



**KelairPumps**

**CALL 1300 789 466**

## **KELAIR - BLIVET™** **Packaged Sewage Treatment Plant**

**WHEN PUMP  
KNOWLEDGE  
MATTERS**

The Kelair-Blivet is a stand-alone packaged sewage treatment plant. It is designed to accept raw (unsettled) sewage and produce a high quality final effluent without the need for ancillary tankage or equipment.

The Kelair-Blivet comprises of primary settlement, aerobic zone, final settlement (humus tank) and sludge storage. The range is an established and innovative system for highly efficient process reduction of biological oxygen demand (BOD) and Suspended Solids (S.S.). It combines the best features of existing rotating biological contactor (RBC) technology with the additional advantage of active aeration without the use of blowers.

The Kelair-Blivet may be buried up to deck level such that the impact on the landscape is not intrusive. The units are covered, preventing noise and fly nuisance. The Blivet is a modular unit that lends itself to future expansion or relocation.

The Kelair-Blivet is suitable for populations from 30 to 500. Multiple units in parallel can be used for higher populations. Tertiary treatments such as effluent, disinfection, and media filtration are available as options.



### **UNATTENDED OPERATION**

Does not require constant manning. The units can be set up via telemetry for remote monitoring.

### **COMPACT**

The Blivet aerotor provides 1.5 times the surface area of an RBC and this, combined with the utilisation of parallel plates, gives an unbeatable size to population treatment ratio. The smaller footprint reduces cost.



### **DURABLE**

The tankage is steel reinforced GRP (Glass Reinforced Polyester) rendering it impervious to decomposition in the most demanding environments.

### **FLEXIBLE**

The compact pre-fabricated and portable package makes the unit suitable for temporary or permanent installation on existing or greenfield sites. Easily removable for re-siting.



### **MODULAR OPTIONS**

Adding discrete modular units permits phased development in step with project growth.

### **SITE OPTIONS**

The Kelair-Blivet may be placed above ground or buried to deck level, leaving locked GRP lids at ground level.

### **APPLICATIONS**

- Environmentally-sensitive sites
- Townships and villages
- High-rise development
- Resorts and remote sites

### **INSTALLS INCLUDE**

- Buildings
- Construction sites
- Housing developments
- Hotels
- Golf courses
- Holiday resorts
- Leisure developments
- Areas not connected to mains sewers

### **KELAIR-AEROTOR™ BIOZONE**

The Kelair-Aerotor Biozone is available as a separate unit in a range of standard modular sizes. It can be installed as an adjunct to an existing works, or as a discrete system in conjunction with primary settlement and humus tanks of separate supply (e.g. concrete tanks). Further, its flexibility makes it especially suitable as an 'Add-On' to a septic tank or an overloaded works.

