

| <b>PERFORMANCE</b>                 |  |  |  |  | <b>NOTES</b>                               |
|------------------------------------|--|--|--|--|--|
| Temperature Range                  | 4.9K-350K                                  | 3.2K -350K   | 3.4K-350K  | 3.6K-350K  | measured at platform                       |
| Sample Temperature Stability (P-P) | <100 mK                                    | <10 mK   | <15 mK   | <20 mK   | measured on manual positioner at base temp |
| Vibrational Stability (Platform)   | <50 nm                                     | <5 nm  | <15 nm   | <15 nm   | peak to peak                               |
| Cool Down Time to 4.2K             | ~3.5 hrs (to 6K)                           | ~2 hrs   | ~3 hrs   | ~10 hrs  | typical performance                        |
| Cooling Power @ 4.2K               | 100 mW (@ 6K)                              | 130 mW   | 90 mW  | 75mW   |  |
| <b>OPTICAL PROPERTIES</b>          |  |  |  |  |  |
| Optical Access                     | 5 optical ports<br>(4 radial + 1 overhead) |  |  | 9 optical ports<br>(8 radial + 1 overhead)                             |  |
| Acceptance Angle                   | 60° full angle                             | 60° full angle   | 27.4° full angle   | 16° full angle   | sample at center of platform               |
| <b>INTERFACING</b>                 |  |  |  |  |  |
| Electrical Access                  | 20 DC connections                          | 20 DC connections  | 25 DC connections  | 25 DC connections  |  |
| Interface Side Panels              | Dual RF only                               | Dual RF + 25 DC (included)<br>1x configurable*                                   | Quad RF (included)<br>5x configurable*                                 | 6x configurable*   | *RF, DC, fiber options available           |
| <b>DIMENSIONS</b>                  |  |  |  |  |  |
| Sample Space                       | ø53 mm x 63 mm                             | ø53 mm x 100 mm  | ø100 mm x 116 mm   | ø196 mm x 75 mm  |  |
| Beam Height                        | 89.9 mm                                    | 140 mm   | 140 mm   | 100 mm   | from table surface                         |
| <b>OPTIONS</b>                     |  |  |  |  |  |
| Positioning                        | Manually adjustable                        | Manually adjustable,<br>nanopositioner   | Manually adjustable,<br>nanopositioner                                 | Manually adjustable,<br>nanopositioner                                 |  |
| High NA Integration                | None                                       | Vacuum compatible objective<br>vertically mounted in sample<br>space             | Vacuum compatible objective<br>horizontally mounted in sample<br>space | Vacuum compatible objective<br>horizontally mounted in sample<br>space |  |
| Magnetic Field                     | None                                       | 0.7T bipolar magnet integrated<br>into a housing with 3 optical<br>access ports. | Custom solutions required  | Custom solutions required  |  |