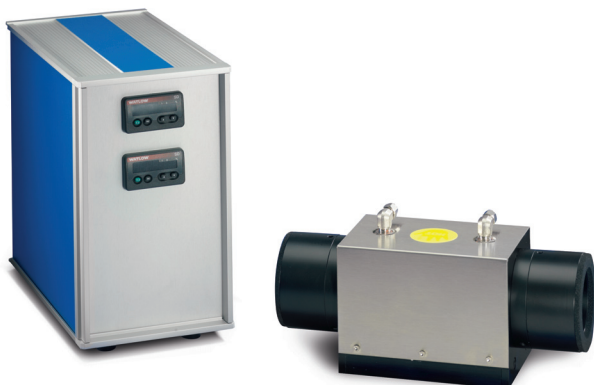


Heated Gas Flow Cell – For Streaming Gas Analysis



The PIKE Technologies Heated Gas Flow Cell is recommended for high-performance FTIR sampling of flowing gas samples. The beam-conforming design of the Heated Gas Flow Cell provides for minimum cell volume (38.5 mL) and a 100 mm pathlength, compatible with most FTIR spectrometers. This beam-conforming design also provides maximum IR throughput with no vignette of the IR beam. The gas cell may be heated up to 300 °C to prevent condensation of higher molecular weight gas species. The PIKE Technologies Heated Gas Flow Cell includes standard Swageloc fittings for connection to 1/8" tubing and its stainless steel composition is compatible with pressurized applications up to 100 psi.

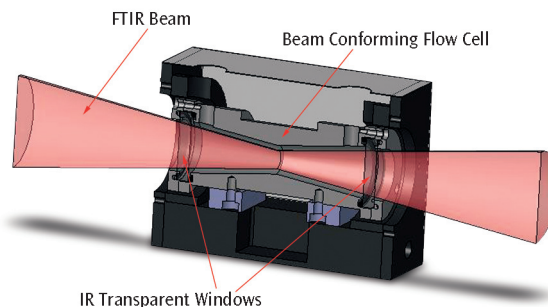
Temperature control is provided by either digital or digital PC controllers from PIKE Technologies. Complete specification of the Heated Gas Flow Cell requires selection of your choice of IR transparent windows – 38 mm x 6 mm.

FEATURES OF THE HEATED GAS FLOW CELL

- High IR throughput, minimum cell volume ideal for preserving flowing gas composition
- Temperature control to 300 °C
- Your choice of IR transparent windows – user changeable
- Compatible with most FTIR spectrometers

HEATED GAS FLOW CELL SPECIFICATIONS

Temperature Range	Ambient to 300 °C
Accuracy	+/- 0.5%
Voltage	24 VAC
Sensor Type	3 wire Pt RTD (low drift, high stability)
Controllers	
Input Voltage	110/220 V, switchable
Output Voltage	10 A/24 VAC



Optical geometry for PIKE Technologies Heated Gas Flow Cell

ORDERING INFORMATION

Heated Gas Flow Cell

PART NUMBER	DESCRIPTION
162-20XX	Heated Gas Flow Cell <i>Includes: Cell, Viton O-Rings, and FTIR mounting plate</i>

Notes: Please select the XX code for your FTIR – found on the fold out on the last page of this catalog.

Temperature Controllers (must select one)

PART NUMBER	DESCRIPTION
076-1410	Digital Temperature Control Module, PC Control
076-1210	Digital Temperature Control Module

Notes: Digital Temperature Control Module, PC Control includes PIKE TempPRO software.

IR Transparent Windows for Heated Gas Flow Cell (select minimum of 2)

DESCRIPTION 38 X 6 MM	PART NUMBER
BaF ₂	160-1322
KBr	160-1320
KRS-5	160-1343
ZnSe	160-1329

Notes: For window compatibility please consult the Materials Properties information on page 105 of this catalog. For additional window selections please see the windows page of this catalog.

Heated Gas Flow Cell Replacement Parts

PART NUMBER	DESCRIPTION
162-2009	Viton O-Rings, (2 each), max temp. 200 °C
162-2309	High Temperature O-Rings, (1 each), max temp. 325 °C

Notes: For other options for the Heated Gas Flow Cell, please contact PIKE Technologies. Gas Cell requires 4 O-rings.