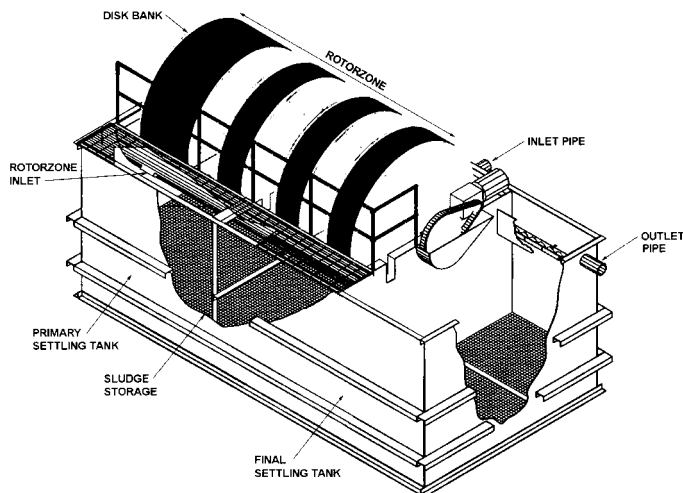


**Finally... A Quiet, INDOOR Sewage Plant That Emits NO ODORS!!!**

# **ROTORDISK**

## **The New World Standard in Municipal Sewage Treatment Plant Design For 1 to 10,000 Homes**

**ROTORDISK MODULAR ENHANCED** rotating biological contactor sewage treatment plants provide a simple and dramatically cost effective alternative to other more complex and expensive technologies such as conventional sewage treatment plants and sequencing batch reactors.



- **ROTORDISK** is typically **50% LESS EXPENSIVE** to design and construct.
- **ROTORDISK** is **90% LESS EXPENSIVE** to operate and maintain.
- **ROTORDISK's COMPACT MODULAR** design allows you to design and build for today's requirements and provide for future expansion with the ability to add-on additional modules over time as system demands increase.
- **ROTORDISK ENHANCED** design converts raw sewage into clean water for re-use and recycle in a simple and cost effective 3-stage process.
- **ROTORDISK ULTRA-ENHANCED** design converts raw sewage into potable drinking water.
- **ROTORDISK P-03** design is the only system certified by Government Authorities to meet phosphorus effluent removal of 99.997%.
- **ROTORDISK** is quiet, **FREE OF ODORS, COMPLETELY ENCLOSED**, inexpensive to run and simple to operate.
- **ROTORDISK** systems are used by private sector and governments worldwide. Over 500 large systems constructed.

**The reasons to select a ROTORDISK system are very compelling as shown in the comparison of municipal sewage system technologies on the reverse side of this sheet.**

**We invite you to see and hear our engineering presentation and, best of all, visit some existing installations of ROTORDISK systems (large and small). For an appointment please phone us at 1-800-546-0705 and ask for Gary Jensen.**

# **GREAT LAKES INDUSTRIAL CONTROLS**

**Toll Free Phone: 1-800-546-0705**  
**E-Mail: sales@greatlakesindustrialcontrols.com**

**Toll Free Fax: 1-866-766-8658**  
**www.greatlakesindustrialcontrols.com**

# COMPARISON OF THE FOUR MOST COMMON MUNICIPAL SEWAGE SYSTEM TECHNOLOGIES

As you can see, **ROTORDISK** has, by far, the lowest cost to design, build and operate.

| COMPARISON FACTOR                             | ROTORDISK<br>ROTATING BIOLOGICAL<br>CONTACTOR (RBC) | SEPTIC TANKS                        | CONVENTIONAL<br>SEWAGE PLANT (SP)             | SEQUENCING BATCH<br>REACTOR (SBR)                  |
|-----------------------------------------------|-----------------------------------------------------|-------------------------------------|-----------------------------------------------|----------------------------------------------------|
| <b>CAPITAL \$ COST (Project)</b>              | \$500,000 PER 200 HOMES                             | \$2,000,000 PER 200 HOMES           | \$2,000,000 PER 200 HOMES                     | \$1,000,000 PER 200 HOMES                          |
| <b>OPERATING COSTS</b>                        | \$20,000 PER YEAR                                   | \$300 PER YEAR                      | \$200,000+ PER YEAR                           | \$200,000 PER YEAR                                 |
| <b>PHYSICAL SPACE</b>                         | SMALL: 60' X 20' X 20'                              | SMALL: BUT NEEDS LARGE LEACHING BED | LARGE: 300' X 100' X 100'                     | LARGE: 180' X 60' X 60'                            |
| <b>LAND</b>                                   | LESS THAN 1/2 ACRE                                  | 2 ACRES: Includes Leaching Bed      | 3 ACRES                                       | LESS THAN 1/2 ACRE                                 |
| <b>OPERATOR ATTENTION</b>                     | Only 1 Hour Per Week                                | NONE                                | FULL TIME OPERATOR 24 hours / 7 days per week | FULL TIME OPERATOR 24 hours / 7 days per week      |
| <b>PERSONNEL</b>                              | Only 1 for 1 Hour Per Week                          | NONE                                | 3 (3 - 8 Hour Shifts)                         | 3 (3 - 8 Hour Shifts)                              |
| <b>SKILL LEVEL CO-OPERATE</b>                 | LOW                                                 | NONE                                | HIGH                                          | HIGH                                               |
| <b>SLUDGE</b>                                 | VERY LIGHT AMOUNT (75% Less Than Others)            | YES                                 | YES                                           | YES                                                |
| <b>PUMP OUT</b>                               | 2 TIMES PER YEAR                                    | 1 TIME PER YEAR                     | NONE (Digester Required)                      | EVERY 24 HOURS                                     |
| <b>POWER CONSUMPTION WATTS/HEAD/DAY</b>       | 20                                                  | NONE                                | 93 to 166                                     | 100                                                |
| <b>ODOR</b>                                   | NONE                                                | YES                                 | YES                                           | YES                                                |
| <b>NOISE</b>                                  | NONE                                                | NONE                                | YES                                           | YES                                                |
| <b>MAINTENANCE</b>                            | VERY LOW                                            | VERY LOW                            | HIGH                                          | HIGH                                               |
| <b>AESTHETICS</b>                             | GOOD                                                | GOOD                                | POOR                                          | POOR                                               |
| <b>LEACHING BED</b>                           | YES (Small)                                         | YES (Large)                         | NO                                            | YES (Small)                                        |
| <b>AMMONIA REMOVAL</b>                        | YES                                                 | NO                                  | YES                                           | YES                                                |
| <b>AERATORS</b>                               | NO                                                  | NO                                  | YES                                           | YES                                                |
| <b>ENVIRONMENTAL IMPACT</b>                   | NO                                                  | YES                                 | YES                                           | NO                                                 |
| <b>EASE OF EXPANSION</b>                      | YES (Because of Modular Design)                     | NO                                  | NO                                            | YES (Only if Modularity is Engineered into System) |
| <b>DESIGN ENGINEERING REQUIRED*</b>           | MINIMAL                                             | MINIMAL                             | SUBSTANTIAL                                   | SUBSTANTIAL                                        |
| <b>\$ COST / 1000 GALLON (up to .5M Gal)</b>  | LOW                                                 | NONE                                | HIGH                                          | HIGHEST                                            |
| <b>ADVANCED PHOSPHORUS REMOVAL TO 99.997%</b> | YES                                                 | NO                                  | NO                                            | NO                                                 |