

APT INDUSTRIAL CHILLER

INDUSTRIAL COOLING REFERENCE DOCUMENT

Industrial
Process Cooling

Air Cooled &
Water Cooled
Chillers

Custom
Engineering
Support

Global B2B
Project Supply

APT Industrial Chiller Product Catalog Overview

Air Cooled Chillers · Water Cooled Chillers
· Custom Process Cooling Systems

applied-chiller.com



Factory Direct Industrial Chiller Manufacturer

Practical process cooling equipment for manufacturers, system builders, and B2B engineering projects.

APT Industrial Chiller provides industrial process cooling equipment for manufacturers, equipment builders, and engineering projects that require stable temperature control. Our product range includes air cooled industrial chillers, water cooled industrial chillers, compact machine-side chillers, and custom process cooling systems for special site conditions.

KEY CAPABILITIES

- Industrial chiller design and manufacturing
- Air cooled and water cooled cooling systems
- Compact chillers for machine-side installation
- Custom chillers for special process requirements
- Engineering selection support before quotation
- Factory testing before delivery

POSITIONING

APT focuses on practical industrial cooling solutions for real production environments, where cooling capacity, temperature stability, pump configuration, installation conditions, and long-term operation all need to be considered together.



FACTORY DIRECT CHILLER PRODUCTION

POSITION

Factory
Direct
Manufacturer

SUPPORT

Engineering
Selection
Before
Quotation

ABILITY

Custom
Process
Cooling
Review

Industrial Chiller Product Range

A structured overview of the main APT product directions, typical capacity levels, and engineering selection notes.

PRODUCT TYPE	TYPICAL CAPACITY RANGE	COOLING METHOD	TYPICAL APPLICATIONS	SELECTION NOTES
Air Cooled Industrial Chillers	1 HP to 50+ HP	Air cooled condenser	Machine cooling, process water cooling, laser, CNC, thermal spray, injection molding, electroplating, general factory use	Suitable when cooling tower water is not available or flexible installation is required.
Water Cooled Industrial Chillers	Medium to large capacity	Water cooled condenser	Continuous production lines, high-duty process cooling, centralized cooling systems	Suitable for factories with cooling tower or stable condenser water supply.
Compact Industrial Chillers	1 HP to 5 HP	Mainly air cooled	CNC spindle cooling, laser equipment, laboratory systems, cold plunge baths, compact equipment cooling	Suitable for limited space and point-of-use cooling.
Custom Industrial Chillers	Project-based	Air cooled, water cooled, or special design	High ambient areas, explosion-proof areas, stainless steel systems, mobile systems, solar-assisted cooling, OEM equipment	Suitable for non-standard cooling requirements.
Application Cooling Systems	Project-based	Selected by application	Thermal spray, laser, electroplating, injection molding, die casting, food processing, chemical process cooling	Selection depends on heat load, temperature range, process fluid, and site conditions.

How to use this summary

Begin with the cooling method and capacity direction, then confirm application details, target temperature, installation conditions, and pump requirements before quotation.

Recommended next step

When the exact model is not yet confirmed, send the application type, heat load, target temperature, and voltage so APT can recommend a suitable product direction.

Air Cooled Industrial Chillers

Independent process cooling solutions for applications where a cooling tower is not preferred or not available.

APT air cooled industrial chillers are designed for process cooling applications where a cooling tower is not available or where independent machine-side cooling is preferred. These systems are widely used for industrial equipment cooling, process water cooling, and production line temperature control.

TYPICAL CATEGORIES

- 1-5 HP compact air cooled chillers
- 5-20 HP standard industrial air cooled chillers
- 20-50 HP medium capacity air cooled chillers
- 50+ HP large air cooled process chillers
- High ambient air cooled chillers

SELECTION NOTES

Air cooled chillers are often selected when installation simplicity, independent operation, and reduced site water requirements are important. Ambient temperature, ventilation space, cooling capacity, and pump requirements should be confirmed before quotation.

Typical Applications

CNC spindle cooling, laser equipment cooling, thermal spray system cooling, injection molding cooling, electroplating bath cooling, and general process water cooling.



AIR COOLED CHILLER PRODUCT DIRECTION

Related Page

<https://applied-chiller.com/air-cooled-chillers/>

Water Cooled Industrial Chillers

Higher-duty process cooling solutions for factories with condenser water or cooling tower support.

