

US-L20-X



Gas mixing systems for 2 defined gases, designed for a variety of industrial applications, particularly for all areas with sharply fluctuating mixed gas flow demands.

Capacity range from 0 to approx. 759 NI/min (1608 SCFH).
For the exact pressure and flow capacity ratios, please see the technical data overleaf.

Note:
System only works with sufficient buffer volume (20 to 100 litres / 5.3 to 26.4 gallon depending on gas mixing capacity).

Easy operation

- a proportional mixing valve with a control knob and %-scale provides infinitely variable mixture settings
- gas mixture withdrawal possible from zero to the maximum flow capacity

High process reliability

- independent of pressure fluctuations in the gas supply
- intermittent gas mixture withdrawal possible
- lockable transparent door for protection of settings
- splash-proof and robust steel housing

- constant outlet pressure by integrated pressure regulator
- comfort control of operating conditions by manometers
- connection for analyser
- simple adjustment of operating parameters within technical data

Options

- separate gas analyser for the monitoring/control and documentation of the gas mixture production
- gas mixer mounted on gas mixture buffer tank for a more convenient installation (100 l / 26.4 gal only)
- mixing range 0-5% or 0-10%

Other models, options and accessories available on request.

Please identify the individual gases at the time of enquiring!

GAS MIXERS

www.wittgas.com

Type	US-L20-X
Gases	all technical gases (excluding toxic or corrosive gases) not for flammable gases!
Mixing range	0-25% or 0-100% other ranges available on request
Pressure settings	see table
Inlet pressure differential between the gases	max. 3 bar (44 psi)
Mixture output (air)	see table
Setting accuracy	±1% abs. (scale 0-25%), ±2% abs. (scale 0-100%)
Mixing precision	better than ±1% abs.
Gas connections	
inlets	1/2" NPT F or WITT-Pipe Couplers for pipe OD 15 mm
outlet	1/2" NPT F or WITT-Pipe Couplers for pipe OD 15 mm
to / from receiver	1/2" NPT F or WITT-Pipe Couplers for pipe OD 15 mm
analyser	G 1/8 F
Housing	steel, powder coated, splash proof
Weight	approx. 27 kg (60 lbs.)
Dimensions (HxWxD)	approx. 500 x 400 x 210 mm (19.7 x 15.8 x 8.3 inch) (without connections)
Voltage	230 V AC, 110 V AC or 24 V DC
Power consumption	230 V AC, 0,07 A
Approvals	Company certified according to ISO 9001:2000 and ISO 14001

Flow US-L20-X (in NI/min) in relation to air

min. receiver pressure in barg (max. receiver pressure 0.5 bar higher)

	1.5	2.5	3.5	4.5	5.5	6.5	7.5	
min. inlet pressure in barg (max. 13 bar)	4.0	5.0	6.0	7.0	8.0	9.0	10.0	3.0 4.0 5.0 6.0 7.0 8.0 9.0
	284	370	455	531	617	692	-	operating pressure in barg
	-	303	408	503	598	674	759	
	-	-	313	441	550	635	730	
	-	-	-	351	465	579	692	
	-	-	-	-	360	493	607	
	-	-	-	-	-	365	522	
	-	-	-	-	-	-	389	
	1.0	2.0	3.0	4.0	5.0	6.0	7.0	
	outlet pressure in barg							

Flow US-L20-X (in SCFH) in relation to air

min. receiver pressure in psig (max. receiver pressure 7 psi higher)

	22	36	51	65	80	94	109	
min. inlet pressure in psig (max. 189 psi)	58	73	87	102	116	131	145	44 58 73 87 102 116 131
	602	784	964	1125	1307	1466	-	operating pressure in psig
	-	642	865	1066	1267	1428	1608	
	-	-	663	934	1165	1345	1547	
	-	-	-	744	985	1227	1466	
	-	-	-	-	763	1045	1286	
	-	-	-	-	-	773	1106	
	-	-	-	-	-	-	824	
	15	29	44	58	73	87	102	
	outlet pressure in psig							