



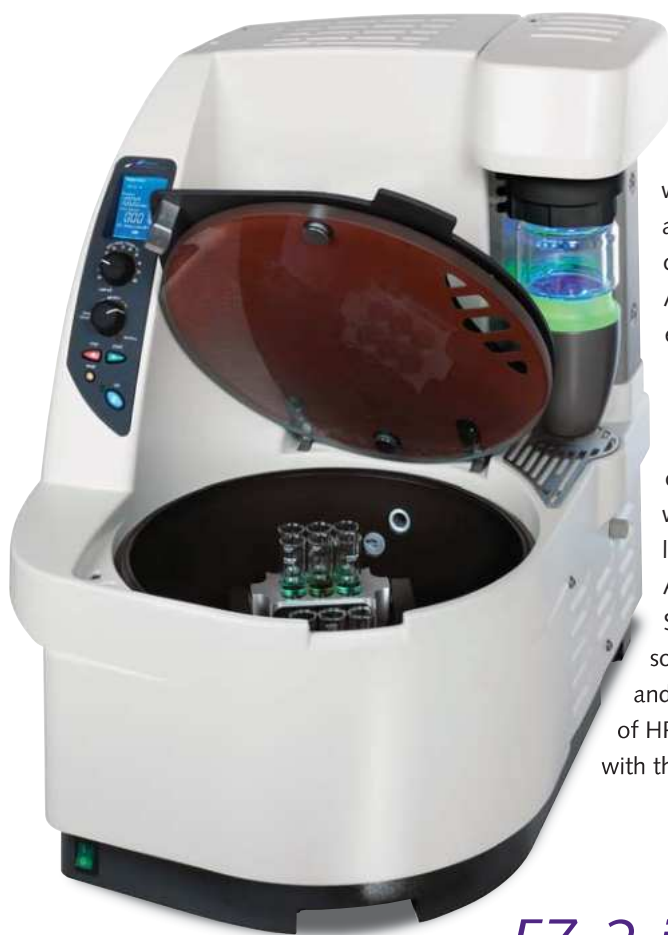
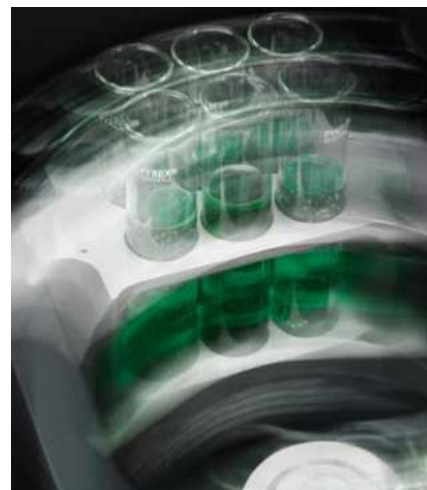
EZ-2 personal solvent evaporator



- All-in-one compact design saves valuable bench space
- Easier to use than a rotary evaporator
- Smart evaporation software gives great results every time
- Advanced technology offers total sample protection
- Versatile design accommodates a wide choice of sample types
- Easy maintenance contributes to low cost of ownership

Everything a modern evaporator should be – and more

The EZ-2 series draws fully on the expertise of Genevac's engineers and the experiences of many scientists in the laboratory. Using advanced evaporation science, it has been designed specifically for solvent removal in life science research, be that concentration, drying or lyophilisation of samples. Genevac's long experience in vacuum engineering has resulted in the creation of a compact concentrator combining great performance, ease of use and compatibility with all commonly used solvents and acids.



The innovative design of the EZ-2 delivers many advantages to life science laboratories with solvent evaporation and sample preparation or concentration needs. At the heart of the evaporator are a range of robust, solvent resistant, oil free vacuum pumps and the high efficiency, defrost-free SpeedTrap™, which traps all solvents as liquids – even water. Automatic draining of the SpeedTrap™ enhances solvent recovery further, and makes fast lyophilisation of HPLC fractions possible with the EZ-2 Elite.

To enable all users to achieve excellent results, the EZ-2 has been made easier to use than a rotary evaporator. In addition to accommodating many more samples, it can operate entirely unattended. Set the temperature, select the solvent type, and press Start. The EZ-2 does the rest for you, controlling the vacuum conditions, gradient and heater. Once the samples are dry, or the concentration end point is reached, the system can stop automatically.

Genevac's patented Dri-Pure® sample protection system prevents cross-contamination and sample loss due to bumping and is fitted as standard on the EZ-2. Methods on the EZ-2 can be optimised in collaboration with your local Genevac representative to help you achieve even better results. There is no need for special training – you simply load, set and walk away.

EZ-2 is simply the most compact high performance sample concentrator available

The most compact high performance sample concentrator



- Dri-Pure® protects against sample 'bumping' while the SampleShield system prevents overheating
- Compatible with most commonly used solvents and acids, including TFA with low-cost option for use with hydrochloric acid and nitric acid
- High capacity H-shaped rotor design takes flasks, tubes, vials, reaction blocks, microtitre plates and SampleGenie (see Accessories brochure)
- Ultra-compact design, with integrated components, saves precious bench space
- Quiet operation from precision direct drive rotor with out-of-balance and thermal cut-outs as standard
- Standard, Plus and Envi models have integrated high efficiency solvent resistant diaphragm pumps. Elite has external dry scroll pump



Following the three steps shown here enables a first time user to set a safe temperature and select the optimum evaporation programme.

Methods names are displayed on the screen. Working with your local Genevac representative, new methods can be quickly and easily created and optimised in the laboratory to further enhance performance (EZ-2 Envi, Plus and Elite). For further details, go to www.spscientific.com/genevac

Operating the EZ-2 is as simple as 1, 2, 3. Load your samples and close the lid. Then:

- 1 Select sample protection temperature
- 2 Select solvent type/method
- 3 Press Start

... and walk away while the EZ-2 dries/concentrates or lyophilises your samples safely, smoothly and securely.

Dri-Pure® activates automatically when required and the system stops when the samples are dry / concentrated. Alternatively, a timed method may be set. The Pause button enables samples to be checked without disturbing the automatic programme. For safety, the lid only opens when the rotor has stopped. Out-of-balance and thermal cut outs are standard.

The revolutionary SpeedTrap™



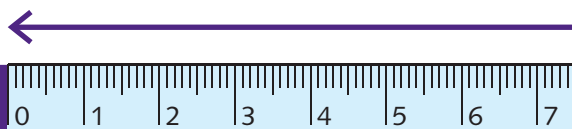
The EZ-2 is fitted with an enhanced version of Genevac's revolutionary SpeedTrap. This highly chemically resistant cold trap is designed to condense solvents, in order to protect the environment, and help to speed evaporation. The SpeedTrap has a nominal operating temperature of -35°C (minimum temperature -50°C) to enable it to catch the most volatile solvents. However, it does not freeze the condensed solvent, even when working with water. Solvents collect in the insulated, plastic coated glass vessel, enabling the user to check the progress of evaporation and determine when the trap should be emptied. The glass vessel is removed by a quarter turn, allowing the solvent to be poured



directly into the waste container. Replace the vessel with a quarter turn, and the EZ-2 is ready to run again.

Vacuum pumps

Genevac only uses oil free vacuum pumps; there are two types depending on the duty and level of vacuum required. The ILMVAC pump with PTFE diaphragms and fittings to resist attack by even the most aggressive solvents is used in the EZ-2 Standard, Envi and Plus. These pumps are designed for long life, quiet running and high performance. Should the pump ever need attention, it can be easily removed for inspection or replacement. The Genevac model of the Scroll pump is used on the EZ-2 Elite. This pump delivers deeper vacuum than the diaphragm pump and is optimised for use with a wide range of solvents and acids.



Method	Details	S	E	P	T
Very Low BP	Use for DCM, THF, Chloroform	✓	✓	✓	✓
Very Low BP mix		✓	✓	✓	✓
Low BP		✓	✓	✓	✓
Low BP mix		✓	✓	✓	✓
Medium BP				✓	
Medium Low BP mix				✓	
High BP					✓
High Low BP mix					✓
Aqueous		✓	✓	✓	✓
Aqueous Ammonia	NH ₃ or HCl when dissolved in water or MeOH	✓		✓	✓
HPLC Fractions		✓		✓	✓
HPLC Lyo					✓
Centrifuge only		✓	✓	✓	
Envi method 1	2 ramps for DCM volatile mixtures		✓		
Envi method 2	EtAc with solvent keep		✓		

S = EZ-2 Standard E = EZ-2 Envi P = EZ-2 Plus T = EZ-2 Elite



A low-cost option is available for the EZ-2 Standard, Plus and Elite for use with concentrated hydrochloric acid. Key elements of the system are engineered in Hastelloy®, glass or PTFE, to provide full protection against these acids. This 'HCl option' must be specified when ordering, as it cannot be retrofitted. The EZ-2 Plus can also be used for evaporation of concentrated Nitric Acid – a task which cannot be performed on any other EZ-2.



When working with highly explosive solvents, such as diethyl ether or pentane, the Inert Gas Purge (IGP) system is mandatory. The IGP flushes all the air out of the system before the evaporation process starts, replacing it with an inert gas – nitrogen or argon. Additionally, the IGP system fills the system with inert gas when the evaporator stops, and can be used to keep sensitive samples under a gas blanket until removed by the operator. Available on all models.

Choosing the right model

There are four EZ-2 models, Standard, Envi, Plus and Elite, each suited to a different application:



EZ-2 Standard

Suitable for water and volatile solvents with boiling point up to 120°C



EZ-2 Envi

Suitable for volatile solvents, where specialised methods are required to prepare samples for analysis.



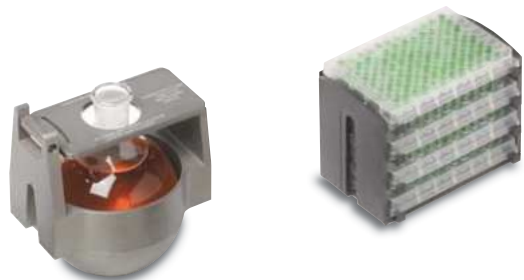
EZ-2 Plus

Recommended for more difficult solvents with higher boiling points, as it is equipped with chamber heating and a more powerful pump. Suitable for water and HPLC fractions.



