

Your ExploraVAC system will include graphs of the actual performance of your specific instrument. The sample graphs provided here are generated from actual test data of various ExploraVac configurations.



## Rough and High Vacuum Pump Down Speed Curves

Roughing Pump Down Curves, Various Chamber Sizes, Edwards nXDS20i Dry Scroll Pump, Log Pressure Scale



Roughing Pump Down Curves, 24" Chamber, Different nXDS and nXR Dry Pump Sizes, Log Pressure Scale



Roughing Pump Down Curves, Various Chamber Sizes, Edwards nXDS20i Dry Scroll Pump, Linear Pressure Scale







Pressurization Curves from High Vacuum to Ambient Atmosphere, Various Chamber Sizes, Pneumatic Vent Valve



Atmospheric Vent vs. Purge Gas Pressurization Curves from High Vacuum to Ambient Atmosphere, 24" Chamber Size, Pneumatic and Electronic Valves

All Heating and cooling performance data shown in the following graphs was obtained at a system pressure of 20 to 30 mTorr with an unloaded platen in a room with ambient temperature between 20 and 25°C. Maximum heating and cooling ramp rates and ultimate temperatures will be reduced at higher system pressures, higher thermal loads, and higher room temperatures.

Vent and Purge Pressurization Speed Curves with Pneumatic and Electronic Valves

## Platen Heating and Cooling Maximum Ramp Rate Curves with 23" Platen



Maximum 23" Platen Heating Ramp Rates of Resistive Heating Elements and Huber Refrigerated Heating Circulator Systems



Maximum 23" Platen Cooling Ramp Rates of LN<sub>2</sub> -70°C Refrigerated Chiller, Passive and Huber Refrigerated Heating Circulator Systems









**PLATEN PELTIER COOLING** 



## 23" Platen Heating and Cooling Speed Curves of Huber Refrigerated Heating Circulator Systems









## Platen Heating and Cooling Speed Curves with Electrical Heaters and -70°C Refrigerated Chiller Bath System



Heating Curves of Platen from Low Temperature, Various Platen Sizes, Electrical Heater Cartridge System



Cooling Curves of Platen from Ambient Temperature, Prechilled vs. Non-Prechilled Bath, 23" Platen, Refrigerated Chiller Bath System



Cooling Curves of Platen from High Temperature, Various Platen Sizes, Refrigerated Chiller Bath System





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