Air Control Panels

5930XX – Control Box,Air Solenoids

Hydro-Chem, Inc.
6605 Broadmoor Ave SE
Caledonia, MI 49316

Office: (616) 531-6420
e-mail: service@hcsclean.com

Part Number	593065	593066	593067	593071	593073
Arches Supplied	Rinse Diverter Valve (RDV)	Rinse Arch (OBA)	2 Detergent Arches (ODAs)	Detergent & Rinse Arches (ODA & OBA)	Brush Arch
Average pressure setting	100 psi	110 psi	40 psi	40 & 110 psi	40 psi
Control Voltage	24VAC				
Approx. Dimensions	8"W x 9.5"H x 4.25"D	18"W x 16.25"H x 6.75"D	18"W x 16.25"H x 6.75"D	20"W x 20.625"H x 10.5"D	18"W x 16.25"H x 6.75"D

General Info

The purpose of this manual is to provide the necessary information to install and operate the Hydro-Chem equipment to exceed your defined expectation.

The Air Control Panels will come assembled and ready to plumb air lines and wire to. Plumbing details can be found in the project MEP and contractor wiring specs may be found within the document holder of the MCP.

System Overview

Figure 1 outlines the overall layout of the Air Control Panel.

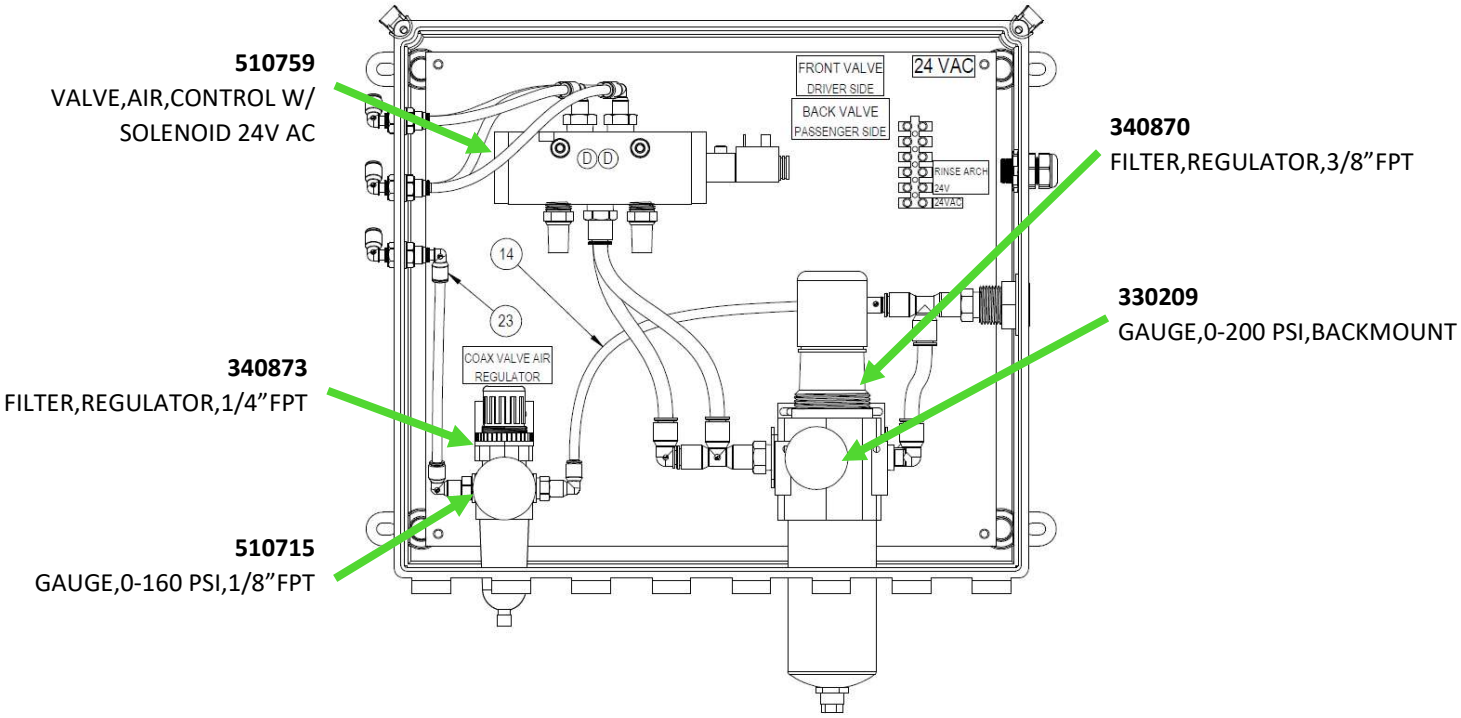

Figure 1. Air Control Panel Assembly Layout

Installation & Set-Up

The enclosure of this assembly is to be mounted to the wall per the project MEP. The wiring instructions are found within the Electrical Packet for the system. Air line should be run from the provided external connection ports to the respective wash bay equipment before start-up of the ACP.

Maintenance

Moisture in the air line may result in a buildup of liquid in the filter/regulator bowl. This can be drained by opening the air valve at the bottom of the bowl and should be check anywhere from **daily** to **weekly**.

The plastic filter bowl may be cleaned with warm water only. The parts should then be dry for reassembly and the internal passages of the body should be blown out with clean, dry, compressed air. If the plastic bowl shows signs of cracking or cloudiness, it should be replaced.

Troubleshooting

Issue	Potential Solution
Manifolds not oscillating during a wash	Are other outputs such as the Booster Pump turning on?
	Yes - Ensure that the solenoid is receiving a signal from the MCP and that it has 24VAC being supplied to it. If so, replace the solenoid on the valve.
	No - Check that no system stop buttons are pushed in. If they aren't, ensure that no breakers are tripped within the MCP and that there is 24VAC available in the panel where it should be.
Manifolds are oscillating too slow	Check that fluid has not built up in the filter bowl. This should be drained.
	Increase the pressure on the regulator to that arch. This is done by pulling the adjustment knob upwards until you hear a click. Turn clockwise to increase pressure or counterclockwise to decrease the pressure. Once the desired pressure is obtained, push the adjustment knob down until you hear the click to secure it.
	If the pressure is already optimal, the oscillating sweep timer in the PLC program may be adjusted.