

HYBRID MONPLEX II™ COLD INTERPASS HEAT EXCHANGER



HYBRID MONPLEX II™ PROVIDES THE HEAT TRANSFER NEEDED TO MAINTAIN OPTIMUM CATALYST BED TEMPERATURES FOR BEST CONVERSION EFFICIENCY.

NEW DESIGN, WELDED STRONG – HIGH VALUE, LOW COST

Hybrid MonPlex II™ incorporates design improvements that result in a new fully welded plate and tube configuration that is both compact and highly efficient. Since the Hybrid MonPlex II™ units are fully shop fabricated, consistent high quality and low field costs can be attained. The Hybrid MonPlex II™ units are constructed in modules, rendering units that are easily installed, repaired, or replaced.

Hybrid MonPlex II™ has been developed specifically for cold interpass applications, combining the maximum heat transfer capabilities achieved from plate style exchangers with the ease of maintenance and reparability offered by traditional tubular style exchangers. Hybrid MonPlex II™ offers the designer ample flexibility in arranging the modular units to fit a particular layout. The Hybrid MonPlex II™ modular design can be readily expanded with parallel units to decrease pressure drop and increase heat duty for capacity increase and de-bottlenecking projects. The Hybrid MonPlex II™ is the right design for your cold interpass requirements today and can grow to meet your capacity needs of tomorrow.

FEATURES AND BENEFITS:

- Light, compact, low cost alternative to shell and tube heat exchangers for acid plants
- Welded tubes, providing maximum strength and reliability, combined with dimpled plates promote outstanding efficiency and low surface area requirements
- Key access points designed for full serviceability of plates and tubes
- Seam welded plate pack and tube bundle ensure zero leakage
- Potential acid mist carryover localized to easily repairable/replaceable tubular section
- Modular design minimizes field labor expenses and promotes expedited schedules

CONICAL DIMPLES



WELDED TUBES



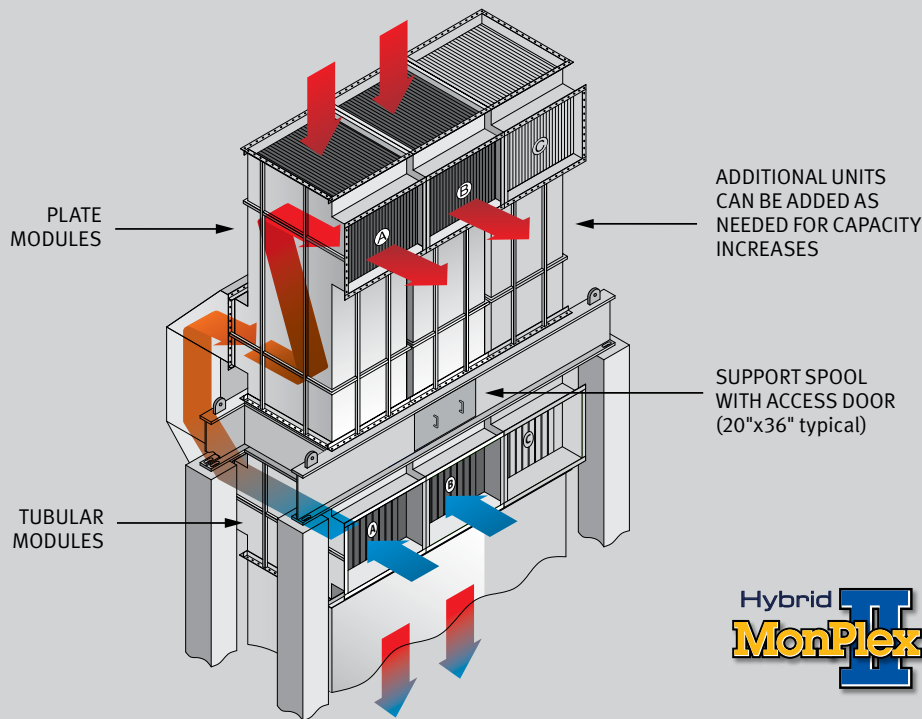
HEAT EXCHANGERS

Learn more at www.mecs.dupont.com

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HOW IT WORKS

Hybrid MonPlex II™ is designed for optimum heat transfer while standing up to the harsh conditions of a sulfuric acid plant.



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DESIGNED SPECIFICALLY FOR COLD INTERPASS APPLICATIONS

The Hybrid MonPlex II™ consists of a small tubular exchanger combined with a larger plate exchanger to provide a more reliable and cost effective cold interpass heat exchange solution. The easily repairable and replaceable tubular section acts as a maintenance module, trapping potential acid mist carryover. As a result, potential corrosion is localized in this section. The support spool vestibule provides generous clearance between passes, with a wide access door to allow for tube plugging and general maintenance. The heat transfer plates and tube bundle are completely seam welded to prevent cross contamination. Prior to shipment, each module is leak tested and rated for 0.01% maximum leakage at the design differential pressure, ensuring straightforward start-up and long service life.

MECS® SULFURIC ACID EXPERIENCE – UNMATCHED WORLDWIDE

MECS® has offered process technology and high performance products for the sulfuric acid industry since 1925. MECS® overall acid plant design and construction experience combined with extensive corrosion R&D and process engineering expertise has led to numerous technology breakthroughs for the sulfuric acid industry. MECS® sales and engineering offices are located worldwide and can help you specify the MonPlex II™ unit best suited to your needs.

Hybrid MonPlex II™ is a member of the MECS® family of Heat Exchanger product technologies.