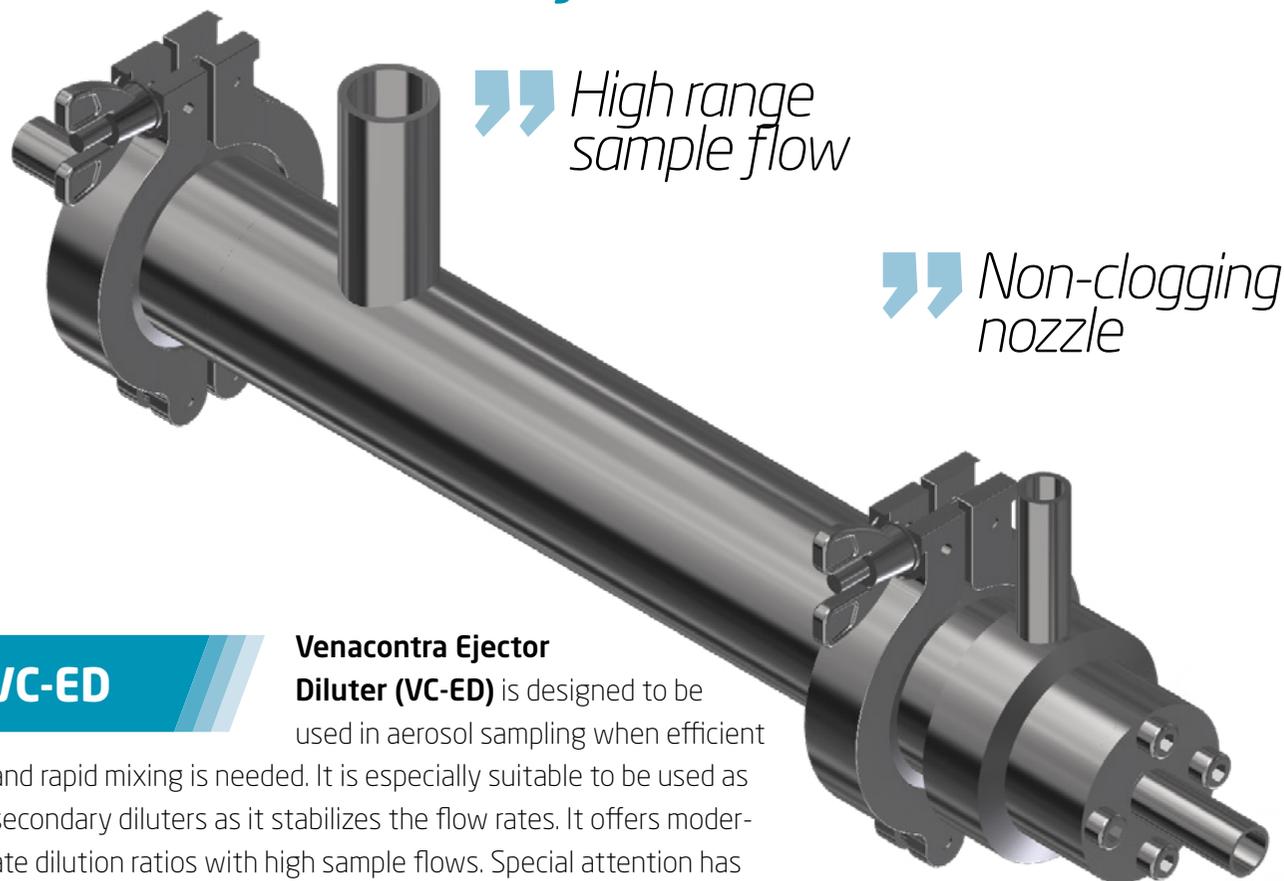


VENACONTRA EJECTOR DILUTER



“ High range
sample flow

“ Non-clogging
nozzle

“ Constant
dilution
ratio

VC-ED

Venacontra Ejector

Diluter (VC-ED) is designed to be used in aerosol sampling when efficient

and rapid mixing is needed. It is especially suitable to be used as secondary diluters as it stabilizes the flow rates. It offers moderate dilution ratios with high sample flows. Special attention has been given to designing of the ejector nozzle, which is not easily blocked with aerosols containing high concentrations and condensable vapours.

The operating principle of the ejector diluter is based on the high speed of pressurized dilution gas flow around an ejector nozzle. This causes a pressure drop that draws the aerosol sample through the nozzle, and subsequently mixes with the sample aerosol stream with the dilution gas flow.

DILUTING is often one of the most crucial parts of the aerosol sampling and measurement systems. For most aerosol measurement setups, the target of the aerosol dilution system is to dilute and cool the sample suitable for the used analysers and to preserve the sample as unbiased as possible.

THE VENACONTRA DILUTING SAMPLING SYSTEMS are designed to achieve these goals. They provide stable and adjustable flow rates and a well-conditioned dilution and mixing process, which is essential in having desired sampling conditions with minimal sampling artefacts.

Reliable sampling

Venacontra is a Finnish company in the field of aerosol technology. We provide diluting aerosol sampling systems for various aerosol environments. We have decades of expertise in combustion processes, nanomaterial synthesis and aerosol sampling systems. We provide customised solutions and expertise for designing your sampling set-ups.

See more and contact us on our website
www.venacontra.com



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Venacontra Ejector Diluter (VC-ED) Technical description



venacontra

Reliable sampling

sales@venacontra.com
www.venacontra.com

Multi-outlet
also available

Exhaust outlet

Easy connection
with clamps

Non blockable
nozzle

Material	
Body	Stainless steel 316L (1.4404)
Seal	Copper
Clamps	Stainless steel
Clamp seals	Viton
Inlet	
Sample	12 mm
Dilution gas	12 mm
Outlet	
Exhaust	22 mm
Sample	12 mm
(Optional multioutlet)	(6x12 mm)
Maximum temperature	180°C
Flows	
Sample inlet	23-67 lpm
Dilution gas inlet	70-200 lpm
Sample outlet	93-267 lpm
Dilution ratio	4
Dimensions	
length	320 mm
max. width	110 mm
Weight	2.1 kg

