

# High-Precision Chiller

Product catalog





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For those seeking a  
**High-Performance Chiller**  
that stands out from the competition.

### **MIRAPRO chiller active in the semiconductor industry**

Our chiller are able to control temperature widely from very low temperature (-70°C) to very high temperature (+145°C) in order to satisfy needs from market and customers. In addition, we have a high spec chiller, that has a function of switching high/low temperature, in our lineup. Furthermore, built-in type for semiconductor manufacturing equipment and one of the smallest compact chiller has approximately 1000 of operational experience in US semiconductor market, leading to earn a good reputation.





# Great Solution

## ▶ Wide Range

A wide range of temperature control is possible from extremely low temperatures (-70°C) to extremely high temperatures (+145°C) to meet the needs of the market and customers.

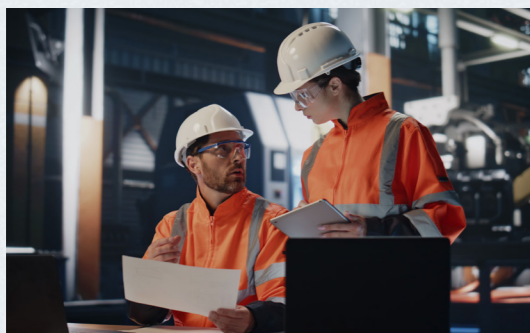
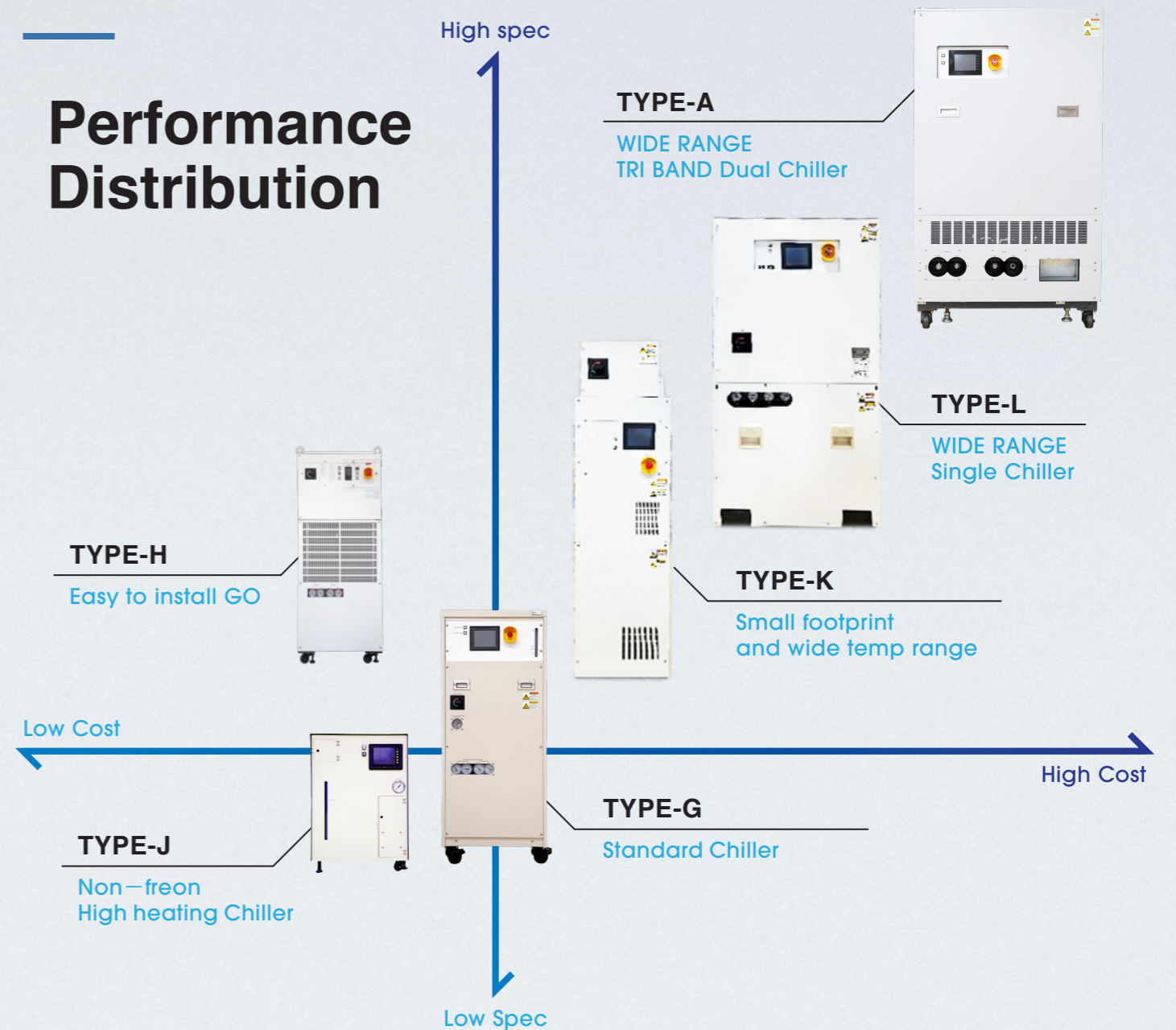
## ▶ Easy to Install

