




Product Spares Price List 2021








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. 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).		£12	€16	\$18
013-267	Flight case, with castors and internal foam packaging, suitable for transportation of AAC		£1,146	€1,479	\$1,719
036-589	Motor flexible drive coupling		£161	€208	\$242
036-590	Pillow block o-ring set		£6	€8	\$9
036-591	Fluid connector manifold o-ring set		£6	€8	\$9
036-597	Classifier sealing o-ring set		£10	€13	\$15
036-716	Replacement drive belt		£18	€24	\$27
036-721	Stylus for AAC touch-screen		£3	€4	\$5
036-754	Replacement sheath thermocouple assembly for AAC		£62	€80	\$93



<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*		£298	€385	\$447
002-035	CLD500 Sample head glass rod		£376	€486	\$564
002-043	CLD tube removal tool. For removing CLD tube from the sample head.		£235	€304	\$353
002-044	fNOx400 Sample head heater and T/C loom		£940	€1,213	\$1,410
002-055	CLD500 Sample head insulation. Set of mating halves.		£157	€203	\$236
002-066	CLD500 standard length exhaust heated sample probe (150mm rigid length)		£1,219	€1,573	\$1,829
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.		£170	€220	\$255
002-079	Ozone restrictor assembly. Set of two restrictors inside ptfе tubing.		£94	€122	\$141
002-080	2kg of drier desiccant for ozone generator with built-in drier within ozone generator enclosure*		£184	€238	\$276
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).		£1,511	€1,950	\$2,267
002-102	CLD500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M14 SSP)		£1,219	€1,573	\$1,829
002-103	CLD500 custom length exhaust heated sample probe		£1,311	€1,692	\$1,967
002-104	CLD500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M14 SSP)		£1,311	€1,692	\$1,967
002-105	1cc syringe of high temperature grease to lubricate high temperature o-rings		£20	€26	\$30
002-107	CLD500 standard length exhaust heated sample probe, suitable for turbocharged sample points (150mm rigid length)		£1,219	€1,573	\$1,829
002-120	CLD500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M12 SSP)		£1,321	€1,705	\$1,982
002-121	CLD500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M12 SSP)		£1,362	€1,757	\$2,043
002-125	Service Kit for Ozone Destroyer Catalyst Assembly		£199	€257	\$299
















<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
003-012	NOx converter complete tools and Spares Kit*		£198	€256	\$297
003-020	NOx converter heater and thermocouple block assembly.		£630	€813	\$945
003-022	NOx converter insulation. Set of mating halves.		£235	€304	\$353
003-024	NOx converter.		£4,406	€5,684	\$6,609
005-019	Vacuum Pump Hose, 1/2 inch i/d. Suitable for vacuum pump exhaust. (Price per m length)*		£12	€16	\$18
010-016	HT-extension for sampling spark plug*		£184	€238	\$276
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.		£477	€616	\$716
011-031	CLD500 Complete tools and spares kit.*		£2,216	€2,859	\$3,324
011-043	HFR500 2-stage vac bleed filter		£110	€142	\$165
011-081	2.5-litre extension chamber for adapting gas analyzers for in-cylinder or rapidly fluctuating pressure sampling.*		£596	€769	\$894
012-059	Non-keyed connector (Stainless Steel). For inlet 1/4in gas supplies.*		£46	€60	\$69
012-061	Green-keyed stainless steel gas connector. For 1/4in size inlet gas supplies.		£80	€104	\$120
012-063	Non-keyed connector (Stainless Steel). For inlet 6mm size gas supplies.*		£47	€61	\$71
012-065	Green-keyed stainless steel gas connector. For 6mm size inlet gas supplies.		£80	€104	\$120
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.		£4,280	€5,522	\$6,420
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.		£4,280	€5,522	\$6,420
012-148	Sampling Spark Plug Kit including: M14 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,301	€9,419	\$10,952
012-149	Sampling Spark Plug Kit including: M12 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,403	€9,550	\$11,105


<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
013-010	Calibration Adaptor to fit standard 150mm rigid sample probe		£501	€647	\$752
013-064	Tip seal for 10C or 5C dry scroll vacuum pump.*		£296	€382	\$444
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.*		£43	€56	\$65
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)		£63	€82	\$95
013-124	500-series gas analyzer user-interface software upgrade to latest version		£232	€300	\$348
013-125	Site licence 500-series gas analyzer user-interface software upgrade to latest version		£913	€1,178	\$1,370
013-128	Full set of User Manuals (for CLD500)		£48	€62	\$72

<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
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.		£1,794	€2,315	\$2,691
013-136	CLD500 set of fittings. To connect one conduit to one sample head.*		£132	€171	\$198
013-139	CLD500 Head cover. For use with heated umbilical in sub-0°C conditions.		£327	€422	\$491
013-140	NOx converter high temperature O-ring kit for conical connector. Set of 2 o-rings.*		£92	€119	\$138
013-141	NOx converter screw kit. Suitable for service of converter.*		£25	€33	\$38
013-142	NOx converter compression fitting set including high-temperature o-ring (sample head side)		£152	€197	\$228
013-144	Service of ozone generator		£1,062	€1,370	\$1,593
013-145	In-line filter elements. Set of 10.		£63	€82	\$95
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).*		£138	€179	\$207
013-174	One-litre can of Leybonol vacuum pump oil refill.*		£76	€99	\$114
013-196	Calibration Adaptor to fit custom length sample probe		£532	€687	\$798
013-229	Tip seal for XDS35i dry scroll vacuum pump.*		£296	€382	\$444
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		£3,777	€4,873	\$5,666
015-006	CLD500 sampling head only (without conduit fitted).		£10,176	€13,128	\$15,264
015-007	Ozone generator*		£4,757	€6,137	\$7,136

