

Rubber Testing Instruments

RPA *elite* RPA *flex* MDR *one* Mooney



Site Preparation Guide

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Circulator



Power



Cooling



Gas



LN₂



Fluid



Light



Hardware



Software



Temp



Lab



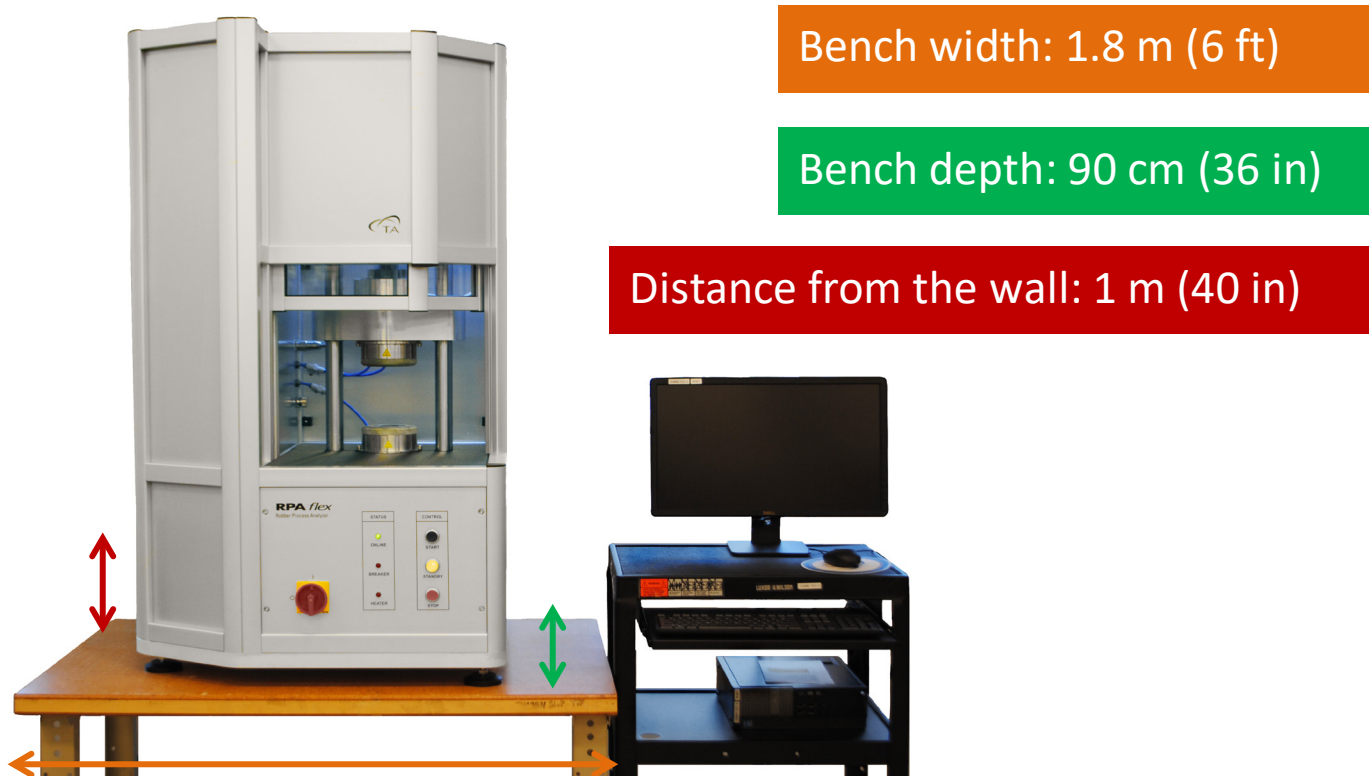
Customer

Ideal Setup



IDEAL PLACEMENT AND BENCH MEASUREMENTS

A rigid laboratory bench that is level and is in a vibration-free environment is required. A forklift is required to move the instrument. Instrument must be placed on the bench prior to Service Installation.



System Components



MAIN SYSTEM COMPONENTS



- A. Instrument
- B. Controller (Computer)
- C. Exhaust pipe (not shown)



An exhaust pipe (not supplied by TA Instruments) is only required if running material that will release toxic fumes.

Instrument Measurements



MAIN INSTRUMENT



Height: 130 cm (52 in)

Width: 80 cm (32 in)

Depth: 65 cm (26 in)

Weight: 280 kg (620 lbs)

Allow 76 cm (30 in) above the instrument if an exhaust pipe is required.



RPA FLEX/MDR ONE WITH STANDARD COOLING OPTION

Make sure at the time of install, there is at least **1 meter (40 inches) of space around the unit** to allow the service engineer to install the cooling option.



Instrument Measurements



AUTOLOADER UNITS



Sample tray extends 266 mm (10.5 in) to the side of the unit.

Film loading mechanism extends 200 mm (8 in) from the rear of the unit.



Rear of the unit must remain accessible for film loading.



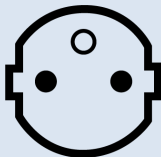


Standard bench measurements (see page 2) are enough for holding autoloader units.

Utility Requirements



POWER

Item	Requirements
Power	<ul style="list-style-type: none"> Instrument: 220 VAC, 16.0 A max, 50/60 Hz Computer: 120 VAC (US) or 220–240 VAC, 6.4 A max, 50/60 Hz Sample cutters: 110 VAC
Power cords provided	<ul style="list-style-type: none"> Instrument (US): L6-20P plug to C19, 2 m (6.5 ft) long Instrument (EU): European with C19 connection <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  L6-20P </div> <div style="text-align: center;">  C19 </div> <div style="text-align: center;">  European </div> </div>



Use power cords with plugs appropriate for your circuit!



