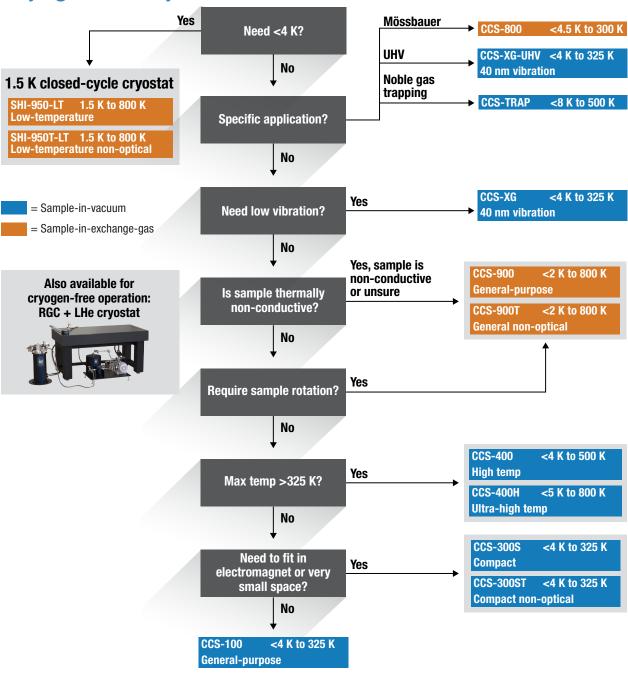


## How to choose the right cryostat for you

Use these cryogen-free and LHe and  $LN_2$  decision trees to help you choose the cryostat system that fits your specific application and experimental needs.

## Cryogen-free systems





## environment by :: JANIS

## Make any ST or STVP cryostat LHe and LN<sub>2</sub> systems cryogen-free with the addition of an RGC Yes **Application-specific?** No **NMR** Yes, sample is non-conductive or unsure STVP-NMR <2 K to 325 K Is sample thermally Non-optical non-conductive? or No. sample is conductive UHV Yes, <10 min sample change ST-400 2 K to 500 K Is sample throughput High-temp critical? ST-400-H 2 K to 800 K **Ultra-high temp** No or Yes Require sample rotation? Microscopy/low-vibration 3.5 K to 475 K ST-500 <15 nm vibration No For optical applications ST-500-C 6 K to 475 K VNF-100 65 K to 325 K <15 nm vibration, compact Need to fit in <2 K to 325 K STVP-100 electromagnet or very or small space? For high-temp No Yes (non-optical) applications **FTIR VPF-FTIR** 65 K to 500 K VNF-100-TH 65 K to 500 K ST-300 ST-FTIR 2.5 K to 500 K STVP-100-TH <2 K to 420 K 2 K to 420 K Magnetotransport **STVP-FTIR** <2 K to 325 K Best for non-conductive samples (works ST-300-C equally well with conductive samples). 2 K to 420 K Best for temperature uniformity. Magnetotransport Compact = LHe/LN, sample-in-vacuum = LN2 sample-in-vacuum **CryoComplete™ with VPF-100** = LHe/LN2 sample-in-flowing-vapor = LN<sub>2</sub> sample-in-flowing-vapor **VPF-100** 65 K to 325 K VPF-100-H 65 K to 800 K ST-100 2 K to 500 K

ST-100-H

2 K to 800 K