<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
015-078	RS485 USB hub and 10-metre RS485 Cable. For communications between the analyser and computer.*		£263	€340	\$395
015-086	Tripod and Ball Head assembly for Sample Heads.*		£409	€528	\$614
015-089	Swivel ball-head and quick-release for tripod sample head mounts*		£105	€136	\$158
015-106	RS232 USB COM Port and cable. For communications between the analyser and computer.*		£77	€100	\$116
015-183	Feedback controlled ozone generator (replaces Sewec generator) for reduced drift CLD500		£7,900	€10,191	\$11,850
017-022	Short NOx converter combined coils (coil + unheated probe) and copper ferrules. Set of 10.		£1,524	€1,966	\$2,286
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.		£2,960	€3,819	\$4,440
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.		£3,783	€4,881	\$5,675
017-071	Long NOx converter combined coils (coil + unheated probe) and copper ferrules. Set of 10.		£1,524	€1,966	\$2,286
017-072	NO2 converter kit for 2 channels including 2 converters, 8 spare coils and tool kit		£8,914	€11,500	\$13,371
017-089	CLD500 One-year maintenance and technical support agreement.		£4,032	€5,202	\$6,048
017-097	Service (inc. strip-down; ultra-sound clean; seal renewal; function check certificate) of one CLD500 sample head.		£1,175	€1,516	\$1,763
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.		£1,222	€1,577	\$1,833
017-144	NOx Converter Kit for ONE channel including 1 converter, 4 spare coils and tools.		£4,418	€5,700	\$6,627
017-150	Yellow (0.65mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
017-151	Red (1.0mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
017-152	Green (1.4mm) Flow Restrictor. For Sample heads.		£32	€42	\$48

<u>Category</u>	<u>CLD500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
017-153	Blue (1.7mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
017-193	CLD tube holder (exhaust) with high-temperature o-ring and set of 5 cleaning tools.		£235	€304	\$353
017-194	CLD tube holder (in-cylinder) with high-temperature o-ring and set of 5 cleaning tools.		£235	€304	\$353
017-196	Silver (1.2mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
027-417	Set of pipes and clamps. For fitting a 15m ³ /hour TriScroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£140	€181	\$210
027-418	Set of pipes and clamps. For fitting a 5m ³ /hour and 15m ³ /hour TriScroll Pump to a Cambustion CLD500 Analyser.*		£324	€418	\$486
027-971	Set of pipes and clamps. For fitting a 15m ³ /hour Leybold Scroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£140	€181	\$210
027-985	Set of pipes and clamps. For fitting two 5m ³ /hour Leybold Scroll Pumps to a Cambustion CLD500 Analyser.*		£347	€448	\$521

<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).		£12	€16	\$18
013-181	Foam inserts for CPMA cardboard box. Order with box 013-215		£620	€800	\$930
013-214	Reusable flight case suitable for CPMA		£1,174	€1,515	\$1,761
013-215	Cardboard box for Cambustion instruments		£33	€43	\$50
036-123	Motor flexible drive coupling		£161	€208	\$242
036-127	Motor pulley, large		£190	€246	\$285
036-128	Motor pulley, small		£142	€184	\$213
036-184	Replacement plastic skirt for Mk1 CPMA		£169	€219	\$254
036-187	Drive belt for outer cylinder		£12	€16	\$18
036-193	Drive belt for inner cylinder		£12	€16	\$18
036-250	USB to RS232 serial adapter cable		£25	€33	\$38
036-269	Torque driver blade		£10	€13	\$15
036-270	Torque driver		£133	€172	\$200
036-386	Left Hand CPMA Insulator Assembly		£273	€353	\$410




















<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)*		£12	€16	\$18
005-021	DMS500 SCG removal tool (long allen key {hexagon wrench}).		£87	€113	\$131
005-033	DMS500 Sample HEPA (Carbon)		£203	€262	\$305
005-067	1/4 BSP (ISO) thread inlet fitting for DMS500 heated sample line		£46	€60	\$69
005-075	Space charge guard top insulator ring		£60	€78	\$90
005-146	DMS500 Classifier cleaning tool		£102	€132	\$153
005-152	DMS500 Charger core.		£929	€1,199	\$1,394
005-158	1 metre length of conductive silicone rubber tubing (Ø=11.5 mm).		£17	€22	\$26
005-202	Gold plated spring pin for HT connection		£4	€6	\$6
005-289	DMS500 Sample mass flow meter (including calibration)		£232	€300	\$348
005-297	1 metre length of conductive silicone rubber tubing (Ø=9.8 mm).		£12	€16	\$18
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		£364	€470	\$546
005-447	Replacement reusable shipping crate for DMS500		£606	€782	\$909
005-510	DMS500 Charger core service return (fitted with new corona wire)		£417	€538	\$626


<u>Category</u>	<u>DMS500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
005-511	Replacement set of 1 micron restrictors for DMS500 and DSA cyclones		£118	€153	\$177
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		£48	€62	\$72
005-568	Standard HEPA filter for DMS500 Mk2 with Sample HEPA filter upgrade modification		£72	€93	\$108
005-573	DMS500 Space charge guard assembly		£687	€887	\$1,031
011-079	DMS500 classifier cleaning wipes		£16	€21	\$24
012-063	Non-keyed connector (Stainless Steel). For inlet 6mm size gas supplies.*		£47	€61	\$71
013-013	NW40 Centre Ring		£21	€28	\$32
013-014	NW40 clamp		£14	€19	\$21
013-018	NW25 centre ring		£17	€22	\$26
013-019	NW25 clamp		£13	€17	\$20
013-150	DMS500 Complete tools and Spares Kit excluding cleaning tool and spare charger		£1,018	€1,314	\$1,527
013-222	2m mains power cable with 16A IEC socket and UK BS1363 plug		£22	€29	\$33
013-223	2m mains power cable with 16A IEC socket and Schuko CEE7 plug		£22	€29	\$33
013-224	2m mains power cable with 16A IEC socket and NEMA 5-15 plug		£38	€50	\$57
015-166	USB Ethernet adaptor*		£41	€53	\$62
016-061	Replacement Ethernet Adaptor Card (for DMS500 M67 to M144 inclusive)		£225	€291	\$338
017-048	DMS500 5 metre Heated Sample Line, with BSP/ISO threaded inlet.		£6,707	€8,653	\$10,061
017-049	DMS500 2 metre Heated Sample Line, with BSP/ISO threaded inlet.		£6,707	€8,653	\$10,061
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.		£1,199	€1,547	\$1,799