EZ-2 Elite

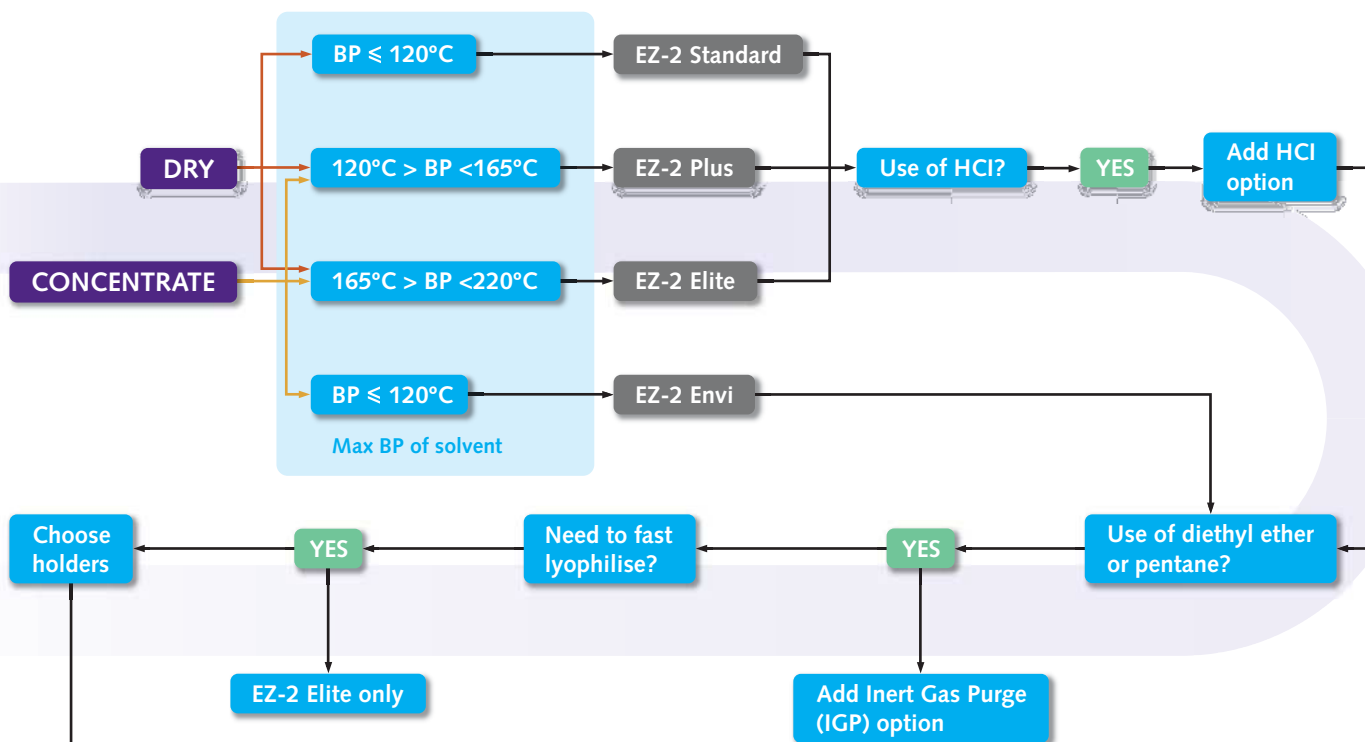
For the highest boiling point solvents, enhanced solvent recovery, improved final drying of stubborn samples and fast lyophilisation of HPLC fractions.



CONDENSER TRAP AND PUMP ARE BUILT-IN –



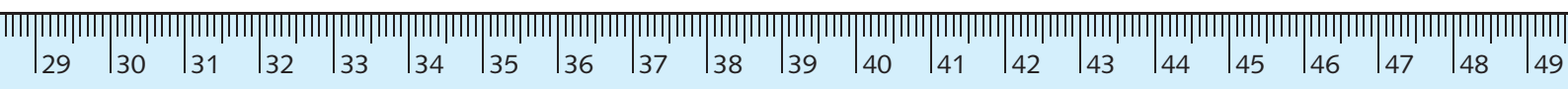
Choose your EZ-2



Please visit www.spscientific.com/genevac for an accessories brochure listing the full range of sample holders. Custom sample holders can be made upon request.



YET THE EZ-2 STILL SAVES PRECIOUS BENCH SPACE



Tough assignment? Send in the Elite

EZ-2 Elite SpeedTrap

The SpeedTrap on the EZ-2 Elite works just like the other EZ-2 models but with the added benefit of automatic defrost and drain (AD&D) technology. The EZ-2 controls the SpeedTrap and the new Elite solvent collection vessel to enable mid-method defrosting and draining. Controlled draining enables very high levels of solvent recovery to be achieved even when evaporating mixtures of solvents with widely varying boiling points, e.g. DMSO and methanol. On the EZ-2 Elite, the methanol can be collected, drained to the solvent waste and then the DMSO evaporated. Similarly, when working with HPLC fractions, higher levels of dryness can be achieved by draining the volatile organic solvent before tackling the water, allowing full vacuum to be achieved during final drying. With the EZ-2 Elite SpeedTrap jar, the Genevac LyoSpeed™ method can now be used.



The Scroll pump used with the EZ-2 Elite delivers deeper vacuum than the diaphragm pumps found in the EZ-2 Standard, Envi and Plus.

High boiling point solvents

>165°C

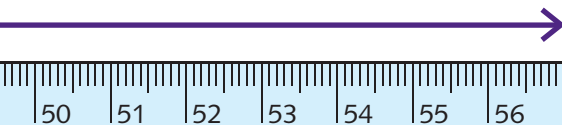
Solvents with a boiling point above

165°C may be dried on the EZ-2 Elite. The use of the Genevac Scroll pump and the internal enhancements to heat vapour ducts and system components enable the evaporation of solvents like DMSO and NMP, which are not permitted in the other EZ-2 models. These enhancements cause such difficult solvents only to condense in the SpeedTrap, and not anywhere else! Solvents with a boiling point below 165°C and above 120°C must be used in the EZ-2 Plus or Elite, but not in the EZ-2 Standard or Envi.

Fast lyophilisation

LyoSpeed

The Genevac LyoSpeed™ method, or fast lyophilisation, was developed on the Genevac HT series evaporators for fast lyophilisation of HPLC fractions, mainly water and acetonitrile. The method controls the boiling of the volatile organic solvent using Dri-Pure, removing it from the samples. Some of the water is then evaporated from the samples and the remaining 3ml to 5ml of water is lyophilised to achieve a dry powder. Dry powders can be easier to weigh and redissolve than a dry film, and so are preferred for some applications.



Actual width of the EZ-2
(excluding Catchpot)

Mechanical Data

	Standard / Envi	Plus	Elite
Max RPM	2000	2000	2000
Max G	500	500	500
Drive system	Direct	Direct	Direct
Max Sample load (including swings)	1.5 kg	1.5 kg	1.5 kg
Max. imbalance	40 g	40 g	40 g
IR lamps (number)	1	1	1
Vacuum System			
Pressure display	0-1200 mbar	0-1200 mbar	0-1200 mbar
Pressure control	automatic, 10 mbar - atmosphere	automatic, 2 mbar - atmosphere	automatic, 0.5 mbar - atmosphere
Bump protection	Yes	Yes	Yes
System ultimate pressure	10 mbar	2 mbar	0.5 mbar
Auto vacuum vent valve	Yes	Yes	Yes
Temperature controls			
Temperature control range	Ambient to 80°C	Ambient to 80°C	Ambient to 80°C
Temperature control accuracy	+/- 2.5°C	+/- 2.5°C	+/- 2.5°C
Temperature sensing	by SampleShield infra red pyrometer	by SampleShield infra red pyrometer	by SampleShield infra red pyrometer
Temperature display range	0° to + 80°C	0° to + 80°C	0° to + 80°C
Chamber temp. range	Ambient (Ambient to 60°C)	Ambient (Ambient to 60°C)	Ambient (Ambient to 60°C)
End of run determination	Automatic	Automatic	Automatic
Condenser Data			
Condenser temperature	Minimum -50°C; Nominal operating temperature -35°C	Minimum -50°C; Nominal operating temperature -35°C	Minimum -50°C; Nominal operating temperature -35°C
Condenser power	70 Watts max load	70 Watts max load	70 Watts max load
Useable capacity – vacuum pot	1 litre	1 litre	∞
Materials – condenser pots	Vacuum insulated Borosilicate glass	Vacuum insulated Borosilicate glass	Vacuum insulated Borosilicate glass
Condenser coils	FEP coated	FEP coated	FEP coated
Refrigerant gas	R404A GWP=3922	R404A GWP=3922	R404A GWP=3922
Refrigerant charge	0.070 kg	0.070 kg	0.070 kg
CO ₂ e	0.27454 tonnes	0.27454 tonnes	0.27454 tonnes
Solvent compatibility:			
Boiling points	Up to 120°C	Up to 165°C	Up to 220°C
Including: alcohols, DCM/methylene chloride, ethyl acetate, water, TFA, DMSO	Yes	Yes	Yes
DMF	No	No	Yes
HCl	No	Yes	Yes
HNO ₃	EZ-2 standard, only with HCl option	Only with HCl option	Only with HCl option
Diethyl ether	No	Only with HCl option	No
	Only with inert purge option	Only with inert purge option	Only with inert purge option
Dimensions			
Width (max)	597mm (570mm without catchpot)	597mm (570mm without catchpot)	570mm (without pump)
Depth (max)	645 mm	645 mm	645 mm
Height (max)	700mm	700mm	700mm
Weight	82 kg	88 kg	108 kg

Services

Power supply – 120V (±10%), 60 Hz, 15A (USA), 230V (±10%), 50 Hz, 13A (UK + Europe), 100V (±10%), 50 Hz, 15A (Japan), 100V (±10%), 60 Hz, 15A (Japan).

EZ-2 Standard, Envi and Plus require a single power supply at the above rating.

EZ-2 Elite requires two power supplies at the above rating.

Safety

Conforms to EN 61010-2-020:1995 for centrifuge safety.

