

# HEAT EXCHANGER SOLUTIONS

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FOR THE CHEMICAL  
PROCESSING INDUSTRY



SERVICE AND  
SUPPORT FOR THE  
CHEMICAL INDUSTRY



# HIGH PERFORMANCE

for Chemical Applications

## Your Reliable Partner in Chemical Production

With over 800,000 American-made heat exchanger plates and gaskets in stock and a nationwide fleet of service technicians on call anytime, WCR provides the support you need to perform at your peak.

### PROCESSES



Heating



Cooling



Interchangers

Our customers include:





# NEW PLATE HEAT EXCHANGERS

## Standard Design Options, Ready to Ship in Weeks

WCR manufactures twelve standard models of heat exchangers with 1" to 12" connections, as well as custom drop-in replacement heat exchangers for all major name brands – even obsolete lines. Our units can be produced and shipped in less than twelve weeks to assure minimum downtime.

- Gasket plate heat exchangers
- Standard 1" – 12" connections
- Custom 1" – 20" connections
- High alloy construction
- High turbulence
- Low hold up volume
- Reduction in fouling
- Approach temperatures as close as 2 degrees Fahrenheit
- Evaporating, condensing, and batching applications
- Multiple plate angle configurations possible
- Semi-welded cassettes



# THE LARGEST SELECTION

## of Replacement Plates and Gaskets in America

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WCR manufactures and stocks OEM-quality specified plates and gaskets for all makes and models of plate heat exchangers. Order from the largest inventory in North America. We promise to get your part shipped and installed quickly – usually within a day or two!

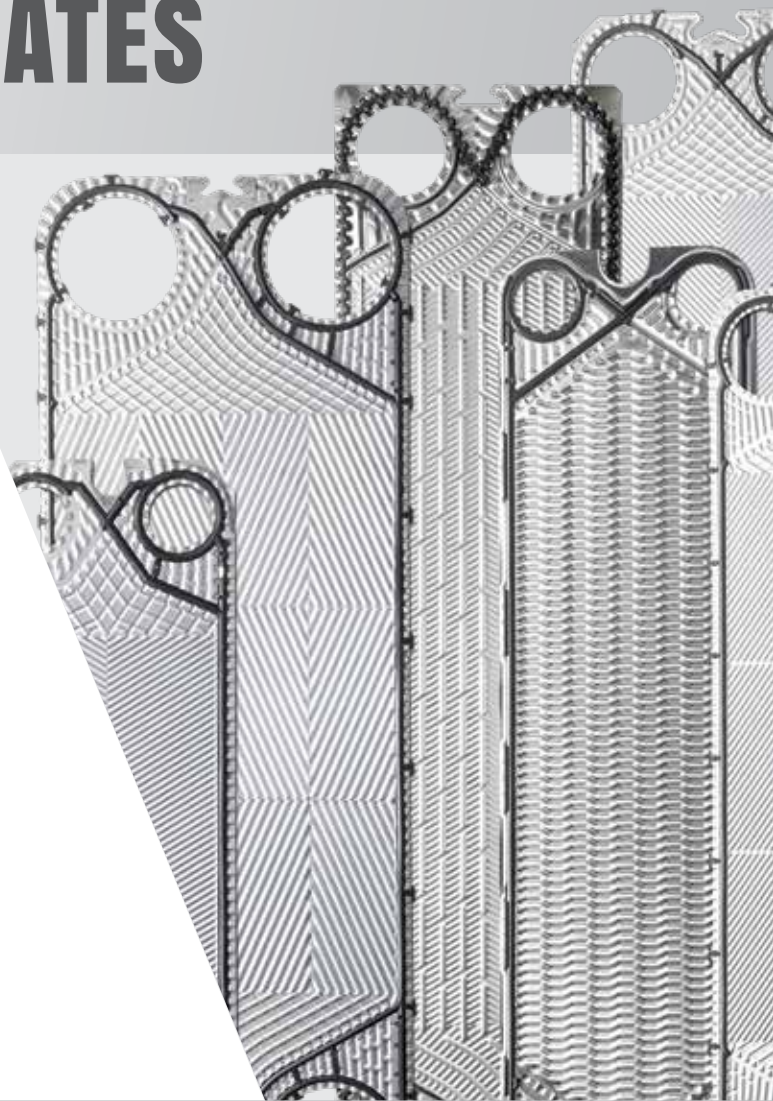
# REPLACEMENT PLATES

## EVERY PLATE, EVERY MODEL

### Direct Replacements for Any OEM

WCR heat exchanger plates are custom designed to be direct replacements for all OEM model plate heat exchangers, with high-alloy and chemically-resistant materials available. We reverse engineer each plate to exact specifications to maintain nameplate performance for any plate heat exchanger, providing the highest standard of quality. WCR's knowledge, expertise, and availability gives customers peace of mind knowing our parts will be exactly what you demand. The quality and precision of our parts is impeccable.

