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 or media, course 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