ElectroForce® DuraPulse™ HVT

Site Preparation Guide

Revision A Issued March 2021

Table of Contents

Ideal Setup

IDEAL PLACEMENT AND BENCH MEASUREMENTS

Select a location with adequate floor and ceiling space and a rigid laboratory bench that is level and is in a vibration-free environment. Bench must be rated to support several hundred pounds.

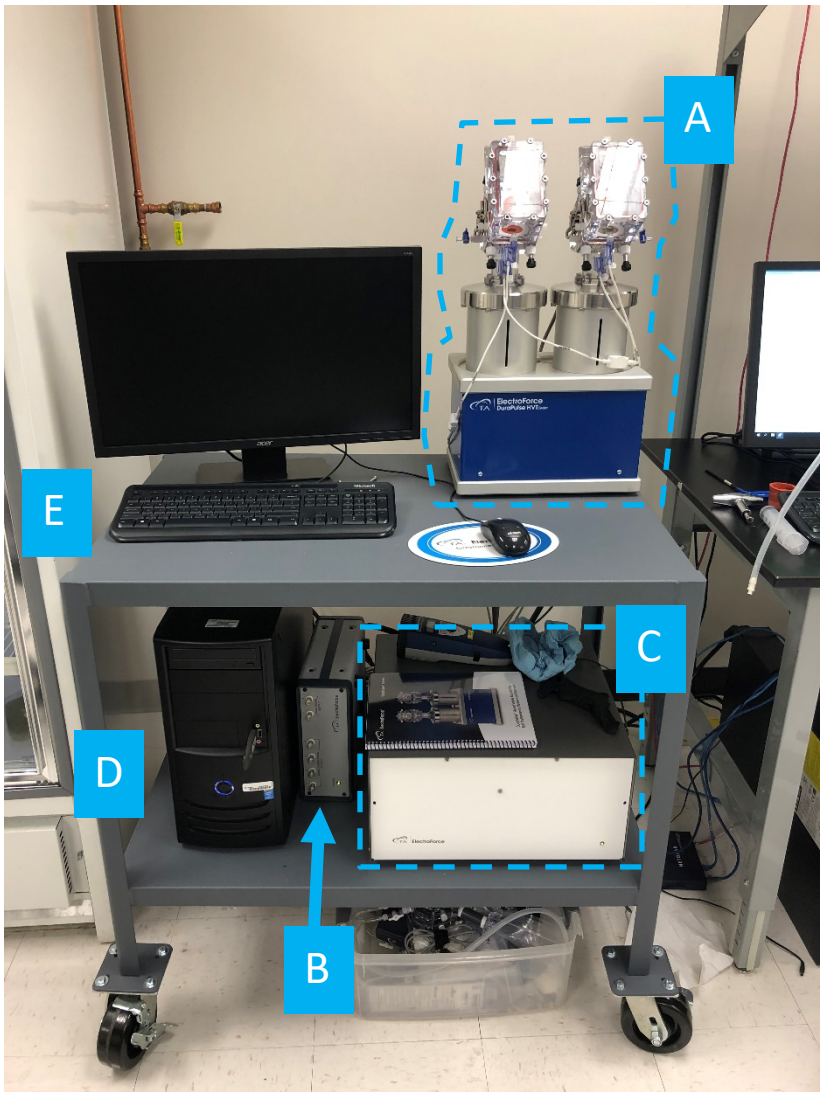
Distance from the wall: 0.15 m (0.5 ft) min.

