

# APT INDUSTRIAL CHILLER

INDUSTRIAL COOLING  
REFERENCE DOCUMENT

Water cooled  
process chillers

Medium and  
large capacity  
cooling

Continuous  
industrial  
operation

Standard and  
custom  
configurations

Engineering  
selection  
support

Factory project  
review support

## Water Cooled Industrial Chiller Catalog

Process Cooling Systems for Medium  
and Large Capacity Industrial  
Applications

[www.applied-chiller.com](http://www.applied-chiller.com)



# APT Water Cooled Chiller Overview

Factory-oriented process cooling systems for medium and large heat loads, stable condenser water conditions, and project-reviewed industrial applications.

APT Industrial Chiller provides water cooled industrial chillers for process cooling, production line cooling, factory equipment cooling, centralized cooling systems, and custom industrial cooling applications. Water cooled chillers are commonly selected when the project requires larger cooling capacity, continuous operation, or stable condenser water conditions.

- Factory direct industrial chiller manufacturer
- Water cooled and custom process cooling systems
- Suitable for medium and large cooling loads
- Engineering review before model recommendation
- Support for standard and custom industrial applications

**Selection support**

Send your cooling requirements and condenser water conditions for model selection support.



**COOLING  
DIRECTION**

Water cooled  
condenser  
systems

**PROJECT PATH**

Standard and  
custom review

**TYPICAL USE**

Continuous  
process  
cooling

**INSTALLATION**

Condenser  
water  
supported  
sites

**SUPPORT**

Selection and  
quotation  
preparation

# Water Cooled Chiller Product Range

A practical overview of the main water cooled product directions used for industrial process cooling discussions and quotation preparation.

| PRODUCT DIRECTION                         | TYPICAL CAPACITY               | TYPICAL APPLICATIONS                                                                                                   | BEST FOR                                                                |
|-------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Standard Water Cooled Industrial Chillers | Project-based medium capacity  | Process water cooling, factory equipment cooling, injection molding, chemical process cooling, production line cooling | Factories with condenser water or cooling tower support                 |
| Large Capacity Water Cooled Chillers      | Large capacity process cooling | Centralized cooling systems, high-duty production lines, large tanks, large industrial equipment                       | Higher heat load applications and continuous operation                  |
| Stainless Steel Water Cooled Chillers     | Project-based                  | Food processing, clean water systems, corrosive environments, special process cooling                                  | Projects requiring stainless steel tank, piping, frame, or wetted parts |
| Custom Water Cooled Chiller Systems       | Project-based                  | Special voltage, special temperature, custom pump, OEM equipment, multiple cooling loops                               | Non-standard process conditions and custom engineering requirements     |
| Parts & Heat Exchanger Support            | Replacement or project-based   | Condenser, evaporator, pump, heat exchanger, spare parts, service support                                              | Maintenance, repair, replacement, and system support                    |

### How to read the range

Begin with cooling duty, condenser water condition, and application type before narrowing to a standard, stainless steel, large capacity, or custom direction.

### Recommended next step

If the exact model is not confirmed yet, send the heat load, process temperature, condenser water information, and voltage so APT can recommend a suitable starting configuration.

## Main Water Cooled Chiller Categories

Four common product directions used for industrial cooling projects with condenser water support and process-based engineering review.

### Standard Water Cooled Industrial Chillers

Standard water cooled chillers are used for industrial process cooling systems where condenser water is available and stable cooling performance is required. They are suitable for production equipment, process water loops, injection molding, chemical cooling, and general factory cooling projects.

### Large Capacity Water Cooled Chillers

Large capacity water cooled chillers are used for higher heat load applications, centralized cooling systems, continuous production lines, large tanks, and factory process cooling systems.

### Stainless Steel Water Cooled Chillers

Stainless steel water cooled chillers can be reviewed for food processing, clean process cooling, corrosive environments, and projects requiring stainless steel tank, piping, frame, or wetted parts.