APT water cooled industrial chillers are used for larger cooling loads, continuous-duty operation, and factory systems where condenser water or cooling tower water is available. Compared with air cooled systems, water cooled chillers can be suitable for stable, high-duty process cooling conditions.

TYPICAL APPLICATIONS

- Centralized factory process cooling
- High-load industrial equipment
- Continuous production lines
- Water-cooled process systems
- Food processing cooling
- Chemical process cooling
- Large tank or bath temperature control



WATER COOLED CHILLER DIRECTION

KEY FACTOR

Condenser Water Temperature

KEY FACTOR

Process Inlet and Outlet Temperature

KEY FACTOR

Pump Flow and Pressure

KEY FACTOR

Heat Exchanger Material

KEY FACTOR

Voltage and Control Requirements

RELATED PAGE

applied-chiller.com/water-cooled-chillers/

Custom Industrial Chiller Solutions

Project-reviewed cooling systems for special site conditions, materials, safety requirements, and OEM integration needs.

Many industrial cooling projects require more than a standard chiller model. APT provides custom industrial chiller solutions for special site conditions, special materials, special safety requirements, and OEM equipment integration.

BEST FOR

- Hazardous or dusty areas
- High ambient temperature workshops
- Corrosive or food-related environments
- Limited installation space
- OEM equipment integration
- Remote or mobile cooling systems
- Special fluid or temperature requirements



CUSTOM PROCESS COOLING REVIEW

High Ambient Air Cooled Chillers

For hot climate regions, outdoor installation, and workshops with elevated ambient temperature.

Explosion-Proof Industrial Chillers

For hazardous or dusty process areas requiring project-reviewed electrical protection direction.

Stainless Steel Water Cooled Chillers

For corrosive, clean-water, electroplating, and food-related process conditions.

Mobile Industrial Chillers

For temporary cooling, equipment testing, and flexible factory layout support.

Solar-Assisted Chillers

For remote sites or projects where hybrid power support is part of the review path.

Vertical and Special Layout Chillers

For OEM integration, special voltage, custom pump arrangement, and site-specific structure needs.

Engineering Review Items

Cooling capacity, ambient temperature, process fluid, target temperature, pump flow and pressure, electrical supply, installation space, and safety or material requirements should be reviewed together before the final custom configuration is confirmed.

Application Cooling Solutions

Industrial chiller selection depends on the heat source, temperature stability requirement, fluid condition, pump pressure, and installation environment.

Thermal Spray Cooling

Cooling for plasma spray, HVOF, arc spray, power supply, torch, and auxiliary equipment.

Laser Cooling

Cooling for laser sources, cutting systems, welding systems, and precision laser equipment.

Injection Molding Cooling

Process cooling for molds, hydraulic systems, and production temperature control.

Electroplating Cooling

Cooling for plating tanks, chemical baths, rectifiers, and process loops.

CNC Cooling

Compact chillers for spindle cooling and machine-side temperature control.

Food Processing Cooling

Stainless steel or water cooled systems for food-related process cooling.

Chemical Process Cooling

Cooling for tanks, reactors, and chemical process temperature control.

Cold Plunge and Laboratory Cooling

Compact chillers for small temperature-controlled water systems.



APPLICATION DRIVEN COOLING REVIEW

RELATED PAGES

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

Case Studies: <https://applied-chiller.com/case-studies/>

SELECTION LOGIC

The correct configuration is chosen by matching heat load, target temperature, process fluid, operating hours, pump pressure, water quality, and site conditions to the application.

HOW TO REQUEST THE RIGHT INDUSTRIAL CHILLER

Information to Provide

- Cooling application or equipment type
- Required cooling capacity, if known
- Target water or fluid temperature
- Inlet and outlet temperature, if available
- Process fluid type
- Pump flow and pressure requirements
- Ambient temperature
- Voltage and frequency
- Installation environment
- Special requirements such as stainless steel, explosion-proof design, mobility, or high ambient operation

Quotation Support

Send your cooling application, target temperature, fluid, voltage, and installation conditions. APT can recommend a suitable air cooled, water cooled, compact, or custom industrial chiller configuration for your project.

WEBSITE

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

REQUEST A QUOTE

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

CONTACT

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

FOOTER LINE

**APT Industrial Chiller - Factory Direct
Process Cooling Solutions**