



ORIGINAL<sup>®</sup>  
**Specht**  
POULTRY EQUIPMENT

## Manure-Drying-Tunnel



The new Specht-Manure-Drying Tunnel is a developed system of drying manure. Due to the new system there is a significant reducing of ammonia concentration and a drying result of the manure up to 90 % possible.

By using the Specht-manure-drying tunnel it is possible to increase the quality of the manure, and at the same time reducing the volume and weight of it with a low energy expenditure as well as low installation costs

Problems with flies and unpleasant smells will be reduced significantly!



# Manure-Drying-Tunnel - Ma

## Mode of operation

The manure is transported by a vertical conveyor on the top floor of the drying tunnel and will be distributed on the manure belt through a hopper.

### *Vertical conveyor*



### *Distributor*



The drying tunnel is working with several perforated manure belts, which are arranged one above the other so that it will be horizontally transported from one level to another. The perforated belts are offset so that the manure can be passed to the next lower level. During passing the manure on the next level, the manure rotates, so that an optimally manure drying is ensured.

### *Belts arranged one above the other*



### *Belts arranged offset for the passing*



By using fans of pressure first the warm air of the stable will be conveyed into a room and creates there an overpressure. Due to this pressure the warm air of the stable will be pressed through the levels of the drying tunnel and through the manure and passes to the outside. The warm stable air, which was pressed through the manure, dried the manure on the perforated belts.

# Manure-Drying with a system

*Overpressure room with fans of pressure and tiers of the drying-tunnel*



The drying time in the drying tunnel is approximately 3 to 6 days.

At the end of the lower floor the manure is passed on a conveyor belt, which will carry the dry manure to a container or a storage room.

*Example for the manure transport to the storage room*



The manure drying system should be installed at the end of one side of the stable under a canopy (Pent roof), so that the stable air is blown directly into the tunnel.

## Advantages of the Specht Manure-drying-tunnel are:

- Reducing the ammonia content by 95 %, thus the outdoor air in the environment is no longer substantially polluted.
- Valuable manure, which can be distributed as dry matter on the fields or which can be sold as a high quality fertilizer.
- As the ammonia content remains in the manure, there is less smell during the output of the manure.
- Dry content of the manure up to 90 % or above. Reduction of the weight of the manure.
- Less expenditure of energy and low energy costs during the drying of the manure.
- Less Installation costs

## Application options

The Specht-drying manure system can be used for any poultry installation type with manure belts. It can also be used in addition to the integrated manure drying of poultry batteries, for subsequent drying.

In case of wet manure, where there is no installation for manure drying in the battery; the manure can also be dried without pre-drying in the tunnel, but with a dry matter content of 30 % before the manure is placed in the tunnel. In this case the tunnel should be longer to provide a corresponding result by prolonged drying. In tunnels without preliminary drying the proportion of the dry matter content can be between 65 and 90 % when the manure will leave the tunnel.

Using the Specht-manure-drying tunnel as an additional drying system, a dry matter content of up to 90% can be achieved throughout the whole year. This requires that the drying manure system of the battery has to reach a dry solid of approx. 45 %.

Condition for achieving the best drying result is, in both cases, that before the manure is carried into the drying tunnel, a solids content of at least 30 % was achieved.

## We also supply:

- ⇒ Feed silos
- ⇒ Cross manure removal system
- ⇒ Stable ventilation
- ⇒ Cooling
- ⇒ Complete housing equipment

## Our Service:

- Consulting at your place
- Shop drawing when placing the order
- Complete assembly or just provide a supervisor
- Through world-class quality guaranteed a great longevity of the battery



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