

## ***Lambda 365 Water Jacketed Single Cell Holder Installation Instructions***

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This instruction sheet describes the installation of this accessory which is used with the Lambda 365 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 circulation of liquid
- Suitable size for the standard cells
- Excellent durability



**Figure 1 Lambda 365 Water Jacketed Single Cell Holder [P/N: N4101007]**



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

Produced in the USA.

## Dimensions and Specifications

Type	Specification
Outline Dimension (mm)	135(W) x 254(D) x 140(H)
Inner Dimension (mm)	13(W) x 13(D) x 34(H)
Weight (kg)	1.1

## Environmental Conditions for Operation

Specification	Comment
RT ~ 100°C	Controls the temperature using Circulator

## Configuration of Water Jacketed Single Cell Holder

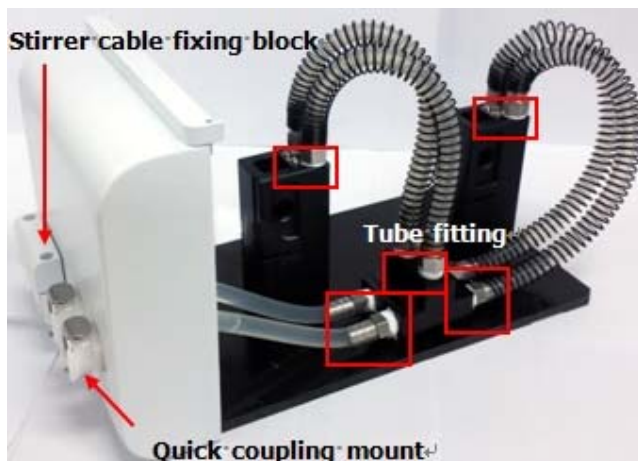


Figure 2 Lambda 365 Water Jacketed Single Cell Holder configuration

**NOTE:** *Magnetic Stirrer Assembly is optional. Magnetic stirrer should be purchased separately. For more details of magnetic stirrer, refer to the Automatic Magnetic Stirrer Assembly (P/N: 09931294) or Manual Magnetic Stirrer Assembly (Par No. 09931295) manual.*



Used to fix a cell holder, a base plate or a front plate for Lambda 365.  
Spare screws (2ea) are enveloped with the accessory.

Figure 3 Phillips round head screw with washer (M4 \*12L)



Figure 4 Male connector of quick coupling (2 ea)

## ***Installation***

1. Prepare the Lambda 365 Spectrophotometer to install this accessory.
2. Connect the power cord and the communication cable.
3. Remove the two Phillips round head screw with washer (M4\*12L) to disassemble the existing cell holder and base plate.



**Figure 5 Location of the Phillips round head screws with washer**

4. Pull out the cell holder and base plate by hand.



**Figure 6 Pulling out the cell holder and base plate**

5. Insert the Water Jacketed Single Cell Holder into the sample compartment.



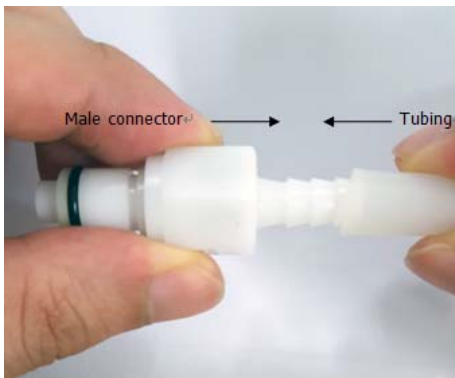
**Figure 7 Inserting the Water Jacketed Single Cell Holder**

6. Fix and tighten the Water Jacketed Single Cell Holder in the sample compartment with the Phillips round head screws.



**Figure 8 Screw location**

7. Assemble the tube with male connector of quick coupling.



**Figure 9 Assembling the tube with the male connector**

**NOTE:** The tube size is recommended 6 mm-ID and 10 mm-OD silicon tube which has thermal resistance at least 100°C.

8. Connect the male connector with the tube to the quick coupling mount of the front plate.



**Figure 10 Connecting the male connector to the quick coupling**

9. Turn on the power switch of the instrument.

## ***Troubleshooting***

### ***When liquid leakage occurs***

1. When liquid is leaking among the fittings.
  - Using wrench, turn the fitting counter-clockwise to detach from the Water Jacketed Single Cell Holder.
  - Remove the Teflon which is wound around the fitting. Wind a length of new Teflon tape around the fitting.
  - Turn the fitting clockwise to attach to the Water Jacketed Single Cell Holder.
2. When liquid is leaking between the quick coupling mount (or fitting) and the tube.
  - Replace the tube.
  - The replaced tube should be able to withstand a temperature at least 10°C higher than the experimental temperature.
3. When liquid is leaking between the quick coupling mount and the Water Jacketed Single Cell Holder or unknown spot.
  - Contact your PerkinElmer Service representative to replace the Water Jacketed Single Cell Holder.

### ***When constant temperature is not maintained***

1. Check if the circulator is working normally.
  - Check if the temperature is maintained normally in the circulator.
  - Check if liquid is transferred normally to the Water Jacketed Single Cell Holder through the tube.
2. Check the tube connection.
  - Check if the tube is connected tightly.

### ***When the tube frequently becomes detached***

1. Replace the tube.
  - You should replace the tube as it is aged.
  - The replaced tube should be able to withstand a temperature at least 10°C higher than the experimental temperature.
2. Fix with Teflon tape.
  - Firmly fix the tube by winding Teflon tape around the connection.