<u>Category</u>	<u>DMS500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
017-058	Membrane air drier for compressed air. Metric fittings.		£475	€613	\$713
017-206	Membrane air drier for compressed air (Inch fittings)		£475	€613	\$713
020-137	Magnetic tool for changing restrictor		£11	€15	\$17
020-216	1 micron / 8 lpm cyclone		£486	€627	\$729
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)*		£6	€8	\$9
005-222	K-type thermocouple plug (mini)*		£6	€8	\$9
005-284	Thermocouple for DMS500 heated sample line remote cyclone, DSA sample manifold and DPG cooling air exit.*		£22	€29	\$33
005-297	1 metre length of conductive silicone rubber tubing (Ø=9.8 mm).		£12	€16	\$18
006-010	DPG cooling air inlet Bag filter (D1-D17)*		£110	€142	\$165
006-016	Pair of 22inch Heat resistant gaunlets XL*		£86	€111	\$129
006-017	External Fuel Bleed Assembly*		£59	€77	\$89
006-018	Thermocouple extension 1.5m (for rear thermocouples)*		£32	€42	\$48
006-031	Neophix V clamp (D7 onwards)*		£38	€50	\$57
006-033	ACI exhaust Fan belt*		£60	€78	\$90
006-044	Igniter 1dz007*		£24	€31	\$36
006-048	Axial Fan 19inch crossflow*		£343	€443	\$515
006-049	Lower burner gasket		£80	€104	\$120
006-052	Lower burner flange gasket		£54	€70	\$81
006-053	Copper washer for DPG burner inspection window (where fitted)*		£2	€3	\$3
006-056	Bleed solenoid valve*		£146	€189	\$219
006-057	2/2 NC 3mm solenoid valve*		£99	€128	\$149
006-059	Flow control 3/M*		£175	€226	\$263
006-062	ST35 Electronics controller (burner assy)*		£150	€194	\$225
006-063	ST35 EBI Ignition transformer*		£70	€91	\$105
006-068	Burner body heatsink heater*		£42	€55	\$63







<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
006-070	PSU 2 DRAN60-12 (12V)*		£96	€124	\$144
006-071	PSU 3 DRAN60-05 (5V)*		£96	€124	\$144
006-081	Hager NDN332A (MCB 1& 3)*		£118	€153	\$177
006-088	Hager ES224 Relay (C4 - C12)		£44	€57	\$66
006-090	Over Centre Catch*		£23	€30	\$35
006-095	Optical liquid sensor*		£110	€142	\$165
006-096	Fire detector*		£66	€86	\$99
006-107	Primary air Watlow heater 240V 75W*		£90	€117	\$135
006-108	Primary flow meter*		£1,396	€1,801	\$2,094
006-122	Weber flow switch 3202 (Plastic Body) used in Primary, Secondary and Tertiary*		£371	€479	\$557
006-124	Batch 3-4 Tertiary Flow Valve - Equivalent to obsolete part. Diaphragm valve 240V 2inch NC.		£855	€1,103	\$1,283
006-128	Tertiary heater gasket (hot end Klinger Milam)*		£129	€167	\$194
006-129	Tertiary heater gasket (hot end Klinger graphite)*		£25	€33	\$38
006-133	DPG FTH flange and burner top hot gasket (D7 onwards)		£72	€93	\$108
006-135	Burner gasket		£18	€24	\$27
006-141	Controller PCB*		£3,599	€4,643	\$5,399
006-153	Thermocouple Type K 1.5mm x 50mm*		£38	€50	\$57
006-154	FTH in brick TC Type K 0.5mm x 1m sheathed section and 1.5m cable with plug*		£50	€65	\$75
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*		£69	€90	\$104





















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
006-190	Pressure manifold suction filter*		£20	€26	\$30
006-224	Secondary Bosch HFM5 Air mass meter (Bosch part No. 0280217531, D14 onwards)*		£343	€443	\$515
006-228	Tertiary Bosch HFM5 Air mass meter (Bosch part No. 0280217123, D14 onwards)*		£325	€420	\$488
006-316	Fuel pressure transducer*		£224	€289	\$336
006-319	DPG inlet Hepa filter GA/H11/C 305x609x292*		£431	€556	\$647
006-409	Racal Oil filter element (2 micron)*		£63	€82	\$95
006-411	Crosland Oil filter Element*		£6	€8	\$9
006-420	CO detector Honeywell 0-200ppm 2106B1306*		£683	€882	\$1,025
006-502	HP fuel pump for Light Duty DPG Danfoss BFP21 L5		£197	€255	\$296
006-552	Magnetic lid lock*		£139	€180	\$209
006-559	Bell V40 fuel flow meter*		£571	€737	\$857
006-565	Pack of 5 paper rolls for AVL415 systems*		£385	€497	\$578
006-685	RSH Fuel Pump MD & HD		£739	€954	\$1,109
006-708	Support sleeve for 4mm ID PTFE sample line.		£4	€6	\$6
006-737	Solenoid valve 0-22 bar (AC)*		£135	€175	\$203
006-738	Pressure transmitter PA-21C/60bar*		£345	€446	\$518
006-741	Standard Pressure StSt Oval gear flowmeter*		£1,632	€2,106	\$2,448
006-799	Brass M12 FTH door bolts		£4	€6	\$6
006-824	DPG inlet HEPA air filter (D1-6, 18 onwards) dims: 305 x 609 x 146mm*		£431	€556	\$647
006-825	DPG cooling air inlet bag filter (D18 onwards)*		£118	€153	\$177
006-867	Igniter HT cable*		£48	€62	\$72






















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
007-012	M12 x 25 Black Screw (Socket Head) for FTA		£2	€3	\$3
007-019	DPF inlet flange		£327	€422	\$491
007-039	FTH front gasket		£30	€39	\$45
007-046	FTA DPF inlet face T/C. Dia = 1.5mm, 300mm long*		£77	€100	\$116
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*		£16	€21	\$24
007-090	Orifice flow tube (for non FTH system)		£4,493	€5,796	\$6,740
007-094	Filter Test Adaptor 125 x 197 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-095	Filter Test Adaptor 5.66 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-096	Filter Test Adaptor 102 x 198 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-097	Filter Test Adaptor 6.7 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-098	Filter Test Adaptor for 5.15 or 5.2 inch round filters. Includes 20 seals for 5.2 inch filters.		£4,762	€6,143	\$7,143
007-099	Filter Test Adaptor 135 x 175 mm rounded octagon inc. 20 seals		£6,008	€7,751	\$9,012
007-100	Filter Test Adaptor 126 x 172.5 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-180	High temperature sealing ring to fit DPF size 5.66 inch round or 107 x 172 mm or 130mm x 156mm oval. Pre-tested.		£40	€52	\$60
007-181	High temperature sealing ring to fit DPF size 198mm x 102mm oval or 175mm x 135mm rounded octagon. Pre-tested.		£40	€52	\$60
007-183	High temperature sealing ring to fit DPF size 7 inch round. Pre-tested.		£40	€52	\$60
007-186	High temperature sealing ring to fit DPF size 6 inch round, 126 x 172.5mm oval, or 104 x 186 mm oval. Pre-tested.		£40	€52	\$60
007-187	High temperature sealing ring to fit DPF size 5.2 inch round. Pre-tested.		£40	€52	\$60
007-191	Filter Test Adaptor 6.5 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-198	FTH Barrel Nut M12 - 15mm dia		£28	€37	\$42

