

INNOVATORS IN REFRIGERATION AND COOLING TECHNOLOGIES

## Packaged Process Cooling Systems



**The "Industrial Quality"  
Solution**

**TOROMONT**

**CIMCO**

# CIMCO Packaged Process Cooling Systems

CIMCO, a world class company, is proud to be recognized as the leader in the design, engineering, manufacture, installation and servicing of industrial refrigeration systems.

For over 90 years, CIMCO's highly skilled professional refrigeration designers have been providing reliable, cost effective solutions to our customers.

Questions on applications? Equipment selection? Plant performance? CFC, HCFC or alternative refrigerant issues? System retrofitting or upgrading? Plant evaluations? Energy savings or heat reclaim? We can help with sound advice and practical solutions, including CIMCO Packaged Refrigeration Systems.

A CIMCO Packaged Refrigeration System offers you the advantages of a proven engineered unit, built by skilled tradesmen in our National Board Certified manufacturing facility. In contrast to a field built-up system, site delays and adverse conditions can be totally eliminated, keeping your project on time and within budget. It is CIMCO's combination of refrigeration engineering expertise, time-tested balanced components and shop quality control that

makes it possible for you to enjoy the "CIMCO Advantage" at competitive prices.

The knowledge CIMCO has gained by installing packaged refrigeration systems around the world is unparalleled. So "Expect the best" by contacting your CIMCO refrigeration expert and putting our knowledge to work for you.



## The CIMCO Advantage

- The leader in refrigeration design and construction, with thousands of installations worldwide from the frigid Arctic to the deserts of Saudi Arabia
- In-house engineering and manufacture of all major packaged components, including heat exchangers, pressure vessels and control systems
- Service technicians and expert troubleshooters trained in all aspects of refrigeration operations
- Warranty backed by CIMCO and Toromont Industries, North America's largest family of refrigeration engineers and contractors

## Features

### Design and Installation

- Designed by professionals in the field of process and industrial refrigeration
- Your special requirements can be incorporated into the design
- The latest technological advances provide the greatest efficiency, simplicity of operation, reliability and lowest operating cost
- Installation and start-up is by our own team of factory experts

### Rugged Construction

- Full welded structural steel bases built to industrial standards
- Chillers and low temperature mains are insulated with our unique "hermetically sealed" foamed-in-place urethane and hard fiberglass jacket insulation system

### Quality Components

- Only industrial quality products from leading suppliers such as York, Evapco, Frick, Mycom, Carlyle, Vilter, Bitzer, Copeland, Alfa Laval and CIMCO are used

### Code Compliance

- All pressure vessels and heat exchangers are built in our National Board Certified plant
- Refrigerant piping and welding is in accordance with all applicable ASME, CSA and local codes



# Industrial Process Cooling

## SPECIALIZED, INNOVATIVE SOLUTIONS

CIMCO has established itself as a leading choice for chilled water temperature control technology in the plastics, printing, textile, automotive, pharmaceutical, biomedical and general process industries. We provide water chiller, cooling tower and water re-circulation packaged systems for individual processes, and also for fully centralized plant operations.

Our manufacturing capabilities include large cooling plants assembled onto rugged platforms to include all pumps, filters, control valves, sensors and main electrical panels. Pre-designed to exacting standards by a staff of experienced engineers, and built in a quality-assured environment at our own facilities, each product receives a genuine CIMCO stamp of approval.

Water-cooled and air-cooled chillers, ranging in size from 1 ton to 1,000 tons, are available for all the current refrigerants. Accessories range from pre-mounted pumps and filters to custom soft-start and variable speed drives.

When plant space is at a premium, our outdoor cooling plants come into demand. These high-performance systems operate with maximum efficiency, meeting the rigorous demands of both summer and winter.

Our strength is the skill of our highly experienced engineers to design innovative systems for your unique refrigeration needs.

### A few of our **Industrial Cooling** clients include:

- **General Motors • Alcan Aluminum**
- **Ford • Polysar • Kodak • Magna**
- **Dow Chemicals • Transcontinental**
- **Quebecor • Husky • Ultramar**

## Typical CIMCO TwinPak Refrigeration System

- 210 TR capacity
- 3 x 100 HP reciprocating compressors
- 3 x 30 HP process pump (1 – 100% standby)
- heat reclaim heat exchanger



## Selection Guide

### Compressors

- Open drive reciprocating
- Rotary screw and mini-screw
- Rotary vane
- Hermetic compressors
- **Drive Systems**
- Electric drive with across the line part-wind or auto-transformer starters
- Variable speed drives
- Heavy-duty industrial natural gas or propane engine drives

### Control Systems

- Relay logic control
- Liquid temperature control system
- Programmable logic controllers: Texas Instruments, Allen Bradley, Modicon, etc.
- Dedicated microprocessors and computerize interfaces to all leading building control systems

### Refrigerants/Hybrid Systems

- Ammonia, R22 and new replacement refrigerants for CFCs/HCFCs
- Water, glycol and other proprietary fluids

### Water/Glycol Pumps

- Single or multiple pumps for energy conservation and multi-applications
- Heating recovery pump
- Jacket coolant pump

### Heat Exchangers

- Shell and tube chillers and condensers
- Welded plate and frame chillers and condensers in stainless steel or titanium, to minimize refrigerant charge and package size
- Heat reclaim for heating and potable water
- Compressor jacket water exchangers

### Typical CIMCO UniPak Refrigeration Systems

- open drive compressor
- close coupled pump
- factory installed starter and control panel pre-wired to motors
- available air or water cooled

# CIMCO

## The Cold Specialists

### Design & Engineering

CIMCO has built its reputation by having the best technical sales, manufacturing and refrigeration engineers. From coast to coast, our team of application specialists can draw on 90 years of experience to design the refrigeration and process

cooling plants that will meet your specific needs. From initial concept, through site supervision, to project commissioning, CIMCO engineers are available to ensure the success of your project.

### Manufacturing

We have established our reputation by using the latest manufacturing techniques to produce the world's leading refrigeration equipment. In fact, many of the products that become part of our refrigeration systems are manufactured by CIMCO,

such as: shell and tube heat exchangers; pressure vessels; dehumidifiers; water tanks and pumping sets; microprocessor and relay logic control systems and complete packaged refrigeration and process cooling systems.

### Components

At CIMCO, we ensure that every component used in our systems is chosen based on the knowledge gained from past experience. Each product is carefully evaluated, tested and proven before it becomes part of a CIMCO system. From the

compressor, through to the simplest control, each unit is carefully assessed and matched with components of proven dependable performance to keep our clients and their products cool.

### Installation & Service

A key aspect of our success has been our experience in preparation, installation, start-up and balancing of our systems. CIMCO offers preventive maintenance and service inspection programs with reliable,

professional follow-up service. When it comes to keeping things cold or on ice, only CIMCO does it better than Mother Nature.

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**CIMCO  
REFRIGERATION**

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*Cimco-  
Expect the  
best*