

Demountable Liquid Cells – For Versatile Pathlength Liquid Sampling



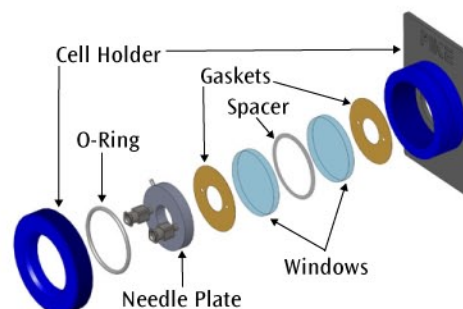
FEATURES

- Flexible window selection for optimizing spectral range and sample compatibility
- Flexible pathlength to optimize sample absorbance
- Demountable cell design for optimal cleaning of difficult samples
- Compatible with all FTIR spectrometers
- Temperature control version available (see page 101)

The PIKE Technologies Demountable Liquid Cell is ideal for qualitative and quantitative analysis of liquid samples where it is desirable to optimize the pathlength for varying samples. It is well suited for samples where it is useful to disassemble the cell for cleaning. A wide selection of window types and spacer pathlengths are available to cover mid-IR, NIR and far-IR spectral regions and sample composition from organic to aqueous.

The PIKE Technologies Demountable Liquid Cell is designed with a standard 2" x 3" plate for use with all FTIR spectrometers. The needle plate includes Luer-Lok™ fittings for easy syringe filling of the sample. The window size is 32 x 3 mm and the clear aperture of the cell is 13 mm.

An O-ring seal option of the demountable cell replaces the flat sealing gasket with two small O-rings to seal around the drilled window filling holes. This modified needle plate version is recommended for users with highly volatile, low surface tension samples and low pressure flow experiments.



Demountable liquid cell assembly layout.

ORDERING INFORMATION

DEMOUNTABLE LIQUID CELL HOLDERS

PART NUMBER	DESCRIPTION
162-1100	Demountable Liquid Cell Holder <i>Includes cell holder, gaskets and one complete set of spacers – select windows below</i>
162-1200	Demountable Liquid Cell Holder with O-ring Seal <i>Includes cell holder, gasket, perfluoroelastomer O-rings and one complete set of spacers – select windows below</i>

Notes: Requires selection of windows. Please select 2 syringes from the next column for filling the demountable liquid cell.

32 X 3 mm WINDOWS FOR DEMOUNTABLE LIQUID CELL (must select minimum of 1 Plain and 1 Drilled)

PART NUMBER		DESCRIPTION
PLAIN	DRILLED	
160-1147	160-1146	BaF ₂
160-1143	160-1142	CaF ₂
160-1137	160-1136	Ge
160-1132	160-1131	KBr
160-1126	160-1125	KRS-5
160-1122	160-1121	NaCl
160-5216	160-5215	Polyethylene
160-1159	160-1158	Si
160-1113	160-1112	ZnSe

Notes: Demountable Liquid Cell Holder with O-ring Seal (PN 162-1200) is recommended with polyethylene windows. For window compatibility please consult the Materials Properties table on page 128 of this catalog. Find additional window selections starting on page 114.

SPACERS FOR DEMOUNTABLE LIQUID CELL (optional)

PART NUMBER	PATHLENGTH (mm)
162-1210	0.015
162-1220	0.025
162-1230	0.050
162-1240	0.100
162-1250	0.200
162-1260	0.500
162-1270	1.000
162-1290	Assortment

Notes: Spacer pathlength packages above include 12 each of the spacers. The assortment package includes 2 each of the different pathlengths.

REPLACEMENT PARTS

PART NUMBER	DESCRIPTION
162-1104	Demountable Liquid Cell Needle Plate
162-1113	Demountable Alignment Caps (2 ea.)
162-1112	Nylon Leur Caps (2 ea.)
162-1300	Teflon Stoppers for Needle Plate (12 ea.)
162-1310	Teflon Gaskets (12 ea.)
162-1320	Teflon O-Rings (12 ea.)
161-0520	Glass Syringe, 1 mL
161-0521	Glass Syringe, 2 mL
161-0522	Glass Syringe, 5 mL

Note: For more options, please contact PIKE Technologies.