

## Heracast iQ

Art. code 6600 4331

Technical Data	
Rated voltage	230 V (+/- 10%), 50/60 Hz
Melting type	Induction
Power	2.0 kVA for generator; 2.6 kVA for the complete unit
Max. casting temperature	> 1650 °C
Alloys	Precious metal; non-precious metal; model casting
Volume of alloy (PM)	130 g
Volume of alloy (NPM)	60 g
Casting sequence	3–5 min
Operating mode	100% duty cycle
Dimensions (B x H x D)	770 x 490 x 450 mm
Floor space required (B x H x D)	1000 x 490 x 550 mm
Weight	65 kg
Languages	DE, GB, F, I, E
Interface	yes, RS 232 (serial PC port for service only)
Input pressure	4–7 bar
Working pressure	3.3 bar
Pressure sensor	digital
Pressure relief valve	yes
Max. vacuum	< 50 mbar
Vacuum adjustment	digital via software
Water cooling	integrated ~2.5 litres

Optional accessories (not supplied with the Heracast iQ)		
Maintenance set (required in case of moist or contaminated compressed air or with supply pressure > 7 bar)		Art. code 6600 5499
Pressure accumulator tank (required in case of insufficient compressed air line diameter)		Art. code 6600 8921
Consumables Heracast iQ / EC (Components can also be ordered separately)		Art. code 6600 5470
Crucible holder	1 piece	Art. code 6450 0509
Ceramic crucible for PM alloys	1 package	Art. code 6450 0683
Graphite insert for ceramic crucible	1 package	Art. code 6450 0684
Ceramic crucible for NPM alloys	1 package	Art. code 6450 0685
Casting ring X3	3 piece	Art. code 6450 0694
Casting ring X6	3 piece	Art. code 6450 0696
Casting ring X9	3 piece	Art. code 6450 0698
Crucible former X3	1 piece	Art. code 6450 0708
Crucible former X6	1 piece	Art. code 6450 0710
Crucible former X9	1 piece	Art. code 6450 0712
Flux pellets, small	1 package	Art. code 6450 0982
Scoop	1 piece	Art. code 6600 2415
Sprueing aid – Plexiglas half-shell	1 piece	Art. code 6460 0012

## Heracast EC

Art. code 6604 1213

Technical Data	
Rated voltage	230 V (±10%); 50/60 Hz
Melting type	Induction
Power	1.5 kVA for generator; 2.3 kVA for the complete unit
Max. casting temperature	> 1650 °C
Alloys	Precious metal; non-precious metal; model casting
Volume of alloy (PM)	130 g
Volume of alloy (NPM)	60 g
Casting sequence	4–7 min
Operation mode	Intermittent (up to seven castings in succession)*
Dimensions (B x H x D)	650 x 550 x 450 mm
Floor space required (B x H x D)	650 x 550 x 550 mm
Weight	60 kg
Languages	Icons, DE, GB, JP
Interface	yes, RS 232 (serial PC port for service only)
Input pressure	4–7 bar
Working pressure	3.3 bar
Pressure sensor	digital
Pressure relief valve	yes
Max. vacuum	< 50 mbar
Vacuum adjustment	digital via software
Water cooling	integrated ~2.5 litres

Optional accessories (not supplied with Heracast EC)		
Vacuum pump CL-P (type 7)		Art. code 6600 2450
Maintenance set (required in case of moist or contaminated compressed air or with supply pressure > 7 bar)		Art. code 6600 5499
Pressure accumulator tank (required in case of insufficient compressed air line diameter)		Art. code 6600 8921
Consumables Heracast iQ / EC (components can also be ordered separately)		Art. code 6600 5470
Crucible holder	1 piece	Art. code 6450 0509
Ceramic crucible for PM alloys	1 package	Art. code 6450 0683
Graphite insert for ceramic crucible	1 package	Art. code 6450 0684
Ceramic crucible for NPM alloys	1 package	Art. code 6450 0685
Casting ring X3	3 piece	Art. code 6450 0694
Casting ring X6	3 piece	Art. code 6450 0696
Casting ring X9	3 piece	Art. code 6450 0698
Crucible former X3	1 piece	Art. code 6450 0708
Crucible former X6	1 piece	Art. code 6450 0710
Crucible former X9	1 piece	Art. code 6450 0712
Flux pellets, small	1 package	Art. code 6450 0982
Scoop	1 piece	Art. code 6600 2415
Sprueing aid – Plexiglas half-shell	1 piece	Art. code 6460 0012

\* depending on type and quantity of alloy

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# casting machines

Heracast iQ/Heracast EC  
Vacuum-pressure casting machines



More information?!

