

# Sequencing Units

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Scie-Plas DNA sequencing units are designed with cabinet style doors and a safety lid to provide easy access for sample loading without compromising safety. All components are shielded and the unit cannot operate until the doors are closed and the safety lid is in place. A combination of rubber mounted, precision machined aluminium heat transfer plates, float glass plates and clamps, ensure excellent heat distribution and straight sample migration through the gel. A drainage port in the upper buffer tank facilitates emptying of the running buffer.

An optional fan kit provides adjustable thermostatic control of the gel and enables gels to be run at higher speeds. With the fan kit a 20 x 50cm, 0.35mm 6% gel can be run at 55°C within 1 hour 45 minutes (including the pre-run).

Safety cover with integral connectors locates one way only - this prevents access to live components

Cabinet style doors for easy access and sample loading - no power can be applied until the safety doors are closed

Removable lower buffer tank for easy cleaning

Optional thermostatic fan kit allows gels to be run at higher speeds

## POWER CONNECTION

Gold plated terminals resist corrosion.

Recessed connectors, integral with the safety lid isolate power when lid is removed

## ELECTRODES

Of pure platinum, the electrodes are both protected and user-replaceable

## POWER LEADS

All leads are double insulated and connectors have CE standard 2mm fixed shrouds to prevent finger contact.

## TWO GEL SIZES

20 x 50 cm and 33 x 41cm

## BUFFER SEALS

Easily replaced - double format in silicone dovetail for leak-free sealing and easy cleaning

## DRAINAGE TAP

Allows easy and safe emptying of upper buffer tank

## HEAT SINK PLATE

A heavy duty aluminium back plate helps disperse heat evenly and results in gels free from 'smiling' and lane distortion

## PLATE CLAMPS

Screw clamps for easy plate assembly

## GEL THICKNESS

Float glass plates ensure uniform gel thickness and straight sample migration

## COMBS

An extensive range of combs of various thicknesses are available including a series of sharks tooth models



## SEQ-2050

Gel dimensions (W x L)	20 x 50cm	Max buffer volume, upper	800ml
		lower	800ml
Dimensions (W x L x H)	17.5 x 39 x 56cm	Combs available:	
		No. of samples	1, 10, 18, 24, 36, 48
Max. sample capacity	96	Thicknesses	0.25, 0.35, 0.75, 1, 1.5, 2mm

## SEQ-3341

Gel dimensions (W x L)	33 x 41cm	Max buffer volume, upper	700ml
		lower	700ml
Dimensions (W x L x H)	17.5 x 51.5 x 48cm	Combs available:	
		No. of samples	40, 48, 60, 80, 96
Max. sample capacity	48	Thicknesses	0.25, 0.35mm

## Ordering Information

<b>DNA Sequencing Gel Unit, 20 x 50cm with Integral Aluminium Heat Sink Plate</b>	<b>SEQ2050</b>
Includes: 2 x Notched Glass Plate, 2 x Plain Glass Plate, 1 x Set of 0.35mm Melinex Spacers, 1 of 0.35mm Melinex 48 Sample Shark's Tooth Comb	
Notched Glass Plate, pk/2	SEQ2050-NG
Plain Glass Plate, pk/2	SEQ2050-PG
0.25mm Spacer Set, 2 x 50cm (W x L)	SEQ50-SM0.25
0.35mm Spacer Set, 2 x 50cm (W x L)	SEQ50-SM0.35
Silicone Rubber Gasket	SEQ20-SG
<b>DNA Sequencing Gel Unit, 33 x 41cm with Integral Aluminium Heat Sink Plate</b>	<b>SEQ3341</b>
Includes: Includes: 2 x Notched Glass Plate, 2 x Plain Glass Plate, 1 x Set of 0.35mm Melinex Spacers, 1 of 0.35mm Melinex 48 Sample Shark's Tooth Comb.	
Notched Glass Plate, pk/2	SEQ3341-NG
Plain Glass Plate, pk/2	SEQ3341-PG
0.25mm Spacer Set, 2 x 41cm (W x L)	SEQ41-SM0.25
0.35mm Spacer Set, 2 x 41cm (W x L)	SEQ41-SM0.35
Silicone Rubber Gasket	SEQ33-SG
Thermostatic Fan, for SEQ2050 and SEQ3341	* FHS-KIT
Replacement Pt Wire, for SEQ2050 and SEQ3341	PT-02

\* For 110 VAC models, please indicate by adding suffix 'A' to the ordering code

# Vertical Gel Unit Combs

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## Specifications and Ordering Information

Part Number	Thickness (mm)	No. of Samples	Tooth Width (mm)	Max Spacing (mm)	Sample Vol. (µl)
<b>10cm Wide Combs</b> , suitable for: Mini Vertical, V10-SET; Compact Dual Cooled Mini Vertical, V10-CDC					
V10-C0.75-1D	0.75	1	70	n/a	525
• V10-C0.75-8MC	0.75	8	6	3	45
V10-C0.75-10	0.75	10	4	3	30
V10-C0.75-12	0.75	12	3.75	2.25	28
• V10-C0.75-16MC	0.75	16	2.5	2	18
V10-C0.75-20	0.75	20	2	1.5	15
V10-C1-1D	1	1	70	n/a	700
• V10-C1-8MC	1	8	6	3	60
V10-C1-10	1	10	4	3	40
V10-C1-12	1	12	3.75	2.25	37
• V10-C1-16MC	1	16	2.5	2	25
V10-C1-20	1	20	2	1.5	20
V10-C1.5-1D	1.5	1	70	n/a	1050
• V10-C1.5-8MC	1.5	8	6	3	90
V10-C1.5-10	1.5	10	4	3	60
V10-C1.5-12	1.5	12	3.75	2.25	56
• V10-C1.5-16MC	1.5	16	2.5	2	37
V10-C1.5-20	1.5	20	2	1.5	30
V10-C2-1D	2	1	70	n/a	1400
• V10-C2-8MC	2	8	6	3	120
V10-C2-10	2	10	4	3	80
V10-C2-12	2	12	3.75	2.25	75
• V10-C2-16MC	2	16	2.5	2	50
V10-C2-20	2	20	2	1.5	40

