

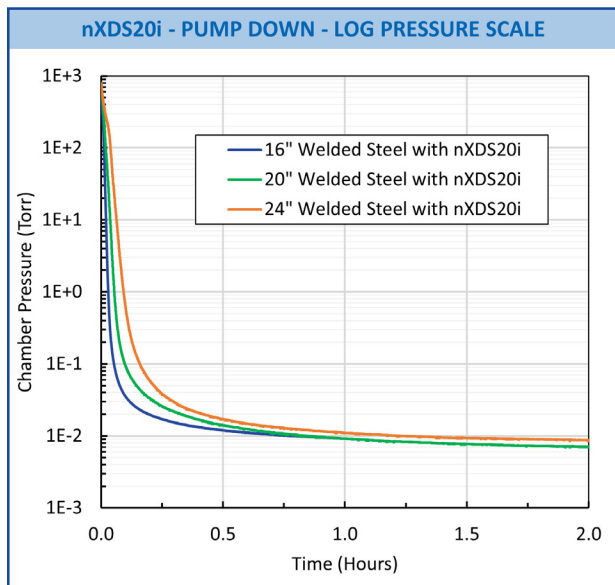


OUR PRODUCTS DEVELOP TOMORROW'S TECHNOLOGIES™

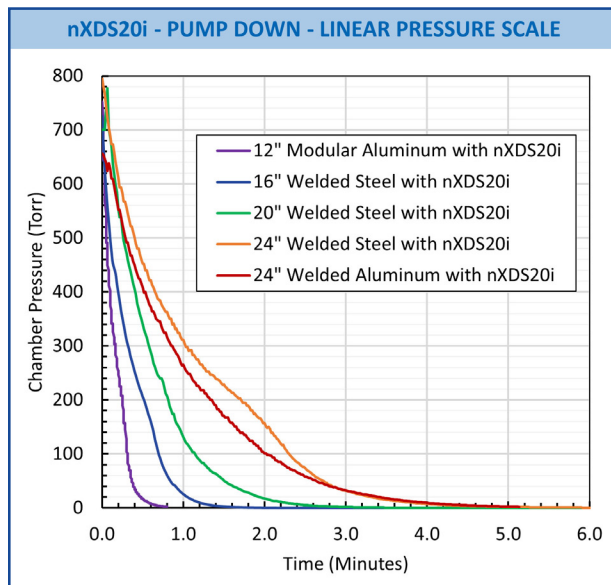
ExploraVac System Sample Performance Graphs

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.

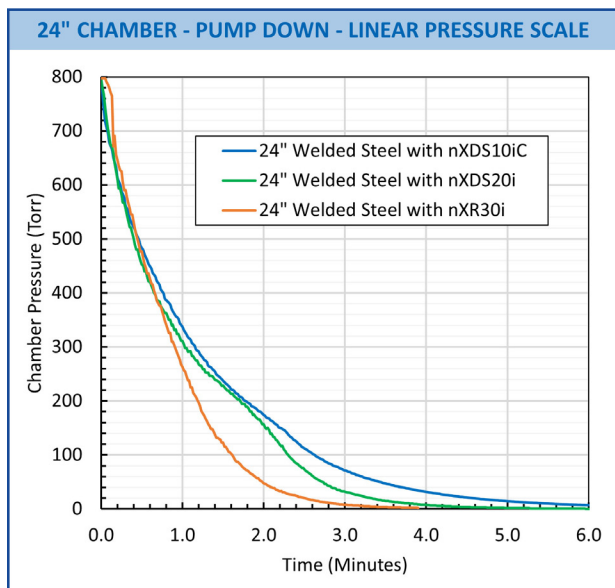
Rough and High Vacuum Pump Down Speed Curves



