

CYCLO®

Efficient Centrifugal Dryer for any application



CYCLO® is energy-efficient pellet drying with minimal space required. The dryers are suitable for use with both PEARLO® underwater pelletizing and M-USG and P-USG underwater strand pelletizing systems. Well thought-out and highly accessible components, such as the core rotor device, serve to provide excellent operating characteristics and efficient servicing.

Your benefits

- Excellent pellet quality due to minimal residual moisture
- Compact design providing optimized access for cleaning and maintenance
- Pneumatic interlock of dryer doors for safe and easy servicing
- Integrated pre-dewatering chute provided as standard equipment
- Easy exchange of all parts subject to wear, e.g. rotor blades
- Special design for micropellets
- Low noise emissions
- Low energy consumption
- Reliable production machine
- Adjustable rotor speed – optional
- Self-cleaning system – optional

CYCLO®

Functioning and applications

Basic principle of pellet drying:

The drying operation as part of the pelletizing process consists of three individual steps:

- 1. Pre-dewatering:** Up to 95 % of the process water is removed by gravitational force.
- 2. Primary drying:** Bigger water drops adhering to the pellets are largely removed through airflow or mechanical movement.
- 3. Final drying:** The residual heat of the pellets is used to evaporate the remaining surface moisture.

CYCLO® Featuring:

- Field proved dryer designs
- Solid rotor combined with segmented bottom section
- Field proved EM (Easy Mounting) screens
- Tangential in- and outlet
- Low Noise insulation
- Integrated dewatering
- Stand still monitoring
- Pneumatic locking device
- Two large dryer doors
- Filter in dryer outlet insulated
- Motor on Top arrangement
- Internal air ductwork
- Easy clamp openings
- Rotor installed through dryer door

Range of applications

The CYCLO® centrifugal dryers are well-suited for the drying of raw materials as well as for the manufacture of compounds, blends, masterbatches, and recyclates based on:

- Polyolefins, e.g. LDPE, HDPE, PP
- Styrene polymers, e.g. PS, SAN, ABS
- Acrylic resins, e.g. PMMA, PAN
- Polyacetals, e.g. POM
- Polycarbonates, e.g. PC
- Polyesters, e.g. PET, PBT, PEN
- Polyamides, e.g. PA 6, PA 6.6, PA 11, PA 12
- Thermoplastic elastomers, e.g. TPE-S, TPE-E
- Polyurethanes, e.g. TPU
- Hot-melt adhesives
- Rubber
- Natural and synthetic resins
- Biopolymers, e.g. PLA, PHA, Bio-PA, Bio-PET, Bio-PP
- Other plastics available upon request

Technical data

System	Drying capacity [kg/h]	Water rate [m³/h]	Air flow Nm³/h	Motor size [kW]
CYCLO 420	3,000	50	1,700	4
CYCLO 430	8,500	70	2,720	5.5



The CYCLO® dryer features double walls filled with insulating material. Sound pressure level of ≤ 80 dB(A) is possible. Large, wide doors and larger distances between rotor screens and dryer walls provide easy access to the interior.



Integration of the intake and air filter into the resin outlet optimizes countercurrent air flow so less air volume is needed for the drying process.