This is an air-condensing chiller that does not require cooling water, and is an easy-to-install cryogenic chiller with a power supply of AC200V/30A (TYPE-H)

## ▶ Small Footprint

In addition, our compact chiller, which is the smallest built-in type for semiconductor manufacturing equipment, has been used in the U.S. semiconductor market with approximately 1,000 units and has been highly rated.

# Performance Distribution



# Excellent Maintenance

We have many overseas bases and engineering bases in Asia, Europe, America, and other countries, and provide comprehensive after-sales services.

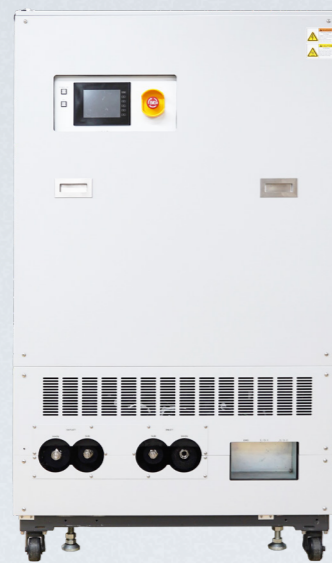
# Chiller Line up

## Contact

✉ [info@mirapro.co.jp](mailto:info@mirapro.co.jp)



Web



TYPE-A



TYPE-H



TYPE-K



TYPE-L



TYPE-G



TYPE-J

|                           |                       |                     |   |                       |                       |                            |
|---------------------------|-----------------------|---------------------|---|-----------------------|-----------------------|----------------------------|
| Temperature control range | -70°C~110°C / ±1.0°C  | -70°C~15°C / ±0.5°C | -30°C~80°C / ±0.5°C                           | -70°C ~ 80°C / ±0.5°C | -50°C~40°C / ± 0.5°C  | PCW temp+5°C~90°C / ±1.0°C |
| Cooling Capacity          | 8kW @ -63°C           | 400W @ -70°C        | 5kW @ -30°C<br>7kW @ -20°C<br>9kW @ 31°C~80°C | 2kW @ -50°C           | 2kW @-50°C            | 3kW @ PCW temp+5°C         |
| Heating capacity (Heater) | 8kW                   | -                   | 4kW   | 4kW                   | 1kW                   | 16kW                       |
| Flow rate/ Pressure       | 35L/min @ 0.75MPa     | 9L/min @ 0.6MPa     | 25L/min @ 0.4MPa                              | 20L/min @ 0.7MPa      | 25L/min @ 0.2MPa      | 55L/min @ 0.3MPa           |
| Max Energy Consumption    | 40kW                  | 3.2kW @-70°C stable | 12kW  | 15kW                  | 7kW                   | 3.5kW                      |
| Tank Capacity             | 21L Use7~38L          | 7.2L Use4.5L        | 30L Use15L                                    | 30L Use10L            | 26L Use 7.0L          | 35L Use18L                 |
| Size                      | W1030 x D1530 x H1765 | W580 x D800 x H1180 | W500 x D870 x H1850                           | W900 x D1000 x H1700  | W584 x D733.5 x H1401 | W520 x D915 x H750         |
| Fluid used                | Novec7500             | Novec7200           | NybrineG1                                     | Novec7500             | FC-770                | DI Water                   |