**KELAIR PUMPS AUSTRALIA - 1300 789 466**

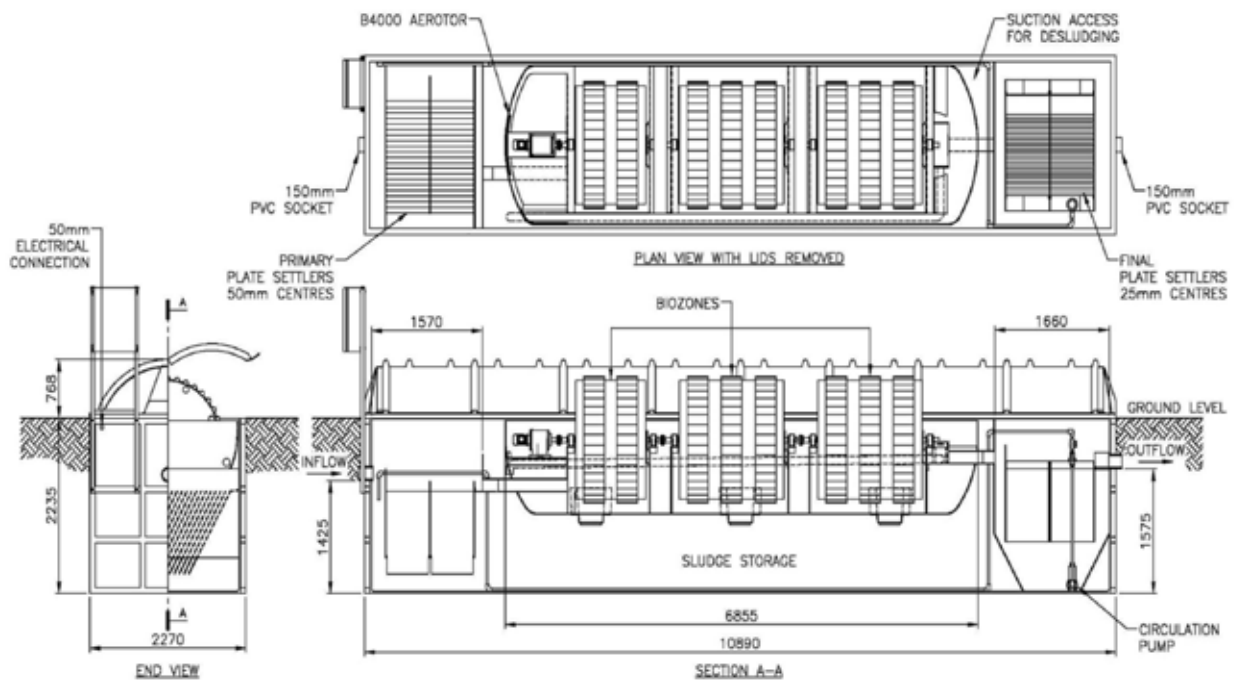
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## FEATURES AND BENEFITS

- **All in one package** Quick to install and commission with minimal civil works.
- **Compact** Requires minimal site works and minimum space. We believe the Blivet is the most compact design available worldwide. For example, the BL4000, which can treat up to 400EP at 230L/EP/day and 55gBOD/EP/day, has a footprint of 10.9m x 2.27m.
- **Modular** The design is adaptable. Multiple units can be installed in a staged manner to cater for increased demand over the life of an application i.e. a residential development expands.
- **Low Operating Costs** The power requirements for Blivets are low. For example, the largest model of Blivet offered in Australia, the BL4000, requires only a 0.75kW geared motor and a 0.55kW pump which operates 2min/hr. Alternative energy sources such as solar or wind are also realistic options in remote areas.
- **Unobtrusive** No unsightly open tanks or lagoons. The unit may be buried up to deck level. Also, the unit does not use a blower system, reducing operational noise, and further noise reduction is achieved due to the unit being enclosed.
- **Relocatable** The design of the Blivet allows it to be relocated if required. The Blivet range is designed to fit within standard container size dimensions, for ease of transport by road, rail or sea.
- **Simple to Operate** Specialist operators are not required, as all maintenance and running tasks can be performed by general maintenance staff.

## PLAN VIEW WITH LIDS REMOVED



## UNIT SPECIFICATIONS

Tank Size	Unit Average Flow	BOD Applied Level	Average (People)	Approx. Weight Empty	Approx. Weight (Operating)	Drive Unit	Connection (mm)	Unit Sizes (Metres)		
No.	m3/day	kg/day	Head	Tonne	Tonne	kW	Inlet/Outlet	Length	Width	Height
BL300	4.1	1.1	20	1.5	9.5	0.37	150	2.1	2.02	2.2
BL500	11.5	2.75	50	3.0	17.5			4.9	2.27	2.9
BL1000	23.0	5.5	100	3.35	19.25	5.375				
BL1500	34.5	8.25	150	4.0	23.75	6.4				
BL2000	46.0	11.0	200	4.7	28.25	7.5				
BL3000	57.5	13.75	250	5.85	35.25	9.275				
BL3500	74.75	17.875	325	6.3	38.25	10.1				
BL4000	92.0	22.0	400	6.8	41.5	0.75		10.9		

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