

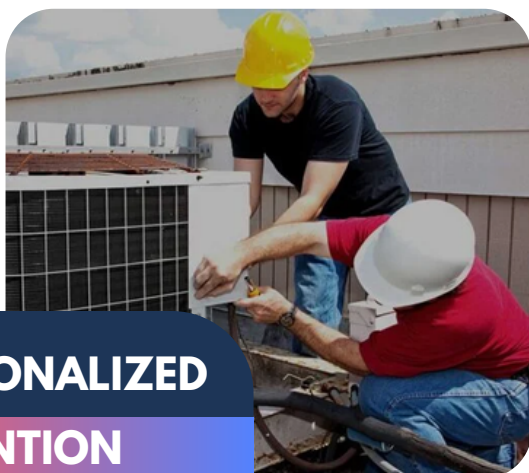


If you've ever experienced overheating in machinery or electrical cabinets, you know how costly it can be not to have the proper cooling system. Beyond preventing failures, properly applied cooling improves precision, extends equipment lifespan, and ensures operational continuity.

**This quick guide will help you make the right decisions without mistakes.**

## ¿Why is industrial cooling essential?

In high-demand industrial applications like CNC machining, electro-erosion, or automation, heat generated by spindles, motors, or friction components directly impacts process stability.



Without an adequate system, you might face:

- Thermal expansion of mechanical components.
- Loss of dimensional precision.
- Damage to electronic boards and sensors.
- Unscheduled downtime or premature failures.

A correct cooling system ensures stable thermal conditions, prevents production errors, and reduces premature wear.

## Types of cooling systems: ¿Which one is right for you?

Dimplex Thermal Solutions offers robust and versatile solutions for various industrial needs:

### A. Closed-Loop chillers

They cool a fluid (water, glycol, or oil) that circulates into the equipment.

- J Series: Compact for specific applications.
  - W Series: Configurable for higher capacity.
- Ideal when consistent temperature control is required for spindles, servomotors or laser systems.



### B. Immersion Chillers

They are submerged directly in the client's tank.

- No external pump required.
- Efficient for cooling oils or emulsions.

Useful when space is limited, and simplicity is key.

### C. Modular Chillers

Designed to grow with your plant.

- Each module includes its pump, tank and control.
- Can be integrated into centralized systems.

Perfect for installations requiring scalability.



### D. Oil cooling units

They maintain stable temperatures for hydraulic or cutting oils.

- Include filtration and recirculation.
- Protect hydraulic systems from chronic overheating.

## Key factors to choose without room for error.

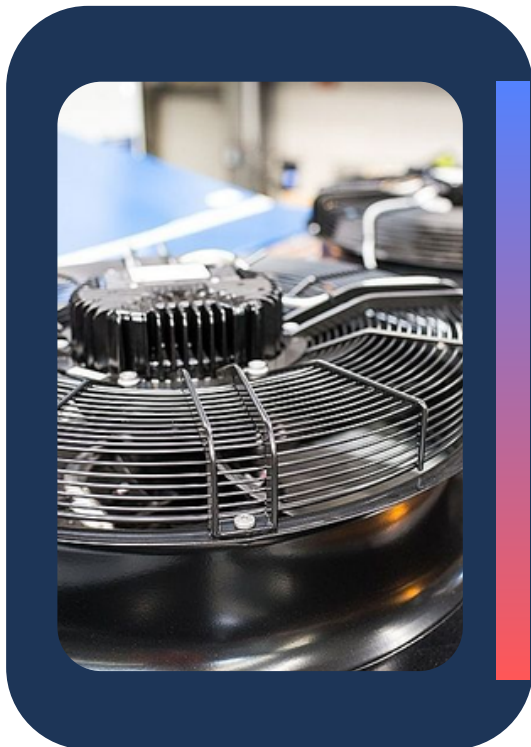
Before deciding, be clear on these variables:

- Thermal load (kW or BTU/h):

How much heat does your equipment generate? Without this data, the system might be either insufficient or oversized.

- Temperature and precision:

Does your process require fine control ( $\pm 1^{\circ}\text{C}$ )? If so, you need a high-precision chiller.



- Work conditions: Heat, dust, humidity, or vapors can affect performance. Choose models with filters or protections if necessary.
- Available space: There are vertical and compact models for installations with limited space.
- Installation type:
  - **Individual:** One chiller per machine.
  - **Centralized:** One system for multiple machines, this depends on your plant's size and resources.



# ¿Why trust Dimplex thermal solutions?

Dimplex is synonymous with reliable thermal control, their technology offers:

- Precision temperature control.
- Silent and efficient models.
- Simple integration into CNC equipment, electrical cabinets or production lines.
- Long lifespan with low maintenance.

At Grupo Gaden, we help you select and size the ideal system for your application. It's not just about cooling; it's about doing it right from the start.



## Conclusion:

An efficient cooling system is like good insurance: you notice it when you don't have it. Choosing correctly from the beginning can save you defective parts, costly downtime, and accelerated wear. Got questions?

Contact us. At Grupo Gaden, we help you find the exact thermal solution for your plant.



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