

Product data sheet

## Rotor in casing

### Model WSS

Amarant condensation rotor, also called “thermal wheel”, is most suitable for standard heat recovery applications. It's built up of two layers of foil, where one is corrugated and the other totally flat. The air runs through the channel between the layers, warming up or cooling down the foil. While spinning the channels change place and when entering the opposite side, heat transfer or cooling process will take place. Efficiency depends on the rotor-diameter plus well-height, and will increase by using smaller distance.

Not to forget is that the pressure-drop is then also increasing. Condensation can occur, and drain-pan is therefor recommended

Our technical design of the rotor secures maximum possible roundness and balance due specially designed hub, accompanied by minimum tolerance of deviation.

To secure highest standard in quality, no glueing of the layers or welding in rotor is used.

This results in a repeatable high quality product. Airflow will be uniform through the channels and thereby conformably with the calculated air pressure drop, and superior geometry of the rotor.

Standard execution is strengthened by spokes on both sides, fixed in pre-defined points.

This procedure guarantees maximum strength, balance and quality of the wheel.

All rotors are supplied with ball-bearing and shaft, where the shaft length can be selected by customer in different lengths.

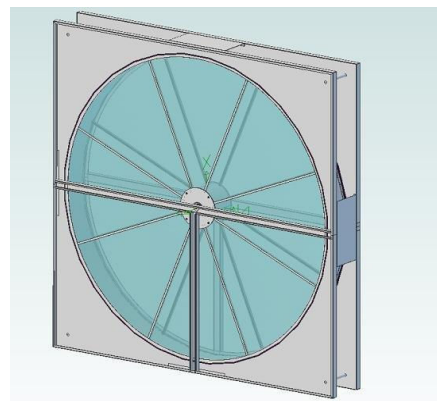
All rotors can be delivered in either galvanized or painted casings (corrosion protecting paint).

All casings are sealed with brush-profiles and as extra they can also be equipped with an purge sector, to minimize the leakage. Purge sector is available in 5° design.

Rotors available in: Aluminium, epoxy, hygroscopic and molecular sieve.

Available band-width:

- Alu, epoxy and hygroscopic 200mm.
- Molecular Sieve available in 100 and 200mm width. In casing only 200mm width!



Rotor diameter mm	Standard casing (W x H), mm	Depth mm	Well-height
500 - 1085	Rotor diameter +100mm	270	1.3/1.5/1.7/1.9/2.0/2.4
1086 - 1550	Rotor diameter +100mm	320	1.3/1.5/1.7/1.9/2.0/2.4
1551 -2700	Rotor diameter +150mm	320	1.3/1.5/1.7/1.9/2.0/2.4

Example: rotor 500mm in diameter = Casing 600 x 600mm.

Example: rotor 1600mm in diameter = Casing 1750 x 1750mm.

**Performance data according calculation software HeatCalc!**

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