<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
007-207	High temperature sealing ring to fit DPF size 4.66 inch round. Pre-tested.		£40	€52	\$60
007-232	FTA - FTH M12 x 30 Ball nut		£19	€25	\$29
007-233	High temperature sealing ring to fit DPF size 6.7 inch round. Pre-tested.		£40	€52	\$60
007-257	Filter Test Adaptor 140 x 185 mm rounded square inc. 20 seals		£5,535	€7,141	\$8,303
007-294	High temperature sealing ring to fit DPF size 9 inch round. Pre-tested.		£40	€52	\$60
007-352	Filter Test Adaptor 7 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-355	Filter Test Adaptor 137.6 x 226 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-367	Filter Test Adaptor 5 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-376	High temperature sealing ring to fit DPF size 5 inch round. Pre-tested.		£40	€52	\$60
007-386	Filter Test Adaptor 193 x 171.5 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-394	High temperature sealing ring to fit DPF size 193mm x 171.5mm or 106 mm x 230 mm oval. Pre-tested.		£40	€52	\$60
007-409	Filter Test Adaptor 141 x 205 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-410	Filter Test Adaptor 104.2 x 185.5 mm assymetrical oval inc. 20 seals		£6,008	€7,751	\$9,012
007-465	FTH Barrel Nut M12 - 19mm dia		£28	€37	\$42
007-468	FTH MK2 blanket		£400	€516	\$600
007-486	Filter Test Adaptor 4.66 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-501	Filter Test Adaptor 9 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-508	Filter Test Adaptor 6.2 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-512	High temperature sealing ring to fit DPF size 205mm x 141mm oval. Pre-tested.		£40	€52	\$60
007-531	Filter Test Adaptor 5.66 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-557	Filter Test Adaptor 177.8 x 134 mm tri-oval inc. 20 seals		£6,008	€7,751	\$9,012






















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
007-561	High temperature sealing ring to fit DPF size 177.8mm x 134mm oval or 6.5 inch round. Pre-tested.		£40	€52	\$60
007-564	Filter Test Adaptor 177.8 x 215.9 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-565	High temperature sealing ring to fit DPF size 177.8mm x 215.9mm oval. Pre-tested.		£40	€52	\$60
007-571	Filter Test Adaptor 178 x 134 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-580	Filter Test Adaptor 6 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-592	Filter Test Adaptor 138 x 193.2 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-594	High temperature sealing ring to fit DPF size 138mm x 193mm or 142 mm x 168.5 mm oval. Pre-tested.		£40	€52	\$60
007-597	High temperature sealing ring to fit DPF size 10.5 inch round. Pre-tested.		£40	€52	\$60
007-612	High temperature sealing ring to fit DPF size 135mm x 175mm octagon or 6.43 inch round. Pre-tested.		£40	€52	\$60
007-614	High temperature sealing ring to fit DPF size 146mm (oversized 5.66 inch) in FTA01 of 92 x 180 mm oval. Pre-tested.		£40	€52	\$60
007-616	High temperature sealing ring to fit DPF size 6.77 inch round. Pre-tested.		£40	€52	\$60
007-617	Filter Test Adaptor 6.77 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-618	Filter Test Adaptor 6.43 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-638	Filter Test Adaptor 7.2 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-639	Filter Test Adaptor 129.6 x 165.6 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-640	High temperature sealing ring to fit DPF size 7.2 inch round. Pre-tested.		£40	€52	\$60
007-643	High temperature sealing ring to fit DPF size 129.6mm x 165.6mm oval. Pre-tested.		£40	€52	\$60
007-668	High temperature sealing ring to fit DPF size 7.5 inch round. Pre-tested		£40	€52	\$60
007-731	FTH MK1 blanket assembly (up to D17 + D31)		£600	€774	\$900
007-733	High temperature sealing ring to fit DPF size 6.1 inch round. Pre-tested.		£40	€52	\$60








<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
007-734	Tertiary Air Blower 145mm, 240V, 800-1300W*		£987	€1,274	\$1,481
007-738	Filter Test Adaptor 106.6 x 143 mm bulged and flats on sides inc. 20 seals		£6,008	€7,751	\$9,012
007-741	Filter Test Adaptor 137.8 x 102.8 mm (bulged) inc. 20 seals		£6,008	€7,751	\$9,012
007-748	High temperature sealing ring to fit DPF size 4.92 inch round or 138mm x 103mm oval. Pre-tested		£40	€52	\$60
007-750	High temperature sealing ring to fit DPF size 143mm x 106mm oval. Pre-tested.		£40	€52	\$60
007-753	Filter Test Adaptor 112.6 x 179.6 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-756	Filter Test Adaptor 130 x 155.5 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-757	Filter Test Adaptor 4.16 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-760	High temperature sealing ring to fit DPF size 4.16 inch round or 80 x 125 oval. Pre-tested.		£40	€52	\$60
007-761	Filter Test Adaptor 6.1 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-763	High temperature sealing ring to fit DPF size 113mm x 180mm oval. Pre-tested.		£40	€52	\$60
007-767	Filter Test Adaptor 7.36 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-770	High temperature sealing ring to fit DPF size 7.36 inch round. Pre-tested.		£40	€52	\$60
007-773	Filter Test Adaptor 95 x 147 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-774	High temperature sealing ring to fit DPF size 95mm x 147mm. Pre-tested.		£40	€52	\$60
007-778	Filter Test Adaptor 4.92 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-783	Filter Test Adaptor 107 x 172 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-790	Filter Test Adaptor 142 x 168.5 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-794	Filter Test Adaptor 105.6 x 230.05 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-795	Filter Test Adaptor 80 x 125 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-800	Filter Test Adaptor 190 x 205 mm rounded square inc. 20 seals		£6,008	€7,751	\$9,012





