

Cyclonator Deuce Filtration Specifications Bacteria Injection Version

1. Stage 1

- 1.1. Multi chamber stainless steel settling and oil separation module
 - 1.1.1. Inclined plates to encourage settling and separation
 - 1.1.2. Sloped settling chamber to direct settled solids to purge valve
 - 1.1.3. 500 gallon capacity to allow over 2 hours of dwell time
 - 1.1.4. Screens to capture floating debris
 - 1.1.5. Over/under water flow path
- 1.2. Oil Coalescing stage with 250 square feet of coalescing material
 - 1.2.1. Creates "home" for bacteria colony
- 1.3. Automatic purge valve, air powered to automatically removes settled solids every 24 hours
- 1.4. Float controlled batch processing from final chamber of stage 1 filtration
- 1.5. 24/7 air injection
 - 1.5.1. Patented bubble dispersion "air stick" to achieve optimal oxygen penetration
- 1.6. 24/7 recirculation to keep water fresh
- 1.7. Built-in air compressor to operate automatic valves
- 1.8. Built-in diaphragm pump to recover wash water from wash pad

2. Stage 2

- 2.1. High pressure media filter rated to 225 PSI
- 2.2. 7 cubic feet of media
- 2.3. Three layers of media, coarse stone, fine sand, zeolite
- 2.4. Automatic back washing, with air powered valves
- 2.5. PLC controlled
- 2.6. Removes all suspended solids down to 25 micron
- 2.7. Powered by ITT Goulds pressure pump

3. Stage 3

- 3.1. Absolute filtration
- 3.2. 5 micron zero bypass multilayer depth filter
- 3.3. Non proprietary filters
- 3.4. Stainless steel housing
- 3.5. Digital pressure sensor with readout and connection to PLC for auto shut down when filter full
- 3.6. Red indicator light to indicate full filter

4. Holding Tank

- 4.1. 600 gallon with sight tube
- 4.2. High limit float to prevent overflow
- 4.3. Auto-refill
- 4.4. Clean-out valve

5. Standard Features of the System

- 5.1. All components enclosed in lockable, climate controlled enclosure
- 5.2. System is zero button operation
 - 5.2.1. Squeeze trigger on pressure washer, system starts
 - 5.2.2. Release pressure washer, system shuts down
- 5.3. Remote control panel for auxiliary functions
- 5.4. All suspended solids are contained, collected and the sent to collection point
 - 5.4.1. Back washed materials are collected in back wash tank with collection filter bags or in sump
- 5.5. PLC controls of all functions
- 5.6. Allen Bradley electric components
- 5.7. Branch circuit protection with solid state circuit breakers
- 5.8. NEMA 4 electrics

6. Protective Enclosure - 10' ISO Container

- 6.1. New container, epoxy painted
- 6.2. Insulated to R factor 6
- 6.3. Interior surfaces clad with powder coated embossed aluminum
- 6.4. Fluorescent lights
- 6.5. Powered vents for moisture control and make-up air for optional hot water pressure washer
- 6.6. Exterior NEC disconnect
- 6.7. Interior NEMA 4 electrical panel