Table width: 1.5 m (5 ft)

Table depth 0.75 m (30 in)

System Components

MAIN SYSTEM COMPONENTS



A. Test Instrument (2 Station shown)

B. PCI

C. Power Supply (Axial)

D. Computer (Controller)

E. Monitor

Instrument Measurements

DURAPULSE™ HVT 2 STATION UNIT

Height:597 mm (23.5 in)

Width: 330 mm (13 in)

Depth: 253 mm (10 in)

Weight: 29.5 kg (65 lbs) EMPTY
32.2 kg (71 lbs) FILLED

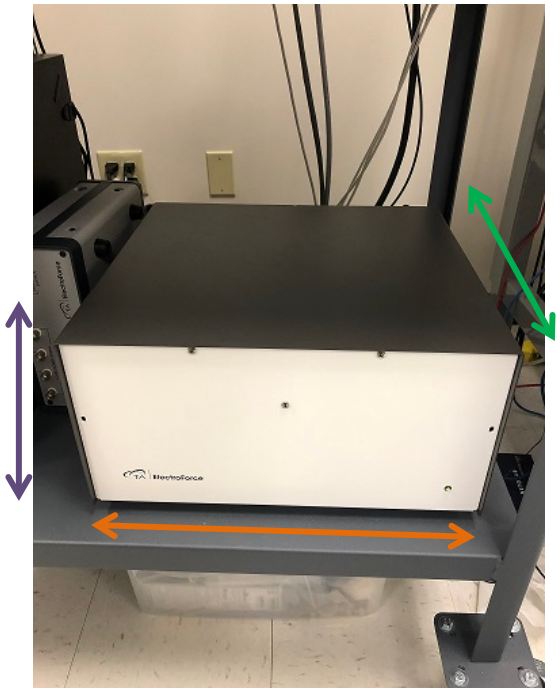
POWER SUPPLY

Height: 234 mm (9.25 in)

Width: 433 mm (17.1)

Depth: 449 mm (17.7 in)

Weight: 9.5 kg (27 lbs)



Utility Requirements

POWER

Item	Requirement
Instrument Power	• 100–120V, 50/60 Hz, 15A • 200–230V 50/60 Hz, 10A • Neutral to Ground (NG) voltage max 0.5 volt • Safety ground per local regulation
PCI-42 and PCI-80 Box Power	• 104–120V, 50–60 Hz Hz, 1.25A • 207–230V, 50–60 Hz Hz, 0.8A NOTE The 2-station DuraPulse Test Instrument uses one PCI-42; the 4-station DuraPulse Test Instrument uses one PCI-80; the 6-station DuraPulse Test Instrument uses one PCI-42 and one PCI-80.
UPS	• 104–120V, 50–60 Hz, 1A • 207–230V, 50–60 Hz Hz, 0.5A
Power cords provided	• 5-15 plug for 120V systems • 6-20P plug for 230V systems • International: Line power cord provided is based on country

5-15 6-20P

CAUTION **Use power cords with plugs appropriate for your circuit.**

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

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

CAUTION 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

FLUID

Item	Requirement
Fluid	Deionized (DI) water or PBS (phosphate buffered saline) • If saline is used, 0.7–0.9% w/v phosphate buffered saline solution is recommended. • Other solutions or concentrations may not be suitable for long-term use.

MISCELLANEOUS

Item	Requirement
Operating temperature	18°C (64°F) to 30°C (86°F)
Relative humidity	40–65% (non-condensing)
Temperature control	Ambient to 42°C (±2°C)
Frequency	10 to 40 Hz
Motor pressure	Static: 125 mmHg Dynamic: 500 mmHg
Volume displacement	40 mL maximum

Site Preparation Checklist

✓ ElectroForce® DuraPulse™ HVT

	Enough bench/floor space for instrument and computer ☐ Table width: 1.5 m (5 ft) ☐ Table depth: 0.75 m (30 in)
	Instrument power is ☐ 100–120V, 50/60 Hz, 15A ☐ 200–230V 50/60 Hz, 10A
	☐ Deionized (DI) water ☐ PBS (phosphate buffered saline)
	☐ The Customer assumes responsibility for any damage that occurs when the instrument is moved by someone other than a trained TA Instruments Service Representative.

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.

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

_____ ___/___/___

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/

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