



Tool Make & Model

Tool Configuration / Specifications

8. QCVelox-HR System Specs

8.1 System Specs Summary

The following specs are subject to change with future system development.

Inspection Chamber	Ambient air.
X-Ray Tubes	Cu Anode
X-Ray Optics	XRD: Bruker Technologies proprietary
X-Ray Detectors	XRD: Bruker Technologies proprietary
Wafer Handling	2 Load Port robot, support for 200mm and 300mm wafers. Built in cassette mapper, including a class 1 laser.
Built-in Pre-Aligner	Integrated design to overcome robot handling errors.
Up time	> 95 %, MTBF > 1,500 Hours
Ergonomics	Standing operation, load height 900 mm.
Human Interface	IBM compatible industrial grade computer.
Integrated Software Interface	Operating System – Windows 10 based semiconductor industry standard GUI for easy handling of wafers and view of results. Recipe / Procedure Creation Wizards – for step-by-step recipe/procedure creation using built-in standards.
Data Base	MS SQL® compatible database, enabling the use of standard systems for data management.
GEM/SECS Communication	TCP-IP.
Sound Level Produced by System	<62 dB(A)
EFEM Cleanness Class	ISO CLASS 1
IU Cleanness Class at wafer position	ISO CLASS 3

Table 8-1: System Specs Summary

Browse our site at www.moov.co

The information contained in this data sheet is, to our knowledge, accurate. We do not warrant the completeness or accuracy of the information contained herein. Any offer by you to purchase the equipment described in this data sheet shall be subject to the terms and conditions of sale.



Tool Configuration / Specifications

8.2 Particles FFU Specifications

System Units	Parameter	Specification
EFEM	Performance	
	• Air Flow Range	• 0 to 727 CFM
	• Air Flow Uniformity	• ±10% across the filter face
	• Noise Level	• Does not exceed NC55
	• Vibration Level	• Does not exceed 2.5µm peak-to-peak, 3-100 Hz at fan module mounting point
	Filter Performance	PTFE 6N+: 99.99995 % minimum removal efficiency for 0.07-micron particles. Class 0.1. Filter material: PTFE
	Input Power	230V AC, 50/60 Hz, single phase, 20A max.
IU	Environmental Conditions	Temperature: 15 – 25 °C Atmospheric Pressure: 966 hPa +50 hPa Relative Humidity: 30-50 %
	Performance	
	• Air Flow Range	• 100 to 1300 CFM (Cubic feet per minute)
	• Noise Level	• 48 dBA
	• Vibration Level	• N/A
	Filter Performance	ULPA U-15: 99.9995 % minimum removal efficiency for 0.1-micron particles. Filter material: Ultra-fine fiberglass PTFE 6N+: 99.9999 % minimum removal efficiency for 0.1-micron particles 3 Filter material: PTFE
	Input Power	230V AC, 50/60 Hz, single phase, 2.5 A max.
Environmental Conditions	Temperature: 15–25 °C Atmospheric Pressure: 966 hPa +50 hPa Relative Humidity: 30-50 %	

Browse our site at www.moov.co

The information contained in this data sheet is, to our knowledge, accurate. We do not warrant the completeness or accuracy of the information contained herein. Any offer by you to purchase the equipment described in this data sheet shall be subject to the terms and conditions of sale.