

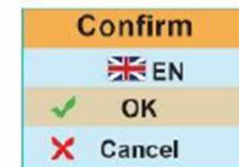
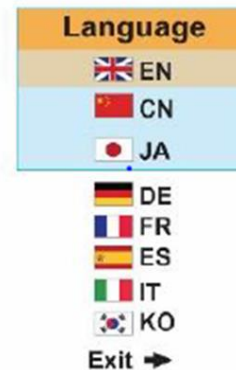
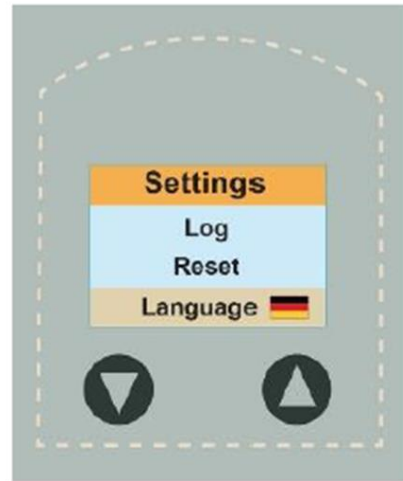
New Electronic Crimpers – what changes, what stays the same?

- Electronic High Power Crimper and Handheld Crimpers will change
- New crimpers get new part number starting with 60180-...
- Thermo Scientific brand
- Accessories will stay the same
- Accessories will stick with the old part numbers
- New power supply cable & adapters



Sample security and handling convenience

- New full-color display with additional functionalities:
- 8 languages
- Crimp setting
- Error feedback
- Battery status
- Statistics



Battery Charging Icon

Target Markets

Electr. High Power Station



Target Market

Customer

- Routine labs
- High throughput

Pain Points

- Large series of samples
- Stainless steel caps
- Sample stability and integrity
- High value samples
- Re-analysis
- Regulatory requirements
- Chain of custody

Offering

- Highest sample security
- Highest handling convenience
- All crimp caps
- Full documentation

Electr. Handheld Crimpers



Target Market

Customer

- Research
- Routine labs

Pain Points

- Cost v's performance
- Maintain consistent results
- Re-analysis
- Regulatory requirements
- Chain of custody

Offering

- High sample security
- High handling convenience
- Nearly all crimp caps
- Full documentation

List of new part numbers

Handheld battery Crimpers

	Model Number
11 mm Electronic Crimper	60180-ECR11
20 mm Electronic Crimper	60180-ECR20
8 mm Electronic Crimper	60180-ECR8
13 mm Electronic Crimper	60180-ECR13
20 mm Electronic Flip Off Crimper	60180-ECR-20CFO
20 mm Electronic No Overhang Flip Off Crimper	60180-ECR-20CFONO
13 mm Electronic Flip Off Crimper	60180-ECR-13CFO
11 mm Electronic Decapper	60180-EDCB11
20 mm Electronic Decapper	60180-EDCB20
13 mm Electronic Decapper	60180-EDCB13
6.6 Volt Lithium Ion Battery	ECR-CBATT

Same battery as old crimpers

High Power Crimper, Kits & Accessories

	Model Number
Electronic Crimping Tool HPS	60180-ECRHB
Electronic Crimping Tool HPS 11 mm Kit with Crimper and Decapper Jaw Sets	60180-ECRH11KIT
Electronic Crimping Tool HPS 13 mm Kit with Crimper and Decapper Jaw Sets	60180-ECRH13KIT
Electronic Crimping Tool HPS 20 mm Kit with Crimper and Decapper Jaw Sets	60180-ECRH20KIT
Related Items	Item Number
Accessory Base for Electronic Crimpers	ECRH-STAND
11 mm Crimper Jaw Set	ECMJ-11
20 mm Crimper Jaw Set	ECMJ-20
20 mm Flip-Off Crimper Jaw Set	ECMJ-20FO
8 mm Crimper Jaw Set	ECMJ-8
13 mm Crimper Jaw Set	ECMJ-13
13 mm Flip-Off Crimper Jaw Set	ECMJ-13FO
11 mm Decapper Jaw Set	ECDJ-11
20 mm Decapper Jaw Set	ECDJ-20
13 mm Decapper Jaw Set	ECDJ-13

- New quick start guides and new manuals available with new branding
 - How to adjust crimping settings
 - Explanation of settings
 - Explanation of Error Codes
 - Battery replacement
 - General maintenance
 - Troubleshooting
- Regulatory content in several languages

The logo for Thermo Scientific, featuring the word "thermo" in red lowercase letters and "scientific" in grey lowercase letters below it.

New product flyer

thermoscientific

PRODUCT SPECIFICATIONS

Electronic crimpers

Thermo Scientific electronic crimping and decrimping tools

Adjustable crimp and highest sample security

Product features and benefits

- One hand operation with a simple push of a button
- Error message feedback after incorrect crimping process
- Adjustable settings for best crimp results
- Actual crimp power setting displayed on the color screen
- 8 different languages available – EN, CN, JA, DE, FR, ES, IT, KO
- Statistics and log of recent crimping results
- Motor with extended lifetime and no particle emission

Maximized sample security with electronic crimping tools

Our new electronic Thermo Scientific™ Crimper portfolio includes tools for 8mm, 11mm, 13mm, and 20mm Crimp Caps. The tools provide all important settings like actual crimp power at one glance. The hand-held Crimpers and Decrimpers allow crimping of vials with aluminum, pressure release and bi-metal caps while remaining in most sample trays. If steel caps are in use we recommend the Thermo Scientific™ High-Power Crimp Station as it provides highest crimping force independent from battery charge status. The Crimp Head selection includes also special crimp heads for 13mm and 20mm flip-off caps, further specials are available on request.



