

- + SEPARATOR S300
- + SEPARATOR S655 / S855
- + SEPARATOR PLUG & PLAY
- + SEPARATOR GREEN BEDDING™



FOR A GREEN WORLD



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WASTE TREATMENT SOLUTIONS

BAUER SEPARATOR

WWW.BAUER-AT.COM



TRADITION WITH INNOVATION

Since its foundation in 1930, BAUER has consistently been ahead of its time through disruptive innovations that promote the efficient and sustainable use of resources. As a pioneer in wastewater treatment and a technological leader in environmental engineering, BAUER has established itself as a driver of progress, combining productivity with sustainability.

We strive for satisfied customers **all over the world.**

Headquarters in
Voitsberg, Austria

Service centers in **+100 countries**
and **5 continents**

Branches in **8 countries**

+1000 employees worldwide



BAUER SEPARATOR

WHY SEPARATE?

Up to 30% reduction of storage

Optimised nutrient utilisation

Odour of both liquid and solid fraction is hugely reduced

No formation of floating or sinking layers in the lagoon

Ideal for modern tanker distribution systems

Easier transportation

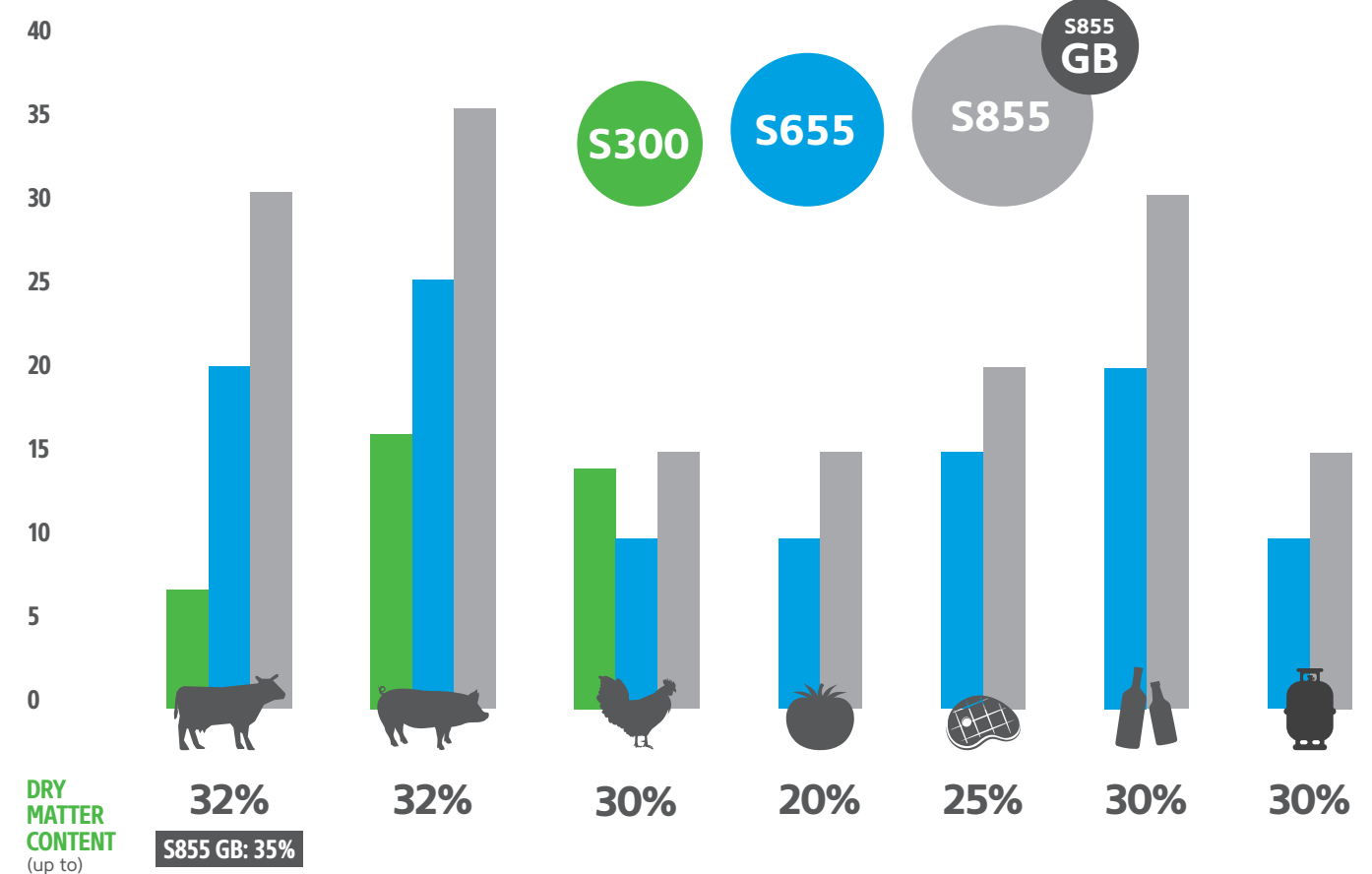
Lower energy requirements for mixing and pumping

