Drying technology

POWER ON
Switch to full power!

www.fliegl.com
The name Fliegl has a decades-long reputation for quality and sophisticated, practical solutions in the agricultural sector. Within just forty years, Fliegl has developed from a one-man operation into a global player. The key to our success is our innovative capabilities – not only in agricultural technology, but also in loading and drying technology. Fliegl will always give you the optimum concept.

Switch to full power!
Fliegl's motto is “Power on!” It’s a clear starting signal, but also encourages maximum performance. Our cutting-edge production technology enables us to provide farmers, contractors, retail partners and employees with completely new possibilities. Secure more capacity and shorter delivery times with one of the most modern production facilities in Europe.

Innovative top-quality products
Just because an idea is new doesn’t necessarily make it a good one. At Fliegl, we rigorously check every single product. We know the demands of the market and we are in constant contact with practitioners. Our engineers and designers then use the very latest CAD systems to develop products that are consistent down to the finest detail and provide practical benefits. Innovations from Fliegl Agrartechnik are always tangible solutions for specific tasks.

German quality used worldwide
Despite increasing globalisation, Fliegl is still committed to Germany-based development and production. One reason for this is access to qualified specialists. From engineers to apprentices, we look for skills that we can develop further through continuing education and training.

Another factor is the high technical standard in Germany, which provides the ideal conditions to develop our ideas into the high-quality products expected of the Fliegl brand.
ECODRY ONE
Shear bottom dryer with integrated conveyor for wood chips, corn, grains and much more.

ENERGY-EFFICIENT DRYING WITH A HIGH THROUGHPUT!

- Energy-efficient drying
  Low power requirement and through feed method means only 1/3 of the electricity and energy usage of a vehicle or container dryer
- Thermal input up to approx. 550 kW/h
- Expandable up to approx. 250 m³ using Fliegl feeding systems
- Fully galvanised/powder-coated and painted
- Optional: corrosion-resistant V2A stainless steel
- PLC control
  Conveying and overloading intervals can be set manually or via overriding PLC
- Moisture measurement
- Level indicator
- Dust extraction with integrated overloading capability using screw technology
- Conveying technology/unloading dry material with integrated overloading capability into containers, tippers, boxes etc., including all substrates
- Roof hinged over the drying table and hydraulic opening for the loading container

CAN BE QUICKLY AND EASILY EXPANDED TO ECODRY MULTI OR ECODRY TOP

Air inlet via side air intake nozzles, or...
...via direct air inlet with single channel, or...
...via 3 DN 400 injector nozzles

Air inlet/dust separator via bridge slot sheeting
Flow height regulation via adjustable feeding gate
Shear bottom in the air channel for dust extraction
Cooling zone with transfer to conveying technology
ECODRY MULTI
Shear bottom dryer with integrated conveyor
...for fermentation residues, municipal and industrial slurry, etc.

- Multifunctional connecting flange for cyclone or air washers
- Drying separated fermentation residues or pressed slurry. Input moisture from 25% dry matter
- Desired residual moisture can be freely selected – minimum 5%
- Energy consumption: approx. 2.2 kW/h

INTELLIGENT AIRFLOW
- Multifunctional connecting flange for cyclone or air washers
- Drying separated fermentation residues or pressed slurry. Input moisture from 25% dry matter
- Desired residual moisture can be freely selected – minimum 5%
- Energy consumption: approx. 2.2 kW/h

- Optional drying:
  free-flowing granules of slurry

- Insulated roofing, hydraulic folding via rocker arm

- Adjustable feeding gate for flow height regulation and airflow via a spindle (only with the Ecodry Multi)

- Direct moisture measurement via microwave technology, either mounted on the adjacent box (see left) or on the exterior wall (see right)
ECODRY TOP
Shear bottom dryer with integrated conveyor and heat exchanger/fan unit for wood chips, wood shavings, sawdust and much more.

