valve	
F3	2A Temporised	Protection of the distributor	
F4	2A Temporised	Protection of the electronic boards	

Mark	Intensity	Fuse function
F5	2A Temporised	Protection power supply L
F6	2A Temporised	Protection power supply N
F7	2A Temporised	Protection after transformer
F8	2A Temporised	Protection after transformer



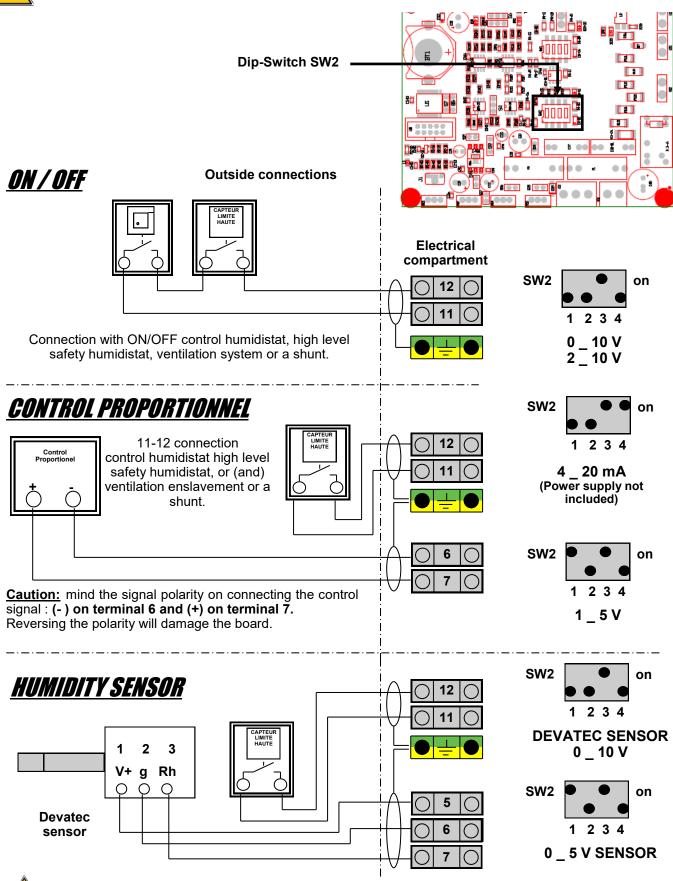
ALL WORKS CONCERNED WITH ELECTRICAL INSTALLATION MUST BE CARRIED OUT BY A SKILLED AND QUALIFIED PERSONNEL



CONTROL CABINET Installation - Step 3



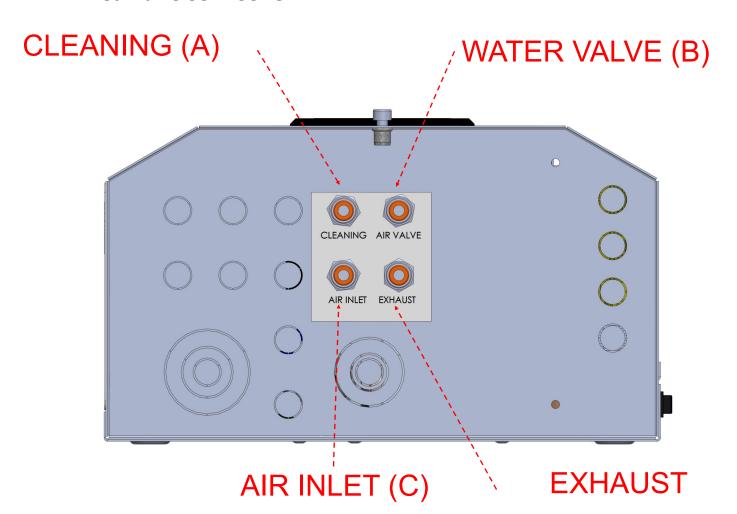
Use maximum 0.75 mm2 flexible shielded cable for the connection of the control signal.



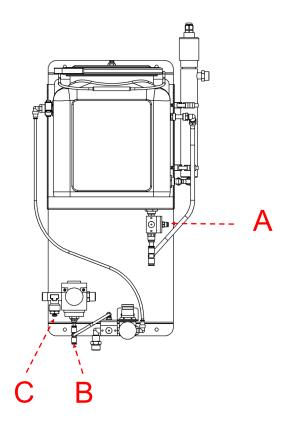
ALL WORKS CONCERNED WITH ELECTRICAL INSTALLATION MUST BE CARRIED OUT BY A SKILLED AND QUALIFIED PERSONNEL



Pneumatic connection



For BV nozzles connections,
See technical manual





CONTROL CABINET Setting up



Before putting your Control Cabinet in operation, please make sure that your installation is in conformity with the manufacturer's technical specifications.

