

All in One Purifiers

VICI Metronics gas purifiers dramatically reduce contaminant levels and absorb a greater variety of contaminants than other gas purification products. Advanced materials and design features guarantee that the modules will produce gases that are at least a factor of ten higher than a 99.9999% "chromatography grade" cylinder of gas when the purifier is supplied by a 99.995% cylinder. The cost difference between the two grades of gas will pay for the cost of the gas purifier several times over during its operating life.

- Original equipment in Agilent® Mass Spec and LC Mass Spec
- Provide point-of-use gas purification of helium, hydrogen, methane, nitrogen, carbon dioxide, or air
- Reduce gas impurities from high PPM to low PPB levels
- Decrease baseline noise and increase GC/MS sensitivity



Description	Agilent® Part Number		Velocity Part Number		Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	
VICI Helium Purifier	5182-3427	5182-3426	P100-1	P100-2	
VICI Hydrogen Purifier	5182-3425	5182-3424	P200-1	P200-2	
VICI Nitrogen Purifier	5182-3440	5182-3441	P300-1	P300-2	
VICI Air Purifier	-	-	P400-1	P400-2	
VICI Methane (Chemical Ionization) Purifier	G199-80410	-	P500-1	P500-2	
VICI Carbon Dioxide (Gas) Purifier	-	-	P600-1	P600-2	
VICI Moisture Purifier	-	-	T100-1	T100-2	
VICI Hydrocarbon Purifier	5181-8870	5181-8871	T200-1	T200-2	
VICI Mercury Purifier	-	-	T700-1	T700-2	
VICI Nitrogen Purifier for LCMS	G1946-80047	-	P310-1	P310-2	
VICI Helium Purifier for GCMS	5182-3467	-	P100-1	P100-2	

Velocity Excelasorb Multi-purpose Purifiers

This layered bed, multi-purpose trap is designed to remove oxygen, moisture, hydrocarbons and carbon dioxide from gas streams. This 750cc unit will take the place of three separate traps, simplifying installation and reducing the number of potential leak sites that contribute to the aspiration of contaminants into the system. End fittings are stainless steel Swagelok™ fitted with 40 micron stainless steel frits.



	Reduction	Capacity
Oxygen	<2 ppb	1,200mg
Moisture	<10 ppb	46g
Hydrocarbon	<20 ppb	30g
Carbon Dioxide	<1 ppm	100g
Dimensions (L x D)	445 x 61mm	
Pressure Rating	250 psi	

Description	Agilent® Part Number		Velocity Part Number		Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	
Excelasorb Multi-purpose Purifiers, Helium	RMSH-2	RMSH-4	TTE-750-2	TTE-750-4	
Excelasorb Multi-purpose Purifiers, Nitrogen	RMSN-2	RMSN-4	TTE-750-2-N	TTE-750-4-N	
Excelasorb Multi-purpose Purifiers, Hydrogen	RMSHY-2	RMSHY-4	TTE-750-2-H	TTE-750-4-H	
Excelasorb Multi-purpose Purifiers, Air	-	-	TTE-750-2-A	TTE-750-4-A	
Mounting Clip for Excelasorb trap (2 recommended)	UMC-5-2		TTC-5		

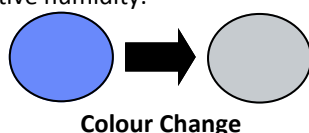
Indicating Moisture Traps - Polycarbonate Body

These moisture traps utilize polycarbonate bodies, more inert and resistant to infusion than the acrylic used by other manufacturers. These traps are refillable and available in three sizes with three different adsorbent combinations. The ends are provided with Swagelok™ tube fittings. Each end fitting includes a 40 micron sintered stainless steel frit.



Molecular Sieves 13X and Indicating 4A

The adsorbents most commonly employed for gas drying in gas chromatography. The indicating 4A changes from blue to tan at 20% relative humidity.

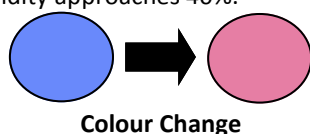


	120cc	200cc	400cc
Capacity	22g	36g	72g
Efficiency	<25ppb	<20ppb	<15ppb
Dimensions (L x D)	229 x 38mm	318 x 38mm	445 x 45mm
Pressure Rating	125psi	125psi	125psi

Description	Agilent® Part Number		Velocity Part Number		Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	
Indicating Moisture Trap, Mol-Sieve 13X & Indicating 4A, 120cc	MT120-2	MT120-4	TTM-120-2	TTM-120-4	
Indicating Moisture Trap, Mol-Sieve 13X & Indicating 4A, 200cc	MT-200-2	MT-200-4	TTM-200-2	TTM-200-4	
Indicating Moisture Trap, Mol-Sieve 13X & Indicating 4A, 400cc	MT400-2	MT400-4	TTM-400-2	TTM-400-4	
Moisture Trap Refill - 1 Pint	MSR-1		TTMR-1		
Mounting Clip for 120cc and 200cc Purifiers (2 required)	MC-1		TTC-3		
Mounting Clip for 400cc Purifiers (2 required)	UMC-4		TTC-4		

Molecular Sieves 5A and Indicating Drierite™

This mixture will remove oil and hydrogen sulfide as well as moisture. The indicating Drierite™ changes from blue to pink as relative humidity approaches 40%.



