

# CAMBUSTION

## 2018 spare parts price list

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This price list is intended as a guide for customers when considering the purchase of spare parts for their Cambustion equipment. Other spares are available but have not been included as they are less frequently used.






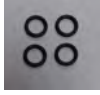
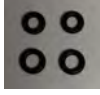



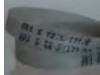
You are welcome to contact Cambustion for any advice (technical or otherwise).







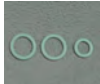
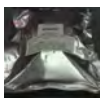
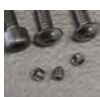



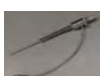

Please contact Cambustion for a quotation (which will include the appropriate shipping cost) before placing an order with us.
















Note that a minimum order value of £200, €258 or \$300 applies.















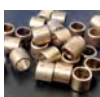
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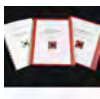
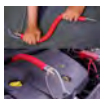

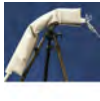

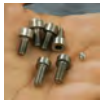
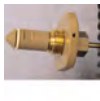
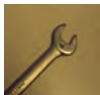
*Every effort has been taken to ensure that the contents of this price list are accurate and applicable for the duration of 2018. However, Cambustion reserves the right to change the prices when circumstances require this (e.g. large exchange rate changes).*

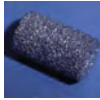














<u>Category</u>	<u>AAC</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
005-297	1 metre length of conductive silicone rubber tubing (Ø=9.8 mm).		£13	€17	\$20
036-097	24V Accessory Power plug		£15	€20	\$23
036-583	HEPA sheath flow filter set		£220	€284	\$330
036-586	HEPA-VENT leak flow filter set		£49	€64	\$74
036-589	Motor flexible drive coupling		£158	€204	\$237
036-590	Pillow block o-ring set		£5	€7	\$8
036-591	Fluid connector manifold o-ring set		£5	€7	\$8
036-597	Classifier sealing o-ring set		£9	€12	\$14
036-598	Main PCB fuse set		£5	€7	\$8
036-647	Sheath air flowmeter		£250	€323	\$375
036-677	AAC Lid Seal		£50	€65	\$75
036-716	Replacement drive belt		£17	€22	\$26










<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
001-083	Set of 100 replacement filter papers for 500-series in-line sample filter*		£292	€377	\$438
002-035	CLD500 Sample head glass rod		£369	€477	\$554
002-043	CLD tube removal tool. For removing CLD tube from the sample head.		£231	€298	\$347
002-044	fNOx400 Sample head heater and T/C loom		£921	€1,189	\$1,382
002-055	CLD500 Sample head insulation. Set of mating halves.		£154	€199	\$231
002-066	CLD500 standard length exhaust heated sample probe (150mm rigid length)		£1,135	€1,465	\$1,703
002-072	CLD500 sample head seal kit. Includes high-temperature o-rings for CP cap, glass rod, sample probe and CLD tube, Viton o-rings for restrictors.		£167	€216	\$251
002-079	Ozone restrictor assembly. Set of two restrictors inside ptfе tubing.		£92	€119	\$138
002-080	2kg of drier desiccant for ozone generator with built-in drier within ozone generator enclosure*		£153	€198	\$230
002-082	CLD500 Sample head screw kit. Suitable for service of one sample head.*		£25	€33	\$38
002-096	In-line sample filter kit with replaceable paper elements for CLD500 for two channels (includes flow meter, separation tool, spare papers, instructions and carrying case).		£1,481	€1,911	\$2,222
002-102	CLD500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M14 SSP)		£1,135	€1,465	\$1,703
002-103	CLD500 custom length exhaust heated sample probe		£1,285	€1,658	\$1,928
002-104	CLD500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M14 SSP)		£1,285	€1,658	\$1,928
002-107	CLD500 standard length exhaust heated sample probe, suitable for turbocharged sample points (150mm rigid length)		£1,160	€1,497	\$1,740

<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
002-120	CLD500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M12 SSP)		£1,185	€1,529	\$1,778
002-121	CLD500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M12 SSP)		£1,335	€1,723	\$2,003
003-012	NOx converter complete tools and Spares Kit*		£194	€251	\$291
003-020	NOx converter heater and thermocouple block assembly.		£618	€798	\$927
003-022	NOx converter insulation. Set of mating halves.		£185	€239	\$278
003-024	NOx converter.		£4,320	€5,573	\$6,480
005-019	Vacuum Pump Hose, 1/2 inch i/d. Suitable for vacuum pump exhaust. (Price per m length)*		£10	€13	\$15
010-016	HT-extension for sampling spark plug*		£181	€234	\$272
011-008	CLD500 In-line filter kit. Includes 1x insertion/removal tool 2x filter holder 2x element support 1x set of 10 elements. Superseded by paper element in-line sample filter.		£468	€604	\$702
011-031	CLD500 Complete tools and spares kit.*		£2,172	€2,802	\$3,258
011-043	HFR500 2-stage vac bleed filter		£108	€140	\$162
011-081	2.5-litre extension chamber for adapting gas analyzers for in-cylinder or rapidly fluctuating pressure sampling.*		£584	€754	\$876
012-059	Non-keyed connector (brass). For inlet 1/4in gas supplies.*		£44	€57	\$66
012-061	Green-keyed stainless steel gas connector. For 1/4in size inlet gas supplies.		£79	€102	\$119
012-063	Non-keyed connector (brass). For inlet 6mm size gas supplies.*		£41	€53	\$62

<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
012-065	Green-keyed stainless steel gas connector. For 6mm size inlet gas supplies.		£79	€102	\$119
012-079	M14 Sampling Spark Plug body (to customer's specified thread/seal type). Note that in-cylinder sample probes and CP extension volume required for in-cylinder sampling.		£4,196	€5,413	\$6,294
012-080	M12 Sampling Spark Plug body (to customer's specified thread/seal type). Note that in-cylinder sample probes and CP extension volume required for in-cylinder sampling.		£4,196	€5,413	\$6,294
012-148	Sampling Spark Plug Kit including: M14 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,158	€9,234	\$10,737
012-149	Sampling Spark Plug Kit including: M12 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,258	€9,363	\$10,887
013-010	Calibration Adaptor to fit standard 150mm rigid sample probe		£492	€635	\$738
013-064	Tip seal for 10C or 5C dry scroll vacuum pump.*		£290	€375	\$435
013-095	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.007in for stubbornly blocked FID tube*		£33	€43	\$50
013-096	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.009in for stubbornly blocked FID tube*		£33	€43	\$50
013-097	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.012in for cleaning 0.013in insert*		£33	€43	\$50
013-098	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.015in for cleaning 0.016in insert*		£33	€43	\$50
013-099	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.022in for cleaning 400-series probes*		£33	€43	\$50
013-100	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.024in for removing inserts from turbo probes*		£33	€43	\$50
013-101	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.038in for cleaning 500-series exhaust probes*		£33	€43	\$50
013-103	Set of 50 copper ferrules (1/8in). For fitting sample probe to CAL-APT.*		£25	€33	\$38
















