



Multi-flow gas generators

Some instruments require more than one gas source. At Parker, we have several generators designed to provide a compact, single source for your multiple gas requirements for LC/MS applications.

We have two mixed gas generators, one providing a dual purity and flow nitrogen designed specifically for Agilent QQQ & Q-TOF 6400 and 6500 instruments. The other providing zero air and nitrogen for the AB Sciex 6500 series



LC/MS 64/65

The Parker LC/MS64/65 dual flow nitrogen gas generators employ robust, field proven technology to meet the drying, sheath, nebulisation and collision gas requirements of the Agilent Technologies QQQ & Q-TOF instrumentation portfolio.

The LC/MS64/65 generators provide two continuous streams of high purity nitrogen from a single 'plug & play' unit. All Models are equipped with an integral oil free compressor, are extremely quiet in operation, and fully approved for use by major instrumentation manufacturers.

Innovative design and technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance, eliminating the need for other modes of supply.

NITROFLOW TG2

The Parker NitroFlow TG2 is a self-contained gas generator that produces up to 80 lpm of pure LC/MS grade gases.

Designed for LC/MS instruments that require a three gas mix, zero air is produced at pressure above 110 psig for Gas1 and Gas2 needs. Nitrogen is produced at pressure above 80 psig for curtain cad gas and exhaust dry air is produced at pressure above 80 psig.

All gases are generated using a combination of a scroll compressor carefully engineered with nitrogen and gas dehydration membranes. The output gases are then purified using a proprietary series of unique purifiers, polishers and getter materials. This combination of Parker technologies yield the highest performing, most reliable and most quiet integrated TriGas generation system available.

LC/MS 64/65 Duel Flow Nitrogen Generator Product Selection

| Model | Flow Rate | | Purity* | | Air Inlet @ 8.5 bar g (123.3 psi g) | Delivery Pressure | | Integral Compressor |
|----------|--|-------------------------|--|-------------------------|---|-------------------|-------|---------------------|
| | Drying, sheath & Nebulisation Nitrogen | Collision cell Nitrogen | Drying, sheath & Nebulisation Nitrogen | Collision cell Nitrogen | | bar g | psi g | |
| | L/min | mL/min | % | % | L/min | | | |
| LCMS64-1 | 18 | 200 | >98 | >99.999 | n/a | 6.8 | 98.6 | Yes |
| LCMS65-1 | 30 | 200 | >98 | >99.999 | n/a | 6.8 | 98.6 | Yes |

*Purity with respect to oxygen

Note: Add suffix 'E' for 207-253V 50/60Hz ie LCMS64-1-E Add suffix 'W' for 103 -126V 60Hz ie LCMS64-1-W

Technical Data

| | |
|--------------------------------------|---|
| Ambient Temperature Range | 5 - 40°C 41 - 104°F |
| Inlet Air Quality * | Clean dry compressed air ISO8573-1:2001 Class 2.-.1 |
| Supply Voltage Range | 103 - 126V 60Hz 207 - 253V 50/60Hz |
| Port Connections Outlet / Inlet | 1/4" Compression Fitting |

*Non compressor models only

Weights and Dimensions

| Model | Height (H) | | Width (W) | | Depth (D) | | Weight | |
|----------|------------|----|-----------|----|-----------|----|--------|-----|
| | mm | in | mm | in | mm | in | kg | lb |
| LCMS64-1 | 705 | 28 | 510 | 20 | 826 | 32 | 143 | 315 |
| LCMS65-1 | 705 | 28 | 510 | 20 | 826 | 32 | 143 | 315 |

Preventative Maintenance

| Preventative Maintenance Kit | Part Number | Change Frequency |
|---------------------------------------|-------------|------------------|
| Filter Kit | 606272251 | 12 Months |
| Compressor Kit 230V - Option 1 models | 606272253 | 12 Months |
| Compressor Kit 120V - Option 1 models | 606272261 | 12 Months |

Optional Extras

| Description | Part Number | Required for |
|------------------|-------------|--|
| Installation kit | IK7572 | Suitable for all LC/MS nitrogen generators |

NitroFlow TG2 Product Selection

| Model | Flow Rate | | | Atmospheric Dewpoint | |
|---------------|----------------------|-----------------------|-----------------|----------------------|-----|
| | Nitrogen Curtain Cad | Zero Air Gas 1, Gas 2 | Exhaust Dry Air | °C | °F |
| | L/min | L/min | L/min | | |
| NitroFlow TG2 | 20 @ 5.5 bar g | 30 @ 7.5 bar g | 30 @ 5.5 bar g | -50 | -58 |

Note: Add suffix 'NA' for 208-230V 60Hz. Add suffix 'WD' for 230V 50Hz

Technical Data

| | |
|--------------------------------------|--|
| Ambient Temperature Range | 10 - 35°C 50 - 95°F |
| Supply Voltage Range | 208-230 VAC, 60 Hz, 1 Phase, 14A (1) (2) 230 VAC, 50 Hz, 1 Phase, 13A (1) (2) |
| Port Connections Outlet / Inlet | 1/4" gas tubing |

Weights and Dimensions

| Model | Height (H) | | Width (W) | | Depth (D) | | Weight | |
|---------------|------------|----|-----------|----|-----------|----|--------|-----|
| | mm | in | mm | in | mm | in | kg | lb |
| NitroFlow TG2 | 109 | 43 | 53 | 21 | 86 | 34 | 185 | 407 |