



4D COILS LIMITED
Heat Transfer Specialists

SHELL & TUBE HEAT EXCHANGERS

**DX EVAPORATORS • CONDENSERS • DESUPERHEATERS
LIQUID RECEIVERS • FLOODED EVAPORATORS • ECONOMISERS**

A wide range of shell & tube chiller products, plus heat recovery exchangers



Certification

Highly reliable and dedicated web-based software makes it simple to select from the whole product range.

Selection Software

Complete Line of Refrigeration Solutions

Certification Available : **PED** with **CE**, **GOST** and **LLOYD** markings

Wide range of standard configurations;

More than 2,500 geometries available for refrigeration

More than 10,000 combinations for Heat Recovery

Extensive materials list for production & surface treatments;

Copper, Stainless Steel, Cupronickel (CuNi 90/10)

Titanium & Carbon Steel



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SHELL & TUBE HEAT EXCHANGERS

DX EVAPORATORS

Capacities of upto and over 2,000 kW, with 1, 2, 3 or 4 independent cooling circuits. High-efficiency internally grooved heat exchange tubes enabling higher heat transfer coefficients & lower inner tube volumes, which entails less refrigerant and therefore a reduction in size and weight. Water side connections can be vertical, horizontal, or axial.

FLOODED EVAPORATORS

Capacities of upto and over 1,500 kW, with 2 and 4 water side passes. 1, 3, & 6 water side passes available for special applications. Externally finned and internally grooved heat exchange tubes with a low fouling factor enabling higher heat transfer coefficients and lower inner tube volumes.

CONDENSERS & DESUPERHEATERS

A wide range with 12 tube length geometries offering greater flexibility. The shell and tubes are made of special high performance copper tubes, externally finned and internally grooved, with a low fouling factor. All products are built to work with tower water, well water and, on request, sea water.

LIQUID RECEIVERS

The ideal solution for storing refrigerant charge to absorb fluctuating system loads. The storage capacity of ERH & ERV liquid receivers ranges approximately between 8 and 2,300 liters. Larger customized solutions are available on request. Receivers are available in two series: ERH horizontal and ERV vertical liquid receivers.

HEAT RECOVERY EXCHANGERS

Over 10,000 configurations available for energy recovery and cogeneration applications comprising standard Liquid-to-Liquid heat recovery and Steam Heat Recovery. Please ask for details of full range

Material Options

Shell and tube heat exchangers can be manufactured with special materials.

Tube side: → stainless steel AISI 316 → cupronickel CuNi 90/10 → titanium (on request, exchange tubes only)
→ special stainless steels (on request, tube plates and headers only) → EPDM marine rubber seal → Zn-Mg sacrificial anodes → refrigerant side double outlet

Shell side: → carbon steel

Options & Accessories

- U-BOLTS Saddle Clamps - for every product we offer our U-Bolt mounting system for easier installation
- Gas Connection Flange Options; Oval / Triangle / Square / Circular plus OD and ODS Nozzle
- Water Connection Options; UNI Split Flange / Grooved Coupling / UNI Flange Adaptors
- Sight Glasses for RX, ER, DRX & FEH Series
- Insulation for EXL & EXH Series

EX SERIES



FEH SERIES



RX SERIES

DRX SERIES



ERH SERIES

ERV SERIES



HRE SERIES

VA SERIES

FF SERIES