APPLICATIONS

SEPARATOR MARKET

-  Slurry from cattle, pigs, chicken and poultry in agriculture
-  Separation before or after fermentation in biogas plants
-  Separation of plant waste in the Food Industry
-  Separation of solids from vinasse in Distillery Disposal and breweries
-  Separation of Rumen Content in Slaughterhouses
-  Separation of plant waste in the Paper Industry

THROUGHPUT* m³/h (up to)



BAUER SEPARATOR

* The throughput varies and depends on factors such as temperature, animal feeding, slurry age, counterweight adjustment, etc.



SEPARATOR S300

**MINIMAL TOTAL COSTS:
ENERGY EFFICIENT PLUS
LOW INITIAL INVESTMENT**

- + Optimum cost-performance ratio
- + Low operating costs
- + Less space required
- + Ideal for small farms with limited energy resources
- + Wide range of Agricultural based applications
- + Long life of wearing components

**BAUER
SEPARATOR
S300**



WE HELP TO GROW.

With our extensive range of slurry products we offer you the right tools. Since 1930 we have not only been concerned about the perfect equipment for the transportation of manure but also have been caring about the right treatment and spreading of manure. Furthermore, we are specialized in developing innovative solutions for the optimal and efficient preparation of manure.

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BAUER TECHNOLOGY LEADS IN THE SEPARATION OF LIQUID FROM SOLID NUTRIENTS.

PRODUCT DESCRIPTION

The Press Screw Separator 300 is a proven machine for the reliable separation of solids and liquids, using a rotating auger inside a fully floating screen.

In the first stage, the medium is drained by gravity through the screen. In the second stage, it is further compressed and discharged at the outlet. To ensure consistent dry matter content, the separator is equipped with an adjustable output regulator.

FEATURES AND BENEFITS

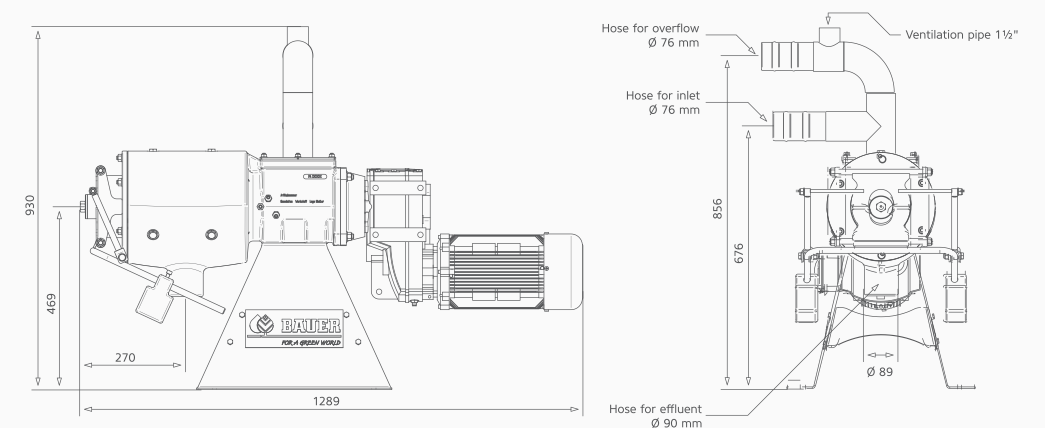
- + 2.2 kW motor
- + Throughput up to 16 m³/h
- + Dry matter content up to 32%

SMALL IN SIZE – BIG IN PERFORMANCE

Fully automatic separation into liquid and solid fractions offers key advantages: The remaining liquid slurry can be spread at any time – without complex homogenizing technology. The almost odorless solid fraction is easy to store or reuse.

