

# Water Wash Control Panel

## Hot Water Wash/Cold Water Spray

# MP10C

Manual Control, Single Sequence Wash for up to 50-ft (15 m) of water wash ventilator

### General Description

Each water wash ventilator or group of ventilators requires a control panel. The single sequence water wash control panel model MP10C is for type “CD”, “CF”, & “CT” water wash ventilators.

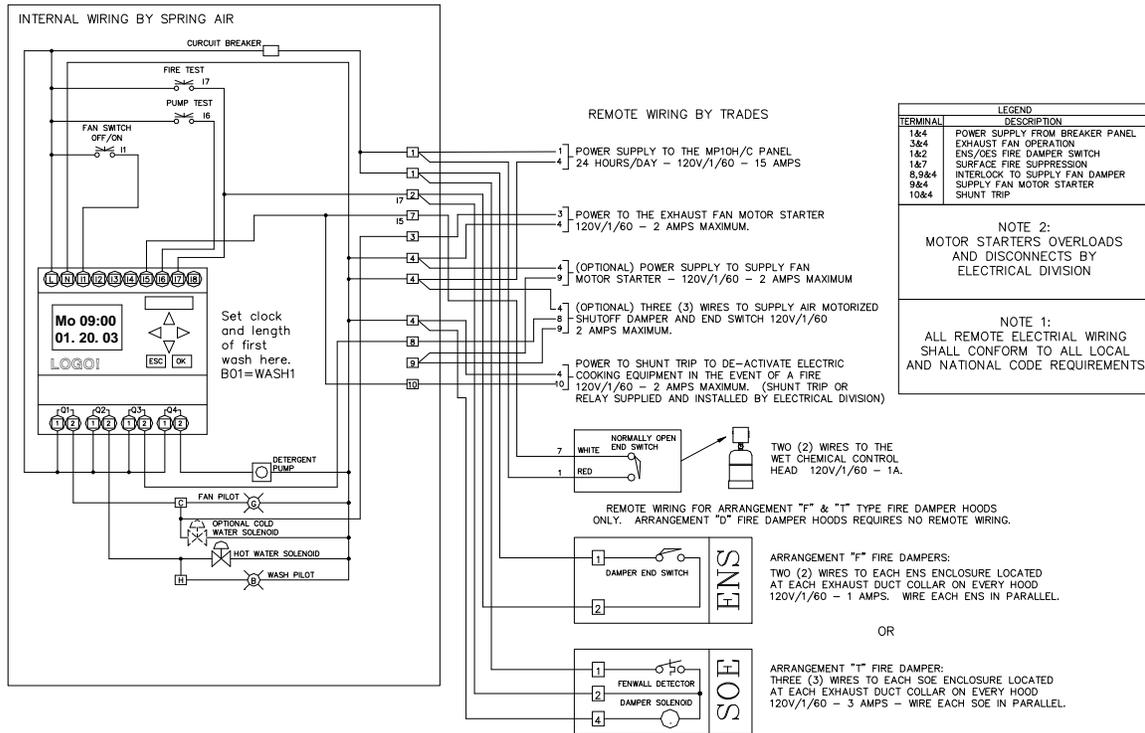
These control panels contain the electrical and plumbing required to manually operate the exhaust fan, the continuous cold water spray, and washing cycle. The continuous cold water spray causes the grease particles to congeal forming larger globules. The larger particles are more readily removed increasing the grease extractor efficiency before entering the VORTEX collection chamber. The model MP10C is a microprocessor control with an ON/OFF selector switch. The single sequence wash can wash up to 50 feet (15m) of water wash ventilator. The cold

water spray operates continuously while the exhaust fan is running. Every time the exhaust fan is shut off manually, the cold water spray shuts off and the groups of ventilators connected to the control panel are washed. At the end of the wash cycle the panel remains idle unit the next ON and OFF sequence. Refer to the *Spring Air Systems Ventilator Engineering Manual* for detailed description of the control panel sequence of operation.

