

Ammonite8 - Spiral Electrochemical Flow Cell Specifications

Serial Number	A1336
Part number	74660

General

Volume	mL	1
Dimensions (diameter x height)	mm	110 x 60
Tube connections	inches	1/8"
Working pressure		ambient
Working temperature range		Ambient to 60 °C
Weight	kg	1
Design Flow Rate	mL/min	0.1
Residence time	min	10

Mechanical

Mechanism		Adjustable clamp assembly
No of plates		2
	<i>Clamp Plate Upper</i>	1
	Material	Acrylic sheet
	<i>Clamp Plate Lower</i>	1
	Material	Aluminium
Screws for securing the assembly		7
Material		316 stainless steel
Centre screw (<i>tighten this first in the assembly</i>)		1
	Size metric	M8 x 50
	Assembly tightening torque Nm	10
Outside screws		6
	Size metric	M6 x 35
	Assembly tightening torque Nm	4
		Gasket
	Gasket material (Standard)	FFKM
	Part number	74610
	Gasket material (Optional)	EPDM
	Part number	84950

SealsCathode

Material		316 stainless steel
Cylinder diameter	mm	85
Cylinder thickness	mm	8
Electrode connection, screw		M3
	Length mm	30
Tube connections, inlet and outlet		316 stainless steel
	Material	316 stainless steel
	Size, OD inches	1/8"
	Size, ID mm	1.8

Anode

Electrode		Carbon/PVDF
	Material	Carbon/PVDF
	Diameter mm	85
	Thickness mm	4
Backing Plate		Copper 101
	Material	Copper 101
	Diameter mm	85
	Thickness mm	3
	Total Area cm2	56.72
Electrode connecting point		1
	Material	Brass
	Length mm	M3 countersunk 30

Electrolyte

Groove Length	mm	1000
Groove Width	mm	2
Groove Height	mm	0.5
Channel Depth with Gasket (1.0 mm thick)	mm	0.5
Volume	mL	1.00
Design Flow Rate	mL/min	0.1
Residence time	min	10

Temperature Sensor option

	inches	1/8"
<u>Environment</u>		
Pressure	bar	Ambient
Certification		CE
Protection class according to DIN EN 60529		IP 20

*Tools

	Torque wrench	RS components 575-649
		6mm Hexagonal x 50mm
	3/8" Square Drive Socket Bit	M6 5mm Hexagonal x 50mm