



Gas / Air Mixer

AGU3.7...

Gas / air mixing unit for compact gas control loops in connection with combination gas valves VGU...

Suited for gas-fired appliances of low capacity (wall-hung and floor-standing models) with modulating premix burners.

The AGU3.7... and this Data Sheet are intended for use by OEMs which integrate the gas / air mixer in their products!

Use

The gas / air mixer is employed to provide homogeneous mixing of gas and air. It is used on the inlet side in connection with compact gas control loops VGU...

Warning notes



To avoid injury to persons, damage to property or the environment, the following warning notes must be observed!

Do not interfere with or modify the unit!

- All activities (mounting, installation and service work, etc.) must be performed by qualified staff
- After fall or shock, the gas / air mixer must not be put into operation because safety functions can be adversely affected, even if the unit does not exhibit any damage

Mounting notes

- Ensure that the relevant national safety regulations are complied with

Standards and certificates



Note!
Only in connection with combination gas valves!



EAC Conformity mark (Eurasian Conformity mark)



ISO 9001:2008
ISO 14001:2004
OHSAS 18001:2007

Disposal notes



The gas / air mixer must not be disposed of together with household garbage.
Local and currently valid legislation must be observed.

Mechanical design

- Very compact unit
- Connection matched to RG118 standard types of fans (MVL)

Type summary

Type code

A G U 3 . 7 1 8 A 0 0 9

Diameter of nozzle

13: Ø 13 mm

15: Ø 15 mm

18: Ø 18 mm

21: Ø 21 mm

23: Ø 23 mm

28: Ø 28 mm

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Ordering

Gas / air mixer

refer to «Type code»

- Supplementary documentation
 - VGU7... / VGU8... refer to Data Sheet N7664
 - VGU7xS.xx / VGU8xS.xx refer to Data Sheet N7668

Accessories

(to be supplied by customer!)

Mounting bracket (spring)

Cellular rubber seal

- Gas resistant
- DVGW Approval

Technical data

General unit data	Type of gases	gas families II / III to DVGW 6260 / I
	Connections	
	- Gas	Plug connection with O ring and mounting bracket (spring) Option: For use in a gas nozzle For size refer to «Dimensions»
	- Air	Screw fastening to inlet side of fan Aligned on standard fan to EBM / MVL and FIME
	Mounting position	optional
	Materials	
	- Mixer housing	PA 66 GF25
	- Nozzle and diffuser	PA 66 GF25
	Fire protection requirement	Class V0
	Weight	Approx. 50 g
	Screw-on torque	1.7 Nm (RG118 standard fan from MVL)

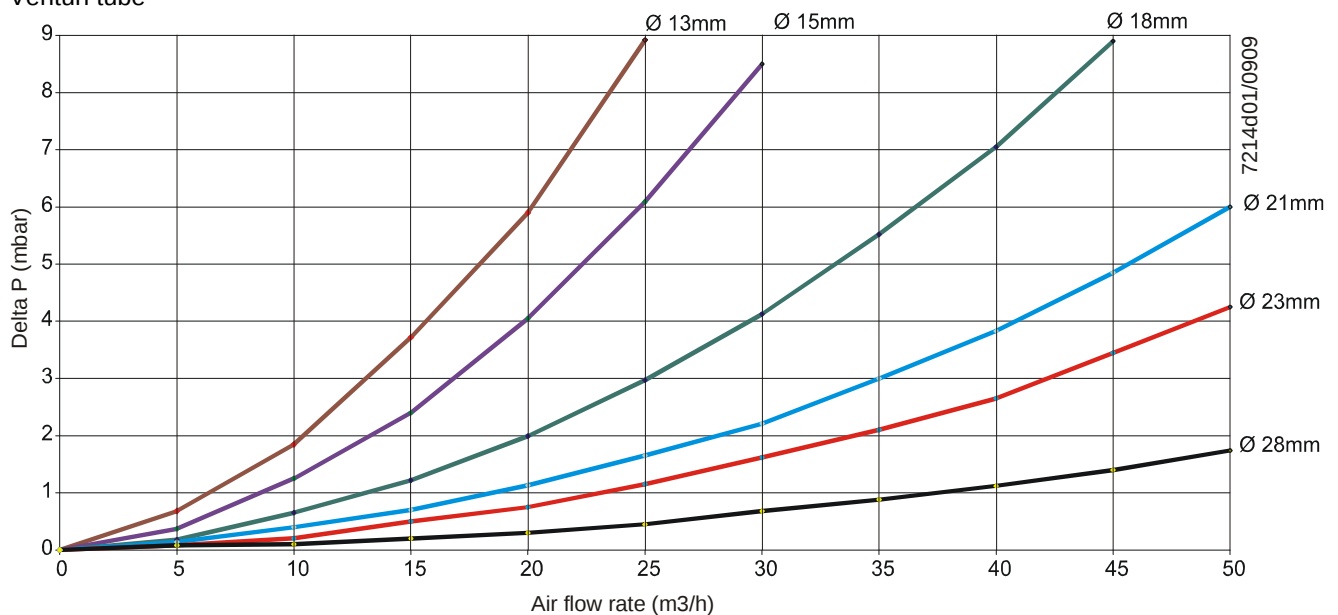


Caution!

The screw must be locked by taking appropriate measures (e.g. with screw locking varnish)!

Air throughput at Venturi tube

Operating range / dimensioning



The graph shows the standard sizes. Intermediate sizes are available on request.

➔ Ensure that dimensioning matches the application exactly.

Fine-tuning of the volumetric flow is accomplished via the fan's speed.

Technical data (cont'd)

Environmental conditions	Storage	DIN EN 60721-3-1
	Climatic conditions	Class 1K3
	Mechanical conditions	Class 1M2
	Temperature range	-20...+80 °C
	Humidity	<95 % r.h.
	Transport	DIN EN 60721-3-2
	Climatic conditions	Class 2K2
	Mechanical conditions	Class 2M2
	Temperature range	-20...+80 °C
	Humidity	<95 % r.h.
	Operation	DIN EN 60721-3-3
	Climatic conditions	Class 3K3
	Mechanical conditions	Class 3M2
	Temperature range	-20...+80 °C
	Humidity	<95 % r.h.

Connection diagram



Gas connection must be protected against slip out, e.g. by securing with a mounting bracket

Dimensions

Dimensions in mm

AGU3.7...