<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
013-107	Set of 50 copper ferrules (3/16in). For 316FIT.*		£25	€33	\$38
013-108	3/16in stainless steel compression fitting with 1/4in NPT thread. Pre-fitted with copper ferrule. For locating CAL-APT in engine exhaust.*		£25	€33	\$38
013-109	0.012in Sample probe insert. Set of 2. For in-cylinder sample probes.		£32	€42	\$48
013-110	0.015in Sample probe insert. Set of 2. For in-cylinder sample probes.		£32	€42	\$48
013-117	Cleaning Wires. Set of 5. Diameter = 0.009 inch for standard exhaust CLD tube (red)		£62	€80	\$93
013-124	500-series gas analyzer user-interface software upgrade to latest version		£227	€293	\$341
013-125	Site licence 500-series gas analyzer user-interface software upgrade to latest version		£895	€1,155	\$1,343
013-128	Full set of User Manuals (for CLD500)		£47	€61	\$71
013-134	CLD500 Long flexible exhaust sample probe (e.g. for chassis dynamometer testing). Typical dimensions: 700mm flexi section; 90mm rigid section. This item includes an appropriate calibration adapter to suit the rigid length of the probe. Contact Cambustion for other available lengths.		£1,707	€2,203	\$2,561
013-136	CLD500 set of fittings. To connect one conduit to one sample head.*		£129	€167	\$194
013-139	CLD500 Head cover. For use with heated umbilical in sub-0°C conditions.		£269	€348	\$404
013-140	NOx converter high temperature O-ring kit for conical connector. Set of 2 o-rings.*		£91	€118	\$137
013-141	NOx converter screw kit. Suitable for service of convertor.*		£25	€33	\$38
013-142	NOx converter compression fitting set including high-temperature o-ring (sample head side)		£149	€193	\$224
013-144	Service of ozone generator		£1,042	€1,345	\$1,563

<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
013-145	In-line filter elements. Set of 10.		£62	€80	\$93
013-170	0.030in Sample probe insert. Set of 2. For turbo sample probes.		£32	€42	\$48
013-173	Vacuum Filter Elements (mist & odour for Leybold Vac pump).*		£136	€176	\$204
013-174	Two-litre can of Anderol vacuum pump oil refill.*		£75	€97	\$113
013-196	Calibration Adaptor to fit custom length sample probe		£522	€674	\$783
013-229	Tip seal for XDS35i dry scroll vacuum pump.*		£290	€375	\$435
013-242	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.014in for cleaning 0.015in insert*		£33	€43	\$50
013-243	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.011in for cleaning 0.012in insert*		£33	€43	\$50
015-005	CLD500 10m sampling conduit only (without sample head fitted). Other lengths and heated variants for T<0C sampling are available on request		£3,703	€4,777	\$5,555
015-006	CLD500 sampling head only (without conduit fitted).		£9,977	€12,871	\$14,966
015-007	Ozone generator*		£4,663	€6,016	\$6,995
015-078	RS485 USB hub and 10-metre RS485 Cable. For communications between the analyser and computer.*		£258	€333	\$387
015-086	Tripod and Ball Head assembly for Sample Heads.*		£401	€518	\$602
015-089	Swivel ball-head and quick-release for tripod sample head mounts*		£103	€133	\$155
015-106	RS232 USB COM Port and cable. For communications between the analyser and computer.*		£76	€99	\$114
















<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
017-059	Dry scroll vacuum pump suitable for CLD500 (CLD pump only) (Not suitable for upgrading f NOx400). Includes cables and 1/2 inch (12.7mm) hosetail fittings. Please specify supply voltage required at time of ordering.		£2,902	€3,744	\$4,353
017-060	Dry scroll vacuum pump suitable for HFR500, NDIR500 or CLD500 (CP) (Not suitable for upgrading f NOx400). Includes cables and 1/2 inch (12.7mm) hosetail fittings. Please specify supply voltage required at time of ordering.		£3,708	€4,784	\$5,562
017-071	NOx converter combined coils (coil + unheated probe) and copper ferrules. Set of 10.		£1,494	€1,928	\$2,241
017-072	NO2 converter kit for 2 channels including 2 converters, 8 spare coils and tool kit		£8,484	€10,945	\$12,726
017-089	CLD500 One-year maintenance and technical support agreement.		£3,726	€4,807	\$5,589
017-097	Service (inc. strip-down; ultra-sound clean; seal renewal; function check certificate) of one CLD500 sample head.		£1,152	€1,487	\$1,728
017-116	AK Protocol Remote Control. To allow a host computer to send control data and receive status information from the User Interface, using AK protocol over a Serial or an Ethernet/LAN connection.		£1,163	€1,501	\$1,745
017-144	NOx Converter Kit for ONE channel including 1 converter, 4 spare coils and tools.		£4,331	€5,587	\$6,497
017-150	Yellow (0.65mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-151	Red (1.0mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-152	Green (1.4mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-153	Blue (1.7mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-193	CLD tube holder (exhaust) with high-temperature o-ring and set of 5 cleaning tools.		£231	€298	\$347
017-194	CLD tube holder (in-cylinder) with high-temperature o-ring and set of 5 cleaning tools.		£231	€298	\$347


























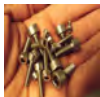






<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
017-196	Silver (1.2mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
027-417	Set of pipes and clamps. For fitting a 15m <sup>3</sup> /hour TriScroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£137	€177	\$206
027-418	Set of pipes and clamps. For fitting a 5m <sup>3</sup> /hour and 15m <sup>3</sup> /hour TriScroll Pump to a Cambustion CLD500 Analyser.*		£318	€411	\$477
027-971	Set of pipes and clamps. For fitting a 15m <sup>3</sup> /hour Leybold Scroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£137	€177	\$206
027-985	Set of pipes and clamps. For fitting two 5m <sup>3</sup> /hour Leybold Scroll Pumps to a Cambustion CLD500 Analyser.*		£318	€411	\$477








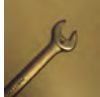






<u>Category</u>	<u>CPMA</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
005-158	1 metre length of conductive silicone rubber tubing (Ø=11.5 mm).		£17	€22	\$26
005-297	1 metre length of conductive silicone rubber tubing (Ø=9.8 mm).		£13	€17	\$20
013-181	Foam inserts for CPMA cardboard box. Order with box 013-215		£608	€785	\$912
013-214	Reusable flight case suitable for CPMA		£1,151	€1,485	\$1,727
013-215	Cardboard box for Cambustion instruments		£33	€43	\$50
013-222	2m mains power cable with 16A IEC socket and UK BS1363 plug		£21	€28	\$32
013-223	2m mains power cable with 16A IEC socket and Schuko CEE7 plug		£21	€28	\$32
013-224	2m mains power cable with 16A IEC socket and NEMA 5-15 plug		£37	€48	\$56
020-070	M4 x 16 CSK screw for classifier pulley		£2	€3	\$3
026-168	M3 x 12 CSK screw for classifier pulley magnet		£2	€3	\$3
036-080	Motor pulley bearing		£14	€19	\$21
036-097	24V Accessory Power plug		£15	€20	\$23
036-123	Motor flexible drive coupling		£158	€204	\$237
036-125	Classifier pulley, large		£278	€359	\$417
036-126	Classifier pulley, small		£201	€260	\$302

<u>Category</u>	<u>CPMA</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
036-127	Motor pulley, large		£186	€240	\$279
036-128	Motor pulley, small		£139	€180	\$209
036-136	Lid sealing gasket		£40	€52	\$60
036-184	Replacement plastic skirt for CPMA		£165	€213	\$248
036-187	Drive belt for outer cylinder		£12	€16	\$18
036-193	Drive belt for inner cylinder		£12	€16	\$18
036-222	Replacement motor and looms for CPMA		£1,132	€1,461	\$1,698
036-250	USB to RS232 serial adapter cable		£24	€31	\$36
036-269	Torque driver blade		£10	€13	\$15
036-270	Torque driver		£130	€168	\$195
036-271	Classifier pulley magnet		£4	€6	\$6
036-314	Classifier pulley thrust screw		£11	€15	\$17
036-340	Classifier pulley grub screw		£2	€3	\$3