See [www.heraeus-hera.com](http://www.heraeus-hera.com) for a step-by-step 3D animation showing how the casting unit is used. You are also welcome to contact the Heraeus Kulzer sales team.

Manufactured by:

**Heraeus Kulzer GmbH**

Grüner Weg 11  
63450 Hanau  
Phone 0800 43 72-522  
Fax 0800 43 72 329  
info.lab@heraeus.com  
www.heraeus-hera.com  
www.heraeus-dental.com

Distributed by:



# The intelligent plug & cast all in one vacuum-pressure casting machine to have fun.

## iQ

An intelligent casting machine that navigates the user through a self-explanatory menu, displays each operating stage, automatically calculates all casting parameters and includes a database with up to 100 alloys and their technical data – that's the **Heracast iQ**. **iQ** – because it really is intelligent.

## plug & cast

Simply connect the machine to a standard power socket and compressed air supply – and the **Heracast iQ** is ready for casting. Just **plug & cast**.

## all-in-one

Although the **Heracast iQ** is a compact bench unit the vacuum pump and cooling are integrated. It really is an **all-in-one** casting machine.

## Core competence casting technology

More than 30 years ago Heraeus Kulzer introduced the vacuum pressure casting technique to dental technology and developed it continuously. In terms of our equipment this means that we have made our casting units more powerful,

reliable, compact and efficient – for the benefit of our customers. In developing the **Heracast iQ** we have created the leading casting machine on the market, both technically and technologically. The **Heracast iQ** will help you success-

fully meet the high demands placed on your laboratory in terms of quality and cost-effectiveness.

## Successful casting:

The **Heracast iQ** ensures maximum reliability during production, guaranteed by consistently high-quality castings. This is because the **Heracast iQ** makes use of the most successful and reliable casting procedure in dental technology: the vacuum-pressure casting technique.

This has the following advantages:

- No wastage of metal during casting
- Minimal metal usage, as neither sprue button nor ventilation sprue are required
- Reliable, material-specific melting and casting under vacuum

- Gentle melting of precious metal alloys
- Fine-grained, dense castings with smooth surfaces
- No inclusions of graphite or ceramic particles in the casting

## Heracast EC – Easy Casting

Heraeus, the inventor of the vacuum-pressure casting technology, has developed the new Heracast EC, an induction-heated vacuum-pressure casting unit for laboratories of all sizes. Heracast EC offers high quality casting, high technology and compact design at an economical price.

## Easy to operate: Heracast EC – Easy Casting

Eight simple steps that satisfy your high demands for quality and economy:



## Great to operate

The **Heracast iQ** communicates interactively with the user and requests all the necessary information and operations. Operating errors are virtually ruled out. The optimized mechanics of the casting chamber turn loading of the casting mould and filling with metal into child's play. The powerful high-frequency generator quickly and gently heats both high-gold-content precious metal alloys as well as CoCr alloys to the correct casting temperature. The **Heracast iQ** can either cast automatically or the user can cast by hand. Only 3 to 5 minutes are required per casting. This is easy casting.

Fig. 1) = Selecting the crucible

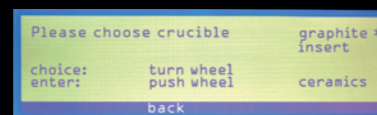


Fig. 2) = Premelting

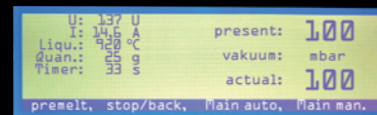


Fig. 3) = Main melt



Fig. 4) = Interactive user navigation



**+** **Professional**  
Proven vacuum-pressure casting technology

**+** **All-rounder**  
Casts precious metals and non-precious metals for all indications

**+** **Compact**  
Space-saving and powerful

## Take it Easy!

Safe, easy melting and casting under vacuum – the quality of the Heracast EC for large laboratories is second to none. Fine-grained, dense casting with smooth surfaces are the result of 40 years of experience.

Just plug it in and get to work! The powerful high-frequency generator brings precious metal alloys and non-precious metal alloys to the right casting temperature quickly and safely. Water cooling is integrated.

Operation is simple with a self-explanatory menu-guided interface with icons and selection by rotary switch. Operating errors are virtually impossible.

The Heracast EC has a new sealing technology for the casting unit and an internal swivel mechanism. The casting unit no longer rotates, with the casting done in the interior of the unit. This guarantees high operational safety.