Contains fluorinated greenhouse gases which are hermetically sealed within the equipment. Refrigerant gas R404a; GWP 3922; Charge 0.070kg; CO₂e 0.27454 tonnes.



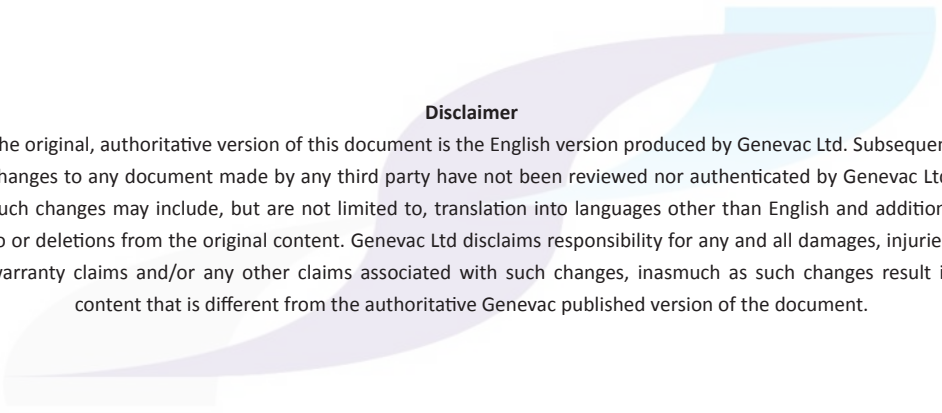
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Introduction

Genevac sample holders are manufactured from high-grade, solid aluminium to exacting specifications, including precise mass-balancing to ensure smooth operation of the evaporator.

Selection of the correct sample holder is a critical factor in optimising evaporation performance for your selected application. If you have any questions regarding the best sample holder for your application, please contact your local Genevac representative.

Nomenclature

Throughout this brochure, the following terms are used:

Tube Holder: A sample holder that accommodates tubes with rounded ends.

Vial Holder: A sample holder that accommodates vials with flat ends.

Bottle Holder: A sample holder that accommodates bottles with flat ends.

Flask Holder: A sample holder that accommodates round-bottomed flasks.

Sample holders intended for use with tubes with conical or tapered ends are identified individually.

Sample Holder Compatibility

Sample holders within this brochure are intended for use in Genevac HT-Series 3, HT-Series 2 and EZ-2 series centrifugal evaporators. They are not suitable for use in other evaporators or similar products.

Sample holder compatibility is indicated as follows:

Compatibility	
EZ-2	✓
HT-S2	✓
HT-S3	✓

Some sample holders are subject to limitations of use, or require accessories to function. Limitations and/or required accessories will be indicated as follows:

NOTE: Requires Thermal Cushion (part number)

Sample Holder Types

A comprehensive range of sample holders is available to suit tubes, vials, beakers, flasks, microplates etc. Sample holders come in two varieties: one-piece holders, and two-part holders with side-bridge swings.

One-piece Sample Holders

One-piece sample holders are those in which the swing is integral to the holder.



One-piece sample holder



One-piece sample holder with integral top-plate

Two-part Sample Holders

Two-part sample holders are those that consist of a sample holder and separate side-bridge swing.



Separate sample holder and side-bridge swing

All sample-holders are designed to lift cleanly out of the rotor to allow for easy sample loading.

Heat Transfer

A major factor in determining the speed of evaporation is the rate at which heat is transferred into the sample. Greater heat transfer means faster evaporation. In Genevac HT-Series and EZ-2 Series evaporators, heat transfer is optimised via the following methods:

High-quality Aluminium Rotors and Sample Holders

Genevac evaporators use high-quality aluminium, ensuring the highest thermal conductivity. This allows the most efficient heat transfer, at the lowest weight.

Precision Engineering

Sample holder tube wells must be manufactured to high tolerance to ensure no gaps between the wall and the glassware that would reduce heat transfer or result in breakage. Centre of gravity and mass must be correct to ensure even heat distribution and rotor balance. Precision engineering combines with over two decades of experience to ensure perfect evaporation every time.

Heat-transfer Plates for Microplates

Heat-transfer plates provide improved evaporation results when using microplates. Improvements will be seen in evenness of sample drying across the plate, and for some applications, heat-transfer plates may help to reduce evaporation times by up to 50%. Improvements are most notable when using deep-well or mid-well plates.

When using heat-transfer plates with pliable thermal pads, the plate should be inserted into the swing with the metal base-plate facing downwards (in contact with the swing). The microplate is loaded onto the top of the pad.



Heat-transfer plate



Heat-transfer pad base-plate

NOTE: Heat-transfer plates are for use with microplates only.

Protective Coatings

Standard aluminium sample holders are hard anodised (water sealed) for protection against all common organic solvents, including strong acids such as TFA, HCl and Thionyl chloride.

NOTE: HCl and Thionyl chloride should only be evaporated in systems that are HCl-compatible. These systems are specifically built to resist attack from HCl and Thionyl chloride.

NOTE: The colouring of the anodised surface finish may vary from batch to batch; this is normal and does not affect the performance of the sample holder.

Sample Holders for Special Applications

As the market leader in centrifugal evaporation, Genevac manufacture sample holders to suit almost every common application. If you have a special application or unusual tube size that is not available in the current range of sample holders, Genevac offers a bespoke sample holder design service. Please contact your local Genevac representative for more information.

Compatibility with other Manufacturers

Please check the Genevac website for guides to compatibility with Radleys and Metler Toledo Autochemistry (Bohdan) products.

Minimum Order Quantities

A minimum order quantity of two applies to sample holders, side-bridge swings, heat-transfer plates and SampleGenie assemblies.

First-time Use

When using sample holders for the first time, always check that they are compatible with the evaporator. Load the sample holders with empty tubes (or vials, plates etc. as appropriate) and place the holder and swing assembly onto the rotor. Swing the rotor by hand, allowing the sample holder to reach its fully horizontal state, to make sure that no part of the assembly touches the rotor or chamber.

Maintenance

Inspect and clean the sample holders on a regular basis, and always following any incident of solvent spillage or glass breakage.

Inspection

Visually inspect the sample holders and swings to check for any spilled solvent or debris, especially in the sample holder wells. Spilled solvent can cause debris to adhere to the sample holders, creating raised points that place additional stress on the glassware.

Superficial surface damage such as scratches do not affect the performance of the sample holder. If deep pits or crevices begin to form, or if there is any structural damage (e.g. bending, deformation), immediately stop using it. Contact the Genevac Service department for evaluation.

Repeated use of sample holders with strong acids may cause colour fading over time. This is normal and does not affect the integrity of the sample holders.

Cleaning

Clean off any adhered dirt or debris by washing the sample holders in soapy water, or with a cleaning solvent such as methanol or acetone. Once washed, rinse the sample holders in clean water. Alternatively, wash in a dishwasher at 90°C. Once washed, inspect the sample holder again to ensure that all adhered dirt, debris and solvent residue is removed.

Always dry the sample holders thoroughly after cleaning. Never place wet sample holders in the evaporator.

NOTE: The most likely cause of glassware breakage is a small fragment of glass from a previous glass breakage which has become stuck in a sample holder well. It is therefore very important that sample holders are cleaned thoroughly after any occurrence of glass breakage.

Glassware

Some Genevac evaporators subject samples to accelerations in excess of 500 times gravity. This allows for excellent evaporation, but places a high degree of stress on the glassware. Selection of suitable glassware is essential to avoid glassware breakage and ensure perfect evaporation.

Always use high-quality glassware from recognised manufacturers of international repute. Experience has shown that 'own-brand' catalogue glassware can have highly variable dimensions and manufacturing quality; this kind of glassware is not recommended for use in Genevac evaporators due to excessive risk of breakage.

When selecting glassware, ensure the following:

- Reputable scientific glassware manufacturer
- High quality, machine-made borosilicate glass
- Minimum 1.2 mm wall thickness

Re-use of glassware in centrifugal evaporators gradually reduces the strength of the glassware. Replace all glassware regularly to avoid breakage.

Damaged Glassware

Even a small scratch can reduce the strength of glassware by a significant degree. **Do not use glassware that is scratched, chipped, cracked or otherwise damaged. Do not use metal spatulas, wire brushes or similar hard instruments to clean glassware or remove dried samples.**

Labelling of Glassware

There are two common methods of labelling glassware in laboratory environments. Both types can cause problems in the evaporator.


Paper/Thin Film Labels


The label effectively increases the diameter of the tube (especially if it wraps around the tube more than once). When the tube is not fully snug in the holder, heat transfer is reduced and any raised points (e.g. tiny fragments of glass from a previous breakage, small lumps of paper towel left behind after cleaning, or the label itself) place additional stress on the glassware.


Ceramic Etched

Ceramic-etched labelling weakens the glass. Genevac recommend testing new tubes for breakage before purchasing glassware in bulk.