### Custom Water Cooled Chiller Systems

Custom water cooled chillers are designed for special process temperature, condenser water conditions, pump flow and pressure, voltage, material, installation space, or OEM integration requirements.



# Typical Applications for Water Cooled Industrial Chillers

Water cooled chillers are commonly reviewed for centralized utilities, continuous production duty, clean process cooling, and medium to large equipment heat loads.

|                                                                                                                                                                                               |                                                                                                                                                |                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Centralized Process Cooling</b></p> <p>Water cooled chillers can support factory-level cooling systems where multiple machines or process loops require stable temperature control.</p> | <p><b>Injection Molding Cooling</b></p> <p>Cooling for molds, hydraulic systems, production water loops, and continuous molding processes.</p> | <p><b>Chemical Process Cooling</b></p> <p>Cooling for tanks, reactors, chemical process loops, and process temperature control.</p>                                            |
| <p><b>Food Processing Cooling</b></p> <p>Stainless steel or customized water cooled chillers can be reviewed for food-related process cooling and clean water systems.</p>                    | <p><b>Large Production Line Cooling</b></p> <p>Suitable for larger heat loads and continuous operation in industrial production systems.</p>   | <p><b>Industrial Equipment Cooling</b></p> <p>Cooling support for large equipment, process water circuits, factory utility cooling, and high-duty industrial applications.</p> |

# When to Choose a Water Cooled Chiller

Water cooled chillers are often selected when the factory has cooling tower water or another stable condenser water source and the project needs larger capacity or continuous operation.

| SELECTION FACTOR              | WATER COOLED CHILLER                                       | AIR COOLED CHILLER                                                   |
|-------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|
| Condenser System              | Uses water cooled condenser                                | Uses air cooled condenser                                            |
| Cooling Tower                 | Usually required                                           | Not required                                                         |
| Installation                  | Requires condenser water system                            | Simpler installation                                                 |
| Ambient Temperature Influence | Less directly affected by workshop air temperature         | More affected by ambient air and ventilation                         |
| Typical Use                   | Large capacity, centralized, continuous process cooling    | Machine-side cooling and flexible independent cooling                |
| Maintenance                   | Cooling tower and condenser water loop require maintenance | No cooling tower maintenance, but condenser ventilation is important |

### Water cooled selection note

Water cooled review should include condenser water conditions, water quality, available space, and plant maintenance capability before final model recommendation.

### Air cooled alternative

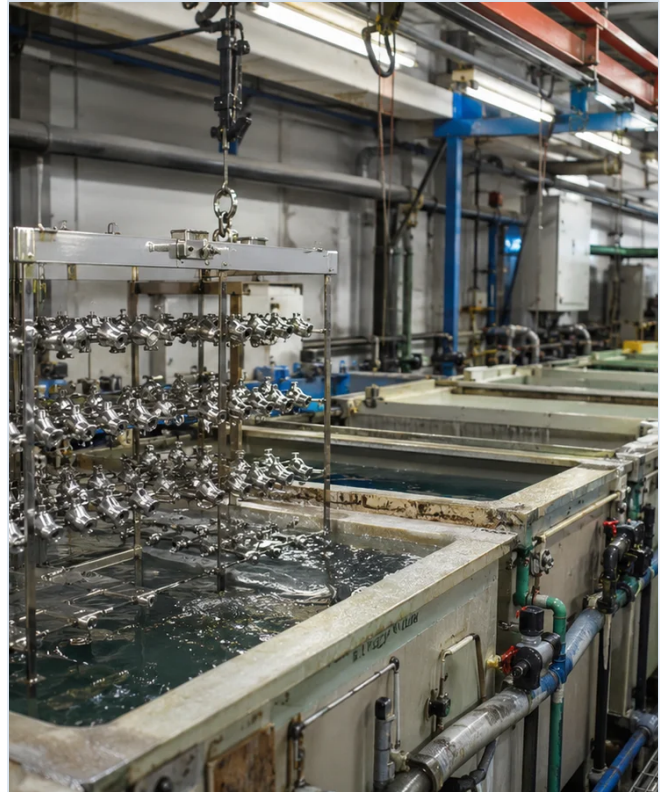
If condenser water is not available or the site prefers simpler installation, APT can review whether an air cooled design is more suitable.