TECHNICAL DATA

Throughput (m ³ /h)
Up to 16
Dry matter content (%)
32
Input power (kW)
2.2
Screen sizes (mm)
0.25 – 0.5 – 0.75 – 1.0



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SEPARATOR S655 / S855

ECONOMICAL USE OF
EXISTING RESOURCES WITH
UP-TO-DATE TECHNOLOGIES.

- + High-precision components
- + Constantly high throughput
- + Low wear costs due to long service life
- + Easy adjustment
- + Low maintenance



**BAUER
SEPARATOR
S655**

**BAUER
SEPARATOR
S855**



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HIGH ECONOMIC EFFICIENCY

Slurry separation is the ideal solution for farms with a large animal population and small distribution areas. It reduces the storage capacity requirement up to 30%.

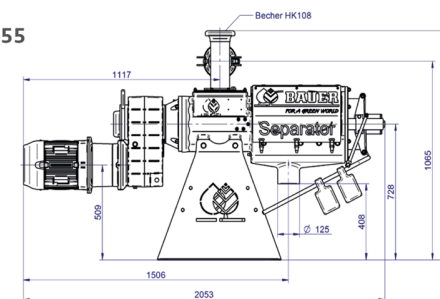
Through specific use of nutrients of the liquid and solid fractions, mineral fertilizers can be saved. Extra profits are possible by selling the solids for instance to small gardeners or as a basis of compost for horticultural farms.



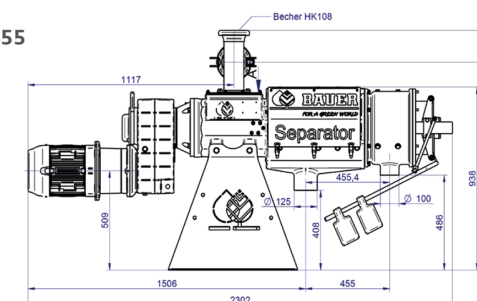
THE BAUER SEPARATOR SETS NEW STANDARDS ALSO FOR INDUSTRIAL APPLICATIONS

Due to its high quality material, top workmanship, and enormous performance capacity, the BAUER SEPARATOR finds nearly unlimited possibilities of application also in the industrial field.

S655



S855



**LARGE
LATERAL
OPENINGS**

For checking
and cleaning
of screen.

STRONG OUTPUT

Throughput capacity of raw slurry

Separator Model	S655	S855
Cattle slurry up to m ³ /h	20	30
Pig slurry up to m ³ /h	25	35
Poultry slurry up to m ³ /h	10	15

Throughput depends on age, dry matter content, and viscosity of the raw slurry.

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SEPARATOR PLUG & PLAY

**PLUG & PLAY
SEPARATOR-SYSTEM:
PLUG IT IN – GET SET – GO!**

- + Flexible, compact design incorporates all components in a small unit
- + Disconnect, load, and you're off to the next application
- + Multiple uses in agriculture, industry and biogas plants
- + Low energy requirement
- + Very high dry matter content
- + Optimal price-performance ratio
- + Long service life due to carefully matched components

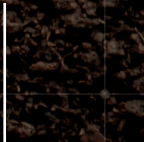


BAUER SEPARATOR PLUG & PLAY ELEVATOR

FOR APPLICATIONS
AT GREAT HEIGHTS

BAUER SEPARATOR PLUG & PLAY

FOR FLEXIBLE USE



EQUIPMENT

- + Separator
- + Eccentric spiral pump
- + Centrifugal discharge pump (with PP 300 optional)
- + Automatic pressure control with optional manual operation
- + Tubing, cables
- + Mounted on a sturdy frame with forklift device or hydraulic lifting device up to max. 4,3 m

BAUER SEPARATOR PLUG & PLAY S300

THE STARTER MODEL



TECHNICAL DATA

Separator Model	Total Weight (kg)	Throughput* (m³/h)	Suction Height* (m)	Pressure effluent pump* (bar)	Connected load (kW)	Dry matter content* (%)	Screen size (mm)
P&P S300	appr. 700	up to 15	up to 5	up to 1.8	min. 7	up to 32	0.25 – 0.50 – 0.75 – 1.00
P&P S655/655 HD	appr. 1800	up to 30	up to 5	up to 2.0	min. 15 – 18	up to 32	0.25 – 0.35 – 0.50 – 0.75 – 1.00
P&P S855/855 HD	appr. 1860	up to 40	up to 5	up to 2.0	min. 17 – 20	up to 32	0.25 – 0.35 – 0.50 – 0.75 – 1.00
P&P S855 Green Bedding	appr. 1900	up to 25	up to 5	up to 2.0	min. 17 – 20	up to 36	0.75 – 1.00

* Depending on media, dry matter content, viscosity, screen size, temperature, age of raw material, counter-weights.



