

ACCESSORIES



1. Elastic Straps

Used to temporarily hold ceramic pad heating elements in place whilst they are correctly positioned and spaced prior to fixing in place with tie wire or banding.

Stock reference & description:

29253 Elastic, 850mm strap with hooks

2. Banding Tape

For bands of more than 4 heating elements, Cooperheat recommends that steel banding and banding clips are used to ensure the heaters remain in full contact with the pipe. For temperatures in excess of 650°C we recommend using stainless steel banding and clips.

Please note that mild steel banding should not be used on Chrome Molybdenum post weld heat treatments.

Stock reference & description:

29257 Mild steel banding (30m roll)

29259 Stainless steel banding (30m roll)

3. Banding Clips

Mild and stainless steel clips for fastening mild and stainless steel banding.

Stock reference & description:

29258 Mild steel banding clips (box of 100)

29260 Stainless steel banding clips (box of 100)

4. Banding Tools For Metal Banding Tape

For tightening, cutting off and clipping mild and stainless steel banding.

Stock reference & description:

29256 Winder banding machine

29255 Ratchet banding machine

5. Recorder Spares

Stock reference & description for EH Series Chino:

542-230 0-1200°C 180mm Fan fold chart ET-201

542-230/1 0-1200°C 180mm Fan fold chart EH-05035

542-234 Ink pad case complete with ink pads

542-231 Ink (12 Colours)

Stock reference & description for Fuji:

542-266 0-1200°C 180mm Fan fold chart

542-277 Print head cartridge

ACCESSORIES



1. Single Pole Contactors

Replacement single pole contactors and contacts for 0-65V and 0-85V output heat treatment modules and units.

Stock reference & description:

526-054/SA Single pole contactor SU280 — 250A (Assembled)

526-056 Fixed contact for 526-054/SA single pole contactor

526-057 Moving contact for 526-054/SA single pole contactor

526-073/SA Single pole contactor SW200N — 250A (Assembled)

526-073/1 Fixed contact for 526-073/SA single pole contactor

526-073/2 Moving contact for 526-073/SA single pole contactor

526-052/SA Single pole contactor SW60 — 80A (Assembled)

2. Double Pole Contactors

Replacement single pole contactors and contacts for 32.5-0-32.5V and 42.5-0-42.5V output, heat treatment modules and units.

Stock reference & description:

526-074/SA Double pole SW190 — 200A contactor (Assembled)

526-059/1 Fixed contact for 526-074/SA double pole contactor

526-059/2 Moving contact for 526-074/SA double pole contactor

3. Circuit Breakers

Replacement mains circuit breaker for heat treatment modules and units.

Stock reference & description:

522-050 125A circuit breaker for 50kVA heat treatment modules and units

522-051 160A circuit breaker for 70kVA heat treatment modules and units

4. Thermocouple Attachment Unit Spares

Replacement parts for Thermocouple Attachment Units (TAUs).

Stock reference & description:

558-027 TAU rechargeable battery, 3 Amp hour, 12V d.c

536-128 Pliers and magnet set for TAU

536-058 Replacement TAU shoulder strap and clip

ZY-41756 Replacement, populated printed circuit board for 110V thermocouple attachment unit (41756)

ZY-41757 Replacement, populated printed circuit board for 230V thermocouple attachment unit (41757)

5. Thermocouple Wire

Type K nickel chrome/nickel aluminium thermocouple wire, insulated with high temperature glass braid. Recommended maximum temperature 800°C. A consumable item, which is used to convert the thermal energy at the hot junction of the thermocouple to an electrical mV signal which can then be used by temperature control and recording instruments to accurately control and record the temperature of the item being heat treated.

Conforms to: BS EN 60584-1 : 1996 Part 4

BS EN 60584-2 : 1993 Class 1 & ANSI-MC96

The thermocouple wire is attached directly to the work piece using the 'thermocouple attachment unit' stock reference: 41756 (115V unit) or 41757 (230V unit).

Stock reference & description:

43000 100m roll of type 'K' thermocouple wire (Yellow/Red)

43000/G 100m roll of type 'K' thermocouple wire (Green/White)

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1. Thermocouple Connectors
Type 'K' plug and socket thermocouple connectors. We offer two types of thermocouple plugs, type 516-111 being the standard type normally used with compensating cable. Whereas type 516-115 'quick connection' plugs are ideally suited for use with thermocouple wire where regular connections are required.

Stock reference & description:	
516-111/Y	Type 'K' inline plug (standard connection) (Yellow)
516-112/Y	Type 'K' inline socket (Yellow)
516-115	Type 'K' inline plug (quick connection)
516-125	Type 'K' panel mounted socket



2. Tubular, Stainless Steel Sheathed Thermocouples
Commonly used for temperature measurement in furnaces and ovens.

Stock reference & description:	
42000	8.0m stainless steel sheathed type 'K' thermocouple with fitted thermocouple plug
42001	0.6m stainless steel sheathed type 'K' thermocouple with fitted thermocouple plug
42002	1.8m stainless steel sheathed type 'K' thermocouple with fitted thermocouple plug



3. High Temperature Putty
A small portion of the soft putty is fixed over the hot junction of the thermocouple, which is attached to the item being heat treated. Once the putty dries, after 20 minutes, it hardens to protect the hot junction and helps avoid possible short circuit of the thermocouple wires which would result in temperature control and recording errors.