Versatile Crimp Station



Exchangeable jaw sets for crimping or decrimping and stainless steel seals on various diameter vial

Thermo SCIENTIFIC

thermoscientific

Electronic High-Power Crimper

Each High-Power Crimper comes with 12 volt DC supply with power cord.

Crimp and Decrimp Heads for the High-Power Crimper are included in the kits and also available separately.

The High-Power Crimper can be used as a hand-held device – additional convenience applies with the optional adjustable accessory base which measures 25.4 x 17.7cm; the maximum height for the crimper stand is 37.6cm.



Description	Cat. No.	Pack of
Programmable Electronic High Power Crimper	60180-ECRHB	1
Programmable Electronic High Power Crimper Kit 11mm including 11mm Crimp Head and 11mm Decrimp Head	60180-ECRH11KIT	1
Programmable Electronic High Power Crimper Kit 13mm including 13mm Crimp Head and 13mm Decrimp Head	60180-ECRH13KIT	1
Programmable Electronic High Power Crimper Kit 20mm including 20mm Crimp Head and 20mm Decrimp Head	60180-ECRH20KIT	1

Accessories for High-Power Crimper

Description	Cat. No.	Pack of
Accessory Base for Electronic Crimpers Height adjustable and solvent resistant (consists of base plate and bar)	ECRH-STAND	1
8mm Crimp Head	ECMJ-8	1
11mm Crimp Head	ECMJ-11	1
11mm Decrimp Head	ECDJ-11	1
13mm Crimp Head	ECMJ-13	1
13mm Decrimp Head	ECDJ-13	1
13mm Flip-Off Crimp Head	ECMJ-13FO	1
20mm Crimp Head	ECMJ-20	1
20mm Decrimp Head	ECDJ-20	1
20mm Flip-Off Crimp-Head	ECMJ-20FO	1

Electronic hand-held Crimpers and Decrimpers

The battery charge icon on the color screen of the hand-held tools changes to red when battery is low. Each hand-held tool comes with fully rechargeable lithium ion battery and universal power supply/recharger and international plug adapters.

Description	Cat. No.	Pack of
Crimper for 8mm Aluminum Crimp Caps	60180-ECR8	1
Crimper for 11mm Aluminum Crimp Caps	60180-ECR11	1
Crimper for 13mm Aluminum Crimp Caps	60180-ECR13	1
Crimper for 20mm Aluminum Crimp Caps	60180-ECR20	1
Decrimper for 11mm Aluminum Crimp Caps	60180-EDCB11	1
Decrimper for 13mm Aluminum Crimp Caps	60180-EDCB13	1
Decrimper for 20mm Aluminum Crimp Caps	60180-EDCB20	1

Find out more at thermofisher.com/vials

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thermo scientific

EC DECLARATION OF CONFORMITY



The undersigned representing the manufacturer
Chromatography Research Supplies, Inc.
2601 Technology Drive
Louisville, Kentucky 40290
USA

and in the community
Chromatography Research Supplies, Inc.
Kabelweg 37 / 4th Floor
1014 BA Amsterdam
The Netherlands

herewith declared that the Products: **Electronic Crimping Tools**

Model/Type ref.

60180-ECR8	8mm Electronic Crimper	60180-ECR-20CFONO	20mm Electronic No Overhang Flip Off Crimper
60180-ECR11	11mm Electronic Crimper	60180-EDCB11	11mm Electronic Decapper
60180-ECR13	13mm Electronic Crimper	60180-EDCB13	13mm Electronic Decapper
60180-ECR-13CFO	13mm Electronic Overhang Flip Off Crimper	60180-EDCB20	20mm Electronic Decapper
60180-ECR20	20mm Electronic Crimper		
60180-ECR-20CFO	20mm Electronic Overhang Flip Off Crimper	60180-ECRHB	Electronic Crimping Tool

is in conformity with the Essential requirements of the following EC Directives when subject to correct installation, maintenance and use conforming to its (their) intended purpose, to the applicable regulations and standards, to our operation and maintenance manual.

2014/30/EU	EMC Directive
2006/42/EC	Machinery Directive
2011/65/EU	Restriction of Hazardous Substances (RoHS)

and that the Standards and/or technical specifications referenced below have been applied:

- EN 60204-1:2006+A1:2009 / IEC 60204-1:2005+A1:2008 - Safety of Machinery – Electrical equipment of machines-Part 1: General requirements.
- EN ISO 12100:2010 - Safety of Machinery – General principles for design – Risk assessment and risk reduction.
- EN 61010-1:2010 (3rd Edition) / IEC 61010-1:2010 (3rd Edition) - Safety requirements for electrical equipment for measurement, control, and laboratory use.
- Essential health and safety requirements relating to the design and construction of machinery and safety components - Machinery Directive 2006/42/EC – Annex 1.
- EN 50581:2012 - Technical Documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.
- EN 61326-1:2013 / IEC 61236-1:2012 - Electrical equipment for measurement, control and laboratory use - EMC requirements.
- EN 61000-3-2:2014 / IEC 61000-3-2:2014 – Electromagnetic Compatibility – Limits for harmonic current emissions
- EN 61000-3-3:2013 / IEC 61000-3-3:2013 – Electromagnetic Compatibility – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection

Year of CE Marking: 2018

Signature: Ed Heiny	Date
	July 31, 2018
Position	Place
Quality Manager	Louisville, Kentucky USA

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