<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
007-808	DPF inlet face thermocouple for FTA (K type 1.5 mm diameter x 300 mm length + 1m rugged cable). With UKAS 3 point calibration.		£210	€271	\$315
007-815	Filter Test Adaptor 124 x 158 mm oval inc. 20 seals		£6,008	€7,751	\$9,012
007-817	High temperature sealing ring to fit DPF size 124mm x 158mm oval. Pre-tested.		£40	€52	\$60
007-818	Replacement primary flowmeter for dual-PAF systems.		£1,313	€1,694	\$1,970
007-819	Replacement primary flowmeter for dual-PAF systems. Includes signal conversion box.		£1,890	€2,439	\$2,835
007-832	Filter Test Adaptor 7.5 inch round inc. 20 seals		£4,762	€6,143	\$7,143
007-838	Seal for 5.15 inch filter in FTA		£40	€52	\$60
007-839	Seal for 102 x 198 mm oval cross section filter in FTA. Tested.		£40	€52	\$60
007-840	Filter test adaptor for 5.15 or 5.2 inch filters. Includes 20 seals for 5.15 inch filters.		£4,762	€6,143	\$7,143
007-843	FTA55 Filter Test Adaptor for 160 x 195.2 oval filter, including 20 seals.		£6,008	€7,751	\$9,012
007-846	FTA54 for 235 x 162 mm rounded square filter, including 20 seals.		£6,008	€7,751	\$9,012
012-052	Stainless Steel 6mm Swagelok Ferrule Set		£4	€6	\$6
012-086	Fuel Filter*		£10	€13	\$15
012-208	Small fuel filter: Swagelok 7 micron element with gasket (for in-line type housing).		£21	€28	\$32
013-179	Solenoid Valve Coil 230VAC*		£22	€29	\$33
018-047	1m of 4mm fibreglass braid		£4	€6	\$6
027-949	0.37kW 230V/400V 3ph 4 Pole Motor*		£136	€176	\$204
032-003	Weber flow sensor 3205 (Steel Body)*		£504	€651	\$756
032-009	PSU 1 DRA120 (24V)*		£186	€240	\$279
032-017	Fuel input connector 1/4inch shut off male (Hose)*		£234	€302	\$351
032-019	Fuel input connector 3/8inch shut off male*		£25	€33	\$38




















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
032-183	Burner flame detector*		£17	€22	\$26
032-421	Thermocouple Type K 1.5mm x 75mm*. Used for fuel nozzle holder body temperature measurement in aluminium nozzle holders + other applications.		£60	€78	\$90
032-439	Racor oil filter*		£259	€335	\$389
032-473	Primary air Airtec 0.65KW 277V heater Element (up to D14)		£1,326	€1,711	\$1,989
032-668	0.4M fuel nozzle (issued with flow vs pressure curve)		£208	€269	\$312
032-777	DPG Inlet Flange Thermocouple*		£23	€30	\$35
032-876	Lid lock*		£303	€391	\$455
032-984	Nu-way ST35 Igniter power cable*		£9	€12	\$14
033-197	M12 SS washer for HD FTA clamps		£2	€3	\$3
033-952	Low Pressure Fuel Lift Pump (Facet Duralift)		£258	€333	\$387
033-974	0.5M fuel nozzle (issued with flow vs pressure curve)		£208	€269	\$312
034-203	0.3M fuel nozzle (issued with flow vs pressure curve)		£208	€269	\$312
034-204	0.4L fuel nozzle (issued with flow vs pressure curve)		£208	€269	\$312
034-205	0.45M fuel nozzle (issued with flow vs pressure curve)		£208	€269	\$312
034-206	0.3H fuel nozzle (issued with flow vs pressure curve)		£208	€269	\$312
034-207	0.35M fuel nozzle (issued with flow vs pressure curve)		£208	€269	\$312
034-208	0.4H fuel nozzle (issued with flow vs pressure curve)		£208	€269	\$312
034-209	0.5L fuel nozzle (issued with flow vs pressure curve)		£208	€269	\$312
034-210	0.5H fuel nozzle (issued with flow vs pressure curve)		£208	€269	\$312
037-086	Firerod cartridge heater 1/4" dia x 5" long*		£80	€104	\$120
037-335	Heavy Duty Tertiary Air Flow Meter Bosch		£350	€452	\$525

















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
037-337	Heavy Duty Secondary Air Flow Meter Bosch (without temp sensor)		£360	€465	\$540
037-341	Fuel nozzle 0.6M 60S (issued with flow vs pressure curve - D15 only)		£208	€269	\$312
037-357	Relay 4PDT, 24 VDC, 7A. AgNi contacts. For DPG relay board.		£23	€30	\$35
037-516	High temp HEPA (temperature conditioned) 305x305x150mm for Exhaust bleed system (D23,25) or D23 / 100 kg/h subscale systems.		£543	€701	\$815
037-517	High temp HEPA (temperature conditioned) 305x305x292mm for EGR system (D23,25).		£769	€993	\$1,154
037-518	High temperature HEPA filter (temperature conditioned) 203x203x150mm for subscale system.		£588	€759	\$882
037-573	DPG pressure measurement pipe. 5 mm ID 8 mm OD clear silicone tubing 200 degree.		£6	€8	\$9
037-666	Cooling fan filter for boost blower enclosures.		£46	€60	\$69
040-427	Orifice flow tube 3 inch (for FTH system)		£5,040	€6,502	\$7,560
040-730	Oxygen Sensor Bosch LSU4.9		£134	€173	\$201
040-959	High temperature BS362 o ring for subscale sample holder		£10	€13	\$15
040-960	High temperature BS365 O ring for subscale sample holder		£10	€13	\$15
040-995	Fuel nozzle 0.6M 45H (issued with pressure vs flow curve)		£208	€269	\$312
041-057	Atrato process fuel flow meter, replacement for PD400 fuel flow meter. Includes wiring harness and fittings to upgrade from PD400.		£1,403	€1,810	\$2,105
041-616	FTA back stop u-bolt assembly		£20	€26	\$30
041-672	High temp HEPA filter 457x610x150 conditioned. D27 and later EGR / Exhaust filter.		£859	€1,109	\$1,289
041-942	Short threaded barrel nut for HD FTA clamps		£17	€22	\$26
042-042	HD FTA pusher rod end block		£147	€190	\$221
042-063	M12 Nitronic Nut for HD FTH		£8	€11	\$12
042-068	Heavy Duty Primary/Tertiary Air Blower*		£1,196	€1,543	\$1,794
042-069	Light Duty Primary Air Blower*		£984	€1,270	\$1,476




















