

Table 3-8: Cryosurface Temperature Needed for Desired Water Vapor Partial Pressure

Desired Water Vapor Partial Pressure			Average Cryosurface Temperature Needed †
torr	Pascal	mbar	°C
5×10^0	7×10^2	7×10^0	-25.4
2×10^0	3×10^2	3×10^0	-34.4
1×10^0	1×10^2	1×10^0	-40.8
5×10^{-1}	7×10^1	7×10^{-1}	-46.8
2×10^{-1}	3×10^1	3×10^{-1}	-54.3
1×10^{-1}	1×10^1	1×10^{-1}	-59.7
5×10^{-2}	7×10^0	7×10^{-2}	-64.8
2×10^{-2}	3×10^0	3×10^{-2}	-71.2
1×10^{-2}	1×10^0	1×10^{-2}	-75.8
5×10^{-3}	7×10^{-1}	7×10^{-3}	-80.1
2×10^{-3}	3×10^{-1}	3×10^{-3}	-85.6
1×10^{-3}	1×10^{-1}	1×10^{-3}	-89.6
5×10^{-4}	7×10^{-2}	7×10^{-4}	-93.4
2×10^{-4}	3×10^{-2}	3×10^{-4}	-98.2
1×10^{-4}	1×10^{-2}	1×10^{-4}	-101.6
5×10^{-5}	7×10^{-3}	7×10^{-5}	-104.9
2×10^{-5}	3×10^{-3}	3×10^{-5}	-109.1
1×10^{-5}	1×10^{-3}	1×10^{-5}	-112.2
5×10^{-6}	7×10^{-4}	7×10^{-6}	-115.1
2×10^{-6}	3×10^{-4}	3×10^{-6}	-118.1
1×10^{-6}	1×10^{-4}	1×10^{-6}	-121.5

Table 3-8: Cryosurface Temperature Needed for Desired Water Vapor Partial Pressure

Desired Water Vapor Partial Pressure			Average Cryosurface Temperature Needed †
torr	Pascal	mbar	°C
5×10^{-7}	7×10^{-5}	7×10^{-7}	-124.1
2×10^{-7}	3×10^{-5}	3×10^{-7}	-127.5
1×10^{-7}	1×10^{-5}	1×10^{-7}	-129.9
5×10^{-8}	7×10^{-6}	7×10^{-8}	-132.2
2×10^{-8}	3×10^{-6}	3×10^{-8}	-135.2
1×10^{-8}	1×10^{-6}	1×10^{-8}	-137.3
5×10^{-9}	7×10^{-7}	7×10^{-9}	-139.5
2×10^{-9}	3×10^{-7}	3×10^{-9}	-142.1
1×10^{-9}	1×10^{-7}	1×10^{-9}	-144.1
<p>NOTE: † This is the <u>average</u> of your COIL IN (TC #3) and COIL OUT (TC #4) measurements. The COIL OUT temperature must be within 10°C of the <u>average</u> temperature. For PFC/PFC or PFC/P: Also average your #2 COIL IN (TC #5) and #2 COIL OUT (TC #6) measurements.</p>			

3.4.4.3 Evaluate the Cryopump in DEFROST

1. Select DEFROST.

NOTE: For a PFC/PFC: Select DEFROST for both refrigerant circuits.

NOTE: For a PFC/P: Select DEFROST for the first refrigerant circuit. Select STANDBY for the second refrigerant circuit.