SEPARATOR GREEN BEDDING™

BENEFITS

- + Dry matter content up to 36% in solids when separating cattle slurry
- + Production of cheap, harmless bedding by using the slurry existing on the farm. No additional bedding has to be bought
- + High dry matter content even at high throughput rates
- + Low energy consumption
- + Press screw and screen basket made of stainless steel
- + Long life of the auger due to hard metal coating
- + Housing made of cast iron
- + Permanent cleaning of the screen by the auger
- + Easy to maintain



BAUER SEPARATOR S855 GREEN BEDDING™

HIGHLY ECONOMICAL

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SEPARATOR GREEN BEDDING™ – A REAL RECYCLER SEPARATES AND REPURPOSES - TURNS MANURE INTO BEDDING!

PRODUCE YOUR OWN BEDDING

The BAUER Separator Green Bedding™ turns raw manure into fresh bedding of consistent quality every day-directly on the farm. Long-term studies have shown no increased risk of mastitis compared to other types of bedding material, with proper handling and a dryness of over 34% in the Green Bedding™ which is produced.

ECONOMIC BENEFITS FROM THE USE OF GREEN BEDDING™

Using Green Bedding™ provides numerous economic advantages in comparison with typical bedding materials such as straw and wood chips. In addition to the disappearing costs of purchasing outside bedding materials, no additional nutrients or unknown germs are imported into the dairy. A large storage area is unnecessary because the bedding material can be produced fresh daily. The liquid fraction is thinner after separation, can be distributed easily, and is more readily absorbed by the soil, reducing the overall volume of the slurry on the farm.

“COW-COMFORT BEDDING”

The well-being of the animals is also positively influenced by the use of Green Bedding™. The loose, soft material is readily accepted by the cows and preferred by them over bedding such as sand or rubber mats. Moisture retention is higher than that of straw and there is also less generation of dust. Hock abrasions and injuries to the animals' joints are minimized, and the cows are also very clean. The result of these beneficial aspects of Green Bedding™ is that the cows spend more time lying comfortably on the material and have a correspondingly high milk production.



TECHNICAL DATA

Throughput (m³/h)	Dry matter content (%)	Input power (kW)	Screen sizes (mm)
up to 20	36	7.5	0.75 – 1.0

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CUSTOMARY SLURRY TREATMENT: A PROBLEM

Farms with high animal concentrations are faced with great problems due to the big amounts of slurry.

This applies particularly to farms with a high stock per unit of area. Existing legal requirements aggravate the situation.

For this reason, slurry must be treated adequately. Customary slurry treatment systems are time-consuming and labor-intensive and require enormous investments, too.

THE BAUER SEPARATOR CONVERTS SLURRY INTO A VALUABLE FERTILIZER

Fully-automatic separation – that means splitting up slurry into a liquid and a solid fraction – offers great advantages.

The thin slurry remaining can be distributed any time without any sophisticated homogenizing techniques.

The odorless solid fraction is easy to store without any problems.



LIQUID FRACTION

- + Slurry volume reduced by 15 up to 30%.
- + This means less storage space and fewer transports.
- + Separated slurry significantly reduces the formation of floating and sinking layers, therefore there is no sophisticated technology necessary to homogenize the slurry before spreading it.
- + Lower nitrogen loss (NH_3 , CH_4 , N_2O) during storage and distribution due to extraction of solids and carbon.
- + Distinctly reduced smell.
- + More accurate nutrient analysis makes it possible to determine the ideal time of distribution.
- + Lower nutrient concentration allows a higher application per hectare compared with raw slurry.
- + Much better infiltration to the soil and less adhesion to the plants ensure that nutrients are more quickly absorbed and crop damage by burning is minimized.
- + Longer distribution period, because overhead application is possible.
- + Simple, cost-effective distributing systems.
- + Lower energy requirement for pumping and delivery.
- + Distinctly reduced weed seed content (especially dock) in the liquid fraction.

SOLID FRACTION

- + Self-composting, odor-less and stackable.
- + High solids contents allows storage without any special provisions.
- + Improves the soil structure and increases the humus content.
- + 30% or higher dry matter content allows composting in the open.
- + Apart from agricultural areas, suitable also for other applications, where nutrients are required.
- + Easy to transport and sell.
- + Re-use for bedding.