- High Alloy Stainless
- C-276
- C-2000
- NI200
- SM0254
- AL6XN
- Titanium Palladium
- Titanium grade 1



# BUILT ON

## RIGOROUS QUALITY CONTROL

Meticulous attention to detail, assuring that every heat exchanger replacement part is dependable and built to last.

## CHEMICALLY RESISTANT

Polymers and additives affect which chemicals a rubber material can withstand. WCR compounds rubber materials for optimum performance.



**200,000+**  
PLATES IN STOCK

**600,000+**  
GASKETS IN STOCK

**MOST SHIPPED**  
IN **1-2 DAYS**

# REPLACEMENT GASKETS

## MADE IN THE USA, SHIPPED ANYWHERE

### The Largest Spare Parts Inventory in America

Unlike our competitors who simply resell gaskets, WCR manufactures OEM-specified heat exchanger gaskets on site. By being the source, we can provide any gasket model/material combination that you need. Each of our durable replacement gaskets is subject to meticulous quality control, assuring that every part is dependable and built to last. In fact, we work closely with the world's leading suppliers of raw rubber materials to assure the highest quality from the very start.

- High Temp EPDM
- High Temp HNBR
- NEOPRENE®
- AFLAS®
- Viton™
- Teflon®



## INTEGRITY

### MANUFACTURING EXPERTISE

Made with the finest materials and manufactured, assembled, and shipped using quality as our compass.

### DURABILITY

While all gaskets have a limited lifetime, WCR manufactures ours to the highest standards to ensure durability.

# SERVICE & SUPPORT

Rapid, responsive, and always ready for the call

## FACTORY SERVICES WCR IN-HOUSE CAPABILITIES

WCR offers highly skilled repair and maintenance services on-site at our manufacturing and production facilities. Because of all of the resources and materials within our shop, we promise a quick and stress-free repair. We also offer a one year warranty on all parts, guaranteed to maintain maximum efficiency and effectiveness.



### HEAT EXCHANGER CLEANING

WCR Service created the cleansing processes that have been simulated by others.



### DYE PENETRANT TESTING

Early discovery of plate defects eliminates cross-contamination concerns, saving costly downtime in the future.



### FULL SERVICE REGASKETING

Our gaskets are applied only by trained technicians who have experience with all models of plate heat exchangers.



**BEFORE**



**AFTER**





# CHEMICAL INDUSTRY APPLICATIONS

## DEPENDABLE PRODUCTS. DIVERSE SOLUTIONS.

WCR provides a wide variety of heat exchanger solutions for companies that specialize in refining crude oil and chemicals.

### Petroleum

#### REFINERY

Brine cooling, crude oil / water interchanger, treated crude oil / untreated crude oil interchanger

#### MTBE

Product heating, cooling & interchanging, jacket water cooling, condensing

#### ALKYLOTION

Cooling & heating of corrosive fluids. Isobutene condenser and reactor interchanger

#### OIL & GAS

Sea water coolers, crude oil heat treatment

#### DEHYDRATION/DESOLVING

Crude oil interchanger, water/crude oil interchanger, water interchanger, crude oil cooling

#### DESULPHURIZATION

Lean/rich fluid interchanger & cooling, acid gas condenser

### Hydrocarbon Processing

#### METHANOL

Preheating, water cooling, liquid product cooling

#### PROPYLENE OXIDE

Sodium hydroxide cooling, reaction mixture cooling, heat recovery from reactor bottom liquid

#### ETHYLENE GLYCOL

Product cooling, reactor feed heater & interchanger

#### ETHYLENE OXIDE

Lean/rich cycle water interchanger, lean cycle water cooler

#### ETHYLENE-PROPYLENE

Water cooling & propylene condensers, cooling, naptha preheating

#### FORMALDEHYDE

Methanol preheating, formalin cooling, water cooling

### Polymer Plants

#### ACRYLIC FIBERS

Heating & cooling of solvents, reactor cooling

#### NYLON

Water cooling & heating, nylon salt cooling, condensers and interchangers

#### POLYESTER

Glycol cooling, solvent heating

#### POLYETHYLENE

Pellet water & cooling water systems

#### POLYOL

Water heating & cooling, reactor feed heating & cooling, polyol product cooling, polyol mix heating