<u>Category</u>	<u>DMS500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
005-016	PTFE tube, 6mm o/d x 4mm i/d* (Price per metre)		£9	€12	\$14
005-018	Vacuum Pump Hose, 3/4 inch i/d. Suitable for DMS500 vacuum pump inlet. (Price per m length)*		£10	€13	\$15
005-019	Vacuum Pump Hose, 1/2 inch i/d. Suitable for vacuum pump exhaust. (Price per m length)*		£10	€13	\$15
005-021	DMS500 SCG removal tool (long allen key {hexagon wrench}).		£85	€110	\$128
005-033	DMS500 Sample HEPA (Carbon)		£199	€257	\$299
005-067	1/4 BSP (ISO) thread inlet fitting for DMS500 heated sample line		£45	€59	\$68
005-075	Space charge guard top insulator ring		£59	€77	\$89
005-146	DMS500 Classifier cleaning tool		£100	€129	\$150
005-152	DMS500 Charger core.		£910	€1,174	\$1,365
005-158	1 metre length of conductive silicone rubber tubing (Ø=11.5 mm).		£17	€22	\$26
005-159	High temperature 6mm pushfit for DMS remote cyclone		£21	€28	\$32
005-202	Gold plated spring pin for HT connection		£4	€6	\$6
005-221	K-type thermocouple socket (mini)*		£5	€7	\$8
005-222	K-type thermocouple plug (mini)*		£5	€7	\$8
005-284	Thermocouple for DMS500 heated sample line remote cyclone, DSA sample manifold and DPG cooling air exit.*		£20	€26	\$30






<u>Category</u>	<u>DMS500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
005-289	DMS500 Sample mass flow meter (including calibration)		£227	€293	\$341
005-297	1 metre length of conductive silicone rubber tubing (Ø=9.8 mm).		£13	€17	\$20
005-383	BS154 O ring. Classifier to Charger joint.		£2	€3	\$3
005-406	BS015 Viton O ring for DMS cyclone (internal joining two halves of cyclone), and for DSA solenoid valve adaptor		£2	€3	\$3
005-412	BS610 Viton O ring for DMS cyclone (end against restrictor)		£2	€3	\$3
005-414	OR 22 x 2 Viton O ring for DMS cyclone (external on cyclone)		£3	€4	\$5
005-442	Insulating cover for inlet end of DMS sample line		£178	€230	\$267
005-447	Replacement reusable shipping crate for DMS500		£594	€767	\$891
005-484	Heater 240v 75w + 10" swaged in PTFE leads for DMS500 remote cyclone		£54	€70	\$81
005-510	DMS500 Charger core service return (fitted with new corona wire)		£308	€398	\$462
005-511	Replacement set of 1 micron restrictors for DMS500 and DSA cyclones		£116	€150	\$174
005-537	Kit to upgrade existing DMS500 from serial to Ethernet communications		£266	€344	\$399
005-546	Replacement connector and crimps for DMS500 flowmeter		£12	€16	\$18
005-559	1/4 NPT thread inlet fitting for DMS500 heated sample line		£45	€59	\$68
005-568	Standard HEPA filter for DMS500 Mk2 with Sample HEPA filter upgrade modification		£70	€91	\$105

<u>Category</u>	<u>DMS500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
005-573	DMS500 Space charge guard assembly		£600	€774	\$900
011-079	DMS500 classifier cleaning wipes		£27	€35	\$41
012-063	Non-keyed connector (brass). For inlet 6mm size gas supplies.*		£41	€53	\$62
013-013	NW40 Centre Ring		£21	€28	\$32
013-014	NW40 clamp		£13	€17	\$20
013-018	NW25 centre ring		£17	€22	\$26
013-019	NW25 clamp		£12	€16	\$18
013-150	DMS500 Complete tools and Spares Kit excluding cleaning tool and spare charger		£998	€1,288	\$1,497
013-175	Replacement screw set for DMS500 MkII		£38	€50	\$57
013-222	2m mains power cable with 16A IEC socket and UK BS1363 plug		£21	€28	\$32
013-223	2m mains power cable with 16A IEC socket and Schuko CEE7 plug		£21	€28	\$32
013-224	2m mains power cable with 16A IEC socket and NEMA 5-15 plug		£37	€48	\$56
015-166	USB Ethernet adaptor*		£32	€42	\$48
016-061	Replacement Ethernet Adaptor Card (for DMS500 M67 to M144 inclusive)		£221	€286	\$332
017-048	DMS500 5 metre Heated Sample Line, with BSP/ISO threaded inlet.		£6,575	€8,482	\$9,863










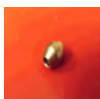
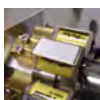




<u>Category</u>	<u>DMS500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
017-049	DMS500 2 metre Heated Sample Line, with BSP/ISO threaded inlet.		£6,575	€8,482	\$9,863
017-050	DMS500 Re-calibration of system (spherical calibration) and service (including replacement of seals filters and function check). Calibration of 2nd diluter if fitted. Calibration certificate issued.		£3,790	€4,890	\$5,685
017-051	DMS500 Empirical soot calibration for Diesel engine work. Requires simultaneous purchase of 017-050		£1,226	€1,582	\$1,839
017-052	DMS500 Re-calibration of system (spherical calibration) for instruments fitted with optional 5-2500nm range. Calibration certificate issued		£3,749	€4,837	\$5,624
017-053	DMS500 Calibration check (5-1000nm) of system as received prior to service- certificate issued.  1st dilution accuracy check.  2nd dilution accuracy check.  (Assumes no faults which prevent operation)		£1,355	€1,748	\$2,033
017-056	AK Protocol Remote Control. To allow a host computer to send control data and receive status information from the User Interface, using AK protocol over a Serial or an Ethernet/LAN connection.		£1,176	€1,518	\$1,764
017-058	Membrane air drier for compressed air. Metric fittings.		£1,023	€1,320	\$1,535
017-061	DMS500 Cleaning of the heated sampling line and replacement of PTFE inner		£250	€323	\$375
017-068	6m length of high temperature conductive PTFE/Teflon tubing (Ø=6mm).		£47	€61	\$71
017-206	Membrane air drier for compressed air (Inch fittings)		£1,023	€1,320	\$1,535
017-248	DMS500 5 metre Heated Sample Line, with NPT threaded inlet.		£6,575	€8,482	\$9,863
017-249	DMS500 2 metre Heated Sample Line, with NPT threaded inlet.		£6,575	€8,482	\$9,863
017-250	DMS500 7 metre Heated Sample Line, with BSP/ISO threaded inlet.		£6,575	€8,482	\$9,863
017-251	DMS500 7 metre Heated Sample Line, with NPT threaded inlet.		£6,575	€8,482	\$9,863

<u>Category</u>	<u>DMS500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
020-216	1 micron / 8 lpm cyclone		£476	€615	\$714
020-397	Full set of User Manuals (for DMS500)		£47	€61	\$71
036-162	Replacement Ethernet Connector (for DMS500 M145 onwards)		£22	€29	\$33
























