

FlowCam® Accessories

Order replacement parts, consumables, add-ons, and software

FlowCam 8100, FlowCam 8400, FlowCam Cyano, FlowCam LO, FlowCam Nano, FlowCam 5000, FlowCam Macro, ALH for FlowCam



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Microsphere Standards for Size

These microsphere standards are used for calibrating your FlowCam for particle size.

10 μm Duke StandardTM for size 25 mL Bottle, Part #4210A

20 μm Duke StandardTM for size 25 mL Bottle, Part #4220A

50 μm Duke Standard™ for size 25 mL Bottle, Part #4250A

100 μm Duke Standard™ for size 25 mL Bottle, Part #4310A

Microsphere Standards for Concentration

NIST Traceable Microspheres in solution at verified concentration of 3000 p/mL for concentration calibration of your FlowCam.

10 µm Count-Cal™ concentration standard

15 mL Bottle, 3000 p/mL, Part #CC10

20 µm Count-Cal[™] concentration standard

15 mL Bottle, 3000 p/mL, Part #CC20

50 μm Count-Cal[™] concentration standard

15 mL Bottle, 3000 p/mL, Part #CC50

Autofocus Microspheres

Different objectives require different autofocus beads.

15 μm Duke Standard™ for size

10X and 20X autofocus 15 mL Bottle, Part #4K-15

100 µm Duke Standard™ for size

2X and 4X autofocus 15 mL Bottle, Part #4K-100





Red Dry Fluorescent beads used for checking the laser alignment (488 nm blue and 532 nm green lasers) and channel 1 fluorescence for FlowCam 8400. The beads need to be diluted in water so that the particles per used image (PPUI) is approximately 1.

Bottle of 0.1 g (15 μ m) red fluorescent beads, Part #36-4



Field-of-View Flow Cell Cleaning Kit

Biopharma ApplicationsPart #A1506

Regular cleaning of field-of-view flow cells is recommended. Before storing your FOV flow cell for a period of inactivity, clean and inspect the flow cell channel to ensure it is clear of debris.

This kit contains:

- Tergazyme® cleanser
- Syringe and filter
- Sterile cell strainer
- TechniCloth® wipe
- 2 luer lock threaded adaptors



Field-of-View Flow Cell Cleaning Kit

Aquatic ApplicationsPart #A1505

Regular cleaning of FOV flow cells is recommended. Before storing your FOV flow cell for a period of inactivity, clean and inspect the flow cell channel to ensure it is clear of debris.

This kit contains:

- Citrajet® cleanser
- Syringe and filter
- Sterile cell strainer
- TechniCloth® wipe
- 2 luer lock threaded adaptors







Pipette Tips

These pipette tips are used to introduce your sample into the FlowCam sample port and are compatible with an Eppendorf pipettor.

1 mL pipette tips Pack of 50, Part #NF501

2.5 mL pipette tips Pack of 25, Part #NF502

5 mL pipette tips Pack of 25, Part #NF505

10 mL pipette tips Pack of 20, Part #NF5010

Filter Mesh

Filtering your sample prior to analysis prevents flow cell clogging. Select the filter mesh with a pore size equal to your flow cell diameter. Sold in $12" \times 12"$ squares.

35 μm NITEX® filter mesh, Part #NM35 53 μm NITEX® filter mesh, Part #NM53 80 μm NITEX® filter mesh, Part #NM80 100 μm NITEX® filter mesh, Part #NM100 300 μm NITEX® filter mesh, Part #NM600 1000 μm NITEX® filter mesh, Part #NM1000

Cleanroom Wipes

These wipes can be used to clean up small liquid spills around the sample port.

Not suitable for cleaning your flow cells or objective lenses.

TechniCloth® cleanroom wipes

Pack of 1200, Part #TWTX604



FLOWCAM 8000 SERIES ACCESSORIES

FlowCam 8100 FlowCam 8400 FlowCam Cyano FlowCam LO







FlowCam 8000 Series Field-of-View Flow Cells

Field-of-View or FOV flow cells ensure the liquid passing through the flow cell is entirely encompassed within the camera's field of view.

50 μm FOV flow cell, (20X objective)
80 μm FOV flow cell, (10X objective)
100 μm FOV flow cell, (10X objective)
300 μm FOV flow cell, (4X objective)
600 μm FOV flow cell, (4X objective)
1000 μm FOV flow cell, (2X objective)

FlowCam 8000 Series Flow Cell Retainers

The flow cell retainer is a replacement part that holds the flow cell securely in the optical path. Red retainer screws that hold the retainer in place are also included.

FOV flow cell retainer

Part #C1251

FlowCam 8000 Series Replacement Tubing Kit

Part #A1161

The shorter piece of tubing screws into the top of the flow cell and connects to the sample port. The longer piece screws into the lower part of the flow cell and connects to the syringe manifold.

This kit contains:

- Upper flow cell Teflon® tubing
- Lower flow cell Teflon® tubing



Syringes

For use with internal or external syringe pumps on FlowCam 8000 systems. Common usage is listed for each size. Please inquire about the correct size for your application.