Swings

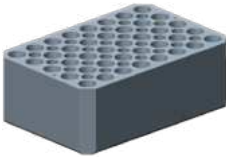
Side-bridge Swing			
	Max footprint	129.0 x 87.0 mm	Part Number
	Mass	380 g	70-0578
	Details	Suitable for use with all systems including HCl compatible. Holds four shallow-well microplates.	Compatibility
			EZ-2 ✓
HT-S2 ✓			
			HT-S3 ✓

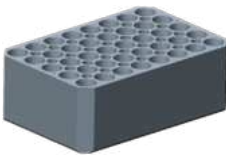
Fast-Stack Swing - Shallow Well			
	Max plate height	19 mm	Part Number
	Max footprint	129.0 x 87.0 mm	70-1388
	Mass	523 g	Compatibility
	Details	Suitable for use with all systems including HCl compatible. Holds four shallow-well microplates.	EZ-2 ✓
HT-S2 ✓			
HT-S3 ✓			

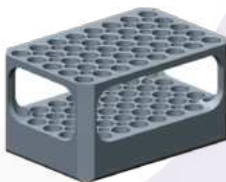
Fast-Stack Swing - Deep Well			
	Max plate height	45 mm	Part Number
	Max footprint	129.0 x 87.0 mm	70-1612
	Mass	400 g	Compatibility
	Details	NOTE: Requires two heat-transfer pads (supplied). Suitable for use with all systems including HCl compatible. Holds two deep-well microplates.	EZ-2 ✓
HT-S2 ✓			
HT-S3 ✓			

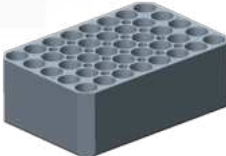
Sample Holders

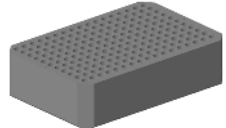
Tube holders for Side-bridge Swings

	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	10	75	10-5000	
	Limits	9.8 to 10.3	55 to 75	Compatibility	
	Details	Holds up to 40 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	12	75	10-5025	
	Limits	11.8 to 12.3	55 to 75	Compatibility	
	Details	Holds up to 40 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	12	100	10-5001	
	Limits	11.8 to 12.3	75 to 102	Compatibility	
	Details	Holds up to 40 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	13	75	10-5047	
	Limits	12.8 to 13.3	55 to 75	Compatibility	
	Details	Holds up to 40 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

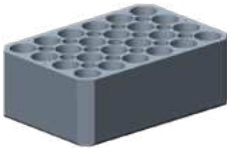
	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	6	51	10-5086	
	Limits	5.5 to 6.3	35 to 75	Compatibility	
	Details	Holds up to 187 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	13	100	10-5002
	Limits	12.8 to 13.3	75 to 102	Compatibility
	Details	Holds up to 40 tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	13.5	100	10-5003
	Limits	13.3 to 13.8	75 to 102	Compatibility
	Details	Holds up to 40 tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

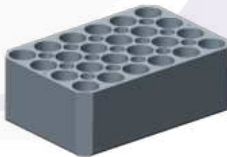
	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	15	75	10-5046
	Limits	14.8 to 15.3	55 to 75	Compatibility
	Details	Holds up to 28 tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	15	100	10-5008
	Limits	14.8 to 15.3	75 to 102	Compatibility
	Details	Holds up to 28 tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Tube Dimensions (mm)	Diameter	Length	Part Number		
	Nominal	16	75	10-5048		
	Limits	15.8 to 16.3	55 to 75	Compatibility		
	Details	Holds up to 24 tubes.			EZ-2	✓
					HT-S2	✓
HT-S3					✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number		
	Nominal	16	100	10-5004		
	Limits	15.8 to 16.3	75 to 102	Compatibility		
	Details	Holds up to 24 tubes.			EZ-2	✓
					HT-S2	✓
HT-S3					✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number		
	Nominal	16.5	50	10-5069		
	Limits	16.3 to 16.8	40 to 60	Compatibility		
	Details	Holds up to 24 tubes.			EZ-2	✓
					HT-S2	✓
HT-S3					✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number		
	Nominal	17	83	10-5042		
	Limits	16.3 to 17.3	75 to 90	Compatibility		
	Details	For tapered microwave tubes. Holds up to 24 tubes.			EZ-2	✓
					HT-S2	✓
HT-S3					✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	17	100	10-5005
	Limits	16.8 to 17.3	75 to 102	Compatibility
	Details	Holds up to 24 tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	18	100	10-5006
	Limits	17.8 to 18.3	75 to 102	Compatibility
	Details	Holds up to 24 tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	18	105	10-5073
	Limits	17.8 to 18.3	75 to 110	Compatibility
	Details	Holds up to 20 tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	24	100	10-5044
	Limits	23.8 to 24.3	75 to 102	Compatibility
	Details	Holds up to 12 tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	25	100	10-5009
	Limits	24.8 to 25.3	75 to 102	Compatibility
	Details	Holds up to 12 tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	27.5	100	10-5012
	Limits	27.3 to 27.8	75 to 110	Compatibility
	Details	Holds up to eight tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	28	100	10-5071
	Limits	27.8 to 28.3	75 to 110	Compatibility
	Details	Holds up to 10 tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Tube Dimensions (mm)	Diameter	Length	Part Number
	Nominal	30	100	10-5018
	Limits	29.8 to 30.3	75 to 102	Compatibility
	Details	Holds up to eight tubes.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


One-Piece Tube Holders


	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	16	125	10-5070	
	Limits	15.8 to 16.3	110 to 132	Compatibility	
	Details	Holds up to 24 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	16	150	10-5020	
	Limits	15.8 to 16.3	110 to 152	Compatibility	
	Details	Holds up to 12 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	16.5	125	10-5050	
	Limits	16.3 to 16.8	110 to 132	Compatibility	
	Details	Holds up to 20 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	17	150	10-5022	
	Limits	16.8 to 17.3	110 to 152	Compatibility	
	Details	Holds up to 24 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Dimensions (mm)	Diameter	Length	Part Number		
	Nominal	17.5	140	10-5055		
	Limits	17.0 to 17.8	105 to 142	Compatibility		
	Details	Holds up to 12 tubes.			EZ-2	✓
					HT-S2	✓
HT-S3					✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number		
	Nominal	18	150	10-5015		
	Limits	17.8 to 18.3	110 to 152	Compatibility		
	Details	Holds up to 12 tubes.			EZ-2	✓
					HT-S2	✓
HT-S3					✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number		
	Nominal	20	150	10-5023		
	Limits	19.8 to 20.3	110 to 152	Compatibility		
	Details	Holds up to 10 tubes.			EZ-2	✓
					HT-S2	✓
HT-S3					✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number		
	Nominal	24	150	10-5026		
	Limits	23.8 to 24.3	110 to 152	Compatibility		
	Details	Compatible with Radleys Carousel and STEM reaction stations. Holds up to six tubes.			EZ-2	✓
					HT-S2	✓
HT-S3					✓	

	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	25	150	10-5027	
	Limits	24.8 to 25.3	110 to 152	Compatibility	
	Details	Holds up to six tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

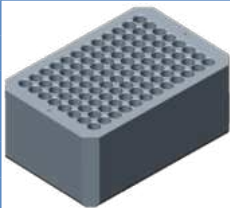
	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	26	150	10-5066	
	Limits	25.8 to 26.3	102 to 155	Compatibility	
	Details	Holds up to six tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

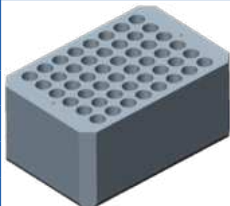
	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	34	150	10-5056	
	Limits	33.8 to 34.3	110 to 152	Compatibility	
	Details	NOTE: Requires Thermal Cushion (10-1546). Holds up to four tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	45	150	10-5064	
	Limits	44.8 to 45.8	110 to 152	Compatibility	
	Details	Holds up to two tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

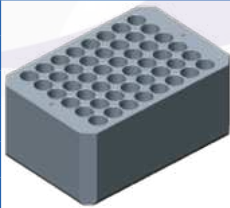
	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	27.5	140	10-5084	
	Limits	27.3 to 27.8	110 to 145	Compatibility	
	Details	Holds up to six tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


Vial-Holders for Side-Bridge Swings

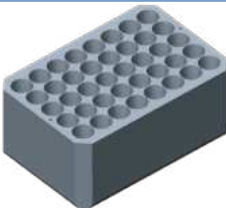
	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	8	35	10-5045	
	Limits	7.5 to 8.3	30 to 40	Compatibility	
	Details	Holds up to 96 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

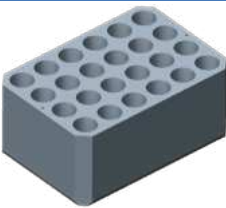
	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	10	45	10-5029	
	Limits	9.5 to 10.3	35 to 45	Compatibility	
	Details	Holds up to 48 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

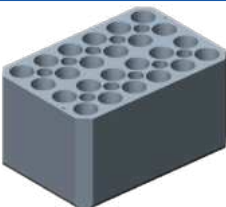
	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	11	35	10-5032	
	Limits	10.7 to 11.5	30 to 40	Compatibility	
	Details	Holds up to 48 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

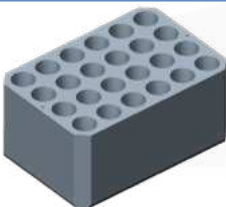
	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	11.5	55	10-5074	
	Limits	11.0 to 11.8	40 to 60	Compatibility	
	Details	Holds up to 48 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

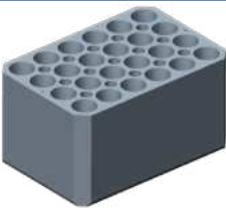
	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	12	35	10-5024	
	Limits	11.3 to 12.1	30 to 40	Compatibility	
	Details	Including GC auto-sampler vials. Holds up to 48 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	13	50	10-5034	
	Limits	12.5 to 13.3	30 to 50	Compatibility	
	Details	Including 4 ml crimp-top HPLC vials. Holds up to 40 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	14.5	45	10-5035	
	Limits	14.0 to 14.8	35 to 50	Compatibility	
	Details	Holds up to 24 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

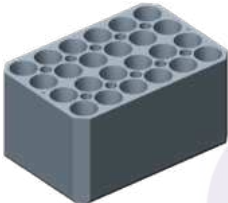
	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	14.5	65	10-5016	
	Limits	14.0 to 14.8	55 to 75	Compatibility	
	Details	Holds up to 24 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

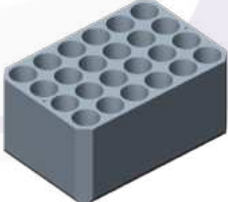
	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	15	45	10-5037	
	Limits	14.3 to 15.1	35 to 50	Compatibility	
	Details	Holds up to 24 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	15	65	10-5021	
	Limits	14.3 to 15.1	55 to 75	Compatibility	
	Details	Holds up to 24 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	15.5	45	10-5038
	Limits	15.0 to 15.8	35 to 50	Compatibility
	Details	Including 1 dram & 4 ml HPLC screw-top vials. Holds up to 24 vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

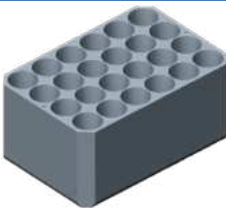
	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	16	100	10-5067
	Limits	15.5 to 16.3	75 to 102	Compatibility
	Details	Holds up to 24 vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

