



Product Spares Price List 2018












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.



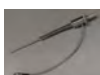

E-mail: sales@cambustion.com
















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




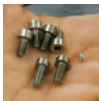

Every effort has been taken to ensure that the contents of this price list are accurate. However, Cambustion reserves the right to change the prices when circumstances require this (e.g. large exchange rate changes).

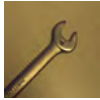
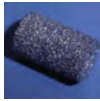













| <u>Category</u> | <u>AAC</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|---|--|------------------|-------------|------------------|
| 005-297 | 1 metre length of conductive silicone rubber tubing (Ø=9.8 mm). |  | £13 | €17 | \$20 |
| 036-097 | 24V Accessory Power plug |  | £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 |
| 036-753 | Replacement motor and looms for AAC |  | £1,132 | €1,461 | \$1,698 |
| 036-754 | Replacement sheath thermocouple assembly for AAC | | £60 | €78 | \$90 |

| <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 |
| 002-125 | Service Kit for Ozone Destroyer Catalyst Assembly |  | £195 | €252 | \$293 |
| 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 |
















| <u>Category</u> | <u>CLD500</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|---|--|------------------|-------------|------------------|
| 012-063 | Non-keyed connector (brass). For inlet 6mm size gas supplies.* |  | £41 | €53 | \$62 |
| 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 |




| <u>Category</u> | <u>CLD500</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|---|--|------------------|-------------|------------------|
| 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 |
| 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 |
















| <u>Category</u> | <u>CLD500</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|---|--|------------------|-------------|------------------|
| 013-144 | Service of ozone generator |  | £1,042 | €1,345 | \$1,563 |
| 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 |
















| <u>Category</u> | <u>CLD500</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|---|--|------------------|-------------|------------------|
| 015-106 | RS232 USB COM Port and cable. For communications between the analyser and computer.* |  | £76 | €99 | \$114 |
| 015-116 | Tip seal for 10C or 5C dry scroll vacuum pump.* |  | £214 | €277 | \$321 |
| 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 |









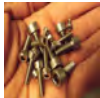




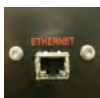

| <u>Category</u> | <u>CLD500</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|--|---|------------------|-------------|------------------|
| 017-193 | CLD tube holder (exhaust) with high-temperature o-ring and set of 5 cleaning tools. |  | £231 | €298 | \$347 |
| 017-194 | CLD tube holder (in-cylinder) with high-temperature o-ring and set of 5 cleaning tools. |  | £231 | €298 | \$347 |
| 017-196 | Silver (1.2mm) Flow Restrictor. For Sample heads. |  | £31 | €40 | \$47 |
| 027-417 | Set of pipes and clamps. For fitting a 15m ³ /hour TriScroll Pump to a Cambustion HFR500 or NDIR500 Analyser.* |  | £137 | €177 | \$206 |
| 027-418 | Set of pipes and clamps. For fitting a 5m ³ /hour and 15m ³ /hour TriScroll Pump to a Cambustion CLD500 Analyser.* |  | £318 | €411 | \$477 |
| 027-971 | Set of pipes and clamps. For fitting a 15m ³ /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 ³ /hour Leybold Scroll Pumps to a Cambustion CLD500 Analyser.* |  | £318 | €411 | \$477 |






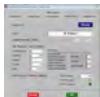

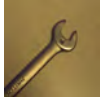






| <u>Category</u> | <u>CPMA</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|--|--|------------------|-------------|------------------|
| 005-158 | 1 metre length of conductive silicone rubber tubing (Ø=11.5 mm). |  | £17 | €22 | \$26 |
| 005-297 | 1 metre length of conductive 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 |











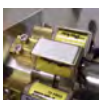




| <u>Category</u> | <u>DMS500</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|--|--|------------------|-------------|------------------|
| 005-573 | DMS500 Space charge guard assembly |  | £600 | €774 | \$900 |
| 011-079 | DMS500 classifier cleaning wipes |  | £27 | €35 | \$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. |  | £465 | €600 | \$698 |
| 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) |  | £465 | €600 | \$698 |
| 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 |

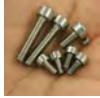
| <u>Category</u> | <u>DPG</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|--|--|------------------|-------------|------------------|
| 007-735 | Replacement primary flowmeter for dual-PAF systems. Requires power supply modification when replacing prior non-display version. |  | £1,800 | €2,322 | \$2,700 |
| 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. | | £200 | €258 | \$300 |
| 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 |
| 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 |
| 042-689 | Thermocouple PCB Complete* |  | £546 | €705 | \$819 |














| <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 |














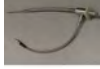

| <u>Category</u> | <u>HFR500</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|---|--|------------------|-------------|------------------|
| 001-115 | HFR500 standard length in-cylinder heated sample probe (150mm rigid length, M3 threaded tip - suitable for M12 SSP) |  | £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 |
| 015-116 | Tip seal for 10C or 5C dry scroll vacuum pump.* |  | £214 | €277 | \$321 |
| 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 |










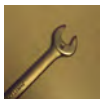
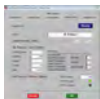



| <u>Category</u> | <u>HFR500</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|---|--|------------------|-------------|------------------|
| 017-116 | AK Protocol Remote Control. To allow a host computer to send control data and receive status information from the User Interface, using AK protocol over a Serial or an Ethernet/LAN connection. |  | £1,163 | €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 |
| 017-196 | Silver (1.2mm) Flow Restrictor. For Sample heads. |  | £31 | €40 | \$47 |
| 027-417 | Set of pipes and clamps. For fitting a 15m ³ /hour TriScroll Pump to a Cambustion HFR500 or NDIR500 Analyser.* |  | £137 | €177 | \$206 |
| 027-418 | Set of pipes and clamps. For fitting a 5m ³ /hour and 15m ³ /hour TriScroll Pump to a Cambustion CLD500 Analyser.* |  | £318 | €411 | \$477 |
| 027-971 | Set of pipes and clamps. For fitting a 15m ³ /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 ³ /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 |
| 015-116 | Tip seal for 10C or 5C dry scroll vacuum pump.* |  | £214 | €277 | \$321 |
| 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 |
| 017-091 | 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 |

| <u>Category</u> | <u>NDIR500</u> | | <u>Price GBP</u> | <u>Euro</u> | <u>US Dollar</u> |
|-----------------|--|--|------------------|-------------|------------------|
| 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 ³ /hour TriScroll Pump to a Cambustion HFR500 or NDIR500 Analyser.* |  | £137 | €177 | \$206 |
| 027-418 | Set of pipes and clamps. For fitting a 5m ³ /hour and 15m ³ /hour TriScroll Pump to a Cambustion CLD500 Analyser.* |  | £318 | €411 | \$477 |
| 027-971 | Set of pipes and clamps. For fitting a 15m ³ /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 ³ /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 |