

ROTARY HEAT EXCHANGER

MODEL E

PRODUCT DATA SHEET

Model E is a high-performing and lightweight rotary heat exchanger designed for air handling units, primarily for comfort ventilation applications. Typical temperature efficiencies are up to 90%.

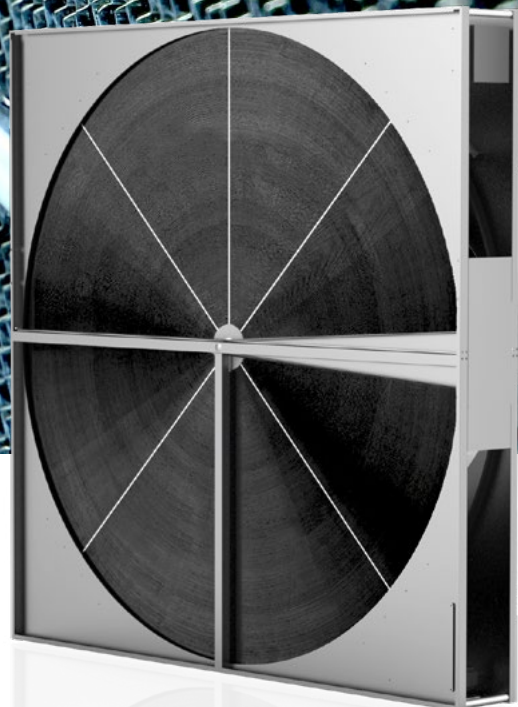
Model E offers one of the most compact casing available on the market. This gives an exceptional efficiency compared to conventional rotary exchangers with the same casing dimensions. The casing is manufactured from galvanized steel and provides high torsional rigidity.

The airflows may be oriented as side by side or top/bottom, and the complete rotor may be installed in a vertical as well as in a horizontal orientation.

Air leakage between wheel and casing is minimized with a brush seal allowing easy adjustment, longer lifetime and low friction. The two air streams are also separated by adjustable brush sealants.

Model E's performance is certified according to AHRI. Model E also meets several hygiene requirements.

Only the wheel, without casing, is called Model O.



TECHNICAL SPECIFICATIONS

MODEL E

SIZE Ø:

- 19.69" - 101.38"

CASING DEPTH:

- 10.87" (for Ø 19.69" - 43.31")
- 12.44" (for Ø 47.24" - 98.43")

MATRIX MATERIAL:

- Aluminum (Condensation)
- Epoxy (Condensation)
- Hybrid with silica gel (Enthalpy)
- Hybrid with molecular sieve (Enthalpy)
- Silica gel (Adsorption)
- Molecular sieve (Adsorption)

CASING MATERIAL:

- Galvanized steel

HUB:

- Ball bearing with shaft
- Ball bearing with shaft, corrosion resistant

SEALING:

- Brush seal
- Special seal for better wear resistance and tightness

DRIVE BELTS:

- Round belt
- Power belt

DRIVE UNIT:

- Advanced step drive and control with modbus
- Inverter ready constant speed drive

EXCHANGER ORIENTATION:

- Vertical or horizontal

AIRFLOW CAPACITY:

- 125 - 56 000 CFM

MAX. ALLOWED PRESSURE DROP:

- 1.2" WC for below diameter 63"
- 1.0" WC for larger than diameter 63"

MODEL E STANDARD DIMENSIONS*

WHEEL Ø (INCHES)	CASING (INCHES)		DEPTH	WELL HEIGHT VERSION**
	FRONT (VARIABLE MOTOR)	FRONT (CONSTANT DRIVE)		
19.69	21.65 x 21.65	23.62 x 23.62	10.87	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
23.62	25.59 x 25.59	27.56 x 27.56	10.87	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
27.56	29.53 x 29.53	31.50 x 31.50	10.87	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
31.50	33.46 x 33.46	35.43 x 35.43	10.87	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
35.43	37.40 x 37.40	39.37 x 39.37	10.87	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
39.37	41.34 x 41.34	43.31 x 43.31	10.87	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
43.31	45.28 x 45.28	47.24 x 47.24	10.87	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
47.24	49.21 x 49.21	49.21 x 49.21	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
51.18	53.15 x 53.15	53.15 x 53.15	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
55.12	57.09 x 57.09	57.09 x 57.09	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
59.06	61.02 x 61.02	61.02 x 61.02	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
62.99	64.96 x 64.96	64.96 x 64.96	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
66.93	68.90 x 68.90	68.90 x 68.90	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
70.87	72.83 x 72.83	72.83 x 72.83	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
74.80	76.77 x 76.77	76.77 x 76.77	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
78.74	80.71 x 80.71	80.71 x 80.71	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
82.68	84.65 x 84.65	84.65 x 84.65	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
86.61	88.58 x 88.58	88.58 x 88.58	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
90.55	92.52 x 92.52	92.52 x 92.52	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
94.49	96.46 x 96.46	96.46 x 96.46	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098
98.43	100.39 x 100.39	100.40 x 100.40	12.44	0.055 / 0.063 / 0.071 / 0.079 / 0.087 / 0.098

* 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.