<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
005-221	K-type thermocouple socket (mini)*		£5	€7	\$8
005-222	K-type thermocouple plug (mini)*		£5	€7	\$8
005-284	Thermocouple for DMS500 heated sample line remote cyclone, DSA sample manifold and DPG cooling air exit.*		£20	€26	\$30
005-297	1 metre length of conductive silicone rubber tubing (Ø=9.8 mm).		£13	€17	\$20
006-010	DPG cooling air inlet Bag filter (D1-D17)*		£105	€136	\$158
006-016	Pair of 22inch Heat resistant gaunlets XL*		£82	€106	\$123
006-017	External Fuel Bleed Assembly*		£56	€73	\$84
006-018	Thermocouple extension 1.5m (for rear thermocouples)*		£30	€39	\$45
006-031	Neophix V clamp (D7 onwards)*		£36	€47	\$54
006-033	ACI exhaust Fan belt*		£57	€74	\$86
006-044	Igniter 1dz007*		£23	€30	\$35
006-048	Axial Fan 19inch crossflow*		£326	€421	\$489
006-049	Lower burner gasket		£76	€99	\$114
006-052	Lower burner flange gasket		£52	€68	\$78
006-053	Copper washer for DPG burner inspection window (where fitted)*		£2	€3	\$3
















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
006-056	Bleed solenoid valve*		£139	€180	\$209
006-057	2/2 NC 3mm solenoid valve*		£94	€122	\$141
006-059	Flow control 3/M*		£166	€215	\$249
006-062	ST35 Electronics controller (burner assy)*		£143	€185	\$215
006-063	ST35 EBI Ignition transformer*		£66	€86	\$99
006-068	Burner body heatsink heater*		£40	€52	\$60
006-070	PSU 2 DRAN60-12 (12V)*		£91	€118	\$137
006-071	PSU 3 DRAN60-05 (5V)*		£91	€118	\$137
006-081	Hager NDN332A (MCB 1& 3)*		£112	€145	\$168
006-090	Over Centre Catch*		£22	€29	\$33
006-095	Optical liquid sensor*		£105	€136	\$158
006-096	Fire detector*		£63	€82	\$95
006-107	Primary air Watlow heater 240V 75W*		£86	€111	\$129
006-108	Primary flow meter*		£1,329	€1,715	\$1,994
006-122	Weber flow switch 3202 (Plastic Body)*		£353	€456	\$530
















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
006-124	Batch 3-4 Tertiary Flow Valve - Equivalent to obsolete part. Diaphragm valve 240V 2inch NC.		£425	€549	\$638
006-128	Tertiary heater gasket (hot end Klinger Milam)*		£123	€159	\$185
006-129	Tertiary heater gasket (hot end Klinger graphite)*		£24	€31	\$36
006-133	DPF flange and burner top hot gasket (D7 onwards)		£68	€88	\$102
006-135	Burner gasket		£17	€22	\$26
006-141	Controller PCB*		£3,428	€4,423	\$5,142
006-153	Thermocouple Type K 1.5mm x 50mm*		£37	€48	\$56
006-154	FTH in brick TC Type K 0.5mm x 1m sheathed section and 1.5m cable with plug*		£48	€62	\$72
006-155	1.5mm thermocouple gland stainless steel nut*		£3	€4	\$5
006-156	1.5mm thermocouple gland stainless steel olive*		£3	€4	\$5
006-184	Solenoid Valve for Pressure Transducer Assembly*		£65	€84	\$98
006-190	Pressure manifold suction filter*		£20	€26	\$30
006-224	Secondary Bosch HFM5 Air mass meter (Bosch part No. 0280217531, D14 onwards)*		£326	€421	\$489
006-228	Tertiary Bosch HFM5 Air mass meter (Bosch part No. 0280217123, D14 onwards)*		£310	€400	\$465
006-316	Fuel pressure transducer*		£214	€277	\$321

<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
006-319	DPG inlet Hepa filter GA/H11/C 305x609x292*		£410	€529	\$615
006-409	Racal Oil filter element (2 micron)*		£60	€78	\$90
006-411	Crosland Oil filter Element*		£6	€8	\$9
006-420	CO detector Honeywell 0-200ppm 2106B1306*		£581	€750	\$872
006-494	Fuel flow meter (Viton seals)*		£367	€474	\$551
006-552	Magnetic lid lock*		£132	€171	\$198
006-559	Bell V40 fuel flow meter*		£543	€701	\$815
006-565	Pack of 5 paper rolls for AVL415 systems*		£359	€464	\$539
006-737	Solenoid valve 0-22 bar (AC)*		£129	€167	\$194
006-738	Pressure transmitter PA-21C/60bar*		£329	€425	\$494
006-741	Standard Pressure StSt Oval gear flowmeter*		£1,554	€2,005	\$2,331
006-824	DPG inlet HEPA air filter (D1-6, 18 onwards) dims: 305 x 609 x 146mm*		£410	€529	\$615
006-825	DPG cooling air inlet bag filter (D18 onwards)*		£112	€145	\$168
006-867	Igniter HT cable*		£45	€59	\$68
007-012	M12 x 25 Black Screw (Socket Head) for FTA		£2	€3	\$3
















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
007-019	DPF inlet flange		£312	€403	\$468
007-038	Filter test housing		£14,127	€18,224	\$21,191
007-039	FTH front gasket		£29	€38	\$44
007-046	FTA DPF inlet face T/C. Dia = 1.5mm, 300mm long*		£74	€96	\$111
007-048	FTH door sealing rope. (Price shown is "per metre" but 3 metres required to be trimmed for each FTH door seal). 4 metres for LARGE HEAVY-DUTY FTH*		£15	€20	\$23
007-090	Orifice flow tube (for non FTH system)		£4,279	€5,520	\$6,419
007-091	Orifice flow tube (for FTH system)		£4,279	€5,520	\$6,419
007-094	Filter Test Adaptor for 125 x 197 x 165 Oval inc. 20 seals		£5,450	€7,031	\$8,175
007-095	Filter Test Adaptor for 5.66inch round inc. 20 seals		£4,320	€5,573	\$6,480
007-096	Filter Test Adaptor for 102 x 198 x 174 long oval inc. 20 seals		£5,450	€7,031	\$8,175
007-097	Filter Test Adaptor for 170mm dia x 152 long inc. 20 seals		£5,450	€7,031	\$8,175
007-098	Filter Test Adaptor for 5.2 inch round inc. 20 seals		£4,320	€5,573	\$6,480
007-099	Filter Test Adaptor for 135 x 175 x 203 long rounded octagon inc. 20 seals		£5,450	€7,031	\$8,175
007-100	Filter Test Adaptor for 126 x 172.5 x 170 long oval inc. 20 seals		£5,450	€7,031	\$8,175
007-180	High temperature sealing ring for FTA01/FTA40 to fit DPF size: 5.66" round or 130mm x 156mm oval. Pre-tested.		£38	€50	\$57