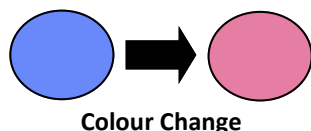
	120cc	200cc	400cc
Capacity	22g	36g	72g
Efficiency	<25ppb	<20ppb	<17ppb
Dimensions (L x D)	229 x 38mm	318 x 38mm	445 x 45mm
Pressure Rating	125psi	125psi	125psi

Description	Agilent® Part Number		Velocity Part Number		Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	
Indicating Moisture Trap, Mol-Sieve 5A & Drierite™, 120cc	MT120-2-D	MT120-4-D	TTM-120-2-D	TTM-120-4-D	
Indicating Moisture Trap, Mol-Sieve 5A & Drierite™, 200cc	MT-200-2-D	MT-200-4-D	TTM-200-2-D	TTM-200-4-D	
Indicating Moisture Trap, Mol-Sieve 5A & Drierite™, 400cc	MT400-2-D	MT400-4-D	TTM-400-2-D	TTM-400-4-D	
Moisture Trap Refill - 1 Pint	MSR-2		TTMRD-1		
Mounting Clip for 120cc and 200cc Purifiers (2 required)	MC-1		TTC-3		
Mounting Clip for 400cc Purifiers (2 required)	UMC-4		TTC-4		

Indicating Moisture Traps - Polycarbonate Body

Silica Gel Grade 40 and Indicating Silica Gel Grade 48

Extremely high capacity for moisture with high affinity for hydrocarbons. The indicating silica gel changes from blue to pink at 40% relative humidity. Not recommended for GC applications.

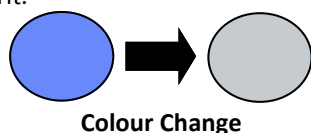
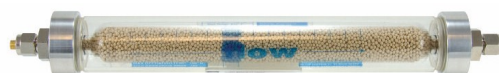


	120cc	200cc	400cc
Capacity	32g	53g	105g
Efficiency	<40ppm	<39ppm	<39ppm
Dimensions (L x D)	229 x 38mm	318 x 38mm	445 x 45mm
Pressure Rating	125psi	125psi	125psi

Description	Agilent® Part Number		Velocity Part Number		Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	
Indicating Moisture Trap, Silica Gel Grade 40 & Indicating Silica Gel 42, 120cc	MT120-2-S	MT120-4-S	TTM-120-2-S	TTM-120-4-S	
Indicating Moisture Trap, Silica Gel Grade 40 & Indicating Silica Gel 42, 200cc	MT-200-2-S	MT-200-4-S	TTM-200-2-S	TTM-200-4-S	
Indicating Moisture Trap, Silica Gel Grade 40 & Indicating Silica Gel 42, 400cc	MT400-2-S	MT400-4-S	TTM-400-2-S	TTM-400-4-S	
Moisture Trap Refill - 1 Pint	SGR		TTMRS-1		
Mounting Clip for 120cc and 200cc Purifiers (2 required)	MC-1		TTC-3		
Mounting Clip for 400cc Purifiers (2 required)	UMC-4		TTC-4		

Indicating Moisture Traps - Glass Body

These glass moisture traps are impervious to the infusion and outgassing of contaminants sometimes associated with plastic bodied traps. These are the best moisture traps available for use on carrier gas lines in gas chromatography and GC/MS, as well as other applications where high integrity moisture removal is desired. The glass moisture trap is filled with molecular sieve 13X and incorporates a band of indicating molecular sieve 4A. The adsorbents most commonly employed for gas drying in gas chromatography. The indicating 4A changes from blue to tan at 20% relative humidity. Each nickel plated Swagelok™ end fitting includes a 40 micron stainless steel frit.



