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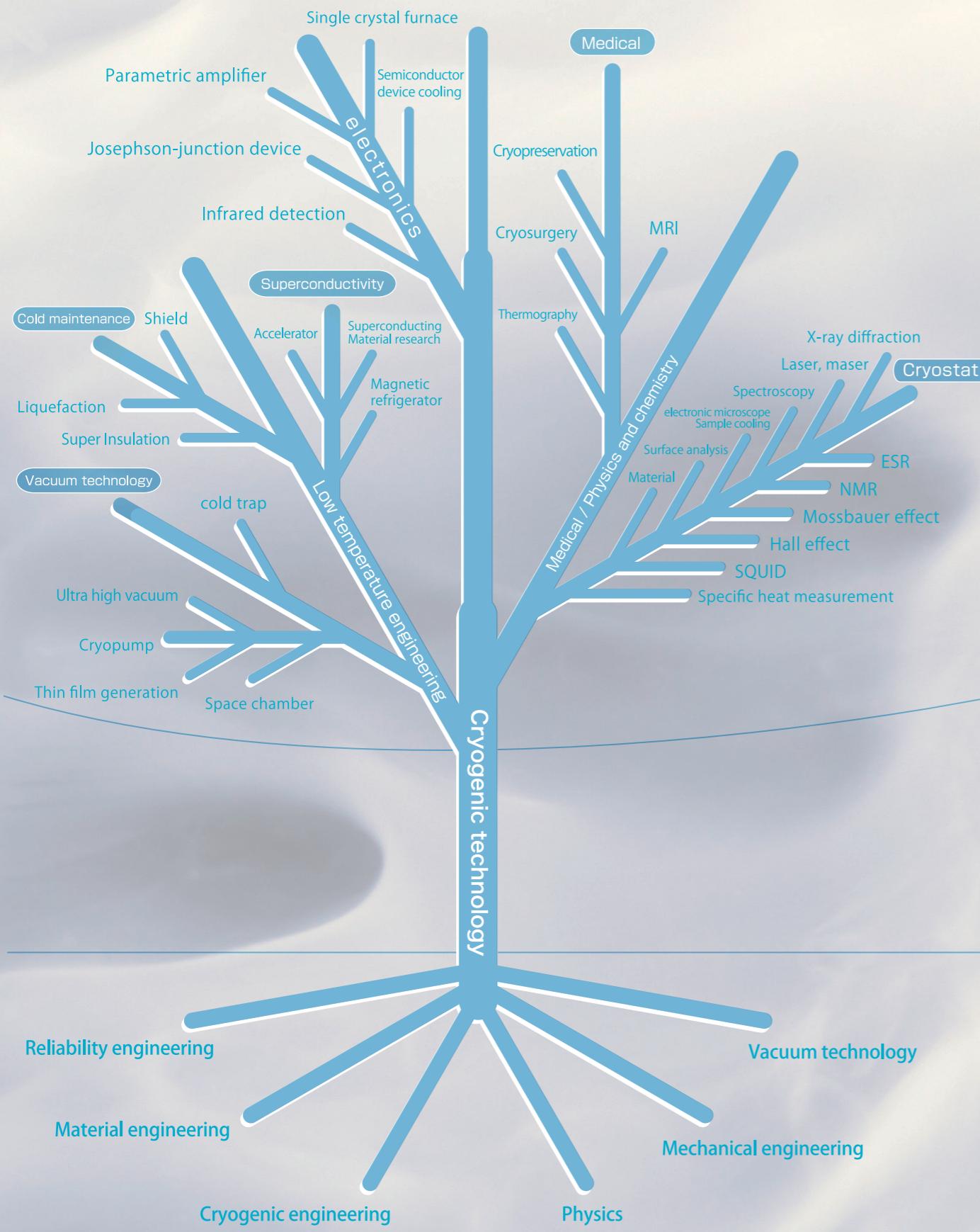
www.ulvac-cryo.com/english/



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Cryogenic Technology in a Variety of Fields