<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
007-181	High temperature sealing ring for FTA02 to fit DPF sizes: 198mm x 102mm oval AND ALSO 175mm x 135mm rounded octagon. Pre-tested.		£38	€50	\$57
007-183	High temperature sealing ring for FTA12 to fit DPF size: 7" round. Pre-tested.		£38	€50	\$57
007-186	High temperature sealing ring for FTA06 to fit DPF size: 172.5mm x 126mm oval. Pre-tested.		£38	€50	\$57
007-187	High temperature sealing ring for FTA04 to fit DPF sizes: 5.15" / 5.2" round. Pre-tested.		£38	€50	\$57
007-191	Filter Test Adaptor for 6.5 inch round inc. 20 seals		£4,320	€5,573	\$6,480
007-198	FTH Barrel Nut M12 - 15mm dia		£26	€34	\$39
007-207	High temperature sealing ring for FTA03 to fit DPF size: 4.66" round. Pre-tested.		£38	€50	\$57
007-232	FTA - FTH M12 x 30 Ball nut		£19	€25	\$29
007-233	High temperature sealing ring for FTA03 to fit DPF size: 6.7" round. Pre-tested.		£38	€50	\$57
007-294	High temperature sealing ring for FTA16 to fit DPF size: 9" round. Tested.		£45	€59	\$68
007-352	Filter Test Adaptor for 7 inch round inc. 20 seals		£4,320	€5,573	\$6,480
007-367	Filter Test Adaptor for 5 inch round inc. 20 seals		£4,320	€5,573	\$6,480
007-376	High temperature sealing ring to fit DPF size 5" round. Pre-tested.		£38	€50	\$57
007-386	Filter Test Adaptor for 193mm x 171.5mm oval inc. 20 seals		£5,450	€7,031	\$8,175
007-394	High temperature sealing ring to fit DPF size 193mm x 171.5mm oval. Pre-tested.		£38	€50	\$57

<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
007-465	FTH Barrel Nut M12 - 19mm dia		£26	€34	\$39
007-512	High temperature sealing ring to fit DPF size 205mm x 141mm oval. Pre-tested.		£38	€50	\$57
007-557	Filter Test Adaptor for 177.8 x 134mm tri-oval inc. 20 seals		£5,499	€7,094	\$8,249
007-561	High temperature sealing ring to fit DPF size 177.8mm x 134mm oval or 6.5 inch round. Pre-tested.		£38	€50	\$57
007-564	Filter Test Adaptor for 177.8mm x 215.9mm oval inc. 20 seals		£5,450	€7,031	\$8,175
007-565	High temperature sealing ring to fit DPF size 177.8mm x 215.9mm oval. Pre-tested.		£38	€50	\$57
007-571	Filter Test Adaptor for 178mm x 134mm oval inc. 20 seals		£5,499	€7,094	\$8,249
007-580	Filter Test Adaptor for 6 inch round inc. 20 seals		£4,320	€5,573	\$6,480
007-594	High temperature sealing ring to fit DPF size 138mm x 193mm oval. Pre-tested.		£38	€50	\$57
007-597	High temperature sealing ring to fit DPF size: 10.5 inch round. Pre-tested.		£38	€50	\$57
007-612	Tested Seal for 135 x 175 octagon or 6.43 inch round DPF.		£38	€50	\$57
007-614	Tested Seal for 146mm (oversized 5.66 inch) DPF to be used in FTA01		£38	€50	\$57
007-616	Tested seal for 6.77 inch round DPF. Use in 6.7 inch FTA03.		£38	€50	\$57
007-678	CO detector Honeywell 0-200ppm 2106B1306 - calibrated		£840	€1,084	\$1,260
007-734	Tertiary Air Blower 145mm, 240V, 800-1300W*		£940	€1,213	\$1,410













<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
007-735	Replacement primary flowmeter for dual-PAF systems. Requires power supply modification when replacing prior non-display version.		£1,800	€2,322	\$2,700
008-153	Air filter		£15	€20	\$23
012-086	Fuel Filter*		£9	€12	\$14
012-208	Small fuel filter: Swagelok 7 micron element with gasket (for in-line type housing).		£20	€26	\$30
013-179	Solenoid Valve Coil 230VAC*		£19	€25	\$29
016-070	Thermocouple PCB Complete*		£546	€705	\$819
018-047	1m of 4mm fibreglass braid		£3	€4	\$5
027-949	0.37kW 230V/400V 3ph 4 Pole Motor*		£130	€168	\$195
032-003	Weber flow sensor 3205 (Steel Body)*		£480	€620	\$720
032-009	PSU 1 DRA120 (24V)*		£177	€229	\$266
032-017	Fuel input connector 1/4inch shut off male (Hose)*		£223	€288	\$335
032-019	Fuel input connector 3/8inch shut off male*		£24	€31	\$36
032-183	Burner flame detector*		£16	€21	\$24
032-421	Thermocouple Type K 1.5mm x 75mm*		£58	€75	\$87
032-439	Racor oil filter*		£246	€318	\$369



















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
032-473	Primary air Airtec 0.65KW 277V heater Element (up to D14)		£1,263	€1,630	\$1,895
032-668	0.4M fuel nozzle (issued with flow vs pressure curve)		£198	€256	\$297
032-777	DPG Inlet Thermocouple*		£21	€28	\$32
032-876	Lid lock*		£288	€372	\$432
032-984	Nu-way ST35 Igniter power cable*		£9	€12	\$14
033-197	M12 SS washer for HD FTA clamps		£1	€2	\$2
033-951	Facet Dura lift pump 24V*		£246	€318	\$369
033-974	0.5M fuel nozzle (issued with flow vs pressure curve)		£198	€256	\$297
034-203	0.3M fuel nozzle (issued with flow vs pressure curve)		£198	€256	\$297
034-204	0.4L fuel nozzle (issued with flow vs pressure curve)		£198	€256	\$297
034-205	0.45M fuel nozzle (issued with flow vs pressure curve)		£198	€256	\$297
034-206	0.3H fuel nozzle (issued with flow vs pressure curve)		£198	€256	\$297
034-207	0.35M fuel nozzle (issued with flow vs pressure curve)		£198	€256	\$297
034-208	0.4H fuel nozzle (issued with flow vs pressure curve)		£198	€256	\$297
034-209	0.5L fuel nozzle (issued with flow vs pressure curve)		£198	€256	\$297












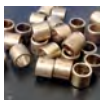



<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
034-210	0.5H fuel nozzle (issued with flow vs pressure curve)		£198	€256	\$297
037-086	Firerod cartridge heater 1/4" dia x 5" long*		£76	€99	\$114
037-341	Fuel nozzle 0.6M 60S (issued with flow vs pressure curve - D15 only)		£198	€256	\$297
037-516	High temp HEPA (temperature conditioned) 305x305x150mm for Exhaust bleed system (D23,25) or D23 / 100 kg/h subscale systems.		£517	€667	\$776
037-517	High temp HEPA (temperature conditioned) 305x305x292mm for EGR system (D23,25).		£732	€945	\$1,098
037-518	High temperature HEPA filter (temperature conditioned) 203x203x150mm for subscale system.		£560	€723	\$840
037-666	Cooling fan filter for boost blower enclosures.		£44	€57	\$66
040-730	Oxygen Sensor Bosch LSU4.9		£128	€166	\$192
040-959	High temperature BS362 o ring for subscale sample holder		£9	€12	\$14
040-960	High temperature BS365 O ring for subscale sample holder		£9	€12	\$14
040-995	Fuel nozzle 0.6M 45H (issued with pressure vs flow curve)		£198	€256	\$297
041-672	High temp HEPA filter 457x610x150 conditioned. D27 and later EGR / Exhaust filter.		£818	€1,056	\$1,227
041-942	Short threaded barrel nut for HD FTA clamps		£16	€21	\$24
042-042	HD FTA pusher rod end block		£140	€181	\$210
042-063	M12 Nitronic Nut for HD FTH		£7	€10	\$11