**20cm Wide Combs**, suitable for: 20cm Wide Dual Cooled Mini, Vertical V10-WCDC; Standard Single Plate, V20-SET; Compact Dual Cooled Plate Vertical Gel Unit, V20-CDC and V20-HCDC; DNA Sequencing, SEQ-2050

Part Number	Thickness (mm)	No. of Samples	Tooth Width (mm)	Max Spacing (mm)	Sample Vol. (µl)
V20-C0.25-24	0.25	24	4.75	2	11
• V20-C0.25-36MC	0.25	36	2.5	2	6
V20-C0.35-24	0.35	24	4.75	2	16
• V20-C0.35-36MC	0.35	36	2.5	2	8
V20-C0.75-1D	0.75	1	152	n/a	1140
V20-C0.75-10	0.75	10	11	5.5	82
• V20-C0.75-18MC	0.75	18	6	3	45
V20-C0.75-24	0.75	24	4.75	2	35
• V20-C0.75-36MC	0.75	36	2.5	2	18
V20-C0.75-48	0.75	48	2.35	1	17
V20-C1-1D	1	1	152	n/a	1528
V20-C1-10	1	10	11	5.5	110
• V20-C1-18MC	1	18	6	3	60
V20-C1-24	1	24	4.75	2	47
• V20-C1-36MC	1	36	2.5	2	25
V20-C1-48	1	48	2.35	1	23
V20-C1.5-1D	1.5	1	152	n/a	2280
V20-C1.5-10	1.5	10	11	5.5	165
• V20-C1.5-18MC	1.5	18	6	3	90
V20-C1.5-24	1.5	24	4.75	2	71
• V20-C1.5-36MC	1.5	36	2.5	2	37

• multichannel pipette compatible

Part Number	Thickness (mm)	No. of Samples	Tooth Width (mm)	Max Spacing (mm)	Sample Vol. (µl)
V20-C1.5-48	1.5	48	2.35	1	35
V20-C2-1D	2	1	152	n/a	3040
V20-C2-10	2	10	11	5.5	220
• V20-C2-18MC	2	18	6	3	120
V20-C2-24	2	24	4.75	2	95
• V20-C2-36MC	2	36	2.5	2	50
V20-C2-48	2	48	2.35	1	47

**33cm Wide Combs** suitable for: DNA Sequencing, SEQ-3341

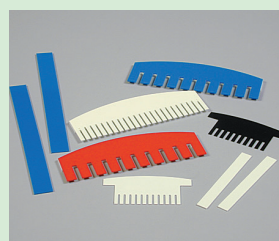
Part Number	Thickness (mm)	No. of Samples	Tooth Width (mm)	Max Spacing (mm)	Sample Vol. (µl)
V33-C0.25-40	0.25	40	4	3	5
• V33-C0.25-60MC	0.25	60	2	2.5	2.5
V33-C0.25-80	0.25	80	2.5	1.1	2.5
V33-C0.35-40	0.35	40	4	3	7
• V33-C0.35-60MC	0.35	60	2	2.5	3.5
V33-C0.35-80	0.35	80	2.5	1.1	4

**20cm Wide Shark's Tooth Combs** suitable for: 20cm Wide Dual Cooled Mini, V10-WCDC; Standard Single Plate, V20-SET; Compact Dual Cooled Plate, V20-CDC and V20-HCDC; DNA Sequencing, SEQ-2050

Part Number	Thickness (mm)	No. of Samples	Tooth Width (mm)	Max Spacing (mm)	Sample Vol. (µl)
SC2-M0.25-24	0.25	24	0.25	5.6	7
• SC2-M0.25-30MC	0.25	30	0.25	4.5	5
SC2-M0.25-36	0.25	36	0.25	4	5
SC2-M0.25-48	0.25	48	0.25	2.8	3
SC2-M0.35-24	0.35	24	0.25	5.6	9
• SC2-M0.35-30MC	0.35	30	0.25	4.5	7
SC2-M0.35-36	0.35	36	0.25	4	7
SC2-M0.35-48	0.35	48	0.25	2.8	5

**33cm Wide Shark's Tooth Combs** suitable for: DNA Sequencing, SEQ-3341

Part Number	Thickness (mm)	No. of Samples	Tooth Width (mm)	Max Spacing (mm)	Sample Vol. (µl)
SC33-M0.25-48	0.25	48	0.25	5.6	7
• SC33-M0.25-60MC	0.25	60	0.25	4.5	5
SC33-M0.25-96	0.25	96	0.25	2.8	3
SC33-M0.35-48	0.35	48	0.25	5.6	7
• SC33-M0.35-60MC	0.35	60	0.25	4.5	7
SC33-M0.35-96	0.35	96	0.25	2.8	5



Scie-Plas manufacture the widest range of electrophoresis accessories in the world, specialising in standard and custom made combs. In order to easily match sets of combs and spacers of the same thickness, Scie-Plas now manufacture all of their combs and spacers to a colouring system.

0.25mm - Natural; 0.35mm - Natural; 0.75mm - Black; 1mm - White; 1.5mm - Red; 2mm - Blue