

IFS: Automated Influent Feed System

The IFS Influent Feed Systems are provided to transfer wash water from the collection sump to the treatment system inlet.

The IFS consists of the following components:

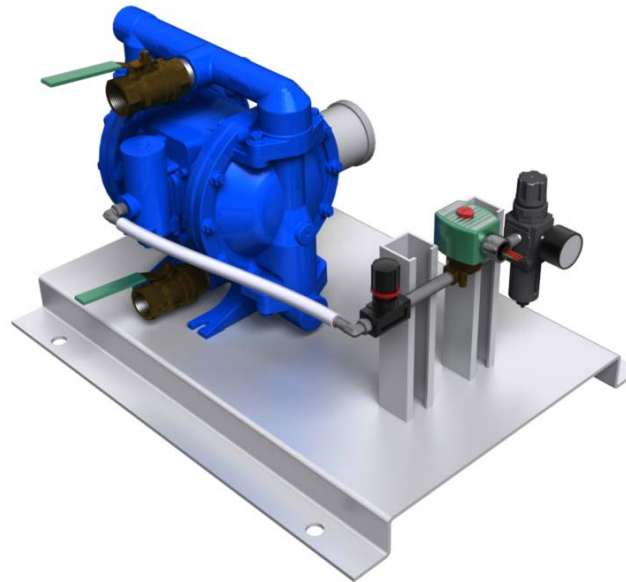
- Adjustable flow rate air operated diaphragm pump
- Air preparation and control assembly
- Level switches (high & low)
- Automatic controls
- Pump skid

The IFS pump skid is installed near the collection sump and plumbed into the sump. The level switches are mounted in the sump to detect the high and low water level and activate and deactivate the pump based on these levels.

Controls in the Master Control Panel (MCP) located on the VEW skid provides both manual and automatic on/off control. The MCP also provides automatic shutdown based on a high water level condition in the oil water separator effluent chamber to stop water from entering the separator upon a downstream backup condition, closed valve or failure that creates a backup in the ows to stop an over flow event.

Pump Flow Rate Adjustability

The pump flow rate can be adjusted via the air control assembly. The air control assembly contains an air/filter regulator for pressure control and a fine adjustment, precision air needle valve for flow control. By adjusting these components you can set the desired flow rate.



IFS Feed Pump Detail

Model	Flow Rate GPM	Operating Weight	Voltage V/pH/Hz
IFS-05-AO	5-10	35	115/1/60
IFS-10-AO	10-35	45	115/1/60
IFS-15-AO	35-50	65	115/1/60