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
042-068	Heavy Duty Primary/Tertiary Air Blower*		£1,139	€1,470	\$1,709
042-069	Light Duty Primary Air Blower*		£937	€1,209	\$1,406
042-178	Heater 2 inch 500 W (480 V) Primary air heater from D20 on		£625	€807	\$938
042-179	Heater 4 inch dia, 5kW (480V), 482 C. Light / Medium Duty Secondary heater from D15 on.		£1,125	€1,452	\$1,688
042-180	Heater 15 kW 482 C. Standard tertiary heater D17 on. HD Secondary heater.		£1,125	€1,452	\$1,688
042-181	Heater 4 inch dia. 30 kW (480V) 482 C. For high power and HD tertiary systems.		£1,300	€1,677	\$1,950
042-230	HD FTH pusher rod stud		£4	€6	\$6
042-231	HD FTA clamping stud		£2	€3	\$3
042-246	Secondary Heater 5KW 277V. No flange*		£1,426	€1,840	\$2,139
042-445	Primary blower (Northland) kit to replace Ametek Primary blower fitted to D1-D28. Includes uprated circuit breaker and inlet pipe extension.		£967	€1,248	\$1,451

<u>Category</u>	<u>DSA</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
005-221	K-type thermocouple socket (mini)*		£5	€7	\$8
005-222	K-type thermocouple plug (mini)*		£5	€7	\$8
005-284	Thermocouple for DMS500 heated sample line remote cyclone, DSA sample manifold and DPG cooling air exit.*		£20	€26	\$30
005-406	BS015 Viton O ring for DMS cyclone (internal joining two halves of cyclone), and for DSA solenoid valve adaptor		£2	€3	\$3
005-412	BS610 Viton O ring for DMS cyclone (end against restrictor)		£2	€3	\$3
005-414	OR 22 x 2 Viton O ring for DMS cyclone (external on cyclone)		£3	€4	\$5
005-511	Replacement set of 1 micron restrictors for DMS500 and DSA cyclones		£116	€150	\$174
009-016	OR 10.1 x 1.6 Viton O ring for DSA solenoid valve adaptor		£2	€3	\$3
012-198	Viton bonded seal for DSA sample manifold fluid fittings		£7	€10	\$11
013-013	NW40 Centre Ring		£21	€28	\$32
013-014	NW40 clamp		£13	€17	\$20
035-087	Sample solenoid valve body (without coil) for DSA		£119	€154	\$179














<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
001-009	HFR500 burner nozzle.		£154	€199	\$231
001-044	HFR500 Glow plug with cable and spade connector		£47	€61	\$71
001-045	HFR500 Collector Electrode Assembly.		£277	€358	\$416
001-049	FID tube insertion and removal tool.		£70	€91	\$105
001-052	HFR500 sample head heater and thermocouple loom.		£560	€723	\$840
001-054	HFR500 Sample head seal/O-ring / washer kit. Suitable for service of one sample head. Material: viton.		£54	€70	\$81
001-058	HFR500 standard length exhaust heated sample probe (150mm rigid length)		£1,135	€1,465	\$1,703
001-071	HFR500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M14 SSP)		£1,135	€1,465	\$1,703
001-073	Set of fittings. To connect Conduit to the HFR500 Sample head.*		£57	€74	\$86
001-074	HFR500 set of sample head screws for one sample head*		£17	€22	\$26
001-083	Set of 100 replacement filter papers for 500-series in-line sample filter*		£292	€377	\$438
001-096	In-line sample filter kit with replaceable paper elements for HFR500 for two channels (includes flow meter, separation tool, spare paper filters, instructions and carrying case).		£1,481	€1,911	\$2,222
001-106	HFR500 custom length exhaust heated sample probe		£1,285	€1,658	\$1,928
001-107	HFR500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M14 SSP)		£1,285	€1,658	\$1,928
001-108	HFR500 standard length exhaust heated sample probe, suitable for turbocharged sample points (150mm rigid length)		£1,160	€1,497	\$1,740

<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
001-115	HFR500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M12 SSP)		£1,185	€1,529	\$1,778
001-116	HFR500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M12 SSP)		£1,335	€1,723	\$2,003
005-019	Vacuum Pump Hose, 1/2 inch i/d. Suitable for vacuum pump exhaust. (Price per m length)*		£10	€13	\$15
010-016	HT-extension for sampling spark plug*		£181	€234	\$272
011-006	HFR500 In-line filter kit. To help prevent sample head blockage in high soot applications and reduce cleaning requirements. Includes 1x insertion/removal tool 2x filter holder 2x element support 1x set of 10 elements. Note: improved paper element filter system available.		£468	€604	\$702
011-030	Set of tools and spares for HFR500		£845	€1,091	\$1,268
011-043	HFR500 2-stage vac bleed filter		£108	€140	\$162
011-045	2.5-litre extension chamber for adapting gas analyzers for in-cylinder or rapidly fluctuating pressure sampling.*		£584	€754	\$876
012-059	Non-keyed connector (brass). For inlet 1/4in gas supplies.*		£44	€57	\$66
012-060	Orange-keyed stainless steel gas connector. For 1/4in size inlet gas supplies.*		£82	€106	\$123
012-063	Non-keyed connector (brass). For inlet 6mm size gas supplies.*		£41	€53	\$62
012-064	Orange-keyed stainless steel gas connector. For 6mm size inlet gas supplies.*		£82	€106	\$123
012-079	M14 Sampling Spark Plug body (to customer's specified thread/seal type). Note that in-cylinder sample probes and CP extension volume required for in-cylinder sampling.		£4,196	€5,413	\$6,294
012-080	M12 Sampling Spark Plug body (to customer's specified thread/seal type). Note that in-cylinder sample probes and CP extension volume required for in-cylinder sampling.		£4,196	€5,413	\$6,294
012-146	Sampling Spark Plug Kit including: M14 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,158	€9,234	\$10,737














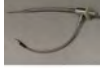

<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
012-147	Sampling Spark Plug Kit including: M12 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,258	€9,363	\$10,887
013-010	Calibration Adaptor to fit standard 150mm rigid sample probe		£492	€635	\$738
013-064	Tip seal for 10C or 5C dry scroll vacuum pump.*		£290	€375	\$435
013-086	HFR500 Head cover. For use with heated umbilical in sub-0°C conditions.		£269	€348	\$404
013-095	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.007in for stubbornly blocked FID tube*		£33	€43	\$50
013-096	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.009in for stubbornly blocked FID tube*		£33	€43	\$50
013-097	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.012in for cleaning 0.013in insert*		£33	€43	\$50
013-098	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.015in for cleaning 0.016in insert*		£33	€43	\$50
013-099	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.022in for cleaning 400-series probes*		£33	€43	\$50
013-100	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.024in for removing inserts from turbo probes*		£33	€43	\$50
013-101	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.038in for cleaning 500-series exhaust probes*		£33	€43	\$50
013-103	Set of 50 copper ferrules (1/8in). For fitting sample probe to CAL-APT.*		£25	€33	\$38
013-104	HFR500 Sample head upgrade kit for one sample head. To improve ease of removal; restrictor cleaning; FID tube access plug removal; tripod support and general maintenance.		£347	€448	\$521
013-107	Set of 50 copper ferrules (3/16in). For 316FIT.*		£25	€33	\$38
013-108	3/16in stainless steel compression fitting with 1/4in NPT thread. Pre-fitted with copper ferrule. For locating CAL-APT in engine exhaust.*		£25	€33	\$38
