Stock reference & description:	
43007	Jar of high temperature putty



4. Digital Thermocouple Calibration Unit
The hand held thermocouple calibration unit is an accurate measurement and millivolt source instrument, which is used to calibrate thermocouple instrumentation. It can measure or simulate 8 different thermocouple types and be used as a millivolt source. The instrument comes complete with the carrying bag, user's manual and a calibration certificate.

Stock reference & description:	
41511	VA710 thermocouple calibration unit



5. True RMS Digital Clamp Meter
The digital clamp meter is an AC/DC multifunction clamp meter capable of measuring a.c or d.c voltage to 600V, a.c current up to 400A, input impedance for DCV: 10MΩ and temperature up to 1000°C using a type 'K' thermocouple. Jaw capacity 30mm. LCD Backlight, auto and manual ranging, diode test and continuity buzzer, data hold, flashlight, auto power off, low battery indication: ≤ 3.6V, input protection. Standard accessories are test leads, point contact temperature probe, carrying bag and user manual.

Stock reference & description:	
44007	True RMS Digital Clamp Meter

ACCESSORIES



1. 60A In-Line Connectors
Spare connectors for repair of splitters and heating elements.

Stock reference & description:	
508-009	60A brass male connector
508-010	60A brass female connector
508-019	60A fibre male sleeve for use with 508-009
508-020	60A fibre female sleeve for use with 508-010
508-022	60A fibre pin for use with 508-019 and 508-020
508-040	12.7mm wide copper shim for use with 508-009 and 508-010



2. 300A In-Line Connectors
Spare connectors for repair of triple cable sets and splitters.

Stock reference & description:	
508-006	300A brass male connector
508-007	300A brass female connector
508-015	300A fibre male sleeve for use with 508-006
508-016	300A fibre female sleeve for use with 508-007
508-021	300A fibre pin for use with 508-015 and 508-016
508-041	19mm wide copper shim for use with 508-006 and 508-007



3. 300A Panel Mounted Connectors
Spare panel mounted connector sockets for repair of heat treatment modules and units. Supplied complete with fibre washer and lock nut.

Stock reference & description:	
508-001	300A panel mounted sockets
508-002	300A panel mounted plugs
508-003	300A panel mounted connector plug with neoprene sleeve



4. Energy Regulator & Aluminium Knob
Energy regulator for 110V use, aluminium knob and replacement dial for use with 110V energy regulator.

Stock reference & description:	
552-012	Energy regulator
552-014	Aluminium knob
552-015	Replacement dial



5. 110V 6 Way Control Plug & Socket
Spare in line plug and panel mounted socket, for repair of 110V control cables and control inputs and outputs.

Stock reference & description:	
516-300	7 pin panel mounted male plug
516-301	7 pin in line female socket



6. 110V Control Plugs & Sockets
Spare in-line XLR plugs and panel-mounted sockets for repair of 110V control cables and control inputs and outputs.

Stock reference & description:	
516-100	3 pin XLR type panel mounting plug for 110V contactor control
516-101	3 pin XLR type panel mounting socket for 110V contactor control
516-102	3 pin XLR type in-line socket for 110V contactor control
516-103	3 pin XLR type in-line plug for 110V contactor control

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1. Electrical Fittings - Various

All wiring and cable accessories as used in our equipment are available for purchase. The more common parts detailed below.

Stock reference & description:

558-001	Large cable ties
558-002	Small cable ties
558-003	Large stick on bases
558-004	Small stick on bases
520-018	35 x 8mm copper cable lugs
520-019	35 x 10mm copper cable lugs
520-013	25 x 8mm copper cable lugs
520-030	70 x 10mm copper cable lugs
520-069	6.3mm insulated red receptacles
520-070/1	6.3mm insulated blue receptacles

2. Fuses - Various

Various fuses and holders available as spares for our equipment. Common parts detailed below.

Stock reference & description:

530-001	Panel mounting fuse holder 1.25"
530-023	200A SIBA flat fuse
530-032	200A semiconductor fuse T350
530-053	5A glass fuse 1.25"
530-054	10A glass fuse 1.25"
530-080	DIN rail mounting fuse holder

3. 110V supply plugs and sockets

Spare in-line plugs and panel mounted sockets for repair of 110V supply cables and supply outputs.

Stock reference & description:

516-040	Large yellow, 110V, 16A, 3 round pin, Industrial (BS4343) panel mounting socket
516-040/1	Yellow, 110V, 16A, 3 round pin, Industrial (BS4343) panel mounting socket
516-041	Yellow, 110V, 16A, 3 round pin, industrial (BS4343) in-line plug

4. Flexible Insulated Preheat Magnets

Pair of powerful limpet magnets with cross bar used to quickly clamp Flexible Insulated Preheaters (FIPs) to the workpiece being preheated.

Stock reference & description:

29269	Assembled pair of limpet magnets with cross bar
536-001	Replacement, single, limpet magnet

5. Surface Combustion Unit Spare Plaque & Gasket Set

Replacement parts for repair of Surface Combustion Units (SCU).

Stock reference & description:

6262/P/15	Replacement set of 6 SCU plaques & gaskets
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6. Soft Iron Tie Wire

For heating element bands of less than 4 heating elements, soft iron wire is adequate to fix the heating elements and insulation around the workpiece.

Stock reference & description:

29266	Soft iron wire (25kg roll)
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