



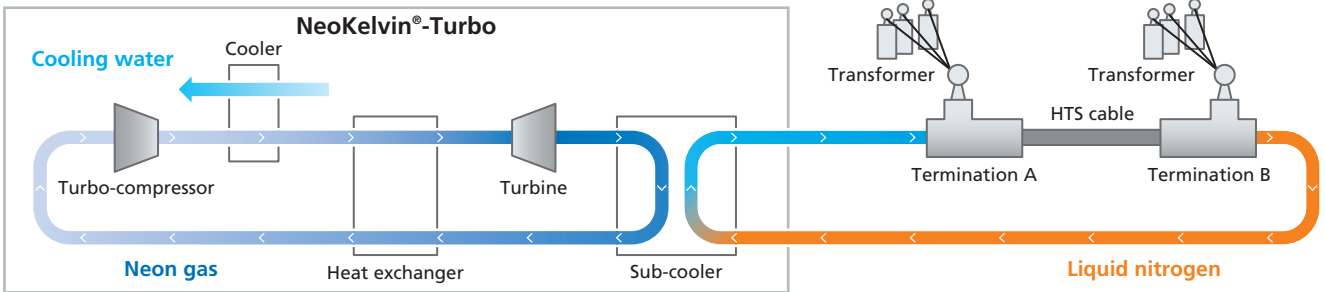
NeoKelvin®-Turbo

Turbo Brayton Refrigerator Utilizing Neon Gas

Advantages

Less maintenance / Higher efficiency / Excellent usability

System Flow



NeoKelvin®-Turbo 10kW

For commercial scale of HTS application

| | |
|---------------------|-----------------------|
| Cooling Capacity | 10 kW |
| Cooling Temperature | 70 K |
| Power Supply | φ3, AC 400 or 380V |
| Input Power | 170 kW |
| Cooling Water | 750 L/min |
| Size | W:7.0 H:3.0 D:4.0 (m) |



NeoKelvin®-Turbo 2kW

For demonstration scale of HTS application

| | |
|---------------------|-----------------------|
| Cooling Capacity | 2 kW |
| Cooling Temperature | 70 K |
| Power Supply | φ3, AC 400 or 380V |
| Input Power | 55 kW |
| Cooling Water | 250 L/min |
| Size | W:3.8 H:2.7 D:2.4 (m) |



NeoKelvin® -Turbo User List

| | | | | |
|------|---|---------------------------|-------------------------|--------|
| 2013 | LS Cable & System Korea Electric Power Corporation | HTS Power Cable | 2 kW | 1 set |
| 2014 | Ishikari Project | HTS Power Cable | 2 kW | 3 sets |
| 2015 | LS Cable & System Korea Electric Power Corporation | HTS Power Cable | 10 kW | 1 set |
| 2015 | Research institute in Japan | HTS Power Cable | 2 kW | 1 set |
| 2016 | Electric cable company in Japan | HTS Power Cable | 2 kW | 1 set |
| 2017 | Korea Electric Power Corporation | HTS Power Cable | 10 kW (7.5 kW spec.) | 1 set |
| 2018 | SuperOx (Russia) | HTS Fault Current Limiter | 2 kW | 3 sets |

Taiyo Nippon Sanso Corporation (TNSC)

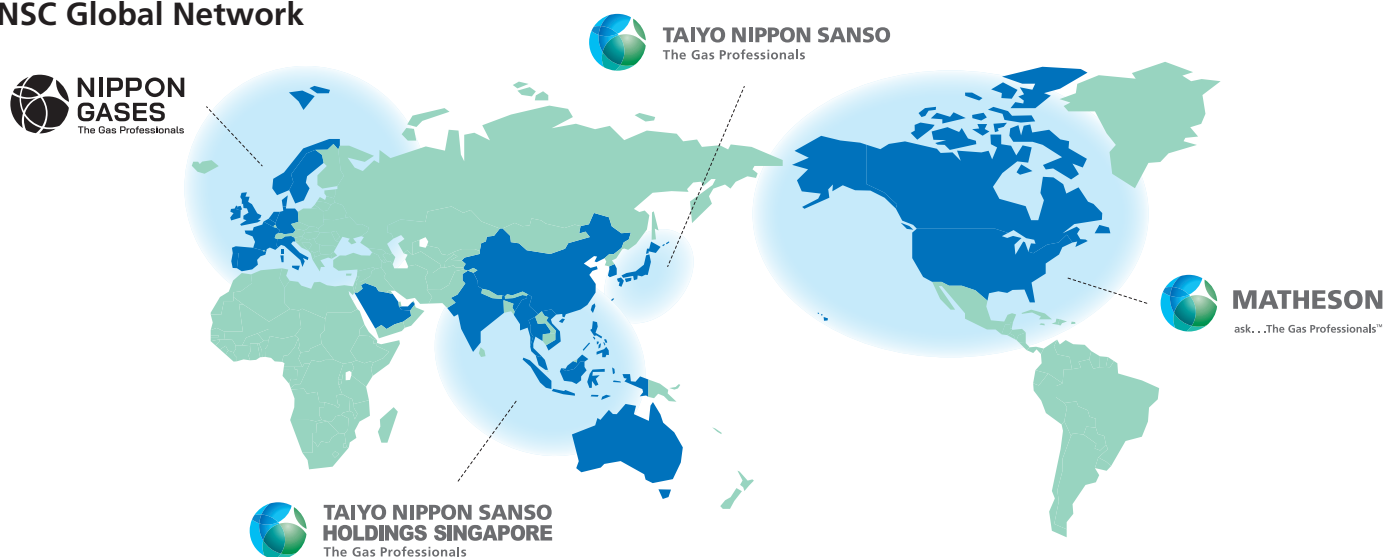
Ever since its foundation in 1910, TNSC has steadily acquired unique know-how and in-depth experience through the manufacture and supply of industrial gases. Fully using its infallible technological power as a base, TNSC has undertaken the manufacture of plants in the space and cryogenic equipment segment, as well as space environmental test systems and liquid helium-related systems. Today, TNSC enjoys an excellent reputation for its technology, which is reputed to be at the top level in the world.



Space simulation chamber

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TNSC Global Network



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