- Make sure that terminals 1 & 2 are jumped (in case in there is no high limit switch) otherwise the Control Cabinet will not start up.
- Switch on the main power supply.
- Switch on I the I/O (on/off) rocker switch.



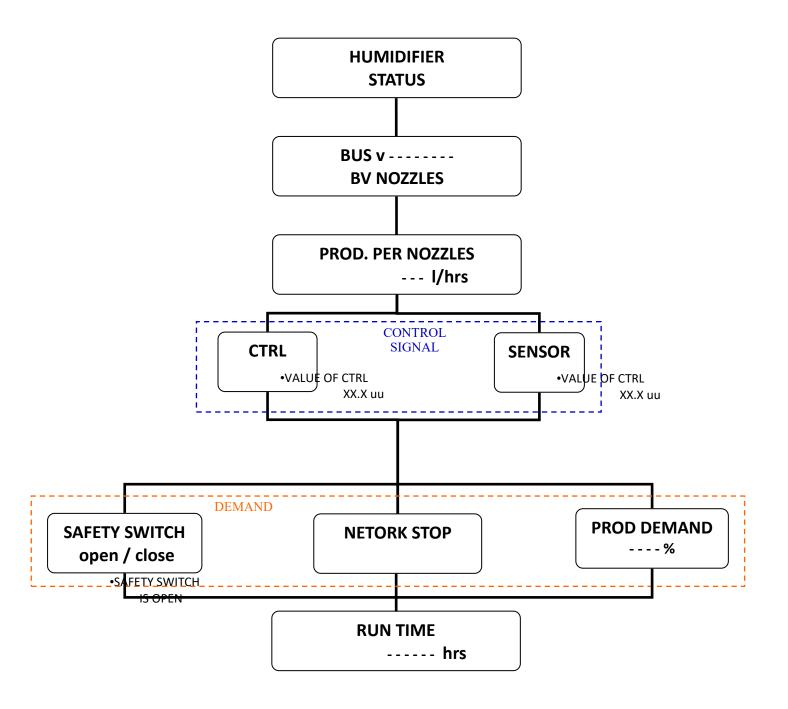
Control Cabinet identification label stuck under and shielded by the front panel polycarbonate label.

This identification label provides the following information: Control Cabinet, unit serial number, power

Fog System Control Cabinet Model BUS BV	devatec +33 2 35 83 06 44 www.devatec.com
Rated Voltage 115V 230V	☐ 50-60 Hz
Rated Power 100W Ref :	
Air Pressure Max: 8 bar	