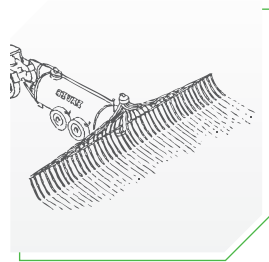


DRY MATTER SETTING

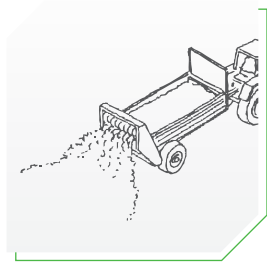
With the setting of the weights you can determine the desired dry matter content (up to 35%) of the solid fraction, if the slurry consistency varies.



SEPARATION OF RAW SLURRY (= 100%)

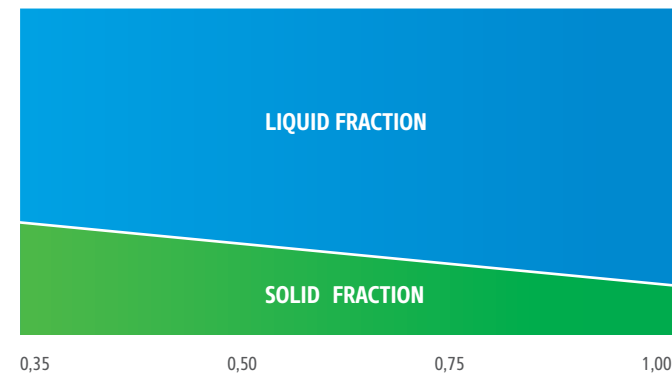
**Liquid fraction
70 – 85%**

Thin, ideal for
delivery through pipe
and hose systems.

**Solid fraction
15 – 30%**

Odorless, easy to store,
can be sold as fertilizer
or compost.

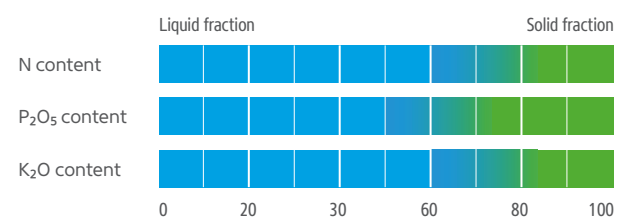
SCREEN SIZES



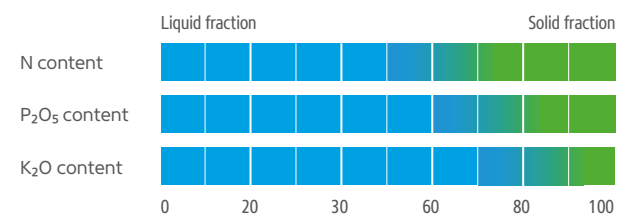
Four different screen sizes are available for the separator.
The separation degree also depends on the screen size.

NUTRIENT DISTRIBUTION BY SEPARATION

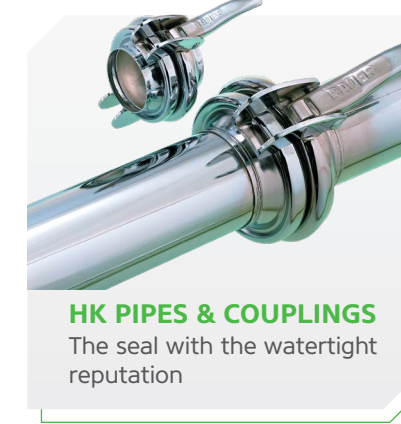
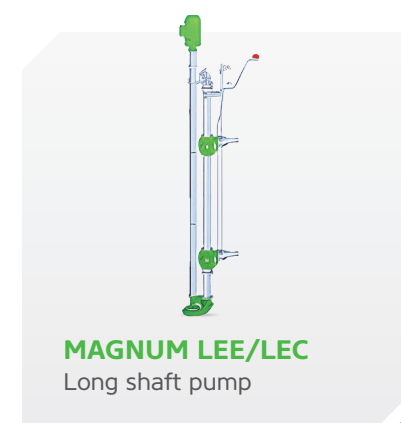
Total raw pig slurry (= 100%)



Total raw cattle slurry (= 100%)



The nutrient-separating capacity varies according to the dry matter content
of the raw slurry and the dry matter content of the solid fraction.

PRODUCTS FROM OUR
SLURRY PROGRAM

HK PIPES & COUPLINGS
The seal with the watertight
reputation

BAUER SEPARATOR



WE GO BEYOND.



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FOR A GREEN WORLD

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