

STX-R2 ROTARY HEAT EXCHANGER

A **rotary heat exchanger**, also known as a **thermal wheel**, is used to recover heat from the exhaust air and transfer it to the supply air. As warm exhaust air passes through the rotor's fins, they heat up. When the rotor continues to rotate, outdoor air passes through the heated fins and is warmed before being supplied to the indoor space.

To prevent unpleasant odors from the exhaust air from being transferred to the supply air, the rotor includes a **purge sector**. In this sector, outdoor air is used to blow away odor particles into the exhaust air, preventing them from re-entering the building.

The rotor's **efficiency** depends on its rotation speed and can reach up to **87% dry efficiency**.