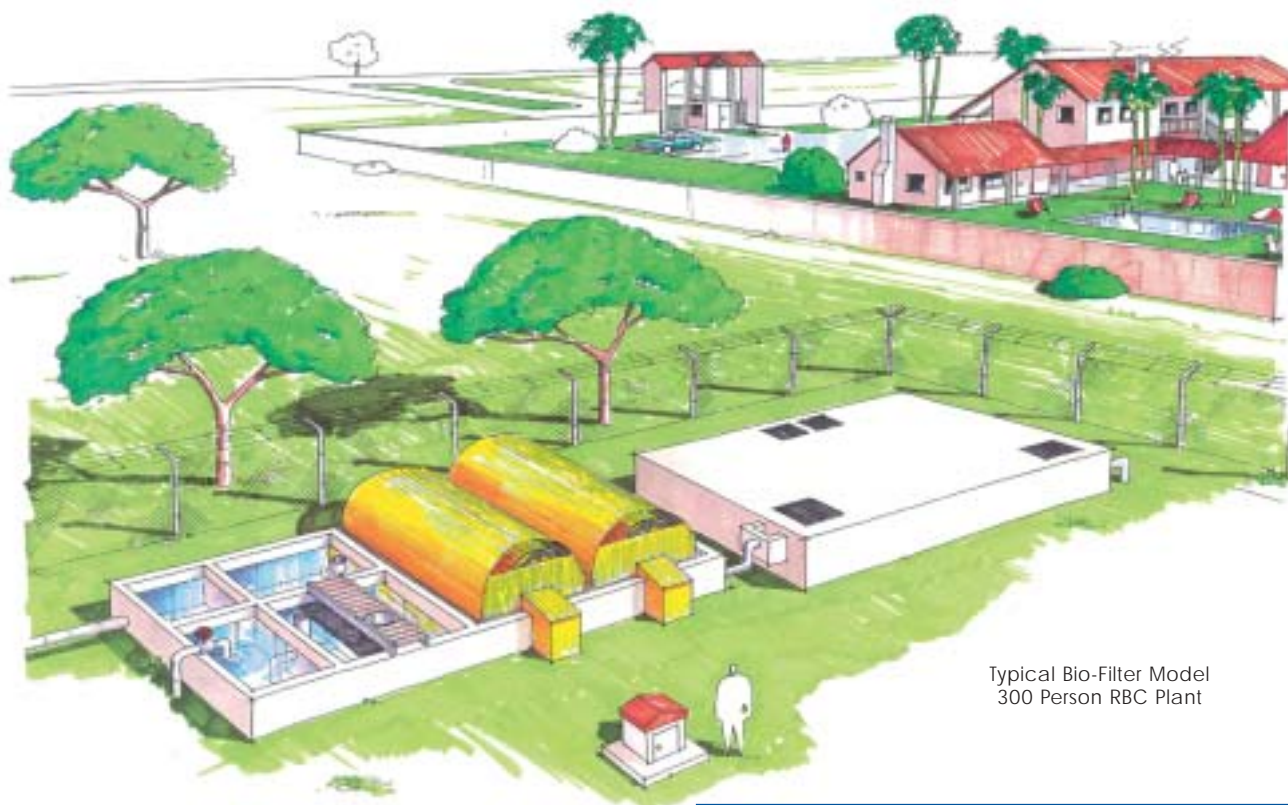




Becon Bio-Filter Rotating Biological Contactor Sewage Purification Plants for Smaller Communities



Typical Bio-Filter Model
300 Person RBC Plant

Becon Bio-Filter RBC plants are most economical for the handling of sewage and effluents from Schools, Hotels, Resorts, Mines and Smaller Villages where flows from 50 persons up to 2500 persons are relevant. The RBC process is also suitable for treating bio-degradable industrial wastewater.

Since 1975 some 1500 Becon Bio-Filter RBC plants have been manufactured and supplied by Becon Watertech.

The operational process of the plants is simple and comprises of a primary combined settlement tank and anaerobic digester, a secondary aerobic process comprising of the Becon Bio-Filter RBC fixed film reactor units, followed by a humus settlement tank and a disinfection tank. Reactor tanks are normally RC structures, but prefabricated skid mounted or containerised units are available for small plants.



