



Barriquand

HEAT EXCHANGERS



To control your energy,
focus on **HEAT
TRANSFER**



www.barriquand.com



Barriquand

HEAT EXCHANGERS

Barriquand Heat Exchangers designs and develops custom-built optimized thermal solutions, supplying the best heat exchanger technology to cope with your specific applications.

RELIABLE SOLUTIONS

With over 90 years of extensive experience, we offer **high quality products**:

- **Platular®** welded plate heat exchangers
- **Shell & Twist®** and **Shell and tubes** heat exchangers
- **Plate and gaskets** heat exchangers

ENGINEERS SPECIALIZED BY MARKET:



Chemical,
Petrochemical



Oil
& Gas



Environment
& Energy



Heavy
industry

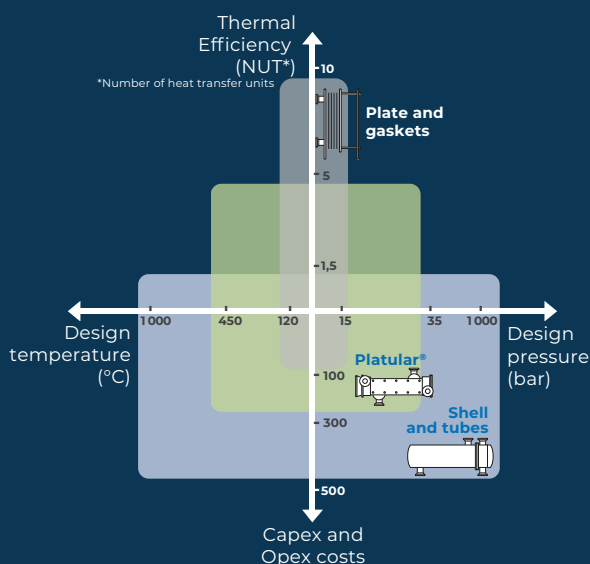


Agro-
industry



HVAC

THERMAL EFFICIENCY



TWO ISO 9001 CERTIFIED FACTORIES

Barriquand
PLATE EXCHANGERS

Barriquand
SHELL AND TUBES

DESIGN

Each unit is designed using in-house proprietary software and is continuously monitored by our quality-assurance team throughout the manufacturing process.

CARACTERISTICS

up to 70 tons and 1 500 m²

MATERIALS

304L - 316L - 316TI - 254 SMO - UB6 - 45N - C22 - C 2000 - C276...

CERTIFICATIONS AND CONSTRUCTION CODES

DESP, U STAMP, CODAP, ASME VIII, EN 13445, TEMA, SELO

TESTS

Air - NH₃ - Helium - Demineralized water - Oil - X-Ray - Ultrasound - Roughness...

SURFACE FINISHES

2B finish - Cold rolling - Mechanical polishing - Electro-polishing - Oxygen degreasing...

PLATULAR®

WELDED PLATE HEAT EXCHANGERS

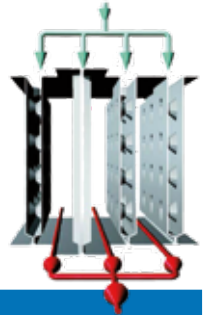
PLATULAR®

HYBRID AND EASY-TO-CLEAN HEAT EXCHANGER

Wide gap welded plate units specially designed to counter fouling problems related to complex fluids (viscous, containing a high content of suspended matter...)

ADVANTAGES OF THIS PATENTED TECHNOLOGY

- Highly flexible **custom-built solutions**
- **Clear free flow channels** for dirty, complex or viscous fluids
- **High heat exchange** coefficient with a tight temperature approach
- **High temperature crosses** possible
- **Fully welded** = Gasket-free design
- Compact and Robust thanks to Barriquand's patented **design**
- **Low operating costs** = more savings
- Openable and accessible via **hinged access covers** for **easy maintenance** in situ
- **Quick process shut down** for maintenance / inspection duties
- **Reduced cleaning frequency** thanks to clear free-flow channels without contact points



