JANDA BUSSE
TREATMENT SYSTEMS



WASTEWATER TREATMENT FOR THE NEXT GENERATION

THE SYSTEM

01

Applications

Janda Busse Treatment Systems has been designing and installing packaged & engineered wastewater treatment plants for over 15 years, with over 800 systems installed in 16 countries. We provide engineers, architects, builders and home owners with advanced, cost effective, and proven wastewater treatment technology. Our systems are ideal for:

- Sites unsuitable for septic systems
- Environmentally sensitive building sites
- Sustainable building projects
- Small project sites
- Isolated project sites
- Work camps

Our System

The Janda Busse Treatment System is an advanced membrane bioreactor package plant for on-site treatment of wastewater to reuse quality.

The system is compact, requiring only a fraction of the space compared to traditional septic systems, and arrives pre-assembled so it can be brought online within hours of delivery.

As the first truly scalable membrane bioreactor system in Canada, we provide solutions for projects serving anywhere between 2 and 2,000+ users.

LEED® Applications

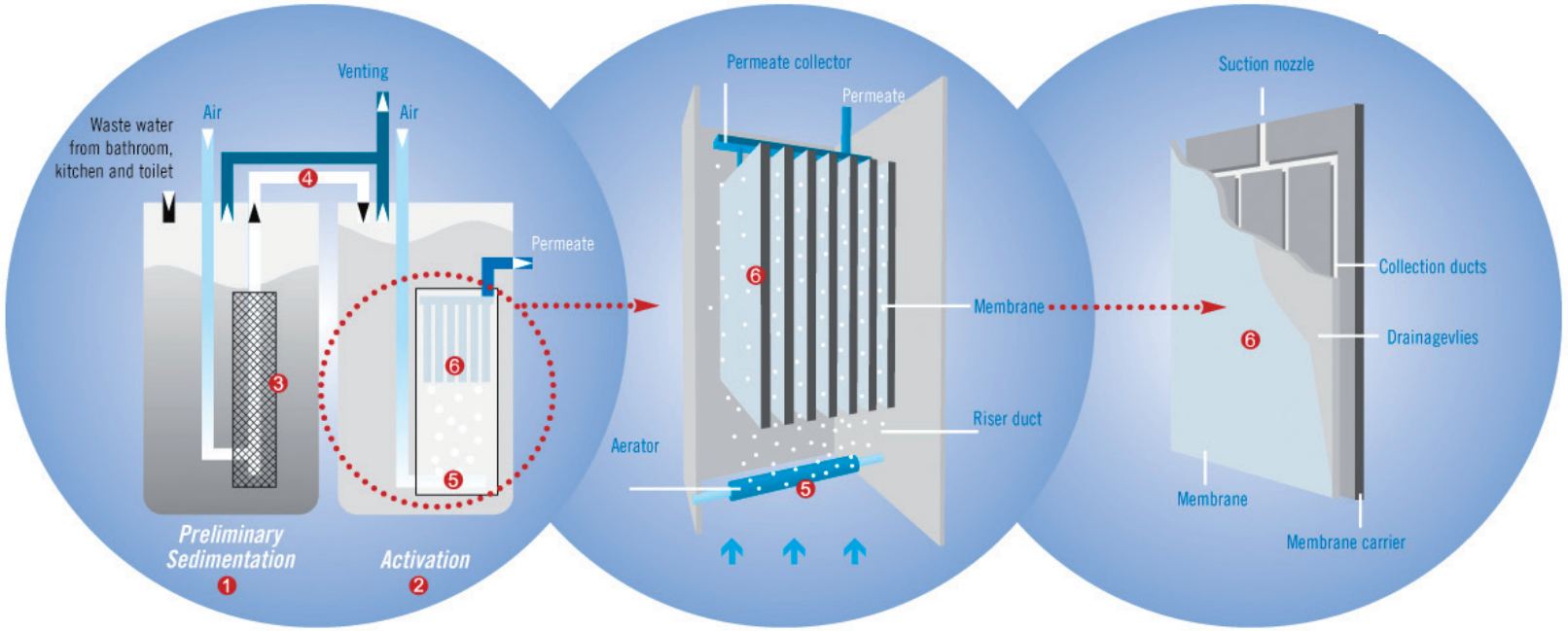
As awareness of environmental issues increase, many builders, engineers, and architects want to choose products that reduce their impact on the environment. The Janda Busse system provides a sustainable solution to wastewater, and can contribute up to 12 LEED® points to your project:

SS Credit 5.2	Maximize Open Space	1 Pt
WE Credit 1	Water Efficient Landscaping	4 Pts
WE Credit 2	Innovative Wastewater Technologies	2 Pts
WE Credit 3	Water Use Reduction	2 Pts
ID Credit 1	Innovation in Design	3 Pts



HOW IT WORKS

02



Step 1
Wastewater flows into the primary treatment tank [1], where heavy aeration physically breaks down solid matter and provides oxygen to aerobic bacteria which begin to digest the organic matter.