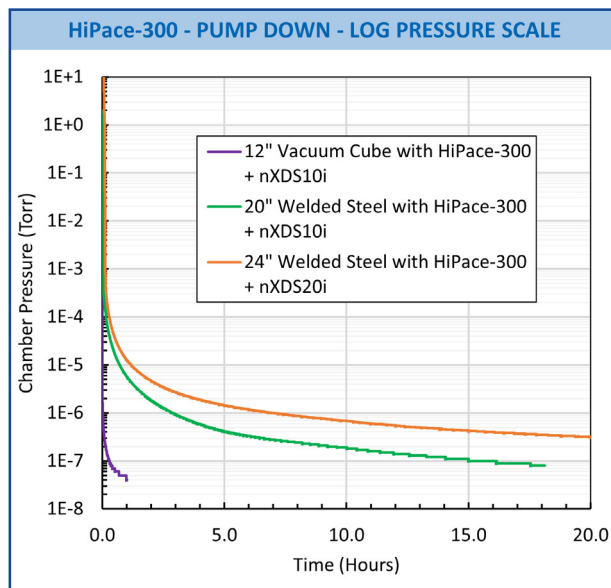
Roughing Pump Down Speed, Various Chamber Sizes, Edwards nXDS20i Dry Scroll Pump, Log Pressure Scale



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

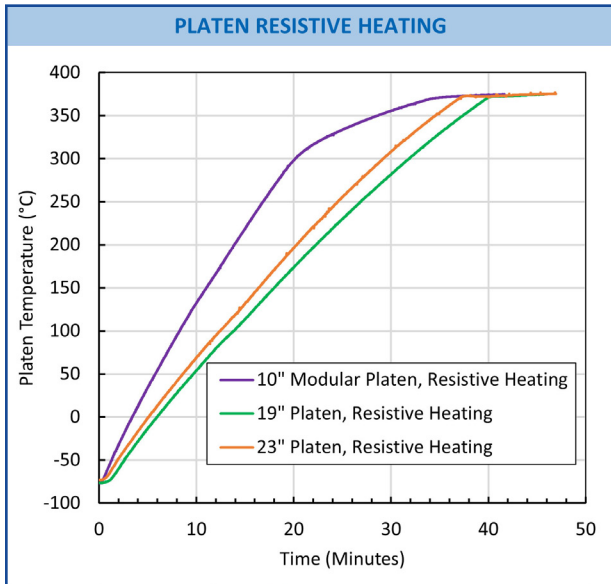


Roughing Pump Down Speed, 24\"

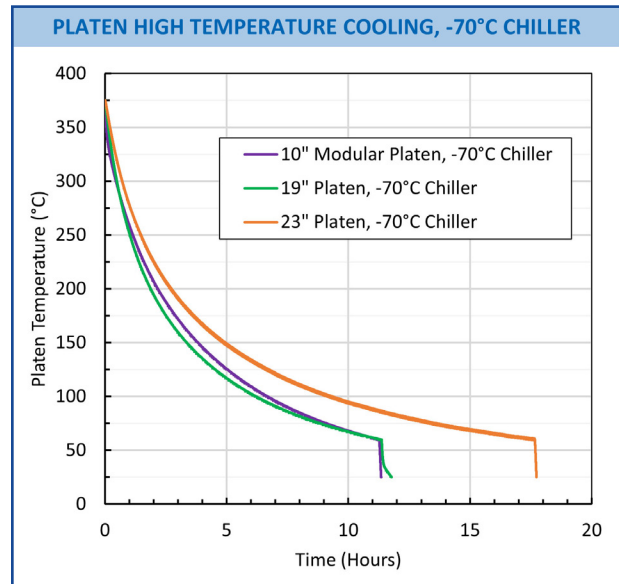


High Vacuum Pump Down Speed, Various Chamber Sizes, Pfeiffer HiPace 300 Turbo Pump, Log Pressure Scale