<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
013-109	0.012in Sample probe insert. Set of 2. For in-cylinder sample probes.		£32	€42	\$48
013-110	0.015in Sample probe insert. Set of 2. For in-cylinder sample probes.		£32	€42	\$48
013-116	Cleaning Wires. Set of 5 Exhaust sampling FID tube cleaning wires (0.009 inch diam., blue)		£62	€80	\$93
013-118	Cleaning Wires. Set of 5 In-cylinder sampling FID tube cleaning wires (0.007 inch diam., yellow)		£62	€80	\$93
013-124	500-series gas analyzer user-interface software upgrade to latest version		£227	€293	\$341
013-125	Site licence 500-series gas analyzer user-interface software upgrade to latest version		£895	€1,155	\$1,343
013-127	Full set of User Manuals (for HFR500)		£47	€61	\$71
013-145	In-line filter elements. Set of 10.		£62	€80	\$93
013-170	0.030in Sample probe insert. Set of 2. For turbo sample probes.		£32	€42	\$48
013-173	Vacuum Filter Elements (mist & odour for Leybold Vac pump).*		£136	€176	\$204
013-174	Two-litre can of Anderol vacuum pump oil refill.*		£75	€97	\$113
013-196	Calibration Adaptor to fit custom length sample probe		£522	€674	\$783
013-229	Tip seal for XDS35i dry scroll vacuum pump.*		£290	€375	\$435
013-242	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.014in for cleaning 0.015in insert*		£33	€43	\$50
013-243	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.011in for cleaning 0.012in insert*		£33	€43	\$50

































<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
015-002	HFR500 Sampling conduit only (without sample head fitted). Standard length is 10-metres. Other lengths and heated variants for T<0C sampling are available on request.		£3,300	€4,257	\$4,950
015-003	HFR500 Sample head only (without conduit fitted).		£9,977	€12,871	\$14,966
015-078	RS485 USB hub and 10-metre RS485 Cable. For communications between the analyser and computer.*		£258	€333	\$387
015-086	Tripod and Ball Head assembly for Sample Heads.*		£401	€518	\$602
015-089	Swivel ball-head and quick-release for tripod sample head mounts*		£103	€133	\$155
015-106	RS232 USB COM Port and cable. For communications between the analyser and computer.*		£76	€99	\$114
017-060	Dry scroll vacuum pump suitable for HFR500, NDIR500 or CLD500 (CP) (Not suitable for upgrading f NOx400). Includes cables and 1/2 inch (12.7mm) hoesetail fittings. Please specify supply voltage required at time of ordering.		£3,708	€4,784	\$5,562
017-074	Service (inc. strip-down; ultra-sound clean; seal renewal; function check certificate) of one HFR500 sample head		£1,152	€1,487	\$1,728
017-080	0.010in FID tube holder (blue dot) suitable for exhaust sampling with set of 5 cleaning tools.		£231	€298	\$347
017-081	0.008in FID tube holder (yellow dot) suitable for in-cylinder sampling with set of 5 cleaning tools.		£231	€298	\$347
017-090	HFR500 One-year maintenance and technical support agreement.		£3,838	€4,952	\$5,757
017-101	HFR500 Long flexible exhaust sample probe (e.g. for chassis dynamometer testing). Typical dimensions: 700mm flexi section 90mm rigid section. This item includes an appropriate calibration adapter to suit the rigid length of the probe. Contact Cambustion for other available lengths.		£1,707	€2,203	\$2,561
017-116	AK Protocol Remote Control. To allow a host computer to send control data and receive status information from the User Interface, using AK protocol over a Serial or an Ethernet/LAN connection.		£1,163	€1,501	\$1,745









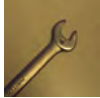





<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
017-150	Yellow (0.65mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-151	Red (1.0mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-152	Green (1.4mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-153	Blue (1.7mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-196	Silver (1.2mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
027-417	Set of pipes and clamps. For fitting a 15m <sup>3</sup> /hour TriScroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£137	€177	\$206
027-418	Set of pipes and clamps. For fitting a 5m <sup>3</sup> /hour and 15m <sup>3</sup> /hour TriScroll Pump to a Cambustion CLD500 Analyser.*		£318	€411	\$477
027-971	Set of pipes and clamps. For fitting a 15m <sup>3</sup> /hour Leybold Scroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£137	€177	\$206
027-985	Set of pipes and clamps. For fitting two 5m <sup>3</sup> /hour Leybold Scroll Pumps to a Cambustion CLD500 Analyser.*		£318	€411	\$477

<u>Category</u>	<u>NDIR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
001-083	Set of 100 replacement filter papers for 500-series in-line sample filter*		£292	€377	\$438
005-019	Vacuum Pump Hose, 1/2 inch i/d. Suitable for vacuum pump exhaust. (Price per m length)*		£10	€13	\$15
009-028	IR emitter and loom*		£322	€416	\$483
009-045	NDIR500 Spare sample flow impactor		£70	€91	\$105
009-052	Detector quartz window (Ø10.0mm).*		£73	€95	\$110
009-055	emitter quartz window (Ø11.5mm).*		£73	€95	\$110
009-089	NDIR500 Sample head seal/O-ring/washer kit. Suitable for servicing of one sample head. Material: viton.*		£73	€95	\$110
009-103	NDIR500 standard length exhaust heated sample probe (150mm rigid length)		£1,135	€1,465	\$1,703
009-106	HEPA-filter assembly for one sample head (Slower response time but better filtration than replaceable paper filter type). Additional set of 10 HEPA Filters available separately (Product Code 009-204)		£691	€892	\$1,037
009-109	NDIR500 Sample head screw kit. Suitable for service of one sample head.*		£53	€69	\$80
009-121	In-line sample filter kit with replaceable paper elements for NDIR500 for two channels (includes flow meter, separation tool, spare filter papers, instructions and carrying case).		£1,481	€1,911	\$2,222
009-203	Cleaning brushes for optical chamber. Set of 10.*		£33	€43	\$50
009-204	NDIR500 sample flow HEPA Filters. (Set of 10)*		£200	€258	\$300
009-206	NDIR500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M14 SSP)		£1,135	€1,465	\$1,703
009-208	NDIR500 custom length exhaust heated sample probe		£1,285	€1,658	\$1,928

<u>Category</u>	<u>NDIR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
009-209	NDIR500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M14 SSP)		£1,285	€1,658	\$1,928
009-220	NDIR500 standard length exhaust heated sample probe, suitable for turbocharged sample points (150mm rigid length)		£1,160	€1,497	\$1,740
009-230	NDIR500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M12 SSP)		£1,185	€1,529	\$1,778
009-231	NDIR500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M12 SSP)		£1,335	€1,723	\$2,003
010-016	HT-extension for sampling spark plug*		£181	€234	\$272
011-007	NDIR500 In-line filter kit (basic type). Includes 1x insertion/removal tool 2x filter holder 2x element support 1x set of 10 elements. (Predecessor to improved filtration efficiency HEPA filter or replaceable paper element filter systems).		£468	€604	\$702
011-029	NDIR500 Complete tools and Spares Kit*		£856	€1,105	\$1,284
011-043	HFR500 2-stage vac bleed filter		£108	€140	\$162
011-082	2.5-litre extension chamber for adapting gas analyzers for in-cylinder or rapidly fluctuating pressure sampling.*		£584	€754	\$876
012-059	Non-keyed connector (brass). For inlet 1/4in gas supplies.*		£44	€57	\$66
012-062	Yellow-keyed stainless steel gas connector. For 1/4 inch size inlet gas supplies.*		£82	€106	\$123
012-063	Non-keyed connector (brass). For inlet 6mm size gas supplies.*		£41	€53	\$62
012-066	Yellow-keyed stainless steel gas connector. For 6mm size inlet gas supplies.*		£82	€106	\$123
012-079	M14 Sampling Spark Plug body (to customer's specified thread/seal type). Note that in-cylinder sample probes and CP extension volume required for in-cylinder sampling.		£4,196	€5,413	\$6,294
012-080	M12 Sampling Spark Plug body (to customer's specified thread/seal type). Note that in-cylinder sample probes and CP extension volume required for in-cylinder sampling.		£4,196	€5,413	\$6,294






