## HELIUM-3 WITH INTEGRAL LHO-4 RESERVOIR

The model 'He3-SV4' has a liquid helium reservoir built-in. This reservoir supplies the LHe-4 for the POT and for condensing He-3 gas. Ideal for applications where there is no access to the main LHe bath.

A liquid helium-4 reservoir is built-in! This insert has the standard He-3 pot, 1 K POT, and charcoal sorb and a He-4 reservoir that is filled externally using a vacuum insulated liquid helium transfer line.

A fill adapter automatically separates warm He-4 gas to allow refilling at any time without moving the transfer line position. This allows the transfer line to conveniently remain in place switched on or off as needed. (Note: If a transfer line is needed, ask about our LHe transfer lines with in-line flow valve.) The He-3 gas storage is also built-in - no gas handling needed.

Helium-3	Sample
	in Vacuum
Base Temperature	300 mK
Hold Time at Base Temperature	24 Hours
Temperature Range	0.30 K to 80 K (300 K optional)
Thermometers	Cernox - Charcoal & POT RuO2 (1K) - sample Si diode or platinum RTD - to monitor sample cooldown
Helium-3 Regeneration Time	30 min typ.
Sample Mount Diameter	1.25 inch 31.7 mm
Sample Environment	Vacuum (std) with Liquid/vapor Top Load Port 0.21 in dia. clear [5.3 mm] (Port epoxy sealed with NPT fitting)
Experimental Access Vacuum Seal	Quick connect IVC with ta- pered grease seal
POT digital level monitor	Yes, optional
Res, digital level monitor	Yes, included
Wire Anchors	Kapton flex circuits + 4K extendable copper post
Charcoal Cooling Method	Dynamic flow
Experimental Wiring	5 twisted pairs (10) wires for Customer use (manganin)
Materials of Construction	Non magnetic [All main temperature sensors compatible with use in high magnetic fields]

