SIEMENS 7²¹¹





Gas / Air Mixer

AGU3.6...

Supplementary Data Sheet 7662

Gas / air mixing unit designed for use in connection with compact gas control loops VDU..., suited for gas-fired appliances of low capacity (wall-hung and floor-standing models) with modulating premix burners.

The AGU3.6... 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 pressure side in connection with compact gas control loops VDU...



To avoid injury to persons, damage to property or the environment, the following warning notes should be observed! Do not interfere with or modify the unit!

 After fall or shock, the gas / air mixer may 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
- · Mounting must be carried out by qualified staff

Installation notes

Installation and maintenance work must be carried out by qualified staff

Norms and standards

CE conformity according to the directives of the European Union
- Directives for gas-fired appliances 90 / 396 EEC

Disposal notes

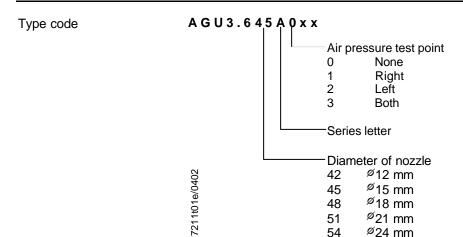


The gas / air mixer may not be disposed of together with household garbage. Local and currently valid legislation must be observed.

Mechanical design

- Very compact unit
- Connection matched to standard types of fans
- Amplified air signal for compact gas control loops VDU...
- Modulation range in connection with VDU...: 10...100 %

Type summary



Ordering

Gas / air mixer

refer to «Type code»

refer to «Dimensions»

Accessories



Gasket

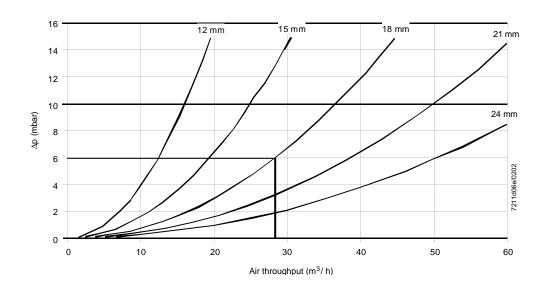
- Suited for use with gas
- DVGW approval

Technical data

General unit data	Suitable gases	gas families II / III to DVGW 6260 / I
	Connections	
	- Gas	 pipe thread ISO 228 – G ¾"B
		 threaded with gasket
		 optional use of gas nozzle
		- for size, refer to «Dimensions»
	- Air	 dimensions matched to the standard fans from EBM / MVL and FIME
	Mounting position	- optional
		 a minimum clearance to the burner is required, depending on the type of
		burner
	Materials	
	- Housing	GD-AlSi12 (Leg. 230)
	 Nozzle and diffuser 	GDZuAl4Cu1
	Weight	approx. 280 g

Operating range / sizing

Air throughput at Venturi tube



Example: Δp across mixer = 6 mbar Dia. of Venturi tube = 18 mm

VAir d = 1 = approx. 28 m³ / h

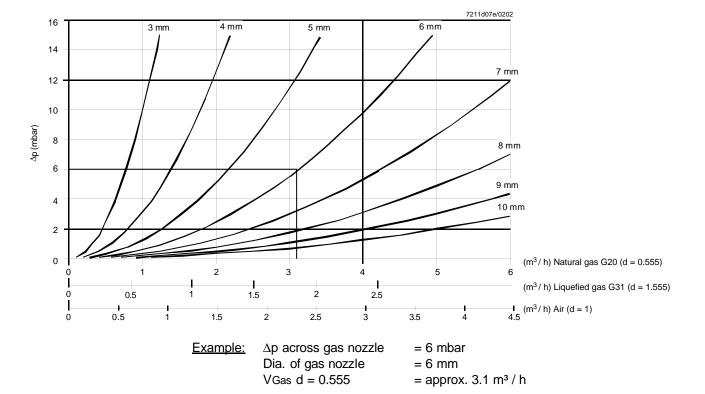
The graph shows the standard sizes.

Intermediate sizes are available on request.

Ensure that size matches the application.

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

Throughput at gas nozzle



Ensure that size matches the application.

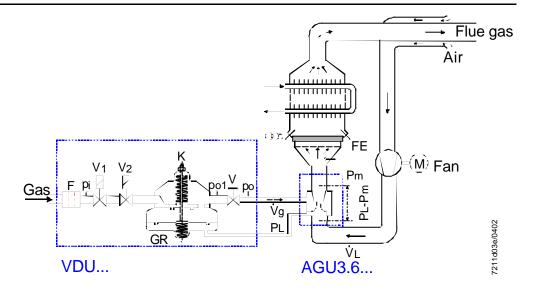
Fine-tuning of the volumetric flow is accomplished via the «V» screw of the VDU...

Environmental conditions

Transport	IEC 60 721-3-2
Climatic conditions	class 2K2
Mechanical conditions	class 2M2
Temperature range	-20+80 °C
Humidity	< 95 % r.h.
Operation	IEC 60 721-3-2
Operation Climatic conditions	IEC 60 721-3-2 class 3K5
•	
Climatic conditions	class 3K5



Condensation, formation of ice and ingress of water are not permitted!



F Filter Legend FΕ Ionization probe GR Pneumatic air / gas ratio controller Κ Adjusting screw for parallel displacement of the air / gas pressure ratio characteristic Fan motor Μ pi Gas inlet pressure pL Air pressure (compensating variable) Pressure in the mixing chamber pm Gas outlet pressure (on the burner side) ро Gas pressure upstream of the main gas line po1 throttle V1, V2 Magnetic valves ٧ Throttle in the main gas line for the slope of the air / gas pressure ratio characteristic (0...1) VDU... Compact gas control loop Vg Volumetric gas flow

Volumetric air flow

VL

Dimensions in mm

AGU...