Becon Mini RBC Packaged Plant



Becon Standard RBC Plant

P.O. BOX 912-504
SILVERTON 0127
PRETORIA, SOUTH AFRICA

TEL: (012) 804-1128
FAX: (012) 804-1159
E-MAIL: becwater@icon.co.za

P.O. BOX 2246
CLARKSON WA 6030
PERTH, WESTERN AUSTRALIA

TEL: (08) 9407-8444
FAX: (08) 9407-8444
E-MAIL: becwaterap@bigpond.com

The RBC process is simplistic and requires a minimum of attention. The units can be installed near to buildings and require a minimum space, are clean and aesthetically pleasing, and are designed to produce an effluent to Specified Standards.

Features of the RBC units are low power demand, noise free operation, low operator skill requirements and low maintenance costs.

As the Becon Bio-Filter RBC units are modular, plant extensions are simple. A standard range of plants are available between 10kl/day (50 persons) and 500kl/day (2500 persons) flow capacity.

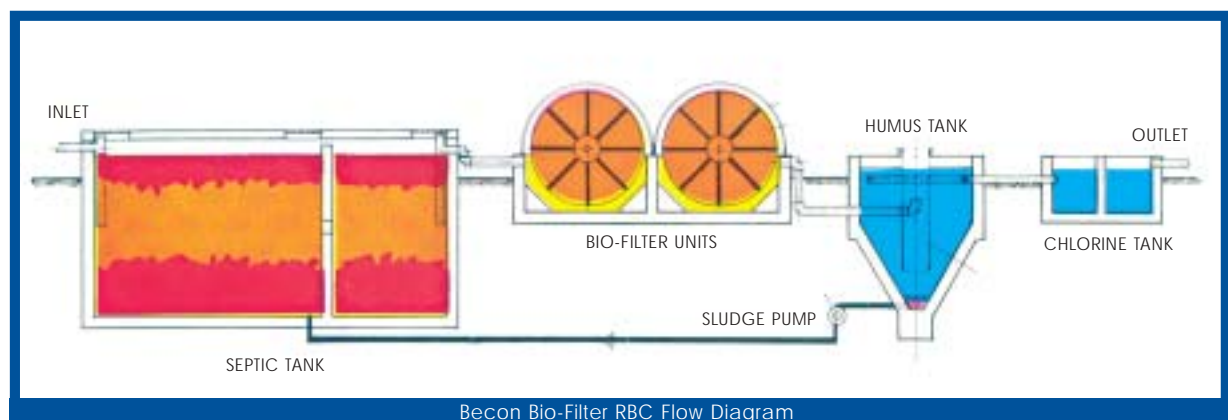
Mini packaged plants are also available for flows from 50 to 300 persons.

The Bio-Filter RBC disc filter units manufactured by Becon Watertech comprise of heavy duty shafts and polyurethane moulded discs, which are assembled to form a high quality heavy duty RBC fixed film reactor unit. The RBC units rotate at 4 rpm and are powered by direct shaft mounted heavy duty geared motors to ensure a long and maintenance free operation of the units.

Becon Watertech offers:

- Comprehensive design and advisory service on sewage treatment problems.
- Turnkey projects undertaken from initial investigation stage through civil construction stage to commissioning of complete plants.

STANDARD BIO-FILTER PLANTS								
Model No	75	150	300	450	600	750	1000	1500
No of persons	75	150	300	450	600	750	1000	1500
No of rotors	1 x 2m	1 x 2m	2 x 2m	3 x 2m	4 x 2m	5 x 2m	6 x 2m	8 x 2m
Disc area (m ²)	375	750	1500	2250	3000	3750	4500	7500
KW rating of plant (kW)	0,5	0,75	1,5	2,0	3,0	3,75	4,5	6
BOD loading (kg)	4	8	16	24	32	44	54	90
Hydraulic loading (m ³ /day)	15	30	60	90	120	160	200	300
Septic tank volume (m ³)	15	30	60	90	120	160	200	300
Humus tank dia (m)	1,5 x 1,5	1,8 x 1,8	2,500	3,500	3,750	4,000	5,000	6,000
Chlorine tank volume (m ³)	0,60	1,25	2,50	3,75	5,00	6,50	8,00	10,00
Area required for plant (m ²)	150	150	200	400	600	700	800	1200



Becon Watertech

Established 1975

LOCAL AGENT