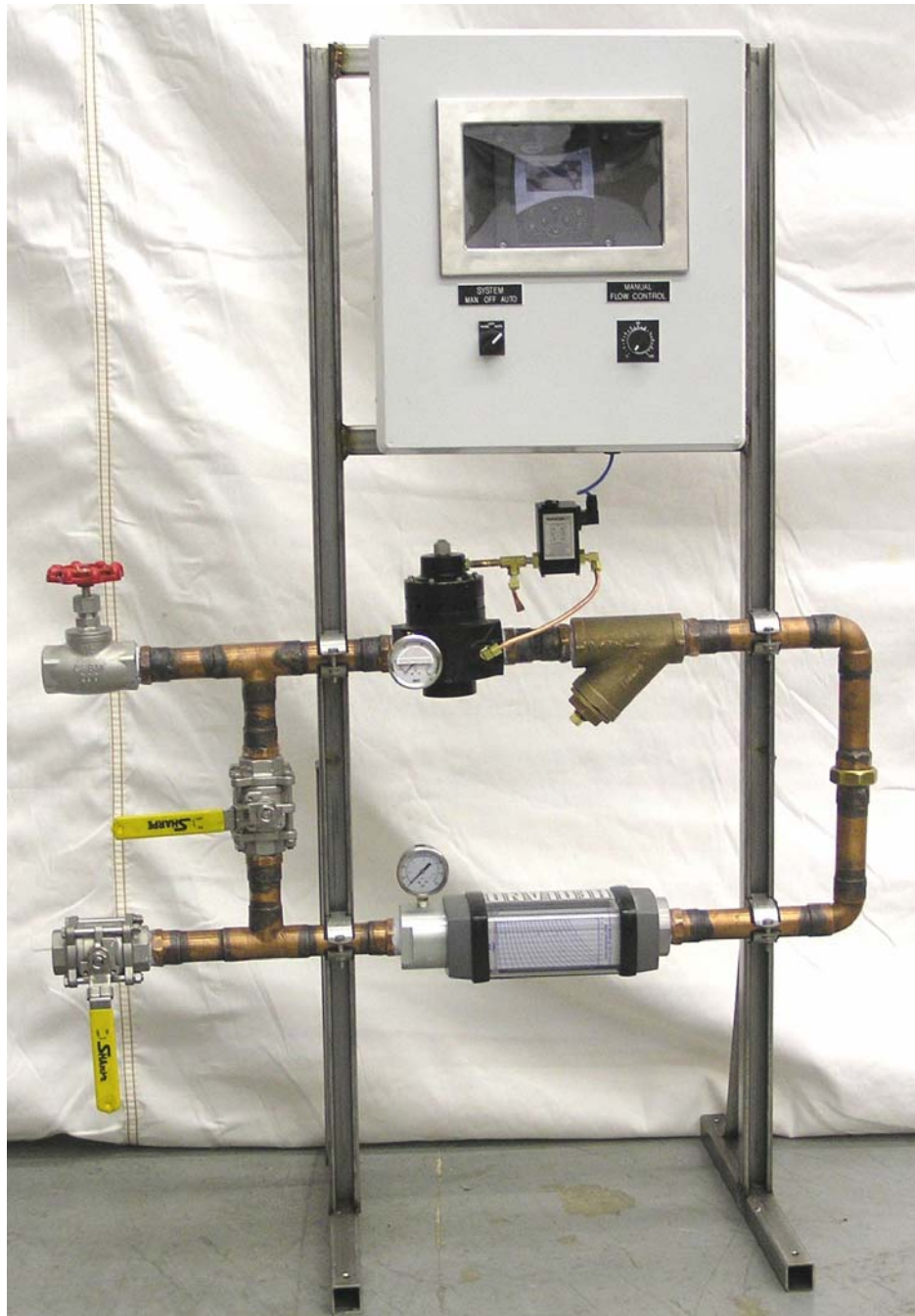


Integrated Engineers, Inc. Automated 1.5" Oxygen Flow Controller (1.5" OFC)

