Lambda 265 Water Jacketed Single Cell Holder Accessory Installation instructions

This instruction sheet describes the installation of this accessory which is used with the Lambda 265 Spectrophotometer.

NOTE: *Read these instructions before you install this accessory.*

Contacting PerkinElmer

Supplies, replacement parts, and accessories can be ordered directly from PerkinElmer, using the part numbers.

See our website:

http://perkinelmer.com

PerkinElmer's catalog service offers a full selection of high-quality supplies.

To place an order for supplies and many replacement parts, request a free catalog, or ask for information:

If you are located within the U.S., call toll free 1-800-762-4002, 8 a.m. to 8 p.m. EST. Your order will be shipped promptly, usually within 24 hours.

If you are located outside of the U.S., call your local PerkinElmer sales or service office.

Features

- Controls the temperature by circulator
- Suitable size for the standard cells
- Excellent durability

Figure 1 Lambda 265 Water Jacketed Single Cell Holder [P/N: N4103001]

PerkinElmer, 710 Bridgeport Avenue,
Shelton, CT 06484-4794, U.S.A

Produced in the USA.

Dimensions and Specifications

Physical Characteristic		Specification
Outline	Height (mm)	67
	Width (mm)	56
	Depth (mm)	80
Inner	Height (mm)	27.5
	Width (mm)	13
	Depth (mm)	14
Weight (kg)		0.12

Description

Connectable Cells

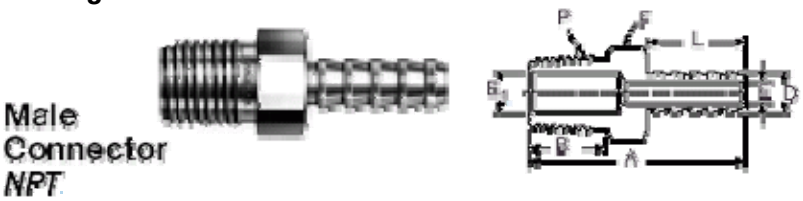
Description
Precision cell, 10 mm light path, Quartz, 3500 µℓ, ea
Flow-through cell, 10 mm light path, Quartz, 450 µℓ, ea
Flow-through cell, 10 mm light path, Quartz, 720 µℓ, ea
Sub-Micro cell, 10 mm light path, Quartz, with Stopper, 160 µℓ, ea
Ultra-Micro cell, 10 mm light path, Quartz, 40 µℓ, ea

Other cells are available upon request if what you want is not listed.

Configuration of Water Jacketed Single Cell Holder

Figure 2 Hose fitting

Hose fitting



Hose fitting Dimensions (inches)

A	B	D	E	E_1	F	L
1.08	0.38	0.15	0.08	0.19	7/16	0.40

***Note**: The recommended tube size and material are 3 mm-ID and 6 mm-OD silicon tube which has thermal resistance at higher than 100 °C*

Figure 3 Hose fitting (Model No.: [Swagelok] SS-2-HC-1-2 Element: 316 Stainless Steel)

Installation

1. Prepare the Lambda 265 Spectrophotometer to install this accessory.
2. Remove the existing cell holder.

Figure 4 Removing the existing cell holder

3. Connect the tube to the hose fitting.

Figure 5 Connecting the tube to the hose fitting

4. Install the water jacketed single cell holder in the sample compartment.

Figure 6 Installing the water jacketed single cell holder

5. Connect the power cord and communication cable to the ports located at the rear of the instrument.

Troubleshooting

When Liquid Leakage Occurs

When liquid is leaking between the hose fitting and the water jacketed single-cell holder.

1. Using a wrench, turn the hose fitting counter-clockwise to detach it from the Water Jacketed Single-Cell Holder.

2. Remove the Teflon which is wound around the hose fitting. Wind around a new length of Teflon tape.

3. Turn the hose fitting clockwise to attach it to the Water Jacketed Single-Cell Holder.

When liquid is leaking between the hose fitting and the tube

1. Replace the tube.

2. The replaced tube should be able to withstand a temperature at least 10°C higher than the experimental temperature.

3. Firmly fix the tube by winding Teflon tape around the connection.

When liquid is leaking from the water jacketed single-cell holder

1. Contact your PerkinElmer service representative since you need to replace the water jacketed single-cell holder.

When Constant Temperature is Not Maintained

Check if the circulator is working normally.

1. Check if the temperature is maintained normally in the circulator.
2. Check if liquid is transferred normally to the water jacketed single-cell holder through the tube.

Check the tube connection

1. Check if the tube is connected normally.

When the Tube Frequently Becomes Detached

Replace the tube

1. You should replace the tube as it is aged.
2. The replaced tube should be able to withstand a temperature at least 10℃ higher than the experimental temperature.

Fix with Teflon tape

1. Firmly fix the tube by winding Teflon tape around the connection.