

### 3 Technical data

	<b>VC400 3x 400V</b>	<b>VC400 1x 230 V</b>	<b>VC400 3x 230 V</b>
crucible volume (1)	170 cm <sup>3</sup> ≈ 2.5 kg/Au		
flasks	Max. Ø 130 mm (5") * 260 mm (10") height Standard: Ø 125, 100, 90, 80, 70 mm		
highest working temperature (2)	Max. 1400 °C with type S thermocouple (only with high-temperature insulations)		
power in kW	4.5	3.5	4.5
mains	3 x 400 V, 50 or 60 Hz	1 x 230 V, 50 or 60 Hz	3 x 230 V, 50 or 60 Hz
fuse protection	3x 16 A (400V)	1 x 16 A	3 x 16 A
short circuit current	max 5.0 kA		
thermocouple	Type K (NiCr-Ni; max. 1200 °C) or Type N (NiCrSi-NiSi; max. 1300 °C) or Type S (PtRh-Pt; max. 1500 °C)		
cooling water supply	Ø 13 mm (until 2018: 8 mm), fittings with 1/4" thread 2.5 - 5 bar, min. 130 l/h, 3 to 8 °dH, PH value 7-8.5.		
Waterflow	2 Liters/min, at 3 bar pressure		
water output	Ø 13 mm, Pressureless, maximum 70 °C (158 °F)		
cooling water input temperature	15 - 25 °C / 59 – 77 °F {to prevent condensation 20 – 25 °C / 68 – 77 °F}		
recommendation for water cooler	2.25 kW cooling capacity (50 % of heating power of VC400 e.g. TAE evo tech M10 4 kW)		
relative humidity	20 - 80 %		
protective gas supply	1 x Ø 6 mm, fitting with 1/4" thread 8 bar, pure N <sub>2</sub> or pure Ar, consumption 1-3 l/min		
vacuum	1x Ø 13 mm, fitting with 1/4" thread 0 - 20 mbar absolute, min. 21 m <sup>3</sup> /h		
vacuum pump connector	16 A, CEE, 4 pin, maximum 1.5 kVA	no	16 A, CEE, 4 pin, maximum 1.5 kVA
overpressure in the induction chamber	max. 1.5 bar		
weight in kg	ca. 120		
IP Code International Protection Marking	IP20		
dimensions in mm (width x depth x height)	500 x 760 x 1450		
Options	<ul style="list-style-type: none"> <li>• granulation tank</li> <li>• sinter unit</li> <li>• S-crucible</li> <li>• 3 bar (factory option)</li> </ul>		
Noise emission	75 dB (A)		