

HEATEX

PLATE EXCHANGER

The most efficient cross-flow plate heat exchanger now produced in the US!



Thanks to their wide size and spacing selections, high quality construction, great effectiveness and affordable prices, Heatex plate exchangers are one of the most popular heat recovery components in the industry. Now featuring new spacings that can lead to sensible effectiveness levels exceeding 80%, Heatex plate exchangers set a new standard for sensible cross-flow plate exchangers.

These plate exchangers are also the only product on the market featuring unique folded plate connections and a special casting sealing method for extremely leakproof assemblies, 100% of the time. Lastly, Heatex plate exchangers highly optimized embossment and folded leading and trailing edges gives them an outstanding rigidity able to resist pressure differentials as high as 10" w.g..

► Features and benefits

- Most effective sensible cross-flow plate heat exchanger in the market
 - Lightweight, compact design; easy to install
 - Operating temperatures up to 400 °F (option)
 - Outstanding corrosion resistance (option)
 - Unique embossment for the lowest pressure drops and great effectiveness
 - Easy to clean thanks to its simple cross-flow design.
 - No moving parts; no wear, always ready for operation
 - Separate air streams; no cross leakage
 - No external power required; no extra running costs
- AHRI Certified performances; bears the AHRI Standard 1060 (I-P) certified seal

► Options

- Corrosion protection coating
- High temperature assembly
- Center or side bypass
- Aqua Seal (Laboratories or Indirect Evaporative Cooling applications)

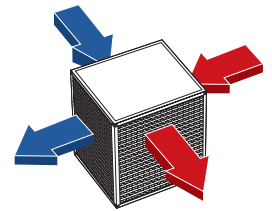
Operating Principle:

Summer operation

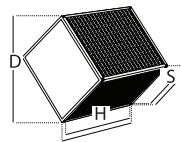
In summer operation, heat from the outside fresh air is transferred to the outgoing air, greatly reducing air-conditioning costs.

Winter operation

In winter, heat from the outgoing air is recovered and transferred to the fresh incoming air, greatly contributing to reduced heating costs.



Dimensional data (in/mm)



Model	Square size (S)	Diagonal (D)	Height (H)
600	23.62/600	32.64/829	Any
700	27.56/700	38.19/970	Any
850	33.46/850	46.54/1182	Any
1000	39.7/1000	54.88/1394	Any
1200	47.24/1200	66.02/1677	Any
1400	55.12/1400	77.17/1960	Any
1700	66.93/1700	93.86/2384	Any
2000	78.74/2000	110.55/2808	Any



setting the
standard
for **energy
recovery**

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HEATEX PLATE EXCHANGER SPECIFICATIONS

1. General specifications:

- a. Furnish and install the Heatex H2 Series air-to-air plate exchanger as shown in the schedule.
- b. The air-to-air plate exchanger shall transfer heat between outgoing and incoming air streams in crossflow arrangement.
- c. Performance data derived from laboratory testing on heat exchanger conditions is in accordance with ASHRAE Standard 84-1991 "method of testing air-to-air heat exchangers". Performance shall be rated in with AHRI Standard 1060 (I-P) testing procedures.
- d. The sensible plate exchanger shall be listed in the AHRI Certified Product Directory and bear the AHRI Certified Product Seal. Exchangers only tested "in accordance to AHRI 1060" but not certified shall not be acceptable.
- e. The air-to-air plate exchanger manufacturer must have a least ten (10) years of experience in the manufacturing of energy recovery components.

2. Product specifications:

- a. The exchanger plates shall be 99% pure aluminum. Plates made from aluminum alloys, plastic, fiber, steel or other material(s) are unacceptable.
- b. The plates shall be die formed with the Heatex corrugation pattern, increasing turbulence and heat transfer without creating stagnation point. Plate profiles of the laminar flow design type are unacceptable.
- c. Aluminum plate design must be optimized for maximum rigidity and heat transfer. The aluminum plate thickness shall not exceed 0.006" (0.15 mm). Exchanger designs requiring thicker aluminum plates shall not be acceptable.
- d. The air-to-air plate exchanger shall withstand, without significant change in its performance and pressure drops, a pressure differential of at least 5" WC. It shall withstand a pressure differential of 12" w.g. without permanent deformation for spacing 0.157" (4.0 mm) and above and up to 9" w.g. without permanent deformation for spacing 0.118" (3.0 mm).
- e. The connecting plate edges shall be folded on automated manufacturing equipment.

- f. The air-to-air plate exchanger core shall be assembled into a strong, self-supporting frame made of aluminum corner extrusions and 20 gauge galvanized steel end plates.
- g. Plate corners shall be sealed with MS polymer silicone free sealant.
- h. The exchanger shall be silicone free.
- i. The aluminum corner extrusions shall be hollow to accept mounting screws and shall provide a 45° or 90° corner support angle.
- j. The Heatex H2 Series construction (standard product): The air-to-air plate exchanger package with MS Polymer sealed corners shall be resistant to temperatures up to 194°F (90°C).
- k. The Heatex H2 "E" Series construction option (epoxy coated aluminum): The air-to-air plate exchanger plates shall have a PVC mill applied coating. The extrusions, endplates and all sheet metal surfaces are to be powder coated, providing protection for installations in corrosive environments. The heat exchanger package with MS Polymer sealed corners is to be resistant to temperatures up to 194°F (90°C).
- l. The Heatex "A" Series construction option (high-temperature construction): The air-to-air plate heat exchanger shall be of High-Temperature construction. The plate exchanger shall be sealed with a special high temperature resistant sealant to protect the heat exchanger package against temperatures in the air streams of up to 392°F (200°C).

3. Options:

- a. Heatex Aquaseal: In addition to the standard sealing process, all folds of the exchanger shall be completely filled with a special polymer sealant for water tightness and an even higher level of air tightness.

Version: 3.0