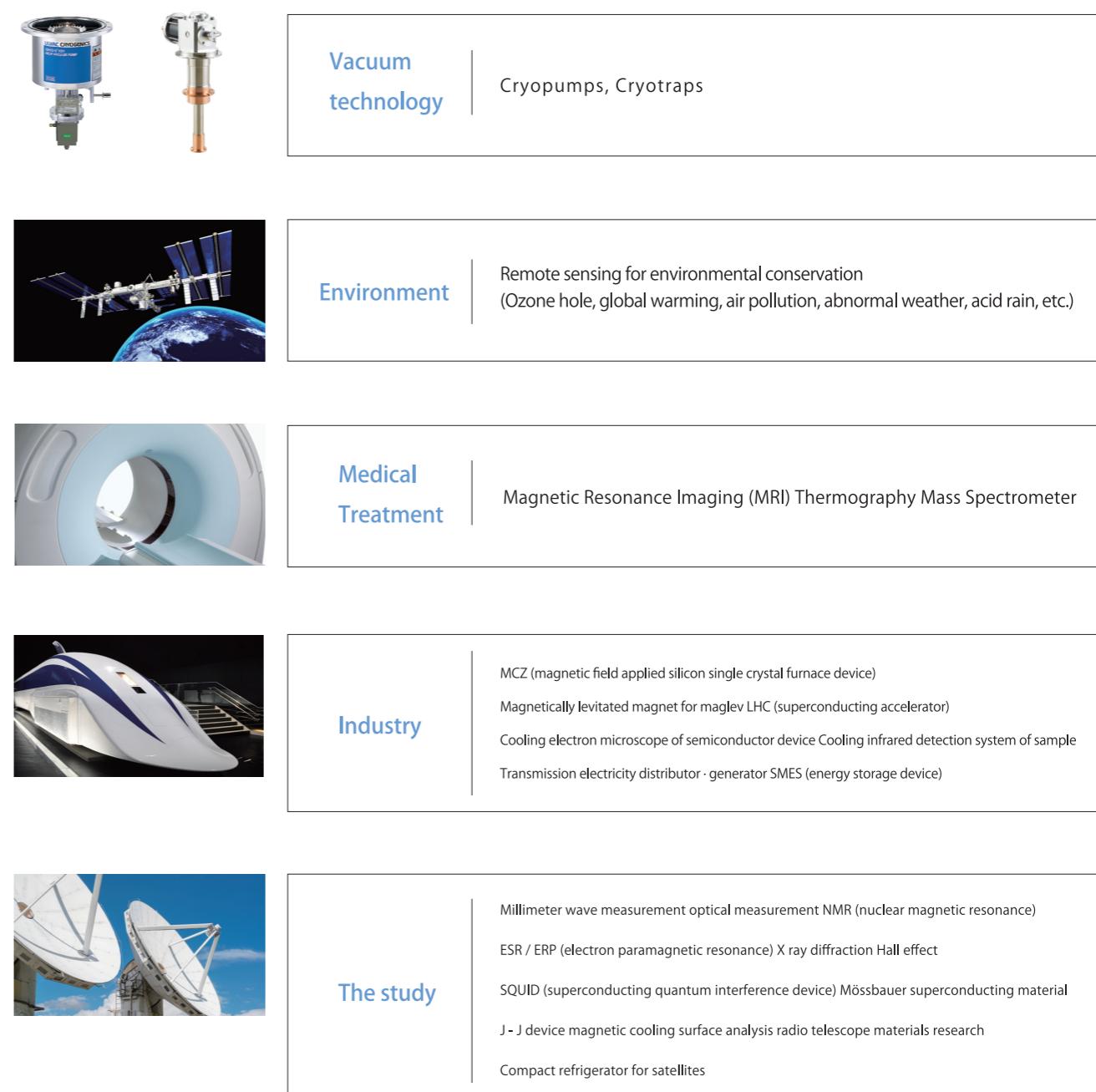
Our Cryocoolers

ULVAC CRYOGENICS has provided a large number of cryopumps to be mounted on vacuum systems for semiconductor or LCD manufacturing equipments based on our rich experience and expertise in vacuum and cryogenic technology.

Recently, G-M refrigerators for cryopumps have been expanding the applications into new fields such as superconductivity.

As the demand for 4K or pulse-tube cryocoolers expands, we believe that our cryocoolers with proven technology will respond to the requirements for R&D or in advanced industries.

Application of cryogenic technology



Refrigerator/compressor combination table 3/3

		GM		20K GM	Pulse-Tube		Solvay	
Model		RMS80T	RMS150T	RSC50T	PDC08	PD016	S030Z	S050
Cooling capacity (first stage)	50Hz	120W@77K	150W@77K	40W@20K	8W@77K	12W@77K *1 18W@77K *2	25W@77K	60W@77K
	60Hz	130W@77K	165W@77K	45W@20K	8W@77K	12W@77K *1 18W@77K *2	30W@77K	62W@77K
Cooling capacity (second stage)	50Hz	—	—	—	—	—	—	—
	60Hz	—	—	—	—	—	—	—
Ultimate temperature	50Hz	35K	40K	13K	40K	40K	30K	30K
	60Hz	35K	40K	13K	40K	40K	30K	30K
Cooldown time	50Hz	20min (77K)	15min (77K)	50min (20K)	20min (77K)	30min (77K)	25min (77K)	20min (77K)
	60Hz	18min (77K)	13min (77K)	40min (20K)	20min (77K)	30min (77K)	25min (77K)	20min (77K)
Weight		15kg	20kg	23kg	1.5kg	4.5kg	5.9kg	6.5kg
SA112-C					○	○ *1	○	
SW112-C					○	○ *1	○	
SA115-C						○ *2		
SW115-C						○ *2		
UW404								○
C10T								
C10AT								
C30VRT								
C30PVRT	○	○						
C30HVRT			○					
C30F2								
C30F4								

■ When applying our refrigerator to a cryocooler for optical sensors, the cryocooler falls under row 6.A.2.d.2 of the control list established by The Wassenaar Arrangement, which is equal to row 10(2) of appended table 1 of Japan Export Trade Control Order.

Customers must follow all related rules and regulations such as Foreign Exchange and Foreign Trade Act and take appropriate procedures when exporting or re-exporting our refrigerators.

*1 Using M501 motor unit *2 Using M502 motor unit