<u>Category</u>	<u>NDIR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
012-150	Sampling Spark Plug Kit including: M14 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,158	€9,234	\$10,737
012-151	Sampling Spark Plug Kit including: M12 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,258	€9,363	\$10,887
013-010	Calibration Adaptor to fit standard 150mm rigid sample probe		£492	€635	\$738
013-064	Tip seal for 10C or 5C dry scroll vacuum pump.*		£290	€375	\$435
013-095	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.007in for stubbornly blocked FID tube*		£33	€43	\$50
013-096	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.009in for stubbornly blocked FID tube*		£33	€43	\$50
013-097	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.012in for cleaning 0.013in insert*		£33	€43	\$50
013-098	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.015in for cleaning 0.016in insert*		£33	€43	\$50
013-099	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.022in for cleaning 400-series probes*		£33	€43	\$50
013-100	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.024in for removing inserts from turbo probes*		£33	€43	\$50
013-101	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.038in for cleaning 500-series exhaust probes*		£33	€43	\$50
013-103	Set of 50 copper ferrules (1/8in). For fitting sample probe to CAL-APT.*		£25	€33	\$38
013-107	Set of 50 copper ferrules (3/16in). For 316FIT.*		£25	€33	\$38
013-108	3/16in stainless steel compression fitting with 1/4in NPT thread. Pre-fitted with copper ferrule. For locating CAL-APT in engine exhaust.*		£25	€33	\$38
013-109	0.012in Sample probe insert. Set of 2. For in-cylinder sample probes.		£32	€42	\$48






<u>Category</u>	<u>NDIR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
013-110	0.015in Sample probe insert. Set of 2. For in-cylinder sample probes.		£32	€42	\$48
013-124	500-series gas analyzer user-interface software upgrade to latest version		£227	€293	\$341
013-125	Site licence 500-series gas analyzer user-interface software upgrade to latest version		£895	€1,155	\$1,343
013-129	Full set of User Manuals (for NDIR500)		£47	€61	\$71
013-135	NDIR500 Long flexible exhaust sample probe (e.g. for chassis dynamometer testing). Typical dimensions: 700mm flexi section 90mm rigid section. This item includes an appropriate calibration adapter to suit the rigid length of the probe. Contact Cambustion for other available lengths.		£1,707	€2,203	\$2,561
013-145	In-line filter elements. Set of 10.		£62	€80	\$93
013-146	NDIR500 Combined sampling head and 10m conduit.		£15,348	€19,799	\$23,022
013-148	NDIR500 Head cover. For use with heated umbilical in sub-0°C conditions.		£234	€302	\$351
013-170	0.030in Sample probe insert. Set of 2. For turbo sample probes.		£32	€42	\$48
013-173	Vacuum Filter Elements (mist & odour for Leybold Vac pump).*		£136	€176	\$204
013-174	Two-litre can of Anderol vacuum pump oil refill.*		£75	€97	\$113
013-196	Calibration Adaptor to fit custom length sample probe		£522	€674	\$783
013-229	Tip seal for XDS35i dry scroll vacuum pump.*		£290	€375	\$435
013-242	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.014in for cleaning 0.015in insert*		£33	€43	\$50
013-243	1m-long Cleaning Wires (set of 5). For cleaning heated sample probe and FID/CLD tube. 0.011in for cleaning 0.012in insert*		£33	€43	\$50

<u>Category</u>	<u>NDIR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
015-009	NDIR500 10m sampling conduit only (without sample head fitted). Other lengths and heated variants for T<0C sampling are available on request.		£3,070	€3,961	\$4,605
015-010	NDIR500 sampling head only (without conduit fitted)		£12,279	€15,840	\$18,419
015-078	RS485 USB hub and 10-metre RS485 Cable. For communications between the analyser and computer.*		£258	€333	\$387
015-086	Tripod and Ball Head assembly for Sample Heads.*		£401	€518	\$602
015-089	Swivel ball-head and quick-release for tripod sample head mounts*		£103	€133	\$155
015-106	RS232 USB COM Port and cable. For communications between the analyser and computer.*		£76	€99	\$114
017-060	Dry scroll vacuum pump suitable for HFR500, NDIR500 or CLD500 (CP) (Not suitable for upgrading f NOx400). Includes cables and 1/2 inch (12.7mm) hometail fittings. Please specify supply voltage required at time of ordering.		£3,708	€4,784	\$5,562
017-091	NDIR500 One-year maintenance and technical support agreement.		£3,837	€4,950	\$5,756
017-098	NDIR500 Sample head service (inc. strip-down; thorough clean; seal renewal; function check certificate) of one sample head		£1,152	€1,487	\$1,728
017-116	AK Protocol Remote Control. To allow a host computer to send control data and receive status information from the User Interface, using AK protocol over a Serial or an Ethernet/LAN connection.		£1,163	€1,501	\$1,745
017-150	Yellow (0.65mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-151	Red (1.0mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-152	Green (1.4mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
017-153	Blue (1.7mm) Flow Restrictor. For Sample heads.		£31	€40	\$47

<u>Category</u>	<u>NDIR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
017-196	Silver (1.2mm) Flow Restrictor. For Sample heads.		£31	€40	\$47
027-417	Set of pipes and clamps. For fitting a 15m <sup>3</sup> /hour TriScroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£137	€177	\$206
027-418	Set of pipes and clamps. For fitting a 5m <sup>3</sup> /hour and 15m <sup>3</sup> /hour TriScroll Pump to a Cambustion CLD500 Analyser.*		£318	€411	\$477
027-971	Set of pipes and clamps. For fitting a 15m <sup>3</sup> /hour Leybold Scroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£137	€177	\$206
027-985	Set of pipes and clamps. For fitting two 5m <sup>3</sup> /hour Leybold Scroll Pumps to a Cambustion CLD500 Analyser.*		£318	€411	\$477



<u>Category</u>	<u>SCS</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
005-297	1 metre length of conductive silicone rubber tubing (Ø=9.8 mm).		£13	€17	\$20
005-406	BS015 Viton O ring for DMS cyclone (internal joining two halves of cyclone), and for DSA solenoid valve adaptor		£2	€3	\$3
005-412	BS610 Viton O ring for DMS cyclone (end against restrictor)		£2	€3	\$3
008-153	Air filter		£15	€20	\$23
008-457	Replacement tubing for aerosol pinch valve		£11	€15	\$17

<u>Category</u>	<u>UDAC</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
005-202	Gold plated spring pin for HT connection		£4	€6	\$6
005-297	1 metre length of conductive silicone rubber tubing (Ø=9.8 mm).		£13	€17	\$20
008-457	Replacement tubing for aerosol pinch valve		£11	€15	\$17
041-038	UDAC Charger core		£1,248	€1,610	\$1,872
041-047	UDAC Charger core service return (fitted with new corona wire)		£308	€398	\$462