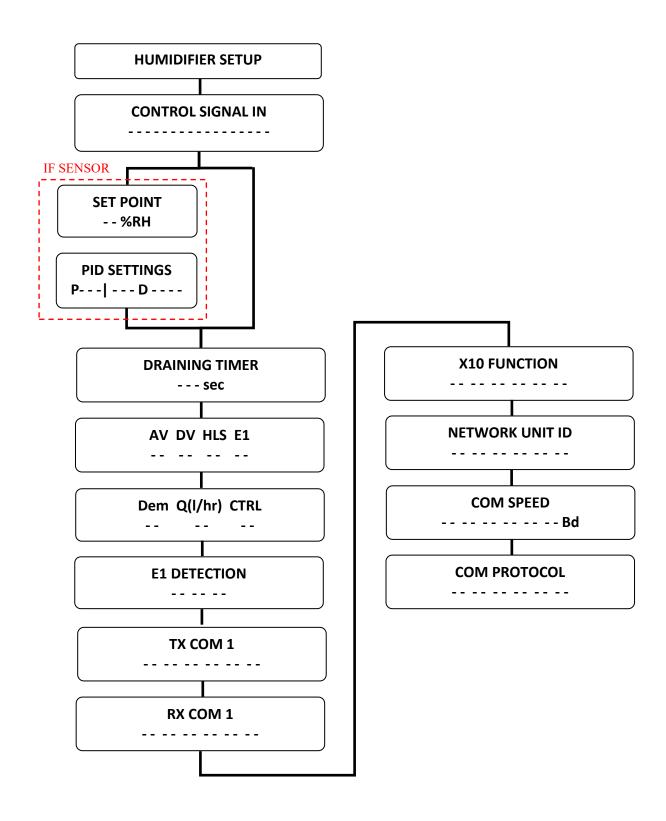


CONTROL CABINETSystem management





CONTROL CABINET System management





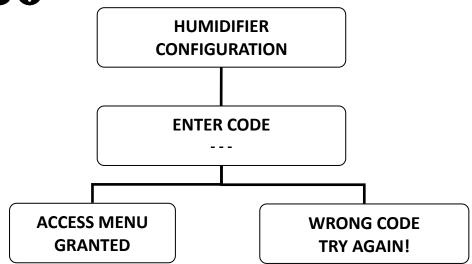
CONTROL CABINET System management Configuration changing menu

ATTENTION



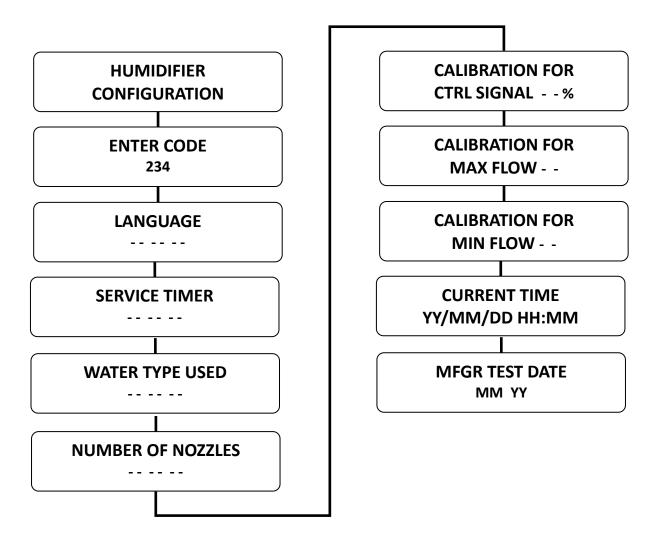


- A press on button 1 will allow you to shift to sub-menu for changing configuration parameters.
- Then scroll display using the up (2) or down (3) keys.
- The selected parameter will flash and press return key (1) for recording.





CONTROL CABINET System management Configuration changing menu



Default message

ERROR E1 E1: LOW INLET AIR PRESSURE

How to resolve this default

- Check your inlet air pressure to the manometer (From 2.5 to 4 bar)
- Check the filter regulator if it's not blocked
- · Check if the inlet air is connected and opened
- · Check if the compressor work correctly



CONTROL CABINET Maintenance - Spare parts

Routine services

- After the control cabinet has run for about one hour time, check for any leakage
- A complete inspection of all the unit should be made after 50h after the first running and every year of operation. Any faulty or damaged parts must be replaced to work properly.

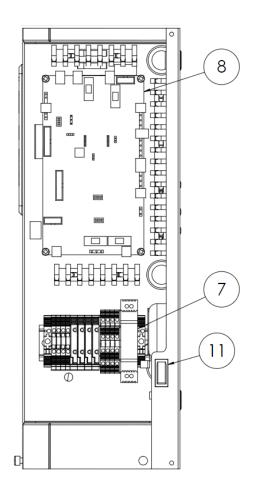


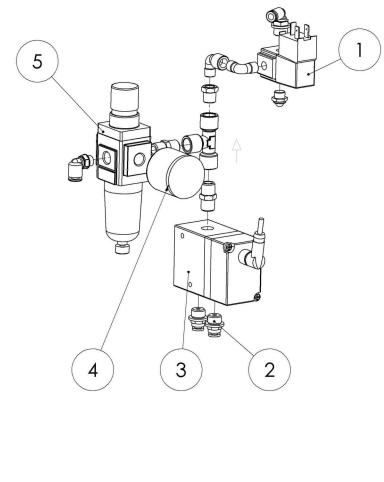
Caution

Always turn off the control cabinet before commencing any maintenance and refer to the instructions given in this manual.

The Control cabinet includes live electrical components. All maintenance must only be carried out by skilled and qualified personnel.

Rep	Code	Description	
1	930310	Distributor 24VDC	
2	930319	Quick connection 4/6	
3	930311	Proportional solenoid valve	
4	930263	Manometer	
5	930267	Pressure gauge	
7	930265	Power Supply 24VDC	
8	930374	PCB Main Board	
11	930100	Switch ON/OFF	







CONTROL CABINET Notes









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