	70cc	100cc	250cc
Capacity	11g	16g	40g
Efficiency	<10ppb	<10ppb	<10ppb
Dimensions (L x D)	254 x 38mm	316 x 38mm	407 x 45mm
Pressure Rating	125psi	125psi	125psi

Description	Agilent® Part Number		Velocity Part Number		Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	
Glass Indicating Moisture Purifier, 70cc	GMT-2GC-HP	GMT-4GC-HP	TTGM-70-2	TTGM-70-4	
Glass Indicating Moisture Purifier, 100cc	GMT-2-HP	GMT-4-HP	TTGM-100-2	TTGM-100-4	
Glass Indicating Moisture Purifier, 250cc	LGMT-2-HP	LGMT-4-HP	TTGM-250-2	TTGM-250-4	
Moisture Trap Refill - 1 Pint	GMSR		TTGMR-1		
Mounting Clip for 70cc and 100cc Purifiers (2 required)	UMC-3		TTC-3		
Mounting Clip for 250cc Purifiers (2 required)	UMC-4		TTC-4		

Non Indicating High Capacity Moisture Purifiers

This high capacity, refillable model contains 750cc of molecular sieve 13X. The trap body is one piece spun aluminium. The refill includes sufficient material to recharge this trap twice. Each Swagelok™ end fitting includes a 40 micron stainless steel frit.



	750cc
Moisture Capacity	130g
Efficiency	<5ppb
Dimensions (L x D)	445 x 61mm
Pressure Rating	250 psi

Description	Agilent® Part Number		Velocity Part Number		Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	
High Capacity Moisture Purifier, 750cc	BMT-2	BMT-4	TTM-750-2	TTM-750-4	
Moisture Trap Refill - 1/2 gallon (2 Refills)	BMSR-1		TTMR-4		
Mounting Clip for 750cc Purifiers (2 required)	UMC-5-2		TTC-5		

Combination Oxygen/Moisture Trap

These oxygen/moisture traps are ideal for use in gas chromatography and GC/MS. These traps utilize a one-piece spun aluminium body and Swagelok™ end fittings. Each fitting incorporates a 40 micron stainless steel frit for particulate control.



	100cc	750cc
Oxygen Capacity	450mg	3,200mg
Oxygen Efficiency	<2 ppb	<2 ppb
Moisture Capacity	2g	15g
Moisture Efficiency	<10 ppb	<10 ppb
Dimensions (L x D)	286 x 32mm	445 x 61mm
Pressure Rating	250 psi	250 psi

Description	Agilent® Part Number		Velocity Part Number			Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	1/2" Fittings	
Combination Oxygen/Moisture Purifier, 100cc	OT3-2	OT3-4	TTO-100-2	TTO-100-4	-	
Combination Oxygen/Moisture Purifier, 750cc	-	-	TTO-750-2	TTO-750-4	TTO-750-8	
Mounting Clip for 100cc Purifiers (2 required)	MC-1		TTC-2			
Mounting Clip for 750cc Purifiers (2 required)	UMC-5-2		TTC-5			

Non-Indicating Oxygen Traps

These oxygen/moisture traps are ideal for use in gas chromatography and GC/MS. These traps utilize a one-piece spun aluminium body and Swagelok™ end fittings. Each fitting incorporates a 40 micron stainless steel frit for particulate control.

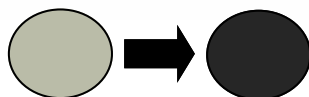


	100cc	750cc
Oxygen Capacity	450mg	3,200mg
Oxygen Efficiency	<2 ppb	<2 ppb
Dimensions (L x D)	286 x 32mm	445 x 61mm
Pressure Rating	250 psi	250 psi

Description	Agilent® Part Number		Velocity Part Number			Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	1/2" Fittings	
Non-Indicating Oxygen Purifier, 100cc	OT1-2	OT1-4	TTO-100-2	TTO-100-4	-	
High Capacity Oxygen Purifier, 750cc	BOT-2	BOT-4	TTO-750-2	TTO-750-4	TTO-750-8	
Mounting Clips for 100cc Purifiers (2 required)	MC-1		TTC-2			
Mounting Clips for 750cc Purifiers (2 required)	UMC-5-2		TTC-5			

Indicating Oxygen Traps

These glass-bodied traps utilize a nonhazardous material that reduces oxygen levels to less than 1 ppb. This indicating adsorbent changes colour from a light green to black as it adsorbs oxygen. Either of these traps is ideal as an indicator installed down stream of a Non-Indicating Oxygen trap. This allows high capacity removal of oxygen with the benefit of an indicator to alert the user of saturation of the primary trap. End fittings are nickel plated Swagelok™ with 40 micron stainless steel frits.



