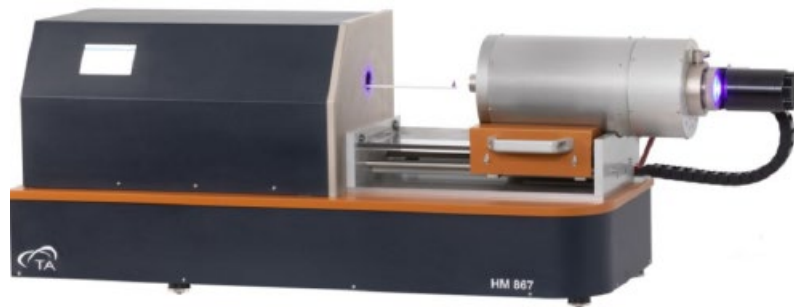


ODP868 & HM867 Dilatometers



Site Preparation Guide

Table of Contents

Table of Contents	2
Ideal Setup.....	3
System Components.....	4
Instrument Measurements.....	5
Utility Requirements	6-8
Laboratory	6
Power	6-7
Gas.....	7
Computer Requirements	8-9
Accessories	10–11
TCube Edge Circulator Model 5A.....	10
871770.001 NTX POWER UPS.....	11
Site Preparation Checklist	12
TA Instrument Offices.....	13

Ideal Setup



IDEAL PLACEMENT AND BENCH MEASUREMENTS

Select a location with adequate floor space for the instrument and a bench for the computer (controller) and any required accessories.



Table width: 4 m (13 ft)

Table depth: 1 m (40 in)

Table height: 0.7 m (28 in)

Table minimum weight allowed: 122 kg (269 lb)

System Components



MAIN SYSTEM COMPONENTS



- A. Instrument
- B. Computer (Controller)
- C. TCube Edge Circulator
- D. Instrument Transformer
- E. UPS System (P/N 871770.001)
- F. Printer (Optional; not supplied under UPS)

Instrument Measurements



MAIN INSTRUMENT – ODP868 & HM867

Height: 49 cm (19 in)

Width: 117 cm (46 in)

Depth: 38 cm (15 in)

Weight: 85 kg (188 lbs)



MAIN INSTRUMENT – HM867 NON-STANDARD

Height: 49 cm (19 in)

Width OPEN: 132 cm (52 in)

Width CLOSED: 112 cm (44 in)

Depth: 38 cm (15 in)

Weight: 90 kg (198 lbs)



Utility Requirements



LABORATORY

Item	Requirement
Temperature	20°C ± 1°C
Relative Humidity	5–80% (non-condensing)
Instrument Location Environment	<ul style="list-style-type: none">• Dust-free• Vibration-free• Away from exposure to direct sunlight and direct air drafts• Pollution Degree 2 Environment• Maximum altitude: 2000 m (6560 ft)



UPS (871770.001)

WORLD WIDE POWER OUTPUT (230 VAC 50 Hz)

Item	Requirement
UPS (871770.001)	ATTENTION: ODP868 and HM867 are very sensitive to voltage and currents fluctuations so it is necessary to connect the machine to a system that stabilizes current and voltage and generates a clean ground line. The UPS (871770.001) is an integral part of the HM867-ODP868 Optical Platform, and no connections to the instrument network are permitted without the UPS unit.
Instrument power supplied by UPS	<ul style="list-style-type: none">• 230V Single Phase, 50Hz, 10A L, N• Universal Schuko socket, 2P+E 10/16A 230V
Personal Computer, Monitor supplied under UPS	<ul style="list-style-type: none">• Personal Computer: 230 VAC, 5A, 50 Hz• Monitor: 230 VAC, 1A, 50 Hz



Chiller can be supplied by local voltage following Chiller Prerequisite Installations because it is not directly controlled by the Instrument.

Utility Requirements



GAS

Item	Requirement
Conditions	<ul style="list-style-type: none">• Must be dry• Must be free from oil, water, and dirt
Regulator	<ul style="list-style-type: none">• Gas pressure valve reducer 2 bar
Flowmeter	<ul style="list-style-type: none">• Masterflex Variable-Area Flowmeter with Valve, acrylic housing• 0.1 to 1.0 L/min
Input	<ul style="list-style-type: none">• 0.3 L/min maximum