<u>Category</u>	<u>DPG</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
042-178	Heater 2 inch 500 W (480 V) Primary air heater from D20 on		£657	€848	\$986
042-179	Heater 4 inch dia, 5kW (480V), 482 C. Light / Medium Duty Secondary heater from D15 on.		£1,182	€1,525	\$1,773
042-180	Heater 15 kW 482 C. Standard tertiary heater D17 on. HD Secondary heater.		£1,182	€1,525	\$1,773
042-181	Heater 4 inch dia. 30 kW (480V) 482 C. For high power and HD tertiary systems.		£1,365	€1,761	\$2,048
042-230	HD FTH pusher rod stud		£5	€7	\$8
042-231	HD FTA clamping stud		£3	€4	\$5
042-246	Secondary Heater 5KW 277V. No flange*		£1,497	€1,932	\$2,246
042-394	PN Diluter secondary dilution flow meter.		£200	€258	\$300
042-445	Primary blower (Northland) kit to replace Ametek Primary blower fitted to D1-D28. Includes uprated circuit breaker and inlet pipe extension.		£1,015	€1,310	\$1,523
042-452	Tertiary blower for Heavy Duty / High Temperature / EGR systems.		£868	€1,120	\$1,302
042-509	Upgrade PSU 20A (24V)		£454	€586	\$681
042-522	Thermocouple type K 1/16 x 8 inch with plug. For DPG nozzle fuel temperature measurement.		£58	€75	\$87
042-689	Thermocouple PCB Complete*		£574	€741	\$861
043-018	3 inch proportional butterfly valve (Tertiary, EGR, Inlet air)		£1,308	€1,688	\$1,962
043-029	6 mm OD x 4 mm ID conductive PTFE tubing. Per m.		£15	€20	\$23
043-077	Replacement rotating disc for high temperature diluter 1 - thin		£263	€340	\$395
043-098	Replacement rotating disc for high temperature diluter 2 - thick		£263	€340	\$395
043-139	1.5 inch proportional butterfly valve (primary air)		£1,269	€1,638	\$1,904
043-153	Milwaukee FTH tool to 3/8 square drive adaptor		£133	€172	\$200
043-167	Dual Disc Diluter heated cap assembly for US and DS diluters		£1,566	€2,021	\$2,349
043-209	Upgrade kit to replace 2-1/2" proportional ball valve with 3" butterfly. Tertiary and EGR systems.		£1,598	€2,062	\$2,397


















<u>Category</u>	<u>DSA</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
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		£118	€153	\$177
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		£14	€19	\$21
035-087	Sample solenoid valve body (without coil) for DSA		£122	€158	\$183

<u>Category</u>	<u>FID50</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
000-196	Service kit for annual maintenance of FID50		£1,450	€1,871	\$2,175
001-138	Replacement pump for FID50, CLD50, LIF50		£460	€594	\$690
001-213	HC scrubber for FID50		£46	€60	\$69
017-343	One year service at Cambustion with function check, soak test and test certificate including 3 month warranty extension		£2,650	€3,419	\$3,975


<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
001-009	HFR500 burner nozzle.		£157	€203	\$236
001-044	HFR500 Glow plug with cable and spade connector		£48	€62	\$72
001-045	HFR500 Collector Electrode Assembly.		£282	€364	\$423
001-049	FID tube insertion and removal tool.		£71	€92	\$107
001-052	HFR500 sample head heater and thermocouple loom.		£572	€738	\$858
001-054	HFR500 Sample head seal/O-ring / washer kit. Suitable for service of one sample head. Material: viton.		£55	€71	\$83
001-058	HFR500 standard length exhaust heated sample probe (150mm rigid length)		£1,219	€1,573	\$1,829
001-071	HFR500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M14 SSP)		£1,219	€1,573	\$1,829
001-073	Set of fittings. To connect Conduit to the HFR500 Sample head.*		£58	€75	\$87
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*		£298	€385	\$447
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).		£1,511	€1,950	\$2,267
001-106	HFR500 custom length exhaust heated sample probe		£1,311	€1,692	\$1,967
001-107	HFR500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M14 SSP)		£1,311	€1,692	\$1,967
001-108	HFR500 standard length exhaust heated sample probe, suitable for turbocharged sample points (150mm rigid length)		£1,219	€1,573	\$1,829
001-115	HFR500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M12 SSP)		£1,209	€1,560	\$1,814
001-116	HFR500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M12 SSP)		£1,362	€1,757	\$2,043
005-019	Vacuum Pump Hose, 1/2 inch i/d. Suitable for vacuum pump exhaust. (Price per m length)*		£12	€16	\$18
010-016	HT-extension for sampling spark plug*		£184	€238	\$276


















<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
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.		£477	€616	\$716
011-030	Set of tools and spares for HFR500		£862	€1,112	\$1,293
011-043	HFR500 2-stage vac bleed filter		£110	€142	\$165
011-045	2.5-litre extension chamber for adapting gas analyzers for in-cylinder or rapidly fluctuating pressure sampling.*		£596	€769	\$894
012-059	Non-keyed connector (Stainless Steel). For inlet 1/4in gas supplies.*		£46	€60	\$69
012-060	Orange-keyed stainless steel gas connector. For 1/4in size inlet gas supplies.*		£84	€109	\$126
012-063	Non-keyed connector (Stainless Steel). For inlet 6mm size gas supplies.*		£47	€61	\$71
012-064	Orange-keyed stainless steel gas connector. For 6mm size inlet gas supplies.*		£84	€109	\$126
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.		£4,280	€5,522	\$6,420
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.		£4,280	€5,522	\$6,420
012-146	Sampling Spark Plug Kit including: M14 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,301	€9,419	\$10,952
012-147	Sampling Spark Plug Kit including: M12 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,519	€9,700	\$11,279
013-010	Calibration Adaptor to fit standard 150mm rigid sample probe		£501	€647	\$752
013-064	Tip seal for 10C or 5C dry scroll vacuum pump.*		£296	€382	\$444
013-086	HFR500 Head cover. For use with heated umbilical in sub-0°C conditions.		£327	€422	\$491
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



