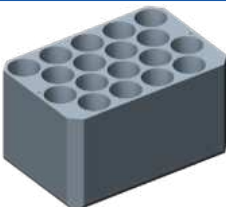
	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	16.5	65	10-5028
	Limits	16.2 to 17.0	55 to 75	Compatibility
	Details	Holds up to 24 vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

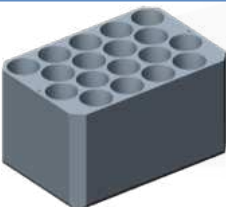
	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	17	40	10-5007
	Limits	16.3 to 17.1	38 to 50	Compatibility
	Details	Holds up to 24 vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

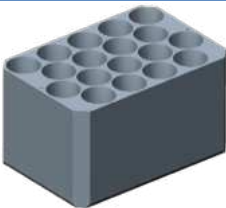
	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	17	65	10-5030
	Limits	16.5 to 17.3	55 to 75	Compatibility
	Details	Including 2 dram vial. Holds up to 24 vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	17.5	45	10-5031	
	Limits	17.0 to 17.8	40 to 50	Compatibility	
	Details	Holds up to 24 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	18	45	10-5033	
	Limits	17.7 to 18.5	40 to 50	Compatibility	
	Details	Holds up to 24 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

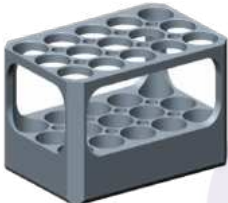
	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	20	65	10-5036	
	Limits	19.5 to 20.3	55 to 75	Compatibility	
	Details	Holds up to 18 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	20.5	65	10-5040	
	Limits	20.0 to 20.8	55 to 75	Compatibility	
	Details	Holds up to 18 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Vial Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	21	65	10-5039	
	Limits	20.5 to 21.3	55 to 75	Compatibility	
	Details	Holds up to 18 vials.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	21.5	65	10-5041
	Limits	21.0 to 21.8	55 to 75	Compatibility
	Details	Holds up to 18 vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	22.5	50	10-5062
	Limits	22.0 to 22.8	38 to 50	Compatibility
	Details	Holds up to 12 vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	23	85	10-5079
	Limits	22.5 to 23.3	75 to 102	Compatibility
	Details	Holds up to 15 vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

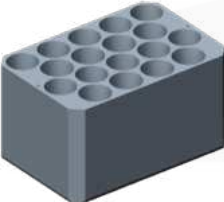
	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	23.5	65	10-5019
	Limits	23.0 to 23.8	55 to 75	Compatibility
	Details	Holds up to 12 vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	24	45	10-5075
	Limits	23.7 to 24.5	45 to 75	Compatibility
	Details	Holds up to 12 vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

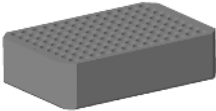
	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	27.5	65	10-5013
	Limits	27.0 to 27.8	55 to 75	Compatibility
	Details	Holds up to twelve 20 mm scintillation vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	27.5	100	10-5010
	Limits	27.0 to 27.8	75 to 110	Compatibility
	Details	NOTE: Requires thermal cushion (10-1546). Accepts 40 ml scintillation vials. Holds up to eight vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	30	65	10-5078
	Limits	29.5 to 30.3	55 to 75	Compatibility
	Details	Holds up to eight vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	35	100	10-5068
	Limits	34.5 to 35.8	75 to 102	Compatibility
	Details	Holds up to six vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

	Vial Dimensions (mm)	Diameter	Length	Part Number
	Nominal	40	75	10-5085
	Limits	39.5 to 40.4	72 to 80	Compatibility
	Details	Holds up to six vials.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


	Vial Dimensions (mm)	Diameter	Length	Part Number		
	Nominal	7	32	10-5087		
	Limits	6.5 to 7.5	22 to 42	Compatibility		
	Details	Holds up to 117 vials.			EZ-2	✓
					HT-S2	✓
HT-S3					✓	

One-Piece Vial Holders


	Vial Dimensions (mm)	Diameter	Length	Part Number		
	Nominal	27.5	140	10-5076		
	Limits	27.0 to 27.8	105 to 142	Compatibility		
	Details	<p>NOTE: Requires thermal cushion (10-1546). For Dionex 60 ml ASE® tubes. Holds up to six vials.</p>			EZ-2	✓
					HT-S2	✓
HT-S3					✓	

ASE® is a registered trademark of Dionex Corporation.

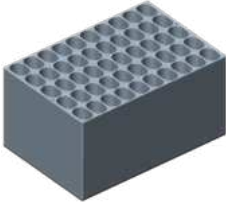
Centrifuge Tube Holders

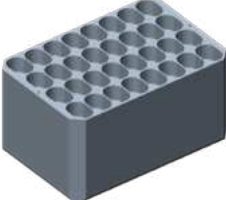
	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	16.5	115	70-1192	
	Limits	16.3 to 17.3	100 to 120	Compatibility	
	Details	NOTE: Requires tip cushion (10-1585 each or 10-1602 for pack of 24).		EZ-2	✓
	HT-S2			✓	
	HT-S3			✓	

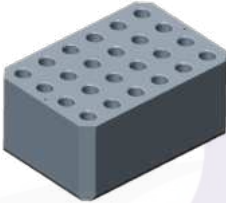
For 30° ended 15 ml centrifuge tubes.
Replaces 10-5053. Holds up to 24 tubes.


	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	29.5	115	10-5054	
	Limits	28.5 to 29.8	100 to 115	Compatibility	
	Details	For 70° ended 50 ml centrifuge tubes. Holds up to 10 tubes.		EZ-2	✓
	HT-S2			✓	
	HT-S3			✓	

Microcentrifuge Tube Holders


	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	8	30	10-5049	
	Limits	NA	NA	Compatibility	
	Details	For 0.5 ml flip-cap, without skirt. Holds up to 50 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	10	40	10-5043	
	Limits	NA	NA	Compatibility	
	Details	For 1.5 ml flip-cap, without skirt. Holds up to 32 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

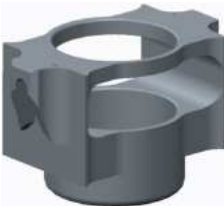
	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	8	30	10-5011	
	Limits	NA	NA	Compatibility	
	Details	For 2.0 ml flip-cap, without skirt. Holds up to 24 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	

	Tube Dimensions (mm)	Diameter	Length	Part Number	
	Nominal	17	40	10-5089	
	Limits	NA	NA	Compatibility	
	Details	For 5.0 ml flip-cap, without skirt. Holds up to 16 tubes.		EZ-2	✓
				HT-S2	✓
HT-S3				✓	


Bottle Holders

	Bottle Dimensions (mm)	Diameter	Length	Part Number
	Nominal	55.5	100	70-1025
	Limits	54.0 to 56.0	90 to 110	Compatibility
	Details	Including Schott 100 ml. Holds two bottles.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

	Bottle Dimensions (mm)	Diameter	Length	Part Number
	Nominal	60.5	125	10-5061
	Limits	NA	NA	Compatibility
	Details	Including 250 ml Nalgene (3127-0250). Holds two bottles.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓

	Bottle Dimensions (mm)	Diameter	Length	Part Number
	Nominal	70	140	70-1795
	Limits	NA	NA	Compatibility
	Details	NOTE: Requires Viton cushion (04-8963), supplied.		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


Including Schott 250 ml beaker, Fisher 400 ml beaker (FB33124). Replaces 10-5060. Holds one bottle.


	Bottle Dimensions (mm)	Diameter	Length	Part Number
	Nominal	82	152	10-5063
	Limits	NA	NA	Compatibility
	Details	NOTE: Not for use with EZ-2 Mark 1 models. Requires thermal cushion (10-1543).		EZ-2 ✓ HT-S2 ✓ HT-S3 ✓


For 500 ml bottle. Holds one bottle.


Flask Holders


Flask socket sizes are European ISO-standard joint sizes. The first number represents the outer diameter at the widest part of the ground glass joint section in millimetres. The second number represents the length of the joint section in millimetres.


	Flask Volume	25 ml	Part Number
	Socket Size	19/26 to 24/29	70-0538
	Details	<p>NOTE: Requires thermal cushion (10-1546). Holds six flasks.</p>	Compatibility
			EZ-2 ✓
HT-S2 ✓			
			HT-S3 ✓


	Flask Volume	50 ml	Part Number
	Socket Size	29/32	70-0539
	Details	<p>NOTE: Requires thermal cushion (10-1540). Holds four flasks.</p>	Compatibility
			EZ-2 ✓
HT-S2 ✓			
			HT-S3 ✓


	Flask Volume	50 ml	Part Number
	Socket Size	19/36 to 24/29	70-0656
	Details	<p>NOTE: Requires thermal cushion (10-1540). Holds four flasks.</p>	Compatibility
			EZ-2 ✓
HT-S2 ✓			
			HT-S3 ✓


	Flask Volume	50 ml	Part Number
	Socket Size	24/29 to 29/32	70-1026
	Details	<p>NOTE: Requires thermal cushion (10-1540). Holds four flasks.</p>	Compatibility
			EZ-2 ✓
HT-S2 ✓			
			HT-S3 ✓

	Flask Volume	100 ml	Part Number
	Socket Size	19/26 to 24/29	70-0657
	Details	<p>NOTE: Requires thermal cushion (10-1541). Compatible with Radleys 6-piece Carousel. Holds three flasks.</p>	Compatibility
			EZ-2 ✓
HT-S2 ✗			
			HT-S3 ✗

	Flask Volume	100 ml	Part Number
	Socket Size	29/36 to 19/32	70-0579
	Details	<p>NOTE: Requires thermal cushion (10-1541). Holds three flasks.</p>	Compatibility
			EZ-2 ✓
HT-S2 ✗			
		HT-S3 ✗	

	Flask Volume	250 ml	Part Number
	Socket Size	19/22 to 29/32	70-0580
	Details	<p>NOTE: Requires thermal cushion (10-1543). Compatible with Radleys 6-piece Carousel. Holds one flask.</p>	Compatibility
			EZ-2 ✓
HT-S2 ✓			
		HT-S3 ✓	

	Flask Volume	500 ml	Part Number
	Socket Size	19/32 to 29/32	70-0582
	Details	<p>NOTE: Requires thermal cushion (10-1544). Holds one flask.</p>	Compatibility
			EZ-2 ✓
HT-S2 ✗			
		HT-S3 ✗	