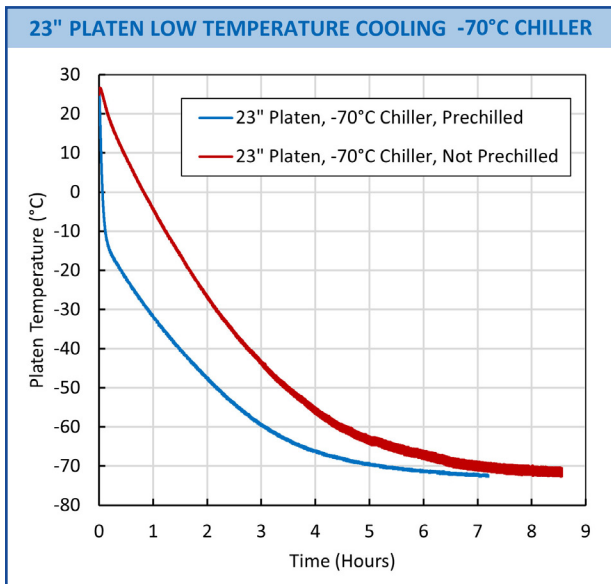
Platen Heating and Cooling Speed Curves with Electrical Heaters and -70°C Refrigerated Chiller Bath System



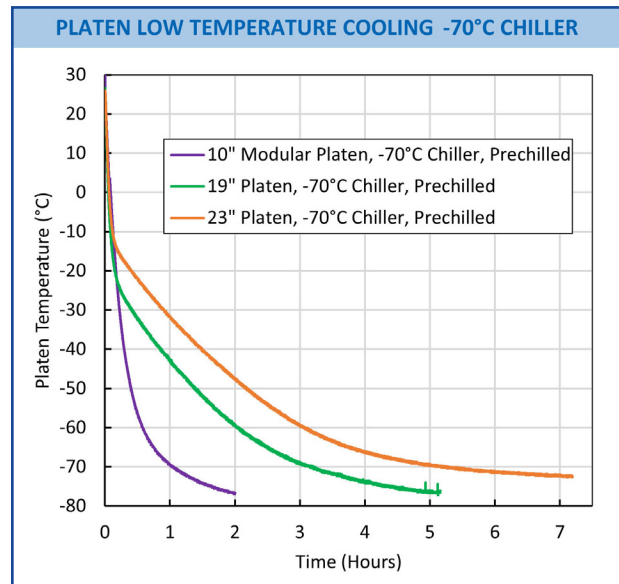
Heating Speed of Platen
from Low Temperature, Various Platen Sizes,
Electrical Heater Cartridge System



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

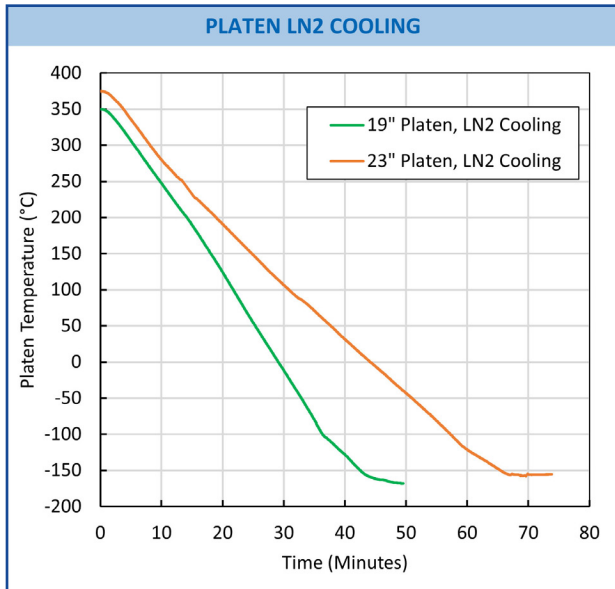


Cooling Speed of Platen from Ambient Temperature,
Prechilled vs. Non-Prechilled Bath,
23" Platen, Refrigerated Chiller Bath System