<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
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.		£455	€587	\$683
013-107	Set of 50 copper ferrules (3/16in). For 316FIT.*		£43	€56	\$65
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
013-116	Cleaning Wires. Set of 5 Exhaust sampling FID tube cleaning wires (0.009 inch diam., blue)		£63	€82	\$95
013-118	Cleaning Wires. Set of 5 In-cylinder sampling FID tube cleaning wires (0.007 inch diam., yellow)		£63	€82	\$95
013-124	500-series gas analyzer user-interface software upgrade to latest version		£232	€300	\$348
013-125	Site licence 500-series gas analyzer user-interface software upgrade to latest version		£913	€1,178	\$1,370
013-127	Full set of User Manuals (for HFR500)		£48	€62	\$72
013-145	In-line filter elements. Set of 10.		£63	€82	\$95
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).*		£138	€179	\$207

















<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
013-174	One-litre can of Leybonol vacuum pump oil refill.*		£76	€99	\$114
013-196	Calibration Adaptor to fit custom length sample probe		£532	€687	\$798
013-229	Tip seal for XDS35i dry scroll vacuum pump.*		£296	€382	\$444
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
015-002	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.		£3,366	€4,343	\$5,049
015-003	HFR500 Sample head only (without conduit fitted).		£10,176	€13,128	\$15,264
015-078	RS485 USB hub and 10-metre RS485 Cable. For communications between the analyser and computer.*		£263	€340	\$395
015-086	Tripod and Ball Head assembly for Sample Heads.*		£409	€528	\$614
015-089	Swivel ball-head and quick-release for tripod sample head mounts*		£105	€136	\$158
015-106	RS232 USB COM Port and cable. For communications between the analyser and computer.*		£77	€100	\$116
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.		£3,783	€4,881	\$5,675
017-074	Service (inc. strip-down; ultra-sound clean; seal renewal; function check certificate) of one HFR500 sample head		£1,175	€1,516	\$1,763
017-080	0.010in FID tube holder (blue dot) suitable for exhaust sampling with set of 5 cleaning tools.		£235	€304	\$353
017-081	0.008in FID tube holder (yellow dot) suitable for in-cylinder sampling with set of 5 cleaning tools.		£235	€304	\$353
017-090	HFR500 One-year maintenance and technical support agreement.		£4,032	€5,202	\$6,048
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 adaptor to suit the rigid length of the probe. Contact Cambustion for other available lengths.		£1,794	€2,315	\$2,691









<u>Category</u>	<u>HFR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
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.		£1,222	€1,577	\$1,833
017-150	Yellow (0.65mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
017-151	Red (1.0mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
017-152	Green (1.4mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
017-153	Blue (1.7mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
017-196	Silver (1.2mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
027-417	Set of pipes and clamps. For fitting a 15m ³ /hour TriScroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£140	€181	\$210
027-418	Set of pipes and clamps. For fitting a 5m ³ /hour and 15m ³ /hour TriScroll Pump to a Cambustion CLD500 Analyser.*		£324	€418	\$486
027-971	Set of pipes and clamps. For fitting a 15m ³ /hour Leybold Scroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£140	€181	\$210
027-985	Set of pipes and clamps. For fitting two 5m ³ /hour Leybold Scroll Pumps to a Cambustion CLD500 Analyser.*		£347	€448	\$521






















<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*		£298	€385	\$447
005-019	Vacuum Pump Hose, 1/2 inch i/d. Suitable for vacuum pump exhaust. (Price per m length)*		£12	€16	\$18
009-028	IR emitter and loom*		£329	€425	\$494
009-045	NDIR500 Spare sample flow impactor		£71	€92	\$107
009-052	Detector quartz window (Ø10.0mm).*		£74	€96	\$111
009-055	emitter quartz window (Ø11.5mm).*		£74	€96	\$111
009-089	NDIR500 Sample head seal/O-ring/washer kit. Suitable for servicing of one sample head. Material: viton.*		£74	€96	\$111
009-103	NDIR500 standard length exhaust heated sample probe (150mm rigid length)		£1,219	€1,573	\$1,829
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)		£705	€910	\$1,058
009-109	NDIR500 Sample head screw kit. Suitable for service of one sample head.*		£54	€70	\$81
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).		£1,511	€1,950	\$2,267
009-203	Set of 10 cleaning brushes.*		£33	€43	\$50
009-204	NDIR500 sample flow HEPA Filters. (Set of 10)*		£204	€264	\$306
009-206	NDIR500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M14 SSP)		£1,219	€1,573	\$1,829
009-208	NDIR500 custom length exhaust heated sample probe		£1,311	€1,692	\$1,967
009-209	NDIR500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M14 SSP)		£1,311	€1,692	\$1,967
009-220	NDIR500 standard length exhaust heated sample probe, suitable for turbocharged sample points (150mm rigid length)		£1,219	€1,573	\$1,829
009-230	NDIR500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M12 SSP)		£1,209	€1,560	\$1,814
009-231	NDIR500 custom length in-cylinder heated sample probe (M3 threaded tip - suitable for M12 SSP)		£1,362	€1,757	\$2,043




<u>Category</u>	<u>NDIR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
010-016	HT-extension for sampling spark plug*		£184	€238	\$276
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).		£477	€616	\$716
011-029	NDIR500 Complete tools and Spares Kit*		£873	€1,127	\$1,310
011-043	HFR500 2-stage vac bleed filter		£110	€142	\$165
011-082	2.5-litre extension chamber for adapting gas analyzers for in-cylinder or rapidly fluctuating pressure sampling.*		£596	€769	\$894
012-059	Non-keyed connector (Stainless Steel). For inlet 1/4in gas supplies.*		£46	€60	\$69
012-062	Yellow-keyed stainless steel gas connector. For 1/4 inch size inlet gas supplies.*		£84	€109	\$126
012-063	Non-keyed connector (Stainless Steel). For inlet 6mm size gas supplies.*		£47	€61	\$71
012-066	Yellow-keyed stainless steel gas connector. For 6mm size inlet gas supplies.*		£84	€109	\$126
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.		£4,280	€5,522	\$6,420
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.		£4,280	€5,522	\$6,420
012-150	Sampling Spark Plug Kit including: M14 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,519	€9,700	\$11,279
012-151	Sampling Spark Plug Kit including: M12 Spark Plug Heated Sample Probes + inserts Extension Volume + fittings		£7,519	€9,700	\$11,279
013-010	Calibration Adaptor to fit standard 150mm rigid sample probe		£501	€647	\$752
013-064	Tip seal for 10C or 5C dry scroll vacuum pump.*		£296	€382	\$444
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






