



## WATER TREATMENT- & DRYING SYSTEM

### EFFICIENT AND ACCURATE PELLET DRYING

An efficient solution for pellet drying „Made by ECON“; the water treatment system is a compact and elegant unit. Continuous process water filtration, with double screens ensures a low maintenance requirement. With easy accessibility to the centrifugal dryer material changes can be executed very quickly allowing cost effective production of short runs increasing your flexibility.

**OPERATIONAL SEQUENCE (EWT)**

The pellet-water mixture emerging from the pelletizing housing is guided to the water treatment- and drying system.

Due to the unique design feature of the ECON system, no water bypass-piping is required within the process water cycle.

An agglomerate separation unit is installed upstream to the pellet dryer to remove pellet lumps before they enter the dryer. In the following stage the pellets flow with the residual water into the rotor section of the dryer, due to the design of the flaps utilizing centrifugal force, pellets are thrown against the screens.

While water is separated through the screens, pellets are continuously conveyed into the upper section of the dryer where they emerge through the pellet outlet for further transportation (e.g. with a conveyor fan).

With a special design of the pellet dryer (housing and dewatering screens) the cleaning process is optimised to allow a material change within only a few minutes.

The separated water is guided into the water tank and filtered by means of fine screens and then re-circulated. To control the process water temperature to a set value a cooling cycle with a heat exchanger is integrated into the system.

ECON-Model	Throughput rate	Material
EWT 250	up to 300 kg/h	Suitable for all thermoplastic and elastomeric materials hot-melt-types, adhesives, natural resins, silicones, wood composites, etc.
EWT 350	up to 1.000 kg/h	
EWT 400	up to 3.500 kg/h	
EWT 500	up to 6.500 kg/h	

*Special sizes on request. The specified output rates depend on the processed materials, the technical layout at the supplier and a test run at ECON's technical centre.*

**Compact and elegant construction**

**No water bypass required – reduced water losses**

**Easy accessibility to screens - minimum cleaning and maintenance requirement**

**Double screen arrangement – optimized process water filtration**

**Automatic agglomerate separation using pre dewatering unit**

**Clearance free pellet dryer for easy and safe cleaning**

**Optional: self cleaning pellet dryer for fast material change**

**Optional: wear protection for pellet dryer**