Colour Change

	50cc	150cc
Oxygen Capacity	50mg	150mg
Oxygen Efficiency	<1 ppb	<1 ppb
Dimensions (L x D)	242 x 29mm	242 x 38mm
Pressure Rating	100 psi	100 psi

Description	Agilent® Part Number		Velocity Part Number		Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	
Indicating Oxygen Purifiers, 50mg	IOT-2-HP	IOT-4-HP	TTIO-50-2	TTIO-50-4	
Indicating Oxygen Purifiers, 150mg	LIOT-2-HP	LIOT-4-HP	TTIO-150-2	TTIO-150-4	
Mounting Clips for 50cc Purifiers (2 required)	UMC-2		TTC-1		
Mounting Clips for 150cc Purifiers (2 required)	UMC-3		TTC-3		

Hydrocarbon Traps

These hydrocarbon traps utilize a very high surface area activated carbon. These refillable traps are available in several configurations. The standard model contains 200cc of filtering medium. For highly critical applications such as carrier gas lines in gas chromatography and GC/MS we offer 100cc and 750cc units that feature one piece spun aluminium bodies and are helium purged prior to shipment. Each Swagelok™ end fitting includes a 40 micron stainless steel frit.



	100cc	200cc	750cc
Capacity	11g	22g	80g
Efficiency	<20 ppb	<20 ppb	<15 ppb
Dimensions (L x D)	286 x 32mm	318 x 39mm	445 x 61mm
Pressure Rating	250 psi	250 psi	250 psi

Description	Agilent® Part Number		Velocity Part Number		Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	
Hydrocarbon Traps GC Grade, 100cc	-	-	TTH-100-2	TTH-100-4	
Hydrocarbon Traps, 200cc	HT200-2	HT200-4	TTH-200-2	TTH-200-4	
High Capacity Hydrocarbon Traps, 750cc	BHT-2	BHT-4	TTH-750-2	TTH-750-4	
Hydrocarbon Trap Refill	HCRMS		TTHR-1		
Mounting Clips for 100cc Purifiers (2 required)	-		TTC-2		
Mounting Clips for 200cc Purifiers (2 required)	MC-1		TTC-3		
Mounting Clips for 750cc Purifiers (2 required)	UMC-5-2		TTC-5		

Hydrocarbon/Moisture Traps

These refillable, 200cc hydrocarbon / moisture traps contain a mixed bed of activated carbon and molecular sieve 13X for the simultaneous removal of hydrocarbons and moisture. Each Swagelok™ end fitting includes a 40 micron stainless steel frit.



	200cc
Hydrocarbon Capacity	11g
Hydrocarbon Efficiency	<20 ppb
Moisture Capacity	14g
Moisture Efficiency	< 20 ppb
Dimensions (L x D)	318 x 39mm
Pressure Rating	250 psi

Description	Agilent® Part Number		Velocity Part Number		Price
	1/8" Fittings	1/4" Fittings	1/8" Fittings	1/4" Fittings	
Hydrocarbon/Moisture Trap, 200cc	HMT200-2	HMT200-4	TTHM-200-2	TTHM-200-4	
Hydrocarbon/Moisture Trap Refill	HCRMS		TTHMR-1		
Mounting Clips for 200cc Purifiers (2 required)	MC-1		TTC-3		

SGT Baseplate Style Multi-purpose Gas Purifiers



SGT Cartridge systems make changing gas filters quick and easy. A base plate allows cartridges to be exchanged without introducing oxygen. Spring loaded check valves seal when a filter is removed and open only when a new filter has been locked in place. There is no longer a need for loosening and tightening fittings every time a trap is changed, and your system will not become contaminated in the process.

- **Ultra-high capacity**
- **High-purity output ensures**
- **99.9999% Pure gas**
- **“Quick connect” fittings for easy, leak tight cartridge changes**
- **Glass inside to prevent diffusion, plastic outside for safety**

Description	Agilent	Velocity	Price
SGT 3 Filters Kit - 1/8" Brass Triple Filter, 2 Combi filters, 3 Position Base plate	5182-9703	SGT-B1030-B8	
SGT 1 Triple Filter Kit - 1/8 " Brass Triple Filter, 1 Position Base plate	5182-9704	SGT-B1010-B8	
SGT 4 Filters Kit - 1/8" Brass	5182-0816	SGT-B1040-B8	
SGT 1 Triple He Filter Kit - 1/8" Brass Triple He Filter, 1 Position Base plate	5188-6475	SGT-B1011-B8	
SGT 2 Combi Filters Kit - 1/8" Brass 2 Combi Filters, 2 Position Base plate	5183-4774	SGT-B1020-B8	
SGT Oxygen Filter	5182-0818	SGT-F0102	
SGT Moisture Filter	5182-0817	SGT-F0101	
SGT Hydrocarbon Filter	5182-0820	SGT-F0103	
SGT Triple Filter - Removes Oxygen, Moisture, and Hydrocarbons	5182-9705	SGT-F0301	
SGT Combi Filter - Removes Moisture and Hydrocarbons	5183-4771	SGT-F0201	
SGT Triple Filter (He Purged) - Removes Oxygen, Moisture, and Hydrocarbons	5188-6474	SGT-F0302	