0.5 mL syringe

Part #10083, (20X objective, 50 μm flow cell)

1.0 mL syringe

Part #10084

(10X objective, 80 μm or 100 μm flow cell)

2.5 mL syringe

Part #10085, (FlowCam LO only)

5.0 mL syringe

Part #10086, (4X objective, 300 μm or 600 μm flow cell)

12.5 mL syringe

Part #10088, (2X objective, 1000 μm flow cell)



Continuous Flow Sample Port Kit

Part #A1507

This kit is recommended for large volume samples being run on FlowCam 8000 instruments using a 2X objective.

This kit contains:

- Silicone tubing
- 1-liter bottle
- Luer lock threaded adaptors
- Valves/connectors/adapters



FLOWCAM NANO ACCESSORIES







FlowCam Nano Flow Cells

These flow cells designed for FlowCam Nano instruments come individually wrapped and sterile for single-use.

60 μm flow cell, Part #C1727

FlowCam Nano Syringes

Flowcam Nano can be used with two syringe sizes that are highly accurate for small volumes. They are made of borosilicate glass, stainless steel plunger and fittings, and Teflon®.

100 μL syringe, Part #10081

250 μL syringe, Part #10082

FlowCam Nano Microsphere Standards

ThermoFisher NIST traceable microsphere standards. Concentration is $^{\sim} 1x10^9/mL$. These beads are used for focusing and sizing using the 40X objective lens in FlowCam Nano.

0.7 μm (700 nm) Duke Standard™ 15 mL bottle, Part #3K-700



FlowCam Nano Flow Cell Kit

Included in this kit are the most common consumable items for FlowCam Nano. The tubing connects the flow cell and sample port as well as the flow cell and the syringe manifold.

This kit contains:

- 3 flow cells
- Tubing & fittings



FlowCam Nano Immersion Oil Kit

Included in this kit are items required for dispensing immersion oil onto the FlowCam Nano flow cell.

This kit contains:

- 2 syringes
- 4 20-gauge syringe tips
- 15 mL bottle of immersion oil



FLOWCAM 5000 ACCESSORIES



FlowCam 5000 Flow Cell Cartridge

These disposable cartridges are designed for FlowCam 5000 instruments and are made with borosilicate glass.

50 μm x 1 mm flow cell, (20X Objective)

100 μm x 2 mm flow cell, (10X Objective)

300 μm x 3 mm flow cell, (4X Objective)



Syringes

For use with internal or external syringe pumps on FlowCam systems. Common usage is listed for each size. Please inquire about the correct size for your application.

0.5 mL syringe

Part #10083, (20X objective, 50 μm flow cell)

1.0 mL syringe

Part #10084, (10X objective, 80 or 100 μm flow cell)

5.0 mL syringe

Part #10086, (4X objective, 300 μm flow cell)









FlowCam Macro Flow Cells

Replacement borosilicate glass flow cells for your FlowCam Macro come in two size options. The flow cells are not considered disposable and are meant to be reused.

2 mm x 10 mm flow cell

Part #R-3002-F

5 mm x 10 mm flow cell

Part #R-3005-F

FlowCam Macro Flow Cell Retainers

These replacement retainers hold your FlowCam Macro flow cells and come in two sizes depending on the size of your flow cell. Replacement screws are also included.

Retainer for 2 mm x 10 mm flow cell

Part #FIT-MA-0384

Retainer for 5 mm x 10 mm flow cell

Part #FIT-MA-0382

FlowCam Macro Tubing

FlowCam Macro replacement tubing is offered for the connection to the entrance or exit line for the peristaltic pump, and for the connection between the flow cell and the sample port fitting.

Silicone tubing for peristaltic pump

(Ordered by linear foot)

Silicone tubing for flow cell

(Ordered by linear foot)



AUTOMATED LIQUID HANDLING GENERAL ACCESSORIES







Reagent Reservoir, 4-well

This reservoir plate has four wells. The wells can hold lab-grade water, detergent or buffer.

Reagent reservoir, 4-well

Part #89179-656

Reagent Reservoir, 1-well Low Profile

This reusable reservoir plate is a low-walled plate that can be used for lab grade water, detergent or buffer.

Reagent reservoir, 1-well, low profile

Part #47743-962

Microplate, 96-well

Standard 96 well plate with a maximum volume of 250 μ L. Use this plate for samples that will be dispensed into the ALH system.

Microplate, 96-well

Pack of 100, Part #82050-622







Microplate, 96-well Deep Well

Deep well plate for holding a maximum volume of 2 mL. Use this plate for samples that will be dispensed into the ALH system.

Microplate, 96-well, deep Part #10755-248

Disposable Polypropylene Robotic Reservoir

This disposable reservoir is similar to the reagent reservoir 4-well. It can hold lab grade water, detergent, or buffer for easy dispensing into the ALH system.

Disposable polypropylene robotic reservoir, Part #73590-390

Microplate Cover

This cover is used over the 96 well plate or any reservoirs to keep debris from falling into the plates.