CHANNEL PROFILES

Spacing from 3 to 40 mm,
optimized pressure drop
Plate thickness: 1.5 to 3 mm



TYPE I



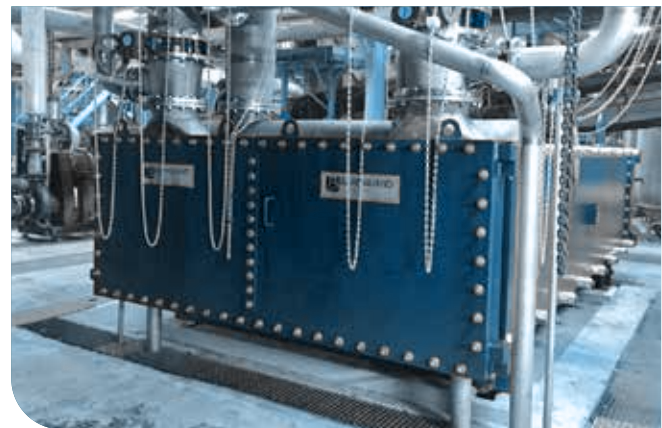
TYPE II



TYPE DI

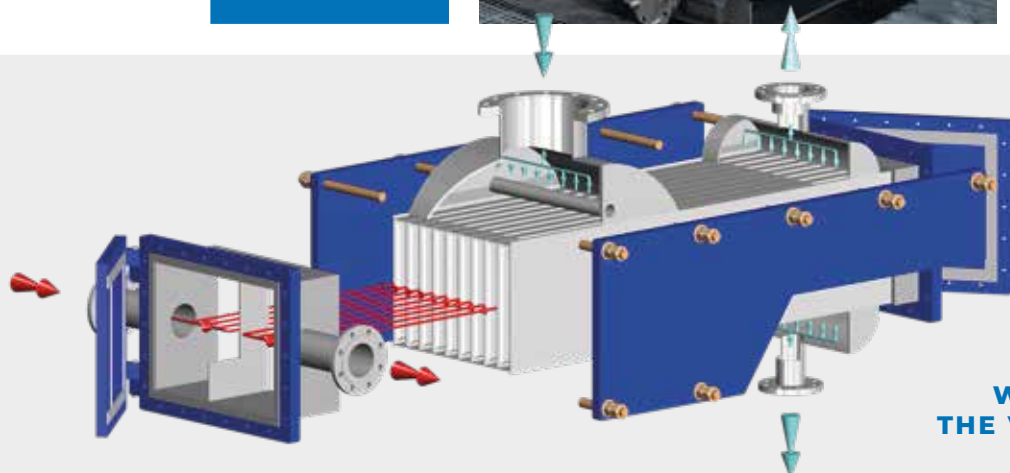


TYPE U





WATCH
THE VIDEO



WATCH
THE VIDEO



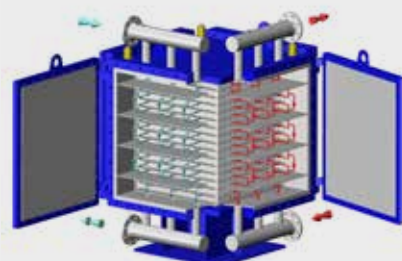
HEAT TRANSFER CONDITIONS

- Heater
- Cooler
- Condenser
- Liquid x Liquid
- Gas x Liquid
- Gas x Gas
- Vapor
- Steam



VARIOUS DESIGNS AVAILABLE

- Fully welded construction: **XS, JS**
- Hinged access covers on 1 circuit: **XASP**
- Hinged access covers on 2 circuits: **XP**
- Overhead Column Condensers



SHELL & TUBES AND TTW / SHELL & TWIST® HEAT EXCHANGERS

Exchangers covering the most demanding applications

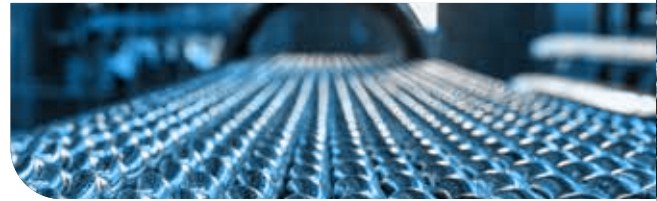
SHELL & TUBES

- Resistance to high pressures and temperatures: up to 400 bar and 550°C
- Very robust construction

SHELL & TWIST® / TTW

Tubular specifically designed to improve your thermal performance.

- Improved performance (30%)
- Reduced mechanical fatigue
- No more vibration (free baffles design)
- Compact: 30% gain on installed area (vs straight tubes)
- Vortex effect to improve turbulence and reduce fouling



PLATES AND GASKETS HEAT EXCHANGERS

Wide range of plates for high thermal performances

ADVANTAGES

- Good heat exchange coefficient
- Wide range to suit a large panel of industrial applications
- Custom sizing and exchangers on stock



VARIOUS DESIGNS AVAILABLE

Standard Plates and gaskets
"Sanitary" double-walled plates (double plates)

Wide gap plates (free flow)

Plate materials: 304, 316, titanium, 254 SMO (others on request)

Plate thickness:
0.4 to 0.6 mm

Operating pressure:
PN 10, 16, 25 bar

Operating temperature:
-20°C to 130°C





Barriquand

HEAT EXCHANGERS



SEE OUR
**PRODUCTS AND
APPLICATIONS
BROCHURES**



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