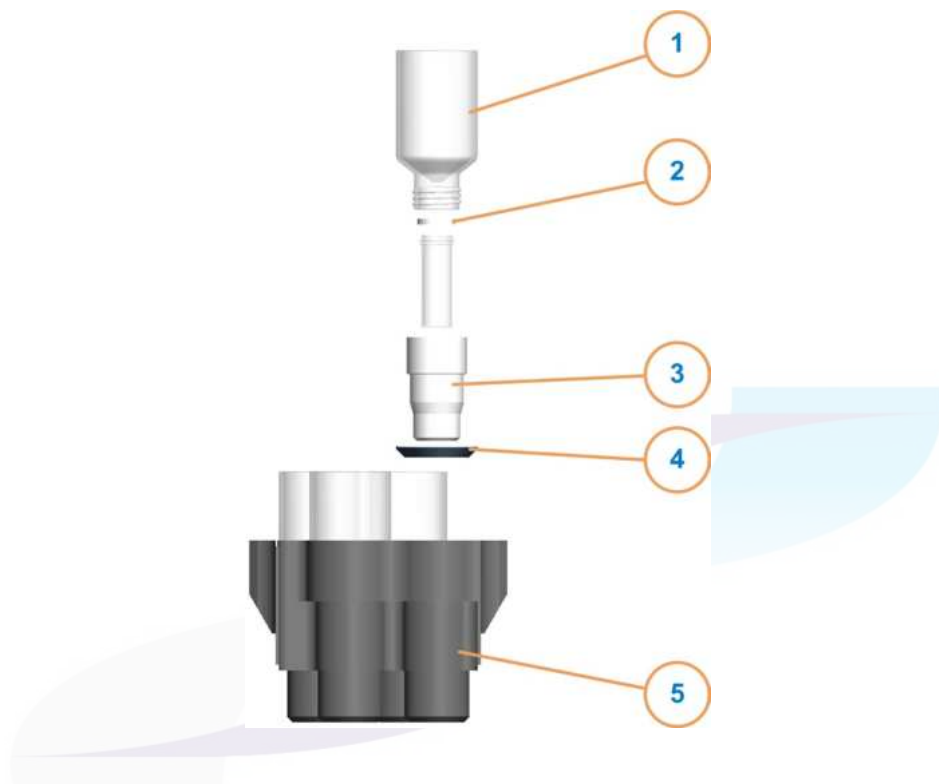
	Flask Volume	500 ml	Part Number
	Socket Size	19/32 to 29/32	10-1616
	Details	<p>NOTE: Requires thermal cushion (10-1544). Max. flask height: 156mm. Holds one flask.</p>	Compatibility
			EZ-2 ✓
HT-S2 ✓			
		HT-S3 ✓	

SampleGenie™

The revolutionary SampleGenie technology enables large volume samples to be dried or concentrated directly into a variety of small vials. Where HPLC purification fractions are used, fractions are combined into one tube and dried or fast lyophilised into the final vial.



60 ml SampleGenie



Item	Description	Qty in Set	Part Number
1	Flask	10	70-1153
2	Seal for GC vials - white Viton	▪	70-1359
	Seal for GC vials - perfluoroelastomer	▪	70-1360
	Seal for all vials except GC - white Viton	▪	70-1361
	Seal for all vials except GC - perfluoroelastomer	▪	70-1362
3	Adapter	▪	▪ ▪
4	Cushion for 60 ml SampleGenie - Viton	10	70-1448
5	Sample Holder:		
	SampleGenie set with white Viton seals	1	70-1340
	SampleGenie set with perfluoroelastomer seals	1	70-1341

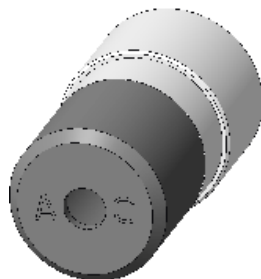
▪ Specify quantity when ordering

▪ ▪ Refer to following table for 60 ml adapter part numbers

Please specify adapter type when ordering complete assemblies.

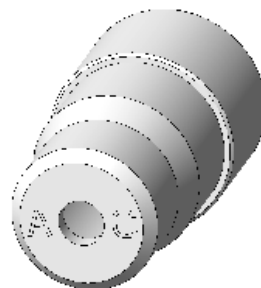
60 ml Drying Adapters

Code	Max. Vial Diameter (mm)	Vial Length (mm)	Part Number
AE	11.8	30.5 to 33.5	04-6214
AG	11.8	45.5 to 48.5	04-6615
AD	13.5	38.5 to 41.5	04-6174
AL	15.3	30.5 to 33.5	04-7593
AB	15.3	43.5 to 46.5	04-6155
AF	15.3	48.5 to 51.5	04-4686
AK	15.6	38.5 to 41.5	04-7302
AM	16.6	48.5 to 51.5	15-0448
AJ	16.8	43.5 to 46.5	04-6756
AA	17.3	48.5 to 51.5	04-6156
AH	19.8	38.5 to 41.5	04-6619
AC	20.3	48.5 to 51.1	04-6166



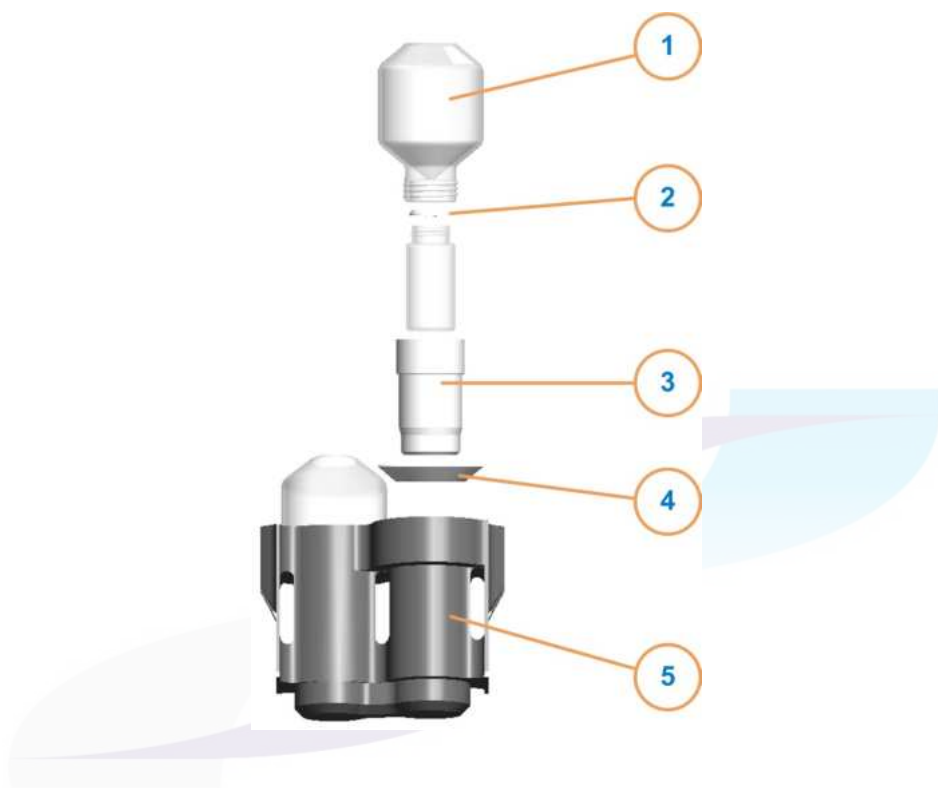
60 ml Lyophilisation/Concentration Adapters

Code	Max. Vial Diameter (mm)	Vial Length (mm)	Part Number
AE	11.8	30.5 to 33.5	04-6215
AG	11.8	45.5 to 48.5	04-6614
AD	13.5	38.5 to 41.5	04-6175
AL	15.3	30.5 to 33.5	04-7592
AB	15.3	43.5 to 46.5	04-6130
AF	15.3	48.5 to 51.5	04-4688
AK	15.6	38.5 to 41.5	04-7301
AM	16.6	48.5 to 51.5	15-0450
AJ	16.8	43.5 to 46.5	04-6757
AA	17.3	48.5 to 51.5	04-6110
AH	19.8	38.5 to 41.5	04-6618
AC	20.3	48.5 to 51.1	04-6167



NOTE: Code is shown on the base of the adaptor.

125 ml SampleGenie



Item	Description	Qty in Set	Part Number
1	Flask	10	70-1157
2	Seal for GC vials - white Viton	▪	70-1359
	Seal for GC vials - perfluoroelastomer	▪	70-1360
	Seal for all vials except GC - white Viton	▪	70-1363
	Seal for all vials except GC - perfluoroelastomer	▪	70-1364
3	Adapter	▪	▪ ▪
4	Cushion for 125 ml SampleGenie - PTFE	8	70-1373
5	Sample Holder:		
	SampleGenie set with white Viton seals	1	70-1346
	SampleGenie set with perfluoroelastomer seals	1	70-1347

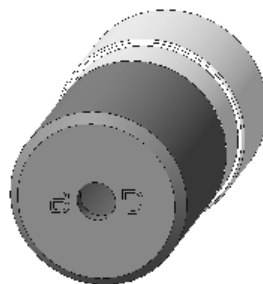
▪ ▪ Specify quantity when ordering

▪ ▪ Refer to following table for 125 ml adapter part numbers

Please specify adapter type when ordering complete assemblies.

