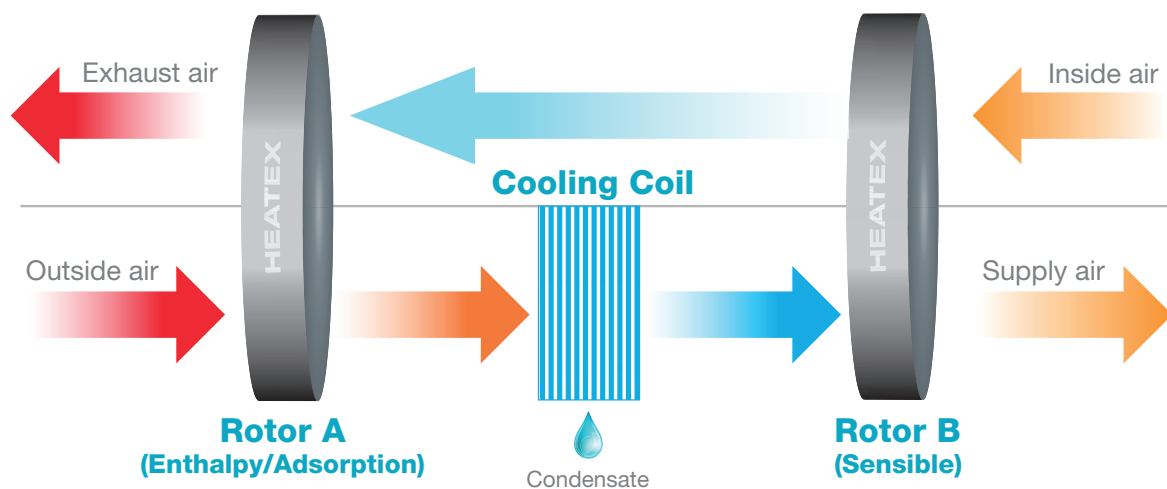


# DOUBLE ROTOR CONCEPT

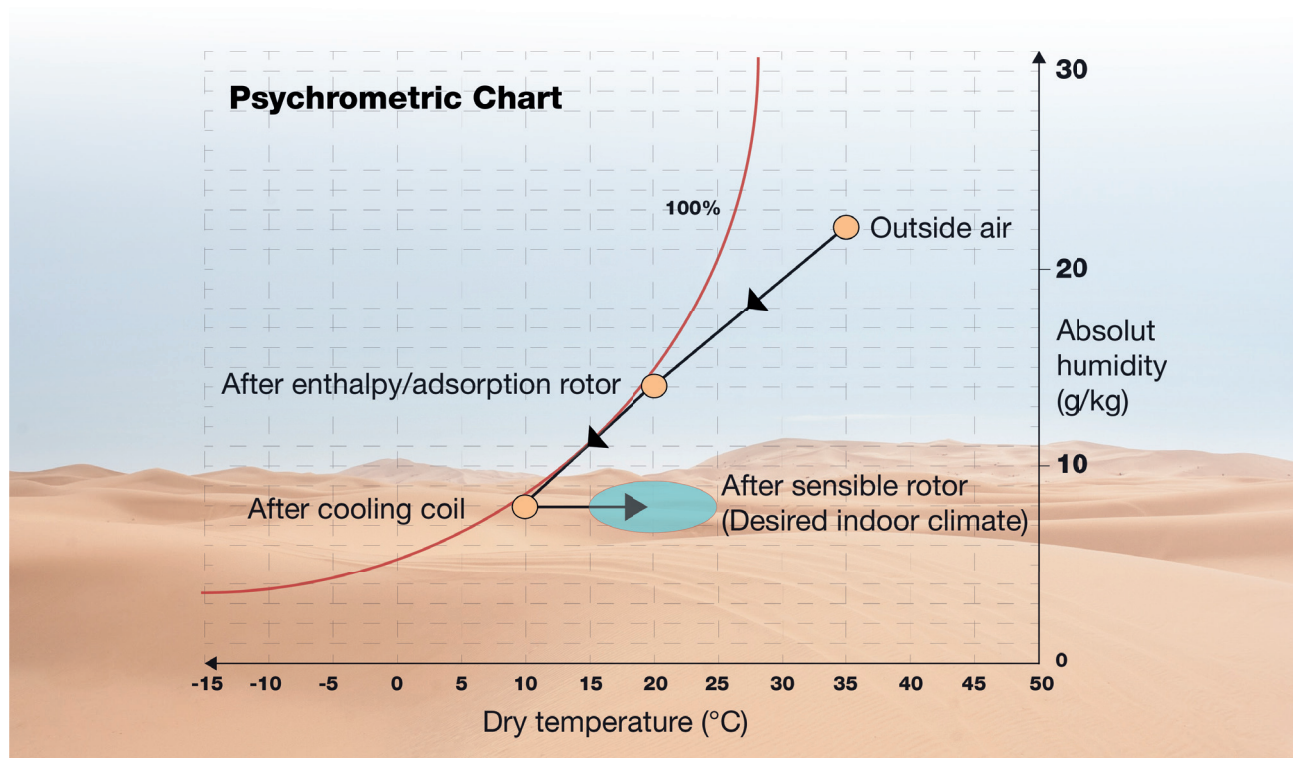
- Highly energy efficient solution for cooling and dehumidifying outdoor air
- Uses highly efficient rotating heat exchanger, with up to 90% humidity efficiency
- Less or no reheating necessary which further saves energy

