Our references

TORE SUPRA (France)
- Cryoplant of the Tokamak

JET (United Kingdom)
- Cryopumps

SST-1 (India)
- Cryoplant of the Tokamak
- Cryoplant of the NBI

KSTAR (South Korea)
- Tokamak Thermal Shields engineering study
- Cryoplant

JT60-SA (Japan)
- Cryoplant engineering study

ITER
- Prototype cryopump, and its test facility at FZK
- Cryoplant engineering studies

Contacts
AIR LIQUIDE ADVANCED TECHNOLOGIES
2, rue de Clémencière - BP 15
38360 Sassenage - France
Phone: + 33 (0)4 76 43 62 11
Fax: + 33 (0)4 76 43 62 71
www.dta.airliquide.com
E-mail: gcom.dta@airliquide.com

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AIR LIQUIDE ADVANCED TECHNOLOGIES

Cryogenics for Fusion

The cooling power for superconducting magnets and cryopumps

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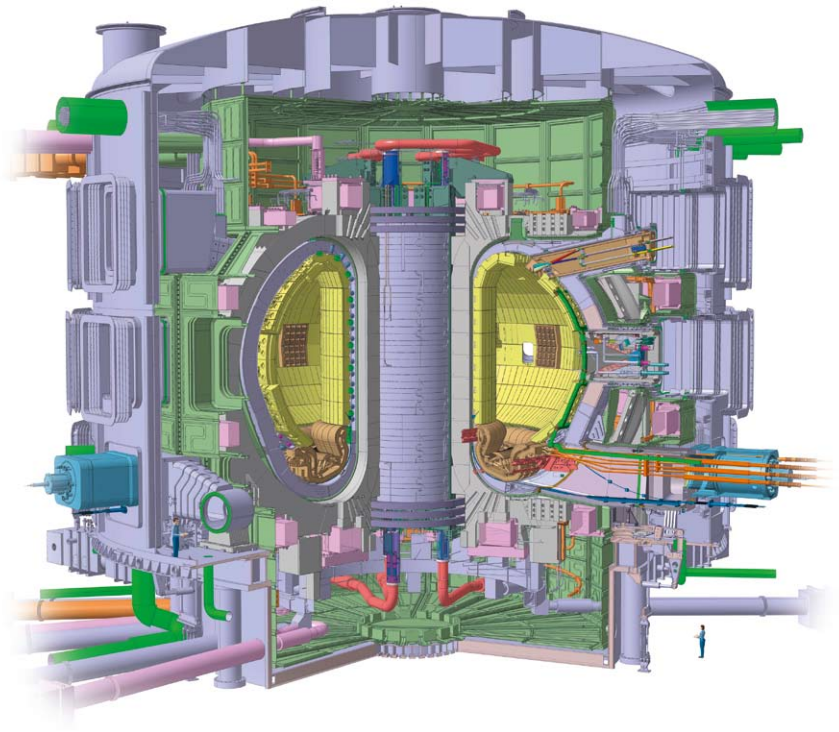
Air Liquide Advanced Technologies, specialised in cryogenics and gas engineering provides tailor sized cryogenic solutions dedicated to fusion. High field superconducting magnets confining the plasma and cryopumps trapping the fusion reaction ashes must be cooled down by customed design cryoplants. We design and manufacture cryoplants and cryodistribution systems for fusion, and also cryopumps, and current feeders.

Air Liquide team's support you in all the stages of your project, from drawing up the specifications to implementing the solution.
Our cryogenic products are customed designed according to your specific needs.

ITER Tokamak



Air Liquide expertise

Highly reliable systems with references in major fusion projects

- Helium and Nitrogen refrigerators and liquefiers
- Valve boxes
- Cryogenic transfer lines
- Cryopumps
- Current feeders
- Liquid Helium and Nitrogen storage tanks
- Gas management systems (compressors, purifiers, storage tanks, piping…)

Air Liquide support

- Support with designing your specification
- Selection of the most appropriate technologies
- Turnkey solutions
- Risk management
- Maintenance and operation services
- Training
- Know-how and support of an international group


Liquefier cold box


Current feeders

Liquefier - HELIAL


Cryogenic transfer lines

Cryopump