- Inclined screw conveyor with connecting flange to overload onto tippers, containers, etc.
- Roof scoop with fan and heat exchanger unit
- Removal of floor segments
- Heat exchanger circulation pump
- Processing unit with calibrated heat meter
- 250 mm rotary valve for connection to the conveying pipe or open transfer

- Maximum dust reduction via
  - Reverse airflow
  - Possible biofilter operation
  - Ability to connect cyclone/air washers
- Intelligent Fliegl heat management for optimal heat use
- Fast, simple assembly
- Drying capacity for extremely fast and fine-grained substrate
- Connecting flange for external fan
**ECOFEEDEER**

Shear bottom feeder with a storage capacity of 60 m³
...for wood chips, slurry, fermentation residues and much more

**TECHNICAL DATA FOR THE ECODRY AND ECOFEEDER**

<table>
<thead>
<tr>
<th>Type</th>
<th>Exterior length</th>
<th>Exterior width</th>
<th>Exterior height</th>
<th>Container volume</th>
<th>Storage container length</th>
<th>Drying table length</th>
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<tbody>
<tr>
<td>Ecodry One 12/12</td>
<td>12,600 mm</td>
<td>2,550 mm</td>
<td>2,900 mm</td>
<td>approx. 12 m³</td>
<td>2,800 mm</td>
<td>9,130 mm</td>
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<td>Ecodry One 20/12</td>
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<td>6,450 mm</td>
<td>5,480 mm</td>
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<tr>
<td>Ecodry Multi 12/12</td>
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</tr>
<tr>
<td>Ecofeeder</td>
<td>12,600 mm</td>
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<td>2,900 mm</td>
<td>approx. 60 m³</td>
<td>-</td>
<td>-</td>
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- Fast, simple assembly
- Automated overhead loading with level sensor
- Optimal storage volume extension to Ecodry
RONDODRY

Rotary dryer to evaporate liquids

- Rotary dryer to evaporate liquids e.g. thickening separated manure, fermentation residues and slurry (liquid phase)
- Extremely powerful evaporation performance due to a patented rotation body with a mesh structure (maximum surface approx. 400 m²) can produce 1 kg/1 kW of thermal energy
- Powerful heat exchanger/fan unit, comprising two axial ventilators and heat registers
- Extremely low power consumption of only approx. 1 kW/h
- PLC control with Fliegl heat management incl. interface (Modbus TCP)
- Fliegl digital weighing system
- Vibrating fork switch for WHG-approved overfill protection
- Connecting flange for inlets and outlets (e.g. feed pumps)
- Connecting flange for air washers
- Total filling volume approx. 3 m³
- Year-round, efficient heat consumption
- Prevents emergency cooler runtime
- Short payback period
- Simple installation and assembly
- Operation does not require staff deployment
- Saves end storage capacity and transport costs

Support feet with weighing sensors
Heat exchanger circulation pump
Processing unit with calibrated heat meter
Connection to the air washer via canvas connector
Rotating drum with mesh surface - approx. 400 m²
Speed-controlled axial ventilators and heat exchangers
PLC control for Rondodry - weighing electronics. Dynamic heat management from Fliegl
100% polypropylene with a maximum air throughput of 40,000 m³/h

Exhaust air scrubber and ammonium sulphate-generating system comprising several modules for assembly

Welding at installation site, including canvas connectors, for a smooth connection to Rondodry, including the engineering room for pumps, the control cabinet and separate acid room, which is operated as a collection tray for the sulphuric acid container

The floor of the FLW is used as a collection tray for the scrubbing water

Pre-assembled honeycomb structure, droplet separator, spray nozzle, piping, etc. ready to use on delivery at the installation site

Comprehensive documentation for simplified authorisation procedures, including the ordinance regarding installations handling substances hazardous to water in terms of water legislation requirements, emission measurements report, etc.

Combine with the Fliegl Rondodry or Ecodry for optimum compliance with emission limits

Total dimensions: approx. L 6.72 m x H 4.00 m x W 2.44 m

PERFORMANCE DATA

- > 90% ammonia separation
- Odour removal in accordance with TA Air
- Approx. 90% dust separation (depending on the crude gas)
- Flexible assembly