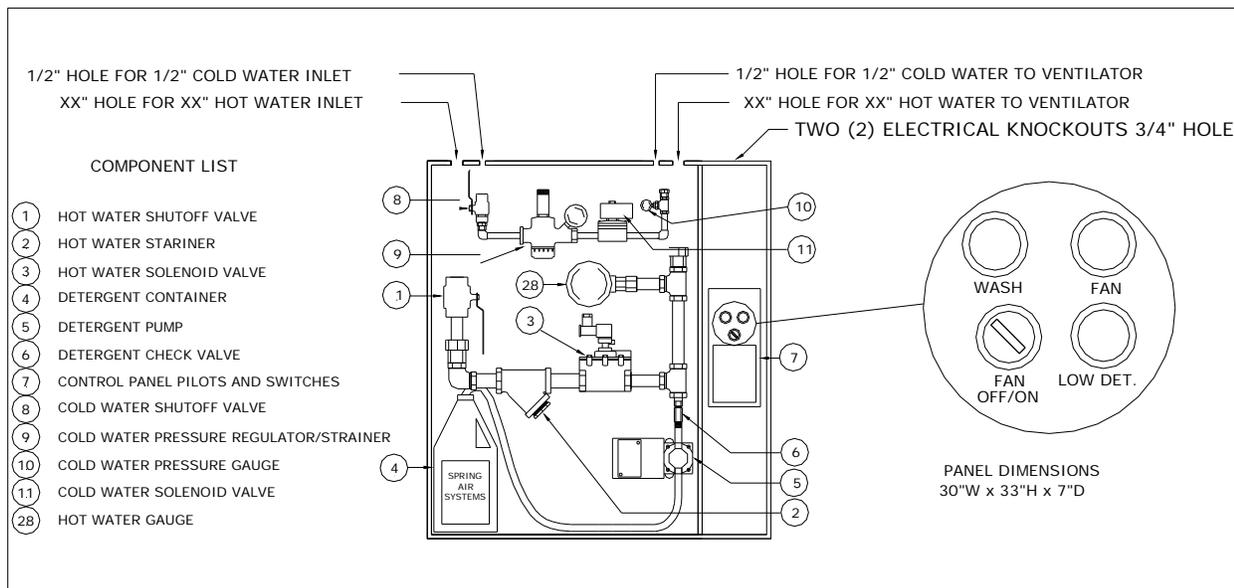
### Ventilators with CF or CT Fire Dampers

In the event that CF or CT UL/ULC listed fire damper assembly activates the fire damper closes, the exhaust and supply fans shut off, and both hot water wash solenoids turn on to flood the interior of the wash extractor with water.

## Water Wash Panel Electrical Schematic



## Water Wash Panel Plumbing



Length of Ventilator per Wash Sequence		Control Panel Hot Water Connections	
ft	m	in	mm
Up to 10	Up to 3	0.75	19
Up to 20	Up to 6	1.00	25
Up to 35	Up to 10.5	1.25	32
Up to 50	Up to 15	1.50	3

**Notes:**

1. All control panels are 30" x 33" x 7" (840 mm x 914 mm x 203 mm)
2. The DB ventilator has an equivalent length of 1.5 the actual length of purposes of using this chart.

### • Installation

- The total length of ventilator connected to the control panel determines the sizes of the inlet and outlet pipe connections. Refer to the Engineering Data Chart to the left for Pipe size Vs Ventilator length.
- The remote piping must meet all local plumbing codes. The control panel must be installed with protection to stop the flow of detergent back into the potable water supply. Spring Air Systems will always pre-pipe the detergent line inside the water wash, plumbing enclosure panel unless advised otherwise prior to shipment.
- The cold water inlet and outlet connections are always 0.5" (13mm). Each ventilator is connected to the panel with a 0.5" line.

### Spring Air Systems Model No. MP10C Wash Panel Specification

The water wash control panel shall be a Spring Air Systems model MP10C, hot water wash, cold water spray, single wash sequence, UL/ULC listed, and CSA certified.

The panel shall include an integral microprocessor. The stainless steel water wash control panel shall contain all the electrical and plumbing components to operate the exhaust fan, cold water spray, and water wash cycle. The electrical section shall include a microprocessor adjustable timer, an off/on fan selector switch, and a wash on pilot light. The plumbing section shall include a hot water solenoid valve, hot water shut off valve, hot water line strainer, pressure/temp gauge, detergent pump, detergent check valve, and one gallon of detergent. The cold water components shall include a cold water solenoid valve; cold water shut off valve, cold water pressure regulator/strainer, and a cold water pressure gauge. The panel shall be either wall mounted or recessed where

shown ready for interconnection of the mechanical and electrical services by the mechanical and electrical divisions as per the manufacturer instructions.

### Engineering Data

Item Number:	_____
Model Number:	- MP10C-XX
Panel Dimensions	- 30" X 33" X 7"
Hot Water Inlet Connection:	- 1"
Cold Water Inlet Connection:	- 1/2"
Cold Water Outlet:	- 1/2"
Hot Water Outlet	
No. of Sequences:	- 1
Valve Size:	_____
Total Hot Water Flow:	_____
Total Cold Water Flow:	_____
Electrical:	- 120v/1/60 - 15 AMPS.