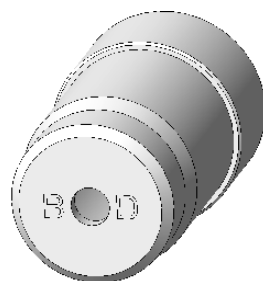
125 ml Drying Adapters

Code	Max. Vial Diameter (mm)	Vial Length (mm)	Part Number
BE	11.8	30.5 to 33.5	04-6216
BC	15.3	43.5 to 46.5	04-6162
BG	15.3	48.5 to 51.5	04-6378
BB	16.8	33.5 to 36.5	04-6161
BM	16.8	43.5 to 46.5	04-6759
BH	17.3	48.5 to 51.5	04-6390
BF	17.3	58.5 to 61.5	04-6292
BL	18.0	43.5 to 46.5	04-6737
BO	18.3	38.5 to 41.5	04-7645
BK	21.8	55.5 to 58.5	04-6606
BJ	23.8	58.5 to 61.5	04-6454
BN	24.3	48.5 to 51.5	04-6979
BA	27.3	58.5 to 61.5	04-6048
BD	28.3	58.5 to 61.5	04-6190



125 ml Lyophilisation/Concentration Adapters

Code	Max. Vial Diameter (mm)	Vial Length (mm)	Part Number
BE	11.8	30.5 to 33.5	04-6217
BC	15.3	43.5 to 46.5	04-6160
BG	15.3	48.5 to 51.5	04-6377
BB	16.8	33.5 to 36.5	04-6159
BM	16.8	43.5 to 46.5	04-6760
BH	17.3	48.5 to 51.5	04-6389
BF	17.3	58.5 to 61.5	04-6293
BL	18.0	43.5 to 46.5	04-6739
BO	18.3	38.5 to 41.5	04-7644
BK	21.8	55.5 to 58.5	04-6605
BJ	23.8	58.5 to 61.5	04-6453
BN	24.3	48.5 to 51.5	04-6980
BA	27.3	58.5 to 61.5	04-6049
BD	28.3	58.5 to 61.5	04-6192



NOTE: Code is shown on the base of the adaptor.

250 ml SampleGenie



Item	Description	Qty in Set	Part Number
1	Flask	4	70-1158
2	Seal for GC vials - white Viton	▪	70-1359
	Seal for GC vials - perfluoroelastomer	▪	70-1360
	Seal for all vials except GC - white Viton	▪	70-1363
	Seal for all vials except GC - perfluoroelastomer	▪	70-1364
3	Adapter	▪	▪ ▪
4	Cushion for 125 ml SampleGenie - PTFE	4	70-1358
5	Sample Holder:		
	SampleGenie set with white Viton seals	1	70-1352
	SampleGenie set with perfluoroelastomer seals	1	70-1353

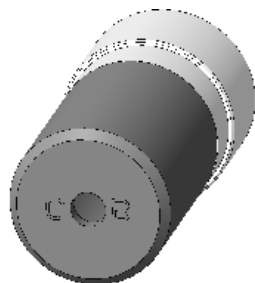
▪ ▪ Specify quantity when ordering

▪ ▪ Refer to following table for 250 ml adapter part numbers

Please specify adapter type when ordering complete assemblies.

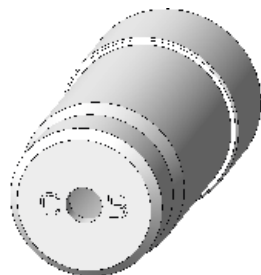
250 ml Drying Adapters

Code	Max. Vial Diameter (mm)	Vial Length (mm)	Part Number
CF	11.8	30.5 to 33.5	04-6218
CE	15.3	43.5 to 46.5	04-6186
CD	17.3	58.5 to 61.5	04-6184
CH	21.3	68.5 to 71.5	04-6363
CC	27.3	58.5 to 61.5	04-6182
CA	27.3	68.5 to 71.5	04-6163
CG	28.3	58.5 to 61.5	04-6238
CB	28.3	68.5 to 71.5	04-6168



250 ml Lyophilisation/Concentration Adapters

Code	Max. Vial Diameter (mm)	Vial Length (mm)	Part Number
CF	11.8	30.5 to 33.5	04-6219
CE	15.3	43.5 to 46.5	04-6172
CD	17.3	58.5 to 61.5	04-6171
CH	21.3	68.5 to 71.5	04-6245
CC	27.3	58.5 to 61.5	04-6170
CA	27.3	68.5 to 71.5	04-6144
CG	28.3	58.5 to 61.5	04-6239
CB	28.3	68.5 to 71.5	04-6169



NOTE: Code is shown on the base of the adaptor.

Miscellaneous

Infinity Trolley


The Infinity Trolley is a modular system designed to accommodate a range of Genevac evaporation equipment. The trolley provides safe and durable support for the evaporator, whilst occupying the minimum amount of laboratory space. The lower “truck” can be extended to provide access to items on the lower shelf.




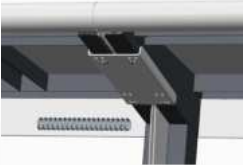
Approximate Infinity Trolley Dimensions:

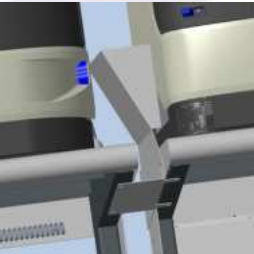
740 mm x 733 mm x 835 mm (W x D x H)


When truck is fully extended, add 500 mm to depth.
For optional side-shelf, add 260 mm to width.

	Infinity Trolley		Part Number
	Description	Infinity Trolley	70-1850
	Details	Compatible with miVac, EZ-2 Series, Rocket Synergy and HT-Series 3 evaporators.	

	Infinity Trolley Accessory		Part Number
	Description	Shelf Kit	70-1635
	Details	Bolts to the back of the Infinity Trolley. May be fitted to left- and right-hand sides.	


	Infinity Trolley Accessory		Part Number
	Description	Joining Kit	70-1636
	Details	Plate and fixing screws to securely join an Infinity Trolley to another adjacent Trolley. Any number of Infinity Trolleys may be joined together, using one joining kit for each Trolley being joined. NOTE: Not suitable for use with HT-Series 3 systems.	


	Infinity Trolley Accessory		Part Number
	Description	HT-Series 3 Deflector Plate & Joining Kit	70-1900
	Details	Designed specifically for the HT-Series 3, this Infinity Trolley joining kit includes a deflector plate to direct exhaust airflow away from the evaporator. NOTE: Suitable for use with HT-Series 3 systems only.	


	HT-Series 3 Accessory		Part Number
	Description	HT-Series 3 Deflector Plate	70-2017
	Details	For use with HT-Series 3 evaporators. Directs exhaust airflow away from adjacent evaporators when siting multiple Series 3 systems together on a bench (without Infinity Trolleys).	


Heat-Transfer Plates for Microplates

Heat-Transfer Plates provide improved evaporation results when using microtitre plates. Heat-Transfer Plates are suitable for use with microtitre plates only.

	Heat-Transfer Plates		Part Number
	Description	HTP - Complete Assembly	70-1786
	Details	Heat-Transfer Plate with pliable thermal pad. Compatible with all types of deep-well plate that fit within the footprint of the fast-stack or side-bridge swing.	

	Heat-Transfer Plates		Part Number
	Description	HTP - Base Plate	70-1787
	Details	Replacement base plate (only) for Heat-Transfer Plate Assembly.	

	Heat-Transfer Plates		Part Number
	Description	HTP - Thermal Pad	70-1788
	Details	Replacement thermal pad (only) for Heat-Transfer Plate Assembly.	

	Heat-Transfer Plates		Part Number
	Description	HTP - Thermal Pad (old style)	70-1614
	Details	Replacement thermal pad (only) for older version Heat-Transfer Plates. NOTE: Suitable for use with older version Heat-Transfer Plates, part number 70-1615, only.	

NOTE: Heat-Transfer Plate assembly 70-1786 is supplied with deep-well fast-stack swings (70-1612), and may also be used with standard side-bridge swings (70-0578).

NOTE: Thermal Pads are a consumable item. They may be turned over, allowing both sides of the pad to be used before replacement.

Highly durable, solid aluminium Heat-Transfer Plates are available to suit a range of microtitre plates. Please contact your local Genevac representative for more details.



NOTE: Solid Heat-Transfer Plates should only be used with the type of microtitre plate for which they were specified.



Gilson and Waters Fraction Collection Racks

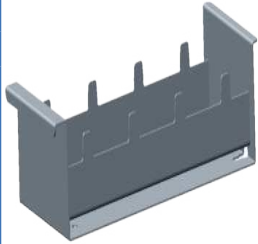
Genevac offer a range of innovative options that help interface fraction collection systems directly to a Genevac evaporator. Gilson 215 and Waters 2767 systems are currently supported.

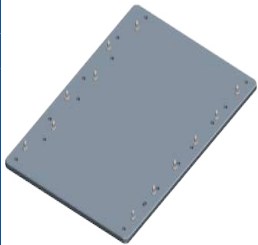
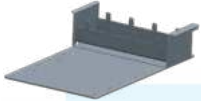
To interface with the fraction collection system, Genevac provide a simple sample holder carrier which fits directly onto the fraction collection bed. Genevac sample holders fit into the carrier to make up a complete fraction collection rack. Once fractions are collected, the sample holders can be placed directly into the Genevac evaporator with no need to label, mark or manipulate individual tubes. Sample holders can be marked to indicate their location within the fraction collection rack.

A range of sample holders is available, including standard sample holders and specially-designed holders which ensure uniform spacing between tubes and help reduce fraction collector re-programming.

NOTE: Waters 2767 users will require the adapter plate when using 16 mm diameter tubes.

Further information, including a technical article discussing Fraction Collection Racks in greater detail, is available upon request from your local Genevac representative.

	Rack		Part Number
	Description	Rack	10-1570
	Details	For use with Waters Fraction Collection Rack. Holds four tube holders (e.g. 10-5020 or 10-5027).	


	Adapter Plate		Part Number
	Description	Adapter Plate for 10-1570	04-4181
	Details	Converts Waters 2767 Sample Manager Rack Bed to hold three racks. 	


	Adapter Plate		Part Number
	Description	Plate for side-bridge holders	04-4330
	Details	Converts Waters 2767 Sample Manager Rack Bed to hold 14 MAX side-bridge holders. 	


NOTE: The items listed above represent a small sample from the range of fraction collection racks that Genevac can provide. Please contact your local Genevac representative for more details.


Thermal Cushions


Genevac Thermal Cushions prolong glassware lifetime and dramatically reduce sample drying time. The use of Thermal Cushions is mandatory with some sample holders.

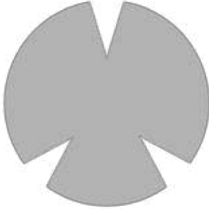
	Thermal Cushion		Part Number
	Diameter	25 mm	10-1564
	Details	Special. Please specify quantity required when ordering.	

