



ThermAir

HIGH EFFICIENCY ENERGY RECOVERY

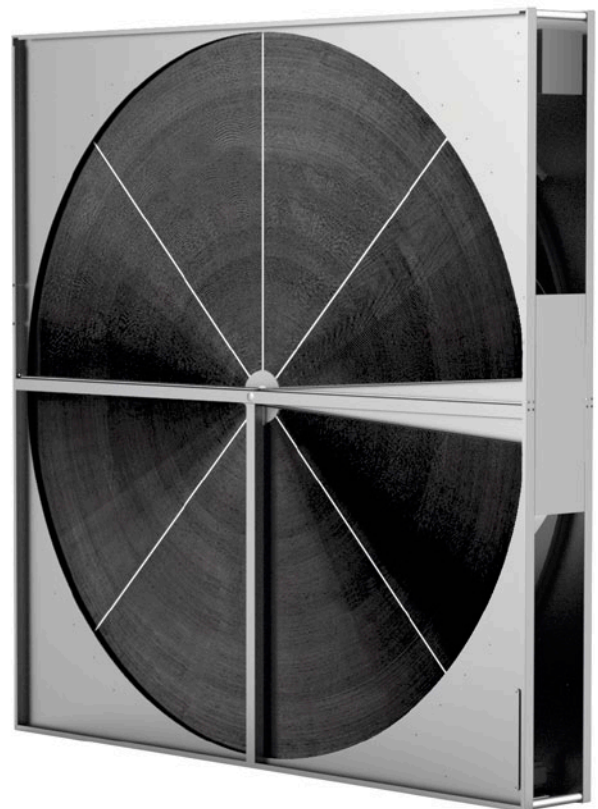
ThermAir benefits:

- » Up to 85% efficiency
- » Winter humidity recovery
- » Built in control system
- » EC IE4 efficiency fans

Thermair is a packaged energy recovery unit containing an air-to-air rotary heat exchanger.

Rotary Heat Exchanger

The air-to-air rotary heat exchangers consist of a cylindrical rotor containing thousands of channels in a permeable storage mass. In rotary heat exchangers the heat exchange takes place through the accumulation of heat in the rotor. When the wheel cylinder rotates slowly, the exhaust air moves across half of the shell and transfers heat to the rotor matrix which accumulates it. The supply air, which moves across the other half, absorbs the accumulated heat. The wheel's rotation speed is varied to control the heat recovered. The rotary heat exchanger can also be used for cooling recovery.



ThermAir features:

- » Recirculation on start up for wheel pre-heat
- » Fixed or variable volume control
- » Air volume 0.65 – 4m³/s
- » Touch screen controller
- » Optional LPHW or CHW coils

The demands for reducing energy consumption are ever increasing. We are committed to producing equipment providing buildings with fresh air in the most economical way.

ThermAir units have been developed to provide a packaged fresh air supply system with up to 85% heat transfer. ThermAir units have an inbuilt control system, tested at the factory prior to despatch, reducing site installation time and labour. Each unit is supplied with a hand held display console to simplify commissioning and operation.

The operational speed of the EC fans and the rotary wheel are optimised to provide the correct supply temperatures. The ThermAir units will provide heat recovery, cooling recovery and free cooling to suit all applications.

Integrated Controls

The ThermAir is complete with its own controls and pre-programmed controller, which is BACnet compatible. The hand held display console provided is connected via an external USB connection. This provides easy set up for initial air commissioning settings. The console also provides system status information, alarm interrogation, and set point adjustment.



ThermAir Model	1000	2000	3000	4000
Volume (m ³ /s) (Lo/Hi)	0.65 / 1.2	1.2 / 2.35	2.35 / 3.5	2.85 / 4.0
Length (mm)	2545	2745	2955	2955
Width (mm)	1360	1960	2360	2660
Height (inc. base) (mm)	1500	2100	2500	2800