Microplate cover

Pack of 3, Part #82050-827



ALH FOR FLOWCAM ACCESSORIES



epT.I.P.S.® Motion Racks 40 - 1000 µL

These racks are prefilled with 96 sterile pipette tips to be used in your ALH for FlowCam system.

epT.I.P.S.® Motion Racks 40-1000 μL Box of 10 packs, Part #0030015258



Tip Disposal Waste Container

This is a container where used pipette tips are disposed into from the ALH for FlowCam system.

Tip disposal waste container HDPE plastic, 1 gallon

Part #2123-0010



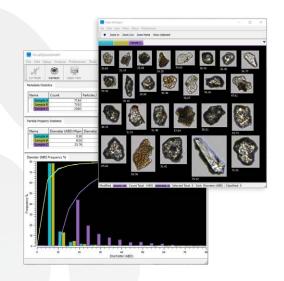
FLOWCAM ALH ACCESSORIES



Pipette Tip Rack

These racks are prefilled with 96 sterile pipette tips to be used in the FlowCam ALH system.

Pipette tips, 96 count, sterile Box of 10 packs, Part #89040-062



SOFTWARE LICENSES & UPGRADES







VisualSpreadsheet 6 Satellite License

VisualSpreadsheet® Version 6 Series satellite license for remote data analysis for 1-3 external computers (new purchase or upgrade from prior software license). Compatible with WIN 10 (64-bit) only.

VisualAl Software License

VisualAl™ is an Al-driven image analysis module for quantifying biopharmaceutical aggregates in protein formulations. Compatible with FlowCam 8100 and FlowCam LO instruments. A separate satellite license for VisualSpreadsheet 6 is required to install and run VisualAl.

VisualSpreadsheet 6 21 CFR Part 11 Compliance Package

Available for the FlowCam 8000 Series, FlowCam LO, and FlowCam Nano.



FLOWCAM VS ACCESSORIES





50 μm flow cell, qty 4, Part #FC50

100 μm x 1 mm flow cell, qty 4, Part #FC100x1

100 μm x 2mm flow cell, qty 6, Part #FC100x2

200 μm flow cell, qty 6, Part #FC200

300 μm flow cell, qty 6, Part #FC300

600 μm flow cell, qty 3, Part #FC600

800 μm flow cell, qty 3, Part #FC800

1000 μm flow cell, qty 3, Part #FC1000

2 mm x 2 mm flow cell, qty 3, Part #FC2000x2

(must filter sample with 2 mm mesh)

2 mm x 4 mm flow cell, qty 3, Part #FC2000x4

(not for use with C-70 or C-71 syringe pumps)

2 mm x 6 mm flow cell, qty 3, Part #FC2000x6

(not for use with C-70 or C-71 syringe pumps)



FlowCam VS Field-of-View Flow Cells

The FOV flow cells for FlowCam VS are made of borosilicate glass with an internal channel that is narrower than the camera's field of view, so that the entire width of the flow cell can be imaged.

$80\ \mu m$ FOV flow cell

(10X Objective), Part #FC80FV

300 µm FOV flow cell

(4X Objective), Part #FC300FV

600 µm FOV flow cell

(4X Objective), Part #FC600FOV

1000 µm FOV flow cell

(2X Objective), Part #FC1000FOV



Retainer for 50 $\mu m,\,100~\mu m,$ and 300 μm standard flow cells

Part #QCFC 300

Retainer for 600 µm standard flow cells

Part #QCFC 600

Retainer for 800 µm standard flow cells

Part #QCFC 800

Retainer for 1000 µm standard flow cells

Part #QCFC 1000

Retainer for 2 mm x 2 mm standard flow cells

Part #QCFC 2000

Retainer for 80 μm and 300 μm FOV flow cells

Part #QCFC FOV5

Retainer for 1000 µm FOV flow cells

Part #QCFC FOV10



Syringes

For use with internal or external syringe pumps on FlowCam systems. Common usage is listed for each size. Please inquire about the correct size for your application.

0.5 mL syringe

Part #10083, (20X objective, 50 μm flow cell)

1.0 mL syringe

Part #10084, (10X objective, 80 or 100 μ m flow cell)

5.0 mL syringe

Part #10086, (4X objective, 300 μm flow cell)

12.5 mL syringe

Part #10088, (2X objective, 600 μm flow cell)



FlowCam VS Tubing

Tubing should be replaced as part of your annual maintenance schedule.

0.16 cm (0.063 in) ID silicone tubing Part #06411-62

0.24 cm (0.094 in) ID silicone tubing Part #06411-63



Yokogawa Fluid Imaging Technologies

Yokogawa Fluid Imaging Technologies manufactures industry-leading particle analysis instrumentation based on digital imaging technology. Our flagship product, FlowCam, is the first automated particle analysis instrument to use digital imaging for measuring size and shape of microscopic particles in a fluid medium. FlowCam has been deployed in over 50 countries, supporting research, development, and environmental monitoring in the life sciences, materials research, and industrial applications.

