

Fusion technology

VULCAN

Fusion technology is used to prepare samples to be analyzed with an X-ray fluorescence machine. It is also used to improve precision compared to pressed powder technology. Using your VULCAN in combination with the extractor hood will ensure that every bead is produced under the same constant conditions!

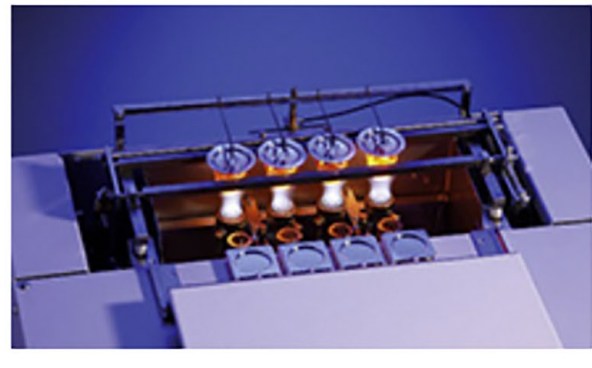


Tech Details	Vulcan 2MA	Vulcan 4MA	Vulcan 6MA
Stations:	2	4	6
Supply:	110V/60Hz 230V/50Hz	110V/60Hz 230V/50Hz	110V/60Hz 230V/50Hz
Power:	170 Watt	210 Watt	210 Watt
Temperature:	0-1.600 °C	0-1.600 °C	0-1.600 °C
Air pressure:	6 bar	6 bar	6 bar
Natrual gas pressure:	250 mbar	250 mbar	250 mbar
LPG pressure:	250 mbar	250 mbar	250 mbar
Oxygen pressure:	2 bar	2 bar	2 bar
Air consumption:	max 1m³/h	max 2m³/h	max 3m³/h
Natural gas consumption:	max 0,66m³/h	max 1,2m³/h	max 1,8m³/h
LPG consumption:	max 0,5m³/h	max 0,6m³/h	max 0,7m³/h
Oxygen consupcion:	max 0,5m³/h	max 1m³/h	max 1,5m³/h
Length:	530 mm	530 mm	530 mm
Width:	530 mm	700 mm	700 mm
Hight:	300 mm	300 mm	300 mm
Wight:	~ 40kg	~ 45kg	~ 50kg
Samples/h:	6	12	18

Other versions on request. Please ask about installation requirements!

Feed and mould control

Easy fitting and lifting of the moulds It is not possible to forget the moulds No contact with the fusion chamber Longer durability of the moulds

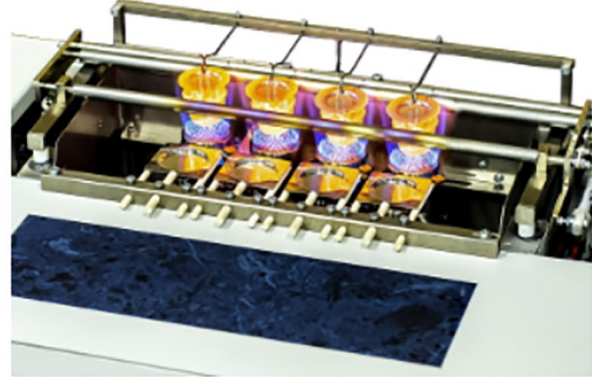


Cover function for crucibles

Higher temperature in the crucible (excellent for materials that do not dissolve at low temperatures) Higher thermal stability in the crucible

Lower energy consumption (gases)

Protection against contamination of the sample



VULCAN MA

- Automatic version
- No manual adjustment of the flames Full microprocessor control
- Applications with variable temperature settings possible High flexibility for all types of applications
- Storage of 10 different programs



VULCAN ICP/AAS

Available as pure ICP device with 4 or 6 stations

Also available as a mix of XRF and ICP stations, for e.g. 21 MA, 22 MA, 31 MA, 32 MA, 41 MA and 42 MA

(first number indicates the XRF-stations, the second the ICP-stations)

Speed of the magnetic stirrer is adjustable



Tech Details	Vulcan 22MA/ICP	Vulcan 4MA/ICP	Vulcan 6MA/ICP
Stations:	2XRF / 2ICP	4 ICP	6 Peroxide
Supply:	110V/60Hz 230V/50Hz	110V/60Hz 230V/50Hz	110V/60Hz 230V/50Hz
Power:	210 Watt	210 Watt	210 Watt
Temperature:	0-1.600 °C	0-1.600 °C	0-1.600 °C
Air pressure:	6 bar	6 bar	6 bar
Natural glas pressure:	250 mbar	250 mbar	250 mbar
LPG pressure:	250 mbar	250 mbar	250 mbar
Oxygen pressure:	2 bar	2 bar	-
Air consumption:	max 2m³/h	max 2m³/h	max 3m³/h
Natural glas consumption:	max 1,2m³/h	max 0,9m³/h	max 1,35m³/h
LPG consumption:	max 0,5m³/h	max 0,45m³/h	max 0,525m³/h
Oxygen consumption:	max 1m³/h	max 1m³/h	-
Length:	530 mm	530 mm	530 mm
Width:	530 mm	700 mm	700 mm
Hight:	300 mm	300 mm	300 mm
Wight:	~ 45kg	~ 45kg	~ 50kg
Samples/h:	8-10	8-10	16-20

Flux

Borate flux with guaranteed purity from our own production. All fluxes are delivered with a certificate of analysis.

- Anhydrous homogeneous pre-fused fluxes with a low loss on ignition and defined granulometry
- With these fluxes, the sample is completely dissolved in a borate glass with a perfect surface
- Non-hygroscopic Dust < 1%
- purity > 99,98%
- Special fluxes on request



Code Number	Description
1018200	FLUX LT100: Lithium Tetraborate 2kg
1011200	FLUX LT66:LM34: 66% Lithium Tetraborate/34% Lithium Metaborate 2kg
1007300	FLUX LT50:LM50: 50% Lithium Tetraborate/50% Lithium Metaborate 2 kg
1007000	FLUX LT20:LM80: 20% Lithium Tetraborate/80% Lithium Metaborate 2 kg
1015900	FLUX LT80:LM20: 80% Lithium Tetraborate/20% Lithium Metaborate 2 kg
1017800	FLUX LM100: Lithium Metaborate 2kg

Platinum ware

- We supply platinum ware made from platinum/gold 95/5 for fusion machines and laboratory needs
- We also offer all platinum ware in FKS
- This surface finishing increases the lifetime of your crucibles and moulds. Please ask for a quote
- We accept old platinum ware for recycling as credit against your next order



Article-No.	Description
87014866	Crucible for VULCAN 34x20x38 44g
87047942	Crucible for VULCAN 34x20x38 44g FKS
81083378	Crucible for VULCAN 36x22x38 51g
81083379	Crucible for VULCAN 36x22x38 51g FKS
87001434	Mould for VULCAN 31/29mm 27g
87016993	Mould for VULCAN 31/29mm 27g
80008877	Mould for VULCAN 34/32mm 31g
87043887	Mould for VULCAN 34/32mm 31g FKS
87001438	Mould for VULCAN 36/34mm 45g
87008780	Mould for VULCAN 36/34mm 45gFKS
87001439	Mould for VULCAN 41/39mm 45g
87017023	Mould for VULCAN 41/39mm 45g FKS