#### POLYPROPYLENE

Circulating, pellet, refrigerated and feed watercooling, condensers and interchangers

#### POLYURETHANE

Heating & cooling of polyol and isocyanate

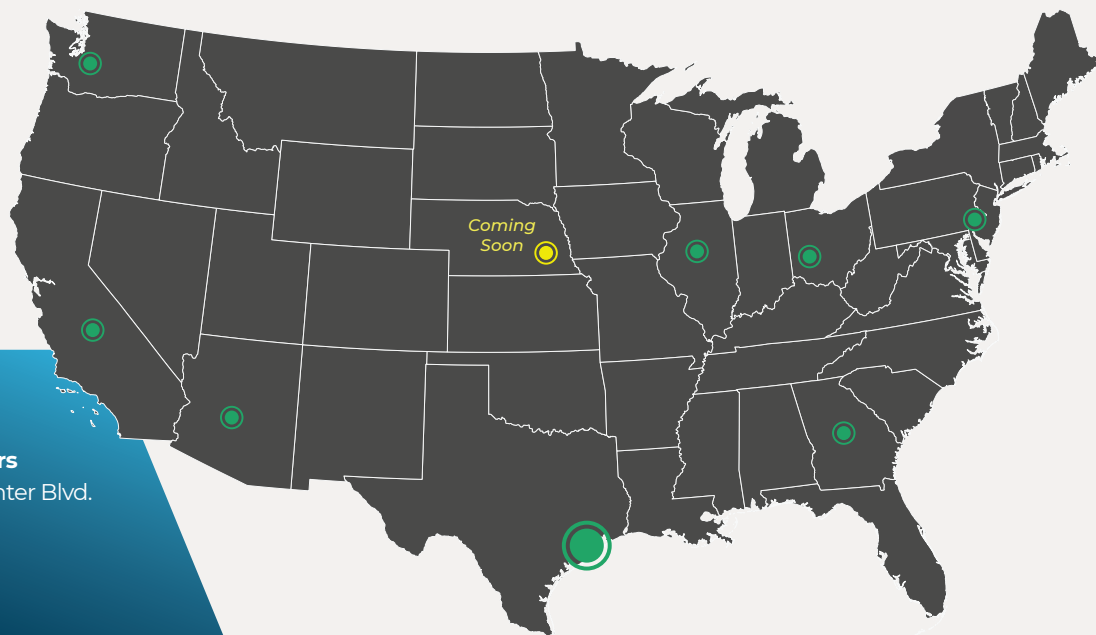
#### PVC

Reactor jacket water cooling

#### VISCOSE

Heating & cooling of NaOH, viscose and different acids, heating of spin bath solution

# FOR ALL YOUR HEAT EXCHANGER NEEDS



## Central Region World Headquarters

2377 Commerce Center Blvd.  
Suite B  
Fairborn, OH 45324  
P: 937.223.0703  
F: 937.223.2818

## Midcentral Region

Nebraska Service Center  
Coming Soon

## Midwest Region

1610 W. Altorfer Dr.  
Peoria, IL 61615  
P: 309.697.0389  
F: 309.697.0399

## Northeast Region

4080 Blanche Road  
Bensalem, PA 19020  
P: 215.447.8152  
F: 215.447.8162

## Northwest Region

3126 C ST - NE  
Auburn, WA. 98002  
P: 253.256.6703  
F: 559.266.3354

## South Central/Gulf Coast Region

1023 Wilson Road  
Clute, TX 77531  
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F: 979.265.3044

## Southeast Region

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Macon, GA 31216  
P: 478.738.0873  
F: 478.738.0874

## Southwest Region

5059 N. 54th Ave.  
Glendale, AZ 85301  
P: 602.753.0213  
F: 602.753.0214

## Western Region

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Fresno, CA 93725  
P: 559.266.8374  
F: 559.266.3354

## International Locations:

WCR SWEDEN AB  
WCR UK LTD.

WCR Deutschland GmbH  
WCR KOREA

WCR BENELUX B.V.  
WCR Québec - EASTERN CANADA



wcrhx.com

For OEM-quality replacement parts  
and expert service and support for  
the chemical industry, contact us  
today and let's grow together.

**1-800-421-4927**