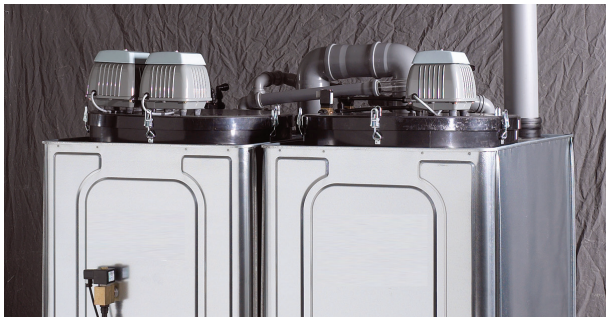
Step 2
Primary effluent flows through a coarse matter filter [3] and is pumped out [4] of the primary treatment tank into the secondary treatment tank [2] where further aeration [5] and biological treatment occurs.

Step 3
Static head pressure in the secondary treatment tank is sufficient to force water through the microfiltration membrane unit [6], producing final effluent that is free of pathogens & organic matter, ready for re-use or disposal.

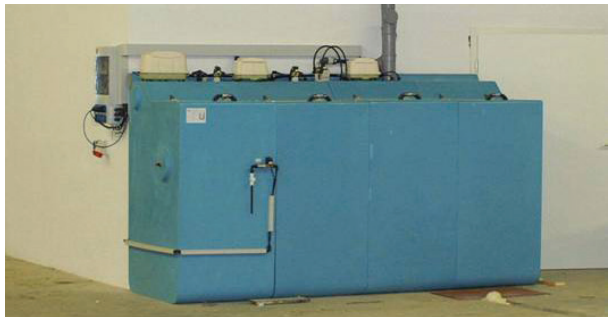


PRODUCT RANGE
PACKAGED TREATMENT PLANTS

03



» JBTS 1000



» JBTS 2000



» JBTS 4000PT

		JBTS 1000	JBTS 2000	JBTS 4000PT
Capacity per Day	[L]	1,000	2,000	4,000
People Equivalents	[PE]	4	8	-> 20
Size of Pre-Treament Capacity	[L]	0	0	6,000
Size of Treatment Tank	[L]	1,000	1,000	2,000
Number of Treatment Tanks		2	4	3
Power Consumption (min - max)	[kwh/day]	2-3	3-6	7-12
Maintenance Visits per Year		1-2	2	2
Typical Application		small single family home, weekend cabin	single family home	multi-family, office, campground