<u>Category</u>	<u>NDIR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
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.*		£43	€56	\$65
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
013-124	500-series gas analyzer user-interface software upgrade to latest version		£232	€300	\$348
013-125	Site licence 500-series gas analyzer user-interface software upgrade to latest version		£913	€1,178	\$1,370
013-129	Full set of User Manuals (for NDIR500)		£48	€62	\$72
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.		£1,794	€2,315	\$2,691
013-145	In-line filter elements. Set of 10.		£63	€82	\$95
013-146	NDIR500 Combined sampling head and 10m conduit.		£15,655	€20,195	\$23,483
013-148	NDIR500 Head cover. For use with heated umbilical in sub-0°C conditions.		£490	€633	\$735
013-170	0.030in Sample probe insert. Set of 2. For turbo sample probes.		£32	€42	\$48

<u>Category</u>	<u>NDIR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
013-173	Vacuum Filter Elements (mist & odour for Leybold Vac pump).*		£138	€179	\$207
013-174	One-litre can of Leybonol vacuum pump oil refill.*		£76	€99	\$114
013-196	Calibration Adaptor to fit custom length sample probe		£532	€687	\$798
013-229	Tip seal for XDS35i dry scroll vacuum pump.*		£296	€382	\$444
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
015-009	NDIR500 10m sampling conduit only (without sample head fitted). Other lengths and heated variants for T<0C sampling are available on request.		£3,132	€4,041	\$4,698
015-010	NDIR500 sampling head only (without conduit fitted)		£12,524	€16,156	\$18,786
015-078	RS485 USB hub and 10-metre RS485 Cable. For communications between the analyser and computer.*		£263	€340	\$395
015-086	Tripod and Ball Head assembly for Sample Heads.*		£409	€528	\$614
015-089	Swivel ball-head and quick-release for tripod sample head mounts*		£105	€136	\$158
015-106	RS232 USB COM Port and cable. For communications between the analyser and computer.*		£77	€100	\$116
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.		£3,783	€4,881	\$5,675
017-091	NDIR500 One-year maintenance and technical support agreement.		£4,032	€5,202	\$6,048
017-098	NDIR500 Sample head service (inc. strip-down; thorough clean; seal renewal; function check certificate) of one sample head		£1,175	€1,516	\$1,763
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.		£1,222	€1,577	\$1,833
017-150	Yellow (0.65mm) Flow Restrictor. For Sample heads.		£32	€42	\$48

<u>Category</u>	<u>NDIR500</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
017-151	Red (1.0mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
017-152	Green (1.4mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
017-153	Blue (1.7mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
017-196	Silver (1.2mm) Flow Restrictor. For Sample heads.		£32	€42	\$48
027-417	Set of pipes and clamps. For fitting a 15m ³ /hour TriScroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£140	€181	\$210
027-418	Set of pipes and clamps. For fitting a 5m ³ /hour and 15m ³ /hour TriScroll Pump to a Cambustion CLD500 Analyser.*		£324	€418	\$486
027-971	Set of pipes and clamps. For fitting a 15m ³ /hour Leybold Scroll Pump to a Cambustion HFR500 or NDIR500 Analyser.*		£140	€181	\$210
027-985	Set of pipes and clamps. For fitting two 5m ³ /hour Leybold Scroll Pumps to a Cambustion CLD500 Analyser.*		£347	€448	\$521

<u>Category</u>	<u>SCS</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
000-069	Rubber labyrinth seal for 7.5 - 9.0 mm diameter cigarette		£13	€17	\$20
000-070	Knurled cigarette holder (without labyrinth seals)		£80	€104	\$120
000-101	5 off 4 inch x 40 cms lung bags for PIE simulator		£11	€15	\$17
000-127	Cigarette labyrinth seal 6.5 - 7.49 mm diameter		£13	€17	\$20
000-128	Cigarette labyrinth seal 5.5 - 6.49 mm diameter		£13	€17	\$20
000-129	Cigarette labyrinth seal 4.5 - 5.49 mm diameter		£13	€17	\$20
005-297	1 metre length of conductive silicone rubber tubing (Ø=9.8 mm).		£12	€16	\$18
005-335	0.65 mm orifice		£5	€7	\$8
005-354	1.00mm orifice		£10	€13	\$15
005-363	1.25mm orifice		£10	€13	\$15
005-368	1.50mm orifice		£5	€7	\$8
006-789	Replacement orifice thermocouple		£23	€30	\$35
007-053	Replacement 0.5 mm thermocouple for use with inlet (for measuring wick / device temperatures)		£25	€33	\$38
007-401	4mm OD 2.4mm ID Tygon Tube for pressure sensing (1 metre)		£3	€4	\$5
007-569	M5 bonded sealing washer		£1	€2	\$2
008-457	Replacement tubing for aerosol pinch valve		£11	€15	\$17
009-017	11.1 x 1.6 Viton O-ring for SCS head (3 required per head)		£2	€3	\$3
009-203	Set of 10 cleaning brushes.*		£33	€43	\$50
011-004	RS485 9 way D to RJ45 adaptor for SCS PC		£11	€15	\$17
012-017	1/16" thermocouple ferrule set		£6	€8	\$9
013-066	10 metre RJ45 cable for connecting PC to SCS		£17	€22	\$26

<u>Category</u>	<u>SCS</u>		<u>Price GBP</u>	<u>Euro</u>	<u>US Dollar</u>
015-090	Full height PCI Express card for desktop PC comms with SCS		£120	€155	\$180
015-117	Half height PCI Express card for desktop PC comms with SCS		£120	€155	\$180
017-192	Replacement calibration pipe for SCS		£86	€111	\$129

<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).		£12	€16	\$18
008-457	Replacement tubing for aerosol pinch valve		£11	€15	\$17
041-038	UDAC Charger core		£1,273	€1,643	\$1,910
041-047	UDAC Charger core service return (fitted with new corona wire)		£417	€538	\$626