Supply voltages lower than indicated may result in a degradation of performance.



Ensure that the mains assigned do not also supply power to noise generating equipment nearby, such as motors, welders, transformers, etc.



An independent heavy GROUND wire must be provided through the power hookup. Improper grounding may cause severe damage for which the supplier will not accept responsibility. All power strips must be fully grounded and carry the ground through to the sockets into which the computer is plugged.

Utility Requirements



GAS



Requirements

Conditions	<ul style="list-style-type: none">• Must be free from oil and residual moisture!• Dry!• Compressed air
Inlet Pressure	<ul style="list-style-type: none">• 90 psi (6 bar) minimum• 120 psi (8 bar) maximum for sample cutters
Pneumatic tubing	<ul style="list-style-type: none">• 8 mm pneumatic tubing.• Customer must provide an adapter that will connect to an 8 mm (5/16") line if the air supply connection is something other than 1/4" NPT.



Improperly regulated, pulsating, or poor-quality purge gas may cause irregular or erratic instrument operation. Containment of exhaust is recommended if noxious or poisonous gases are released by sample when heated. Venting inert gases into small rooms may reduce the oxygen content of the air and become hazardous to personnel.



If harmful vapors are expected during testing, a flexible exhaust pipe (100 mm diameter) is required (not supplied by TA Instruments).



Computer Requirements



HARDWARE REQUIREMENTS

Description	1 User License	Server License**
Processor	Must be currently supported by the manufacturer	
Memory	≥ 4 GB DDR4 2666 SDRAM	≥ 16 GB RAM
Hard drive	≥ 20 GB free space	Minimum 50GB free memory space and 50GB for backup
LAN ports	<ul style="list-style-type: none">• Minimum of 2 ports/cards available• USB ethernet dongle can be used in lieu of second card	1 NIC 10/100/1000MBPS
Access	Full Administrative rights during installation is required	

***Customer MUST inform TA Instruments of the number of users that will operate the software.**

+All PCs that operate the software MUST be on the same domain.

Computer Requirements








SOFTWARE REQUIREMENTS

Item	Requirement
Operating System	<ul style="list-style-type: none">• Windows 10 Enterprise & Professional• Home version not supported• 64-bit version
Internet	Required during installation. Internet connection is <u>strongly</u> recommended for ongoing support after installation.
Service Pack	Microsoft Operating System Service Pack
Updates	Windows Operating System and associated Microsoft updates must be up to date
Network	<p><i>A second network card for corporate connection is recommended.</i></p> <p><i>The network adapter communicating with the instrument must be assigned a static IP address (IPv4)</i></p> <p><i>TA Instruments is not responsible for resolving issues associated with connections to your corporate network.</i></p>
Conflicts	<p><i>TA Instruments is not responsible for resolving hardware/software conflicts created by the addition of third-party hardware or software to the computer.</i></p>
Languages	Language must be ANSI compatible. Languages using special characters (ex. Cyrillic, Chinese/Japanese, etc.) are not supported.

Site Preparation Checklist



Rubber Testing Instruments (RPA *elite*, RPA *flex*, MDR *one*, Mooney)

	<p>Enough bench space for instrument and computer:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Width: 1.83 m (6 ft) <input type="checkbox"/> Height: 76 cm (30 in) <input type="checkbox"/> Depth: 90 cm (36 in) <input type="checkbox"/> Lift equipment for moving the instrument
	<p>Instrument power</p> <ul style="list-style-type: none"> <input type="checkbox"/> 208–242 VAC, 16.0A max, 50/60 Hz <p>Computer and Monitor</p> <ul style="list-style-type: none"> <input type="checkbox"/> 120 VAC (USA) or 220–240 VAC, 6.4A max, 50/60 Hz <p>Sample Cutter</p> <ul style="list-style-type: none"> <input type="checkbox"/> 110 VAC
	<ul style="list-style-type: none"> <input type="checkbox"/> Internet connection and FULL administrator rights <input type="checkbox"/> Number of user(s) that will operate the software: _____
	<p>Purge Gas—Compressed Air</p> <ul style="list-style-type: none"> <input type="checkbox"/> Free of oil and moisture <input type="checkbox"/> Regulator to allow 90–120 psi (6–8 bars) <input type="checkbox"/> An adapter that will connect to an 8 mm (5/16") line if the air supply connection is something other than 1/4" NPT
	<p>At agreed installation date:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The instrument has been unboxed and placed in its final location <input type="checkbox"/> At least 2 employees will be present to be trained to operate the instrument and software <input type="checkbox"/> IT admin will be present during installation to provide all permissions, authorizations, and firewall access required.

I hereby acknowledge that all utility requirements have been met per the checklist above and that they will be ready at the agreed time of installation.

If all utility requirements are not met at the agreed time of installation, additional charges may be incurred for a return Service trip.

 Customer DD / MM / YYYY

 Company City State Country

Please send a signed copy of the completed checklist to your local Service representative.

TA Instruments Offices

For information on our latest products, contact information, and more, see our website at:
<http://www.tainstruments.com>.

To find your local TA Instruments office and contact information, visit
<http://www.tainstruments.com/contact/ta-directory/>

TA Instruments – Waters LLC
Corporate Headquarters
159 Lukens Drive
New Castle, DE 19720
USA

Telephone: 302-427-4000
Fax: 302-427-4001
Email: info@tainstruments.com