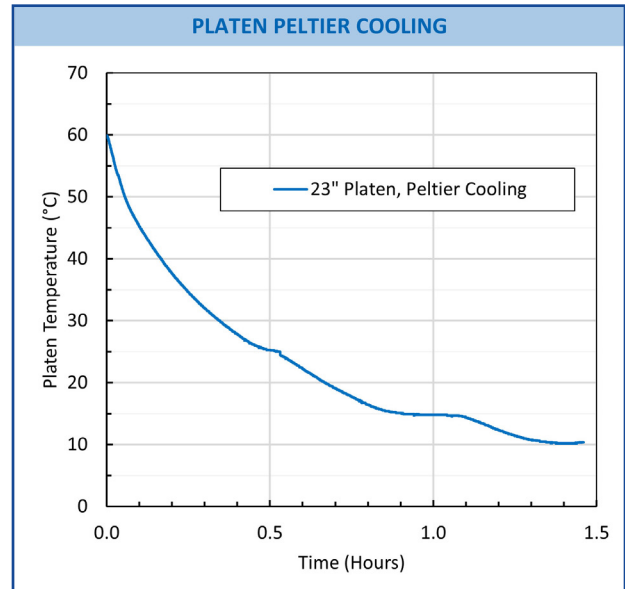


Cooling Speed of Platen from Ambient Temperature,
Prechilled Bath, Various Platen Sizes,
Refrigerated Chiller Bath System

Platen Heating and Cooling Speed Curves with XtremeFreez LN2 Cyogenic and TCube Platen Cooling Systems

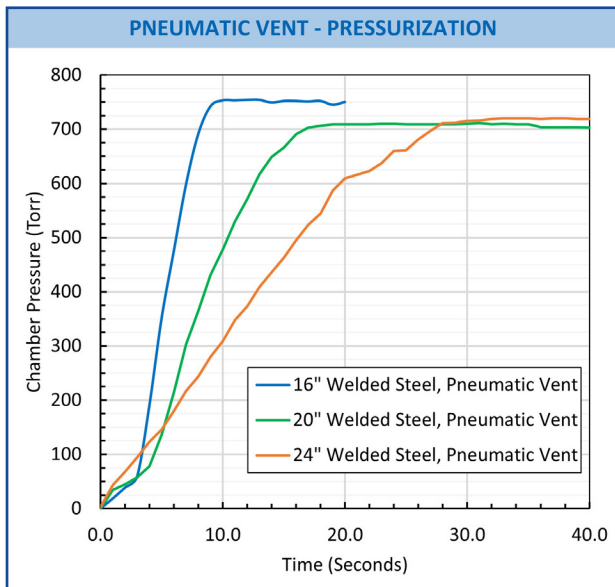


Cooling Speed of Platen
from High Temperature, Various Platen Sizes,
XtremeFreez LN2 Cyogenic System

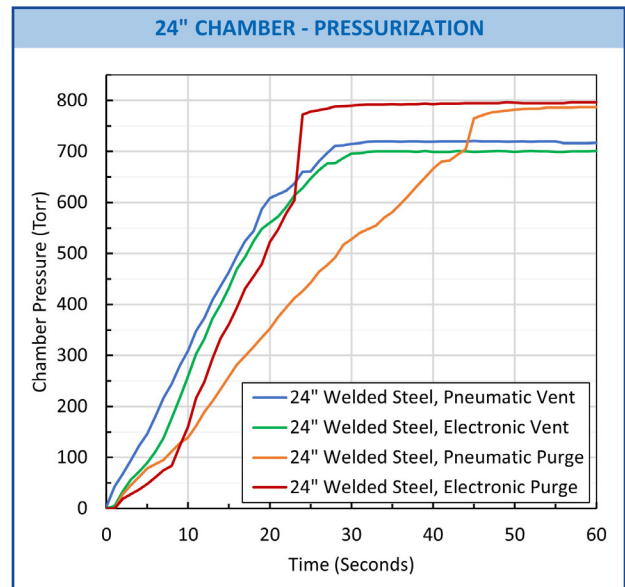


Cooling Speed of Platen
from Raised Temperature, 23" Platen,
TCube Peltier Cooling System

Vent and Purge Pressurization Speed Curves with Pneumatic and Electronic Valves



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



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