

## Mobile Array for Wells and Boreholes

These mobile arrays specially designed for wells are constructed from standard ODIS products, Hydrocyclones series 5000 and Automatic circulating filters series 8000. The array can handle efficiently higher loads of sand and suspended solids that occurs during priming of the pump and filling of the pipes. It also can handle soft start of the pump.

The system is skid mounted on a steel pallet, and can be easily transferred from one location to another.

During the filling of the pipes, the pump flow rate is considerably higher than the design flow rate. As a result the sand quantities increases and the underflow chamber might overflow.

The system automation is designed to handle this situation. A differential pressure gauge is installed in the system. When the flow rate increases, the pressure difference exceeds the preset value and the controller will open the drain valves on the underflow chamber of the

Hydrocyclone and the collecting cell of the Automatic screen filter. As a result the dirt load will be reduced. This operation will repeat itself until the flow rate will stabilize at the design flow rate.

### ADVANTAGES:

- Efficient separation of sand and suspended solids at constant head loss due to the
- Hydrocyclone characteristics. In addition the circulation filter maintains efficient filtration especially during priming and soft start.
- Independent, simple, easy to install, operate and maintain.
- Time based flushing controller for draining of the Hydrocyclone underflow chamber and the collecting chamber of the automatic circulating filter.
- Protects valves, pipes and emitters against blockages and damage.
- Prevents high load from the Control filters.
- Saving on pipes and accessories since the array is located at the well.
- Various sizes of hydrocyclons and automatic filters are combined to suit customers needs.