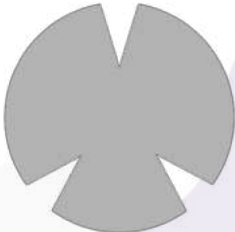
	Thermal Cushion		Part Number
	Diameter	28 mm	10-1546
	Details	For use with flasks or tubes up to 25 ml. Please specify quantity required when ordering.	

	Thermal Cushion		Part Number
	Diameter	33 mm	10-1540
	Details	For use with flasks up to 50 ml. Please specify quantity required when ordering.	

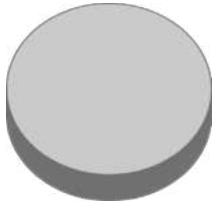
	Thermal Cushion		Part Number
	Diameter	38 mm	10-1542
	Details	For use with flasks up to 170 ml. Please specify quantity required when ordering.	


	Thermal Cushion		Part Number
	Diameter	42 mm	10-1541
	Details	For use with flasks up to 100 ml. Please specify quantity required when ordering.	

	Thermal Cushion		Part Number
	Diameter	68 mm	10-1543
	Details	For use with flasks up to 250 ml. Please specify quantity required when ordering.	


	Thermal Cushion		Part Number
	Diameter	82 mm	10-1544
	Details	For use with flasks up to 500 ml. Please specify quantity required when ordering.	

Tip Cushions


	Tip Cushion		Part Number
	Quantity	Set of 24	70-1371
	Details	For use with sample holder 10-5065.	


	Tip Cushion		Part Number
	Quantity	Set of 24	10-1602
	Details	For use with sample holder 70-1004.	

Viton Cushion

	Viton Thermal Cushion		Part Number
	Diameter	68 mm	04-8963
	Details	For use with sample holders 70-1795 and 10-5060. Please specify quantity required when ordering.	

Thermal Cushion Accessories


	Accessory		Part Number
	Description	Applicator	04-3822
	Details	For use with thermal cushion.	


	Accessory		Part Number
	Description	Spatula	04-3869
	Details	For use with thermal cushion.	


Spare Parts


EZ-2 Consumables


The following parts are compatible with all EZ-2 series evaporators that have a detachable condenser jar.


	Spare Part		Part Number
	Description	Lamp Assembly (non-HCl)	70-1116/S
	Details	<p>For use with EZ-2.2, EZ-2.3 and EZ-2 Elite non-HCl compatible systems only.</p> <p>Lamp assembly consists of: lamp, lamp holder, clear Robax glass and sealing o-rings.</p>	

	Spare Part		Part Number
	Description	Lamp Assembly (HCl)	70-1156/S
	Details	<p>For use with EZ-2.2, EZ-2.3 and EZ-2 Elite HCL-compatible systems only.</p> <p>Lamp assembly consists of: lamp, lamp holder, clear Robax glass and sealing o-rings.</p>	

	Spare Part		Part Number
	Description	Infra-Red Lamp	AC9060
	Details	<p>For use with EZ-2.2, EZ-2.3 and EZ-2 Elite.</p> <p>Lamp only.</p>	


	Spare Part		Part Number
	Description	Lid Seal	04-5094/S
	Details	<p>For use with EZ-2.2, EZ-2.3 and EZ-2 Elite.</p>	


	Spare Part		Part Number
	Description	Jar Seal Kit	70-1494/S
	Details	For use with EZ-2.2 and EZ-2.3. Seal and thread insert kit for condenser jar.	


	Spare Part		Part Number
	Description	Condenser Jar	70-1123/S
	Details	For use with EZ-2.2 and EZ-2.3. Spare condenser jar.	


NOTE: For fitting instructions, please refer to the EZ-2 User Manual.

HT-Series II SampleGuard Probes


	HT-Series II SampleGuard Probes		Part Number
	Length	160 mm	70-0163
	Details	For HT-Series II evaporators.	<p>SampleGuard Channel 1 to:</p> <ul style="list-style-type: none"> • Solid aluminium rotor; • Fast-stack swing; • One-piece holder-swing; • SampleGenie holder-swing; • Sample holder in standard swing; • Heat-Transfer Plate in standard swing.


	HT-Series II SampleGuard Probes		Part Number
	Length	220 mm	70-0168
	Details	For HT-Series II evaporators.	<p>SampleGuard Channel 2 to:</p> <ul style="list-style-type: none"> • Microtitre plate on top-shelf of fast-stack swing; • Microtitre plate on Heat-Transfer Plate in standard swing; • Aluminium sample holder in a standard swing, where the holder does not protrude through the bottom of the swing.


	HT-Series II SampleGuard Probes		Part Number
	Length	280 mm	70-0210
	Details	For HT-Series II evaporators.	<p>SampleGuard Channel 2 to:</p> <ul style="list-style-type: none"> • Any sample holder in a side-bridge swing; • Aluminium sample holder in a standard swing, where the holder protrudes through the bottom of the swing.


	HT-Series II SampleGuard Probes		Part Number
	Length	Custom	70-0429
	Details	For HT-Series II evaporators.	<p>For custom made probes of any length, please contact sales@genevac.co.uk or contact your local Genevac representative. Please specify the required length when ordering.</p>

HT-Series II SampleGuard Probes - HCl Compatible


	HT-Series II SampleGuard Probes - HCl Compatible		Part Number
	Length	160 mm	70-0199
	Details	For HT-Series II HCl-compatible evaporators only.	SampleGuard Channel 1 to: <ul style="list-style-type: none"> • Solid aluminium rotor; • Fast-stack swing; • One-piece holder-swing; • SampleGenie holder-swing; • Sample holder in standard swing; • Heat-Transfer Plate in standard swing.


	HT-Series II SampleGuard Probes - HCl Compatible		Part Number
	Length	220 mm	70-0200
	Details	For HT-Series II HCl-compatible evaporators only.	SampleGuard Channel 2 to: <ul style="list-style-type: none"> • Microtitre plate on top-shelf of fast-stack swing; • Microtitre plate on Heat-Transfer Plate in standard swing; • Aluminium sample holder in a standard swing, where the holder does not protrude through the bottom of the swing.


	HT-Series II SampleGuard Probes - HCl Compatible		Part Number
	Length	280 mm	70-0212
	Details	For HT-Series II HCl-compatible evaporators only.	SampleGuard Channel 2 to: <ul style="list-style-type: none"> • Any sample holder in a side-bridge swing; • Aluminium sample holder in a standard swing, where the holder protrudes through the bottom of the swing.


	HT-Series II SampleGuard Probes - HCl Compatible		Part Number
	Length	Custom	70-0440
	Details	For HT-Series II HCl-compatible evaporators only.	For custom made probes of any length, please contact sales@genevac.co.uk or contact your local Genevac representative. Please specify the required length when ordering.

HT-Series 3 Consumables

	HT-Series 3 Chamber Door Seal		Part Number
	Dimensions	435 mm x 444 mm (W x H)	70-2050/S
	Details	For HT-Series 3 evaporators.	Replacement chamber door seal for HT-Series 3 evaporators.


	HT-Series 3 Infra-Red Lamps		Part Number
	Quantity	Set of two.	70-1846/S
	Details	For HT-Series 3 evaporators.	Replacement IR lamps for HT-Series 3 evaporators.


	HT-Series 3 SampleGuard Battery Housing Seal		Part Number
	Quantity	Set of one.	70-1848/S
	Details	For HT-Series 3 evaporators.	Replacement SampleGuard battery housing seal for HT-Series 3 evaporators.

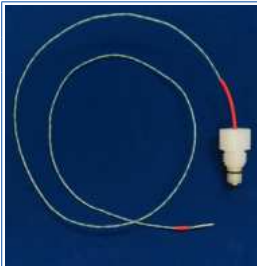
	HT-Series 3 SampleGuard Probe Sealing O-Ring		Part Number
	Quantity	Set of four.	70-1847/S
	Details	For HT-Series 3 evaporators.	Replacement SampleGuard probe sealing o-rings for HT-Series 3 evaporators.


HT-Series 3 SampleGuard Probes

All Series 3 SampleGuard probes are HCl-compatible. Probes are a consumable item.

	HT-Series 3 SampleGuard Probes		Part Number
	Length	420 mm	70-1839/S
	Details	For HT-Series 3 evaporators.	Colour: Blue For Rotor position A1 (Control)

	HT-Series 3 SampleGuard Probes		Part Number
	Length	640 mm	70-1838/S
	Details	For HT-Series 3 evaporators.	Colour: Grey For Rotor positions A1 (Auxiliary) and B4 (Control)

	HT-Series 3 SampleGuard Probes		Part Number
	Length	740 mm	70-1843/S
	Details	For HT-Series 3 evaporators.	Colour: Red For Rotor position B4 (Auxiliary)

	HT-Series 3 SampleGuard Probe Blanking Plug		Part Number
	Quantity		70-1852/S
	Details	For HT-Series 3 evaporators.	Replacement SampleGuard Probe Blanking Plug for HT-Series 3 evaporators.

NOTE: For fitting instructions, please refer to the *HT-Series 3 Installation & Maintenance Manual*.

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Genevac Patents

Genevac products are protected by the following patents and patent applications.

1297873	2332865	1297873 FR	2396575
1153278	2334688	1556149 FR	2395772
1073505 FR	2351683	1153278 FR	2332865
699 18 734.6-08	6,878,342	699 18 734.6-08	2351683
699 18 733.8-08	7,252,803	699 18 733.8-08	6,878,342
699 09 770.3-08	6,682,631	1556149	7,252,803
600 07 636.9-08	6,605,474	600 07 636.9-08	7,503,997
1297874 CH	7,179,651	4465277	7461465
1297873 CH	1297874	1297874 CH	2024048
1073505 CH	1383605	1297873 CH	03769683.8
1196757 CH	1556149	1196757 CH	
2362590	1196757	2362590	
2363745	1153278	2363745	

All specifications are subject to change without notice. Coolheat®, VacRamp™, Dri-Pure®, SampleGuard™, SampleGenie™ and associated logos are trade-marks of Genevac Ltd. Unauthorised use is prohibited.

Your local Genevac sales representative will be happy to advise on the availability of special order items in addition to the sample holders included in this brochure.

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