# Condenser Water Conditions to Confirm

Water cooled chiller selection should review condenser water conditions carefully because temperature, flow, quality, and cooling tower performance all affect final configuration.

## Project checklist

- Cooling tower or condenser water system availability
- Condenser water inlet temperature
- Condenser water outlet temperature if available
- Condenser water flow rate
- Water quality and scaling condition
- Cooling tower capacity
- Installation space
- Indoor or outdoor installation condition
- Maintenance access
- Voltage and frequency
- Process water pump flow and pressure
- Material requirements such as stainless steel tank or piping



## Review note

If condenser water conditions are not confirmed, APT can review the project information and discuss whether water cooled or air cooled design is more suitable.

# Custom Water Cooled Chiller Options

Non-standard industrial cooling projects may require process-based review of condenser water conditions, installation environment, equipment integration, and special material or electrical requirements.

## Engineering confirmation

Final configuration should be confirmed according to cooling capacity, target temperature, condenser water condition, process fluid, pump requirements, voltage, and installation conditions.

## Stainless steel tank and piping

Used when material compatibility, clean water, or corrosion review is part of the project path.

## Special pump flow and pressure

Matched to real process-side flow demand, loop resistance, and equipment cooling duty.

## Special voltage and frequency

Reviewed according to destination country, plant standard, and electrical integration requirements.

## Multiple cooling loops

Useful for OEM lines, combined equipment cooling, or projects requiring more than one process circuit.

## Special temperature range

Reviewed when process setpoint, fluid condition, or temperature stability differs from standard direction.

## Compact or skid-mounted structure

Supports tighter plant layouts, packaged installations, and easier project-level integration.

## Process fluid compatibility review

Includes water quality, clean water, glycol, chemical process fluid, and wetted-side material review.

## Special control and interface needs

Supports PLC communication, alarm signals, and custom electrical control logic if required.

# Information Needed for Chiller Selection

A practical checklist for early supplier review, model direction discussion, and quotation preparation for water cooled industrial chiller projects.

## Data to prepare

- Cooling application or equipment type
- Required cooling capacity or heat load
- Target process water or fluid temperature
- Inlet and outlet temperature if available
- Process fluid type
- Process pump flow and pressure requirements
- Condenser water inlet temperature
- Condenser water flow condition
- Voltage and frequency
- Installation environment
- Operating hours or duty cycle
- Water quality condition if relevant
- Special requirements such as stainless steel, custom pump, multiple cooling loops, special voltage, or custom structure

## Support note

If the exact cooling capacity or condenser water condition is not available, APT can help review your process conditions and recommend a suitable starting configuration.

### COOLING SIDE

Application, machine type, heat source

### TEMPERATURE

Target fluid temperature and stability

### PROCESS FLUID

Water, clean water, glycol, or special fluid

### PUMP

Flow requirement and pump head

### CONDENSER SIDE

Water inlet temperature and flow

### ELECTRICAL

Voltage, frequency, and control needs

### INSTALLATION

Indoor or outdoor, available space

### SPECIAL REVIEW

Stainless steel, custom loops, structure

# APT INDUSTRIAL CHILLER

INDUSTRIAL COOLING REFERENCE DOCUMENT



## Need a Water Cooled Chiller for Your Process?

Send your application, cooling capacity, target temperature, process fluid, condenser water condition, voltage, installation environment, and special requirements. APT can recommend a suitable water cooled industrial chiller configuration for your project.

### WEBSITE

<https://applied-chiller.com/>

### SUBMIT CHILLER REQUIREMENTS

<https://applied-chiller.com/request-a-quote/>

### CONTACT

<https://applied-chiller.com/contact-us/>

INDUSTRIAL PROCESS COOLING SYSTEMS FOR REAL  
FACTORY APPLICATIONS