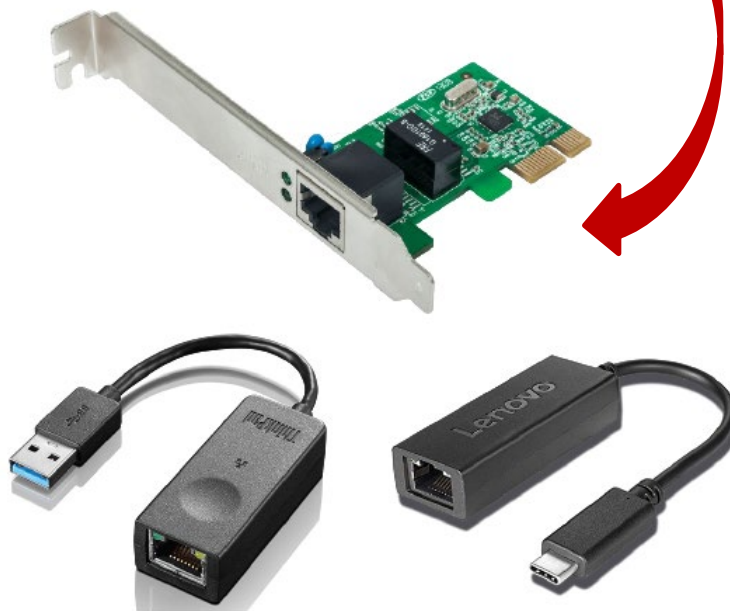


Computer Requirements



HARDWARE REQUIREMENTS



Item	Requirement
Processor	Intel® Core™ i5 or better
Memory	≥ 8 GB RAM
Hard drive	≥ 1 TB free space
Ethernet	Nr. 2 Ethernet connections: <ul style="list-style-type: none">• Second Ethernet can be Pci Express Nic Board• USB to Ethernet connection• USB c to Ethernet connection
Video Resolution	1920 x 1080 pixels



Computer Requirements



SOFTWARE REQUIREMENTS

Item	Requirement
Operating System	<ul style="list-style-type: none">• Windows 10 Pro & Enterprise• Home version not supported• English language
Internet	Recommended: internet connection to the PC that is connected to the instrument for remote assistance
Windows Updates	Turn off Windows power-saving settings  <u>Updates must be controlled.</u> Refer to the document “Controlling Windows Updates” on the TA Instruments website.
Network	<i>TA Instruments is not responsible for resolving issues associated with connections to your corporate network.</i>
Conflicts	<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>  <u>Antivirus not correctly set can conflict with the instrument communication there is high risk to damage the instrument.</u>

Accessory Requirements



TCUBE EDGE CIRCULATOR MODEL 5A MEASUREMENTS



Height: 28 cm (11 in)

Width: 33 cm (13 in)

Depth: 28 cm (11 in)

Weight: 11.3 kg (25 lbs)

Requirements



- 100–240 VAC at 50/60 Hz (3.5 A)
- Neutral to ground < 1 volt
- 8.5 A at 100 VAC, 3.5 A at 240 VAC
- Digital PID controller for heating and cooling



- Koolance (supplied with TCube)
- Maximum 30 L/hr
- Pressure 1 bar

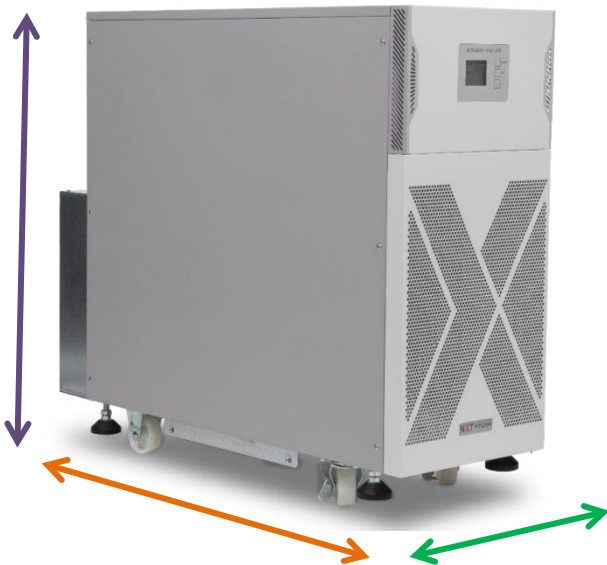


30L/min @ 20°C

Accessory Requirements



871770.001 NTX POWER UPS REQUIREMENTS



Height: 732 mm (28,8 in)

Width: 118 mm (11,8 in)

Depth: 737 mm (29,0 in)

Weight: 182 kg (402 lbs)

Requirements



- 110 VAC to 230 VAC, VAC IN max 2,6 KVA
- Instrument, personal computer, and LCD must be supplied by UPS

Site Preparation Checklist



ODP868 & HM867

	<p>Sufficient floor space and bench space:</p> <ul style="list-style-type: none"><input type="checkbox"/> Floor space:<input type="checkbox"/> Table space (w x d x h) 4 m (13 ft) x 1 m (40 in) x 0.7 m (28 in)<input type="checkbox"/> Table must be able to carry a <u>minimum</u> of 122 kg (269 lbs) <p>Laboratory conditions meet the following requirements:</p> <ul style="list-style-type: none"><input type="checkbox"/> Dust-free, vibration-free, away from exposure to direct sunlight/air drafts, in a pollution degree 2 environment<input type="checkbox"/> Temperature is 20°C ± 1°C<input type="checkbox"/> Relative humidity of 5–80% non-condensing<input type="checkbox"/> Maximum altitude is 2000 m (6560 ft)
	<ul style="list-style-type: none"><input type="checkbox"/> UPS power is 110VAC- 230VAC single or double phases, 50/60 Hz, 10A L, N , Earth Ground not necessary.
	<ul style="list-style-type: none"><input type="checkbox"/> Gas input 0.3 L/min maximum if used by the customer<input type="checkbox"/> Flow rate 0.1 to 1.0 L/min if used by the customer<input type="checkbox"/> Regulator 2 bar if used by the customer
	<ul style="list-style-type: none"><input type="checkbox"/> Computer meets all hardware requirements<input type="checkbox"/> Computer meets all software requirements
	<ul style="list-style-type: none"><input type="checkbox"/> 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.

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/>

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