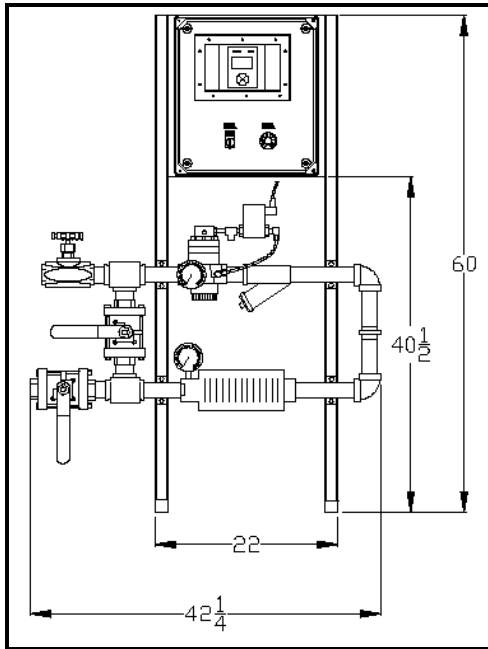


Description / Function:

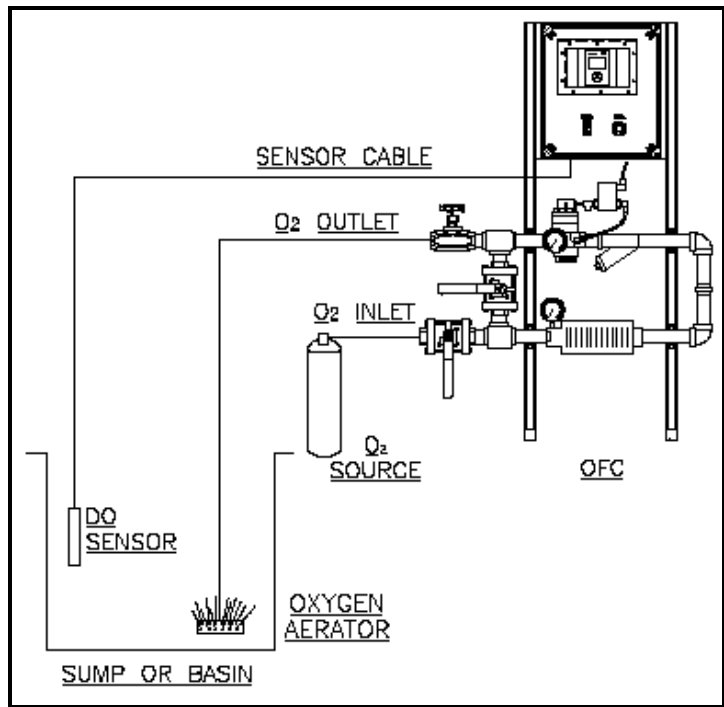
The OFC provides automated oxygen flow control to maintain a user-set dissolved oxygen level in an aeration basin. Dissolved oxygen concentration measurements are taken using a luminescent dissolved oxygen sensor. This high tech sensor is unaffected by pH, hydrogen sulfide, heavy metals, wastewater chemicals, and organic buildup. Periodic wiping of the sensor face is all that is required for accurate operation. Frequent calibration is not required. The dissolved oxygen level is transmitted to the process controller which compares the current dissolved oxygen level to a user preset level, and adjusts the output signal to the proportional flow control regulator. This regulator controls the flow of pure oxygen to the aerator in the aeration basin, thus adjusting the dissolved oxygen level to the set point. An inline flow meter is used to monitor the oxygen usage rate.

Specifications:

Unit and all components cleaned for oxygen service per CGA-4.1
Copper/ Bronze/ Brass/ Aluminum/ Stainless components
Strut framework allows variable height installation of flow control piping
Frame can be customized according to specific needs
Dissolved oxygen sensor is luminescent, non-flowing and stable
Digital sensor allows long-placing dissolved oxygen sensor up to 1,000' from controller
Nema 4X fiberglass enclosure with polycarbonate and stainless window kit
Oxygen process controller protected behind a polycarbonate window, extending life of controller
Proportional oxygen flow control based on operator set point
Oxygen flow is controlled through built in PID or linear control loops
Manual override with direct proportional flow control
Multi pressure variable area oxygen flow meter.
Indexed flow control valve for controlling maximum flow and span
Built in electronic data logger
Data can be retrieved wirelessly using infrared communication through window
Two separate inputs and outputs
Can be used:
1) for pH measurement along with dissolved oxygen levels
2) to independently control the flow to two separate aerators from the same controller
110 VAC 3 amp service required
Optional RS238/ 484 for transmitting DO levels & remote set point adjustment on a computer network
Flow range: 0 - 850 CFM



DIMENSIONAL



SYSTEM DIAGRAM

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