## HOW IT WORKS

1. The enthalpy/adsorption rotor dehumidifies and cools the hot and humid outside air.
2. The cooling coil further dehumidifies the outside air until the requested humidity level is reached.
3. The sensible rotor reheats the outside air to the required supply air temperature.
4. At the same time, the exhaust air is cooled which increases the efficiency of the enthalpy/adsorption rotor.



In regions with high air temperature and humidity, the supply air needs to be cooled and dehumidified. The Double Rotor Concept is cooling, dehumidifying and reheating the supply air more energy effective.



## TECHNICAL SPECIFICATIONS

# HEATEX MODEL E/EQ

### MATRIX MATERIAL ROTOR A (ENTHALPY/ ADSORPTION):

- Molecular sieve coated aluminum
- Silica gel coated aluminium

### MATRIX MATERIAL ROTOR B (SENSIBLE):

- Aluminium

### CASING MATERIAL:

- Both models have galvanized steel casings.

### SEALS:

- Brush seal or a Heatex Special Seal for better wear resistance and improved tightness.

### TYPICAL AIRFLOWS:

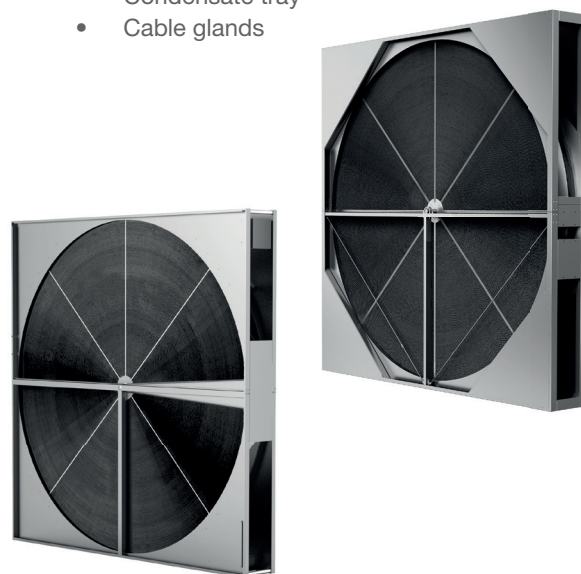
- Model E: 200 - 90 000 Nm<sup>3</sup>/h
- Model EQ: 2000 - 190 000 Nm<sup>3</sup>/h

### MAXIMUM ALLOWED PRESSURE DROP:

- Both models share the same high efficiency matrix.
- Max. allowed pressure drop is: 300 Pa for < Ø 1600 mm or 250 Pa for > Ø 1600 mm

### FURTHER OPTIONS:

- Purge sector
- Drive equipment
- Painted framework
- Inspection hatches
- Condensate tray
- Cable glands



### NEW!

Calculate the double rotor setup with

## HEATEXSELECT

[www.heatex.com/calculate-with-heatex-select/](http://www.heatex.com/calculate-with-heatex-select/)

## MODEL E - ONE PIECE RHE (STD. DIMENSIONS\*)

WHEEL		CASING (MM)		
Ø (MM)	FRONT (VARIABLE MOTOR)	FRONT (CONSTANT DRIVE)	DEPTH	WELL HEIGHT VERSION**
500 - 1100	550 x 550 - 1150 x 1150	600 x 600 - 1200 x 1200	276	1.6 / 1.8 / 2.0 / 2.2 / 2.5
1200 - 2575	1250 x 1250 - 2625 x 2625	1250 x 1250 - 2625 x 2625	316	1.6 / 1.8 / 2.0 / 2.2 / 2.5

## MODEL EQ - SEGMENTED RHE (STD. DIMENSIONS\*)

WHEEL		CASING (MM)		
Ø (MM)	FRONT (VARIABLE MOTOR)	DEPTH	WELL HEIGHT VERSION**	
1600 - 1900	1740 x 1740 - 2040 x 2040	456	1.6 / 1.8 / 2.0 / 2.2 / 2.5	
2000 - 2800	2140 x 2140 - 2840 x 2840	460	1.6 / 1.8 / 2.0 / 2.2 / 2.5	
2900 - 3800	3040 x 3040 - 3940 x 3940	500	1.6 / 1.8 / 2.0 / 2.2 / 2.5	

\* Other dimensions available on request.

\*\* The exact well height depends on the thickness of the material selected. See technical manual for exact dimensions.

Owing to continued product development Heatex reserves the right to introduce alterations without prior notice.