

Low Temperature Transmittance Cell Cryostat 190 (-190 to +150 degC)

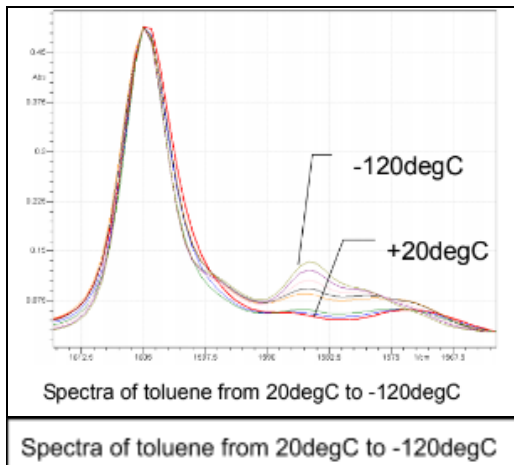


Cryostat 190 is designed to control the temperature accurately with accurate flow control of cooling nitrogen by mass flow controller and control of the heater which is kept around the sample holder. This system can be installed with FT-IR of many types and other spectrometer. This System includes Cryostat, 10L liquid nitrogen dewar, diaphragm pump (For Liquid Nitrogen flow), temperature controller and KBr windows.

Cooling is done by Liquid nitrogen from the 10L dewar (stand-alone) to cryostat, pumped using diaphragm pump then cooling the sample in cryostat.

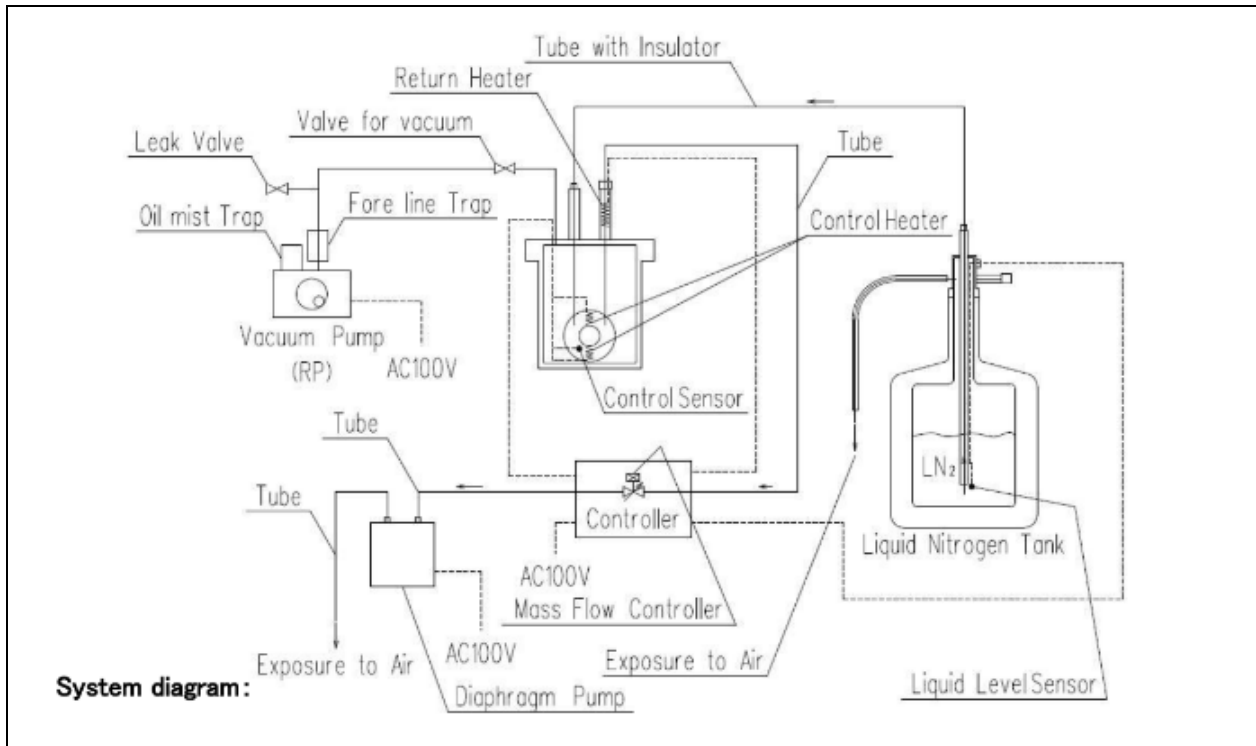
Features:

- Cryostat 190 can put a variety of FTIR.
- Temperature range is -190 to +150 degC.
- Cryostat and 10L (standard) dewar of liquid nitrogen are separated for long periods.
- We can provide the holder for liquid and solid samples.
- Cryostat 190 can control the temperature +/-1degC.



Specifications:

Temperature range:	-190 degC to -150 degC (optional up to 500 degC)
Cooling hold time:	About 10 hours (in the case of -185 degC)
Window:	KBr (standard) ZnSe quartz can provide
Window size:	32mm (effective diameter 20mm)
Sample:	A solid (as for the liquid cell, optional)
Liquid Nitrogen Dewar:	10L (as standard equipment. 30L, 50L can provide)
Cooling method:	LN2 heat conduction
Temperature control:	less than +/-1degC
Cell body:	SUS304
Temperature sensor:	Type-K Thermocouple
Vacuum connection:	NW-16



ORDERING INFORMATION

Part Number

Description

STJ-0138
flow

Cryostat Cryo-190 Including Cryostat, 10L liquid nitrogen dewar, diaphragm pump for
the Liquid nitrogen, Cell Holder (Liquid or Solid), Temperature controller with MFC. Not

include vacuum pump for vacuum insulation and windows"

STJ-0138 Cryostat Cryo-190 Solid),	Including Cryostat, 10L liquid nitrogen dewar, Cell Holder (Liquid or Solid), Temperature controller with MFC is not include vacuum pump for vacuum insulation, diaphragm pump for flow the Liquid nitrogen and windows"
STJ-0138-01	Cryo-190
STJ-0138-02	Temperature controller with MFC
STJ-0138-03	10L liquid nitrogen dewar
STJ-0138-04	Diaphragm pump for flow the Liquid nitrogen
STJ-0138-07	"Step up voltage transformer(115V to 100V)for Temperature Controller, Diaphragm pump and Rotary pump"
STJ-0138-08	"Step up voltage transformer(230V to 100V)for Temperature Controller, Diaphragm pump and Rotary pump"
STJ-0138-09	Diaphragm pump for flow the Liquid nitrogen (220V)
160-1132	KBr 32x3mm (2pcs)
STJ-0138-LH	Liquid holder for Cryostat 190 must select the spacer and two 25x4mm windows"
162-1190	Teflon Spacer 25mm Assortment (14)
162-1211	CaF2 25x4mm for Liquid holder (2pcs)
162-1217	BaF2 25x4mm Liquid holder (2pcs)
STJ-0138-SH	Solid holder for Cryostat 190
STJ-0138-RP	Rotary Pumping unit for vacuum insulation including rotary pump(100 to 120V), oil trap, fore-line trap, leak valve, 2m NW16 tube"