

cd2.270 – Walking Floor Dryer for Wood Chips

The walking floor dryer is an efficient and cost-effective way of drying the wood chips for an optimal gasification process.

For an optimal operation of the wood gas CHP plants, dry wood chips with a water content of ideally less than 7% are required. The cd2.270 is available in a modular design to achieve this low residual moisture for specific project requirements. Due to the integrated oscillating sieving system a reliable operation can also be achieved with inferior wood chip quality. Oversize parts are ejected, fine parts that fall through the drying grid, can either be ejected or mixed back into the wood chips.

The wood chip dryer is a stable steel construction. Set up on a concrete floor, the forces of the walking floor are transferred into the steel construction, the base plate and the building are not loaded by those forces.

Specifications



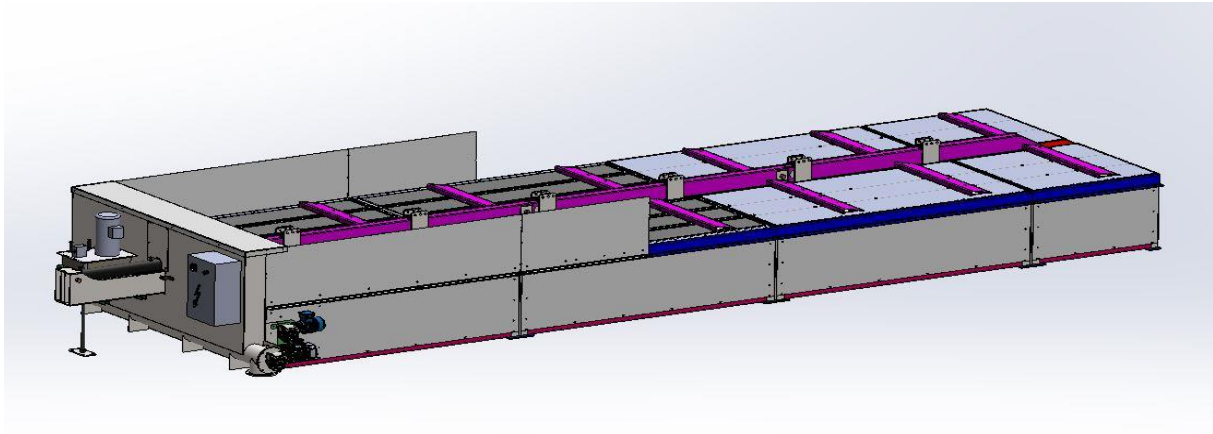
Example: Project-specific installation of three walking floor dryers.

The basic technical element contains the core components and the control technology.

- Hydraulic technology of walking floor
- Screw- and conveyor technology
- Blower and heater register (flanged directly to the dryer)
- Oscillation sieving system
- Fine fraction scraper floor
- Oversize parts ejection (optional)
- Control technology (in the switch cabinet of the Wood Gas CHP Plant, external switch cabinet possible)

Depending on the required drying capacity, 1 to 5 drying and/or bunker elements are mounted one behind the other on the basic element. Bunker elements differ from the drying elements in that their surface has no slots for the drying air. Half drying and half bunker elements are also available for an optimal design of the drying capacity.

The conveyor technology for connecting to the Wood Gas CHP Plant (transverse screws, vertical screws, etc.) is designed specifically for the individual project.



Scheme: Basic technical element with a drying element and bunker elements.

Specifications

Efficiency	1,3 kWh th / kg of water
Power consumption	0,05 kWh / kg of water

Dimensions & space requirements

Basic technical element	width	2,70 m	length	2,45 m
Drying and bunker elements	width	2,70 m	length	2,45 m
Half drying and bunker elements	width	2,70 m	length	1,225 m
Base plate to walking floor	height	0,72 m		
Wood chip bulk on drying element	height	0,2 to 0,5 m		
Maximum dumping height on the bunker element	height	3 m		
Projection of hydraulic cylinder over the basic element	length	1,20 m		
Total space requirement				project specific

All information in this product datasheet is to be understood as guide values.

Please see "VEE_272 Specification Wood Chips G30 - 50" for detailed information of the optimal combustible material for the vee wood gas CHP plants.