PRODUCT RANGE
ENGINEERED PLANTS

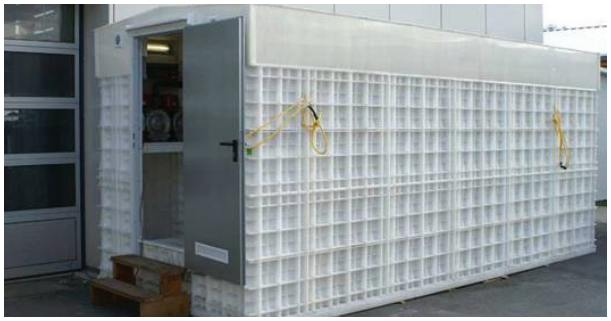
04



» JBTS 8000



» JBTS 20XL



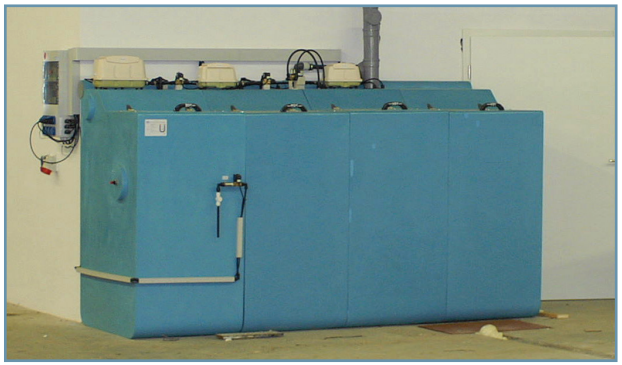
» JBTS 60XL

		JBTS 8000	JBTS 20XL	JBTS 60XL
Capacity per Day	[L]	8,000	20,000	60,000
People Equivalents	[PE]	-> 40	-> 100	-> 300
Size of Pre-Treament Capacity	[L]	9,000	t.b.d.	t.b.d.
Size of Treatment Tank	[L]	2,000 or 3,000	t.b.d.	t.b.d.
Number of Treatment Tanks		4 or 5	t.b.d.	t.b.d.
Power Consumption (min - max)	[kwh/day]	15 - 22	t.b.d.	t.b.d.
Maintenance Visits per Year		2	continuous by operator's qualified personnel	continuous by operator's qualified personnel
Typical Application		multi-family, office, campground	multi-family, work camp, hotel	multi-family, work camp, hotel



CASE STUDIES

05



» Canada, Vancouver, River Residences, 8 P.E.



» USA, Harpswell, Single Family Home, 8 P.E.



» Africa, Oman, Sohar Housing Camp, 50 P.E.



» Germany, Community System, 100 P.E.



» Germany, Exhibition Boat Lübeck, 24 P.E.



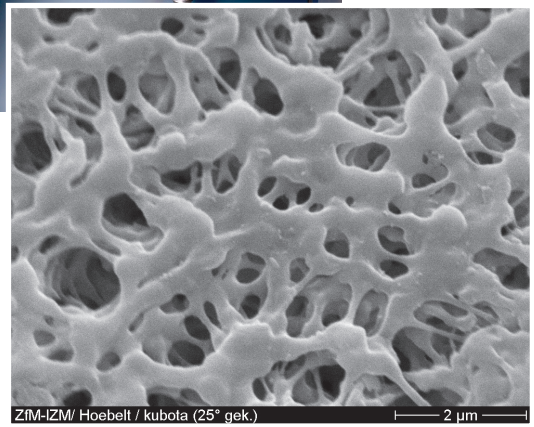
» Germany, Floating Home, 4 P.E.



ADVANTAGES AT A GLANCE

06

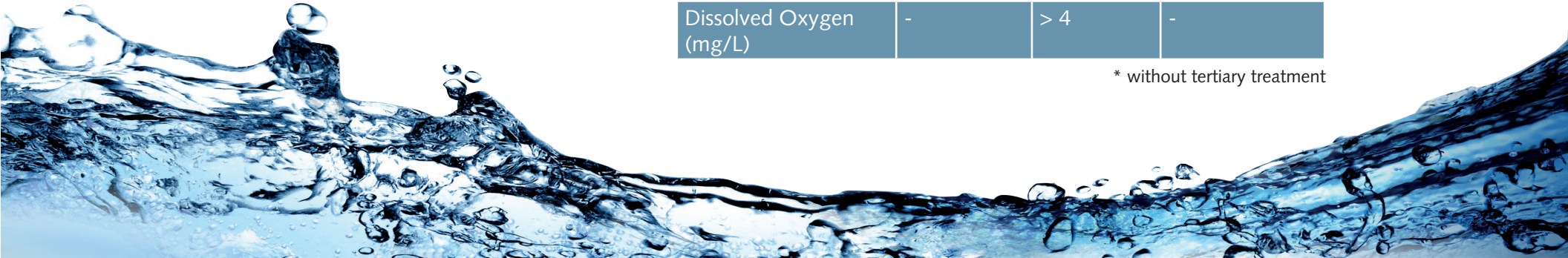




- Certified to NSF standards 40 & 245
- Can contribute up to 12 LEED® points for green building projects
- Reliable high performance treatment
- Ideal for non-potable reuse
- Modular system design with small footprint
- Applicability from 2 to 2000+ users
- Low annual maintenance and operating expenses
- Quick and easy system setup
- Quiet operation
- Automatic "vacation mode" for up to 4 weeks

	Influent Average	Effluent Average*	Class A Requirements
BOD5	210	2	< 10
TSS (mg/L)	170	< 2	< 10
Turbidity (NTU)	22.67	< 1	< 2
Fecal Coliforms (cfu /100mL)	8.26×10^6	< 10	< 200
NH4 (mg/L)	33.14	< 1	< 10
pH	7.0	6.5 - 7.5	-
Dissolved Oxygen (mg/L)	-	> 4	-

* without tertiary treatment



CALL US TODAY FOR A FREE QUOTE

BUSSE MF

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TESTED & CERTIFIED
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Prüfinstitut für Abwassertechnik, Aachen, Germany
NSF, USA

SUPPORTED BY
Umweltbundesamt, Germany
Deutsche Bundesstiftung Umwelt, Germany

