

Zero Air Generators

for GC combustion detector applications



The Parker domnick hunter UHP-ZA zero air generators produce a continuous stream of organic impurity free air from an external dry compressed air source and offer superior limits of detection over and above other modes of supply. Flow rates range from 1 L/min to 30 L/min.

The UHP-ZA generators feature an interchangeable top panel facilitating the direct mounting of any Parker domnick hunter hydrogen generator. The stackable system forms an innovative, modular FID gas station suitable for all known GC combustion detectors such as FID, FPD and NPD.

UHP-ZA generators may also be used in many other chemical analysis and life science applications, including LC/MS source gas, zero and combustion gas for total hydrocarbon analysers and as a gas sensing calibration and dilution gas.



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Product Features:

- **Ultra high purity, organic free, air for GC combustion detectors**
- **Increase resolution and detection limits of analysis**
- **Compact, reliable with minimal operator attention and maintenance**
- **Eliminate inconvenient and potentially dangerous air cylinders**
- **Payback period typically less than 24 months**
- **Models available to supply up to 75 FID's**

Product Selection

| Model | Flow Rate | Organic Impurity | Air Inlet @ 4 -10 bar g (58-145 psi g) | Delivery Pressure | | Integral Compressor |
|-------------|-----------|------------------|---|-------------------|--------|---------------------|
| | L/min | ppm | L/min | bar g | psi g | |
| UHP-10ZA-S | 1 | <0.1 | 1.2 | 4-10 | 58-145 | NO |
| UHP-35ZA-S | 3.5 | <0.1 | 4.2 | 4-10 | 58-145 | NO |
| UHP-50ZA-S | 5.0 | <0.1 | 6.0 | 4-10 | 58-145 | NO |
| UHP-75ZA-S | 7.5 | <0.1 | 9.0 | 4-10 | 58-145 | NO |
| UHP-150ZA-S | 15 | <0.1 | 18 | 4-10 | 58-145 | NO |
| UHP-200ZA-S | 20 | <0.1 | 24 | 4-10 | 58-145 | NO |
| UHP-300ZA-S | 30 | <0.1 | 35 | 4-10 | 58-145 | NO |

Note: Add suffix 'E' for 207-253V 50/60Hz ie. UHP-10ZA-S-E
Add suffix 'W' for 103 -126V 60Hz ie. UHP-10ZA-S-W

Technical Data

| | |
|---------------------------|--|
| Ambient Temperature Range | 5 - 40°C 41 - 104°F |
| Inlet Air Quality | Clean dry compressed air ISO8573-1:2010 Class 3.2.1 |
| Supply Voltage Range | 103 - 126V 60Hz 207 - 253V 50/60Hz |
| Port Connections | Outlet (UHP-10ZA-S & UHP-35ZA-S) Inlet (UHP-10ZA-S & UHP-35ZA-S) Outlet (UHP-50ZA-S - UHP-300ZA-S) Inlet (UHP-50ZA-S - UHP-300ZA-S) |
| | 1/8" Compression Fitting 1/8" Compression Fitting 1/4" Compression Fitting 1/4" Compression Fitting |

Weights and Dimensions

| Model | Height (H) | | Width (W) | | Depth (D) | | Weight | |
|-------------|------------|------|-----------|------|-----------|------|--------|------|
| | mm | in | mm | in | mm | in | kg | lb |
| UHP-10ZA-S | 325 | 12.8 | 340 | 13.4 | 425 | 16.7 | 10.2 | 22.5 |
| UHP-35ZA-S | 455 | 17.9 | 340 | 13.4 | 425 | 16.7 | 14.2 | 31.3 |
| UHP-50ZA-S | 455 | 17.9 | 340 | 13.4 | 425 | 16.7 | 14.2 | 31.3 |
| UHP-75ZA-S | 455 | 17.9 | 340 | 13.4 | 425 | 16.7 | 14.2 | 31.3 |
| UHP-150ZA-S | 455 | 17.9 | 340 | 13.4 | 425 | 16.7 | 15.2 | 33.5 |
| UHP-200ZA-S | 455 | 17.9 | 340 | 13.4 | 425 | 16.7 | 15.2 | 33.5 |
| UHP-300ZA-S | 455 | 17.9 | 340 | 13.4 | 425 | 16.7 | 15.2 | 33.5 |

Preventative Maintenance

| Preventative Maintenance Kit | Part Number | Change Frequency |
|-----------------------------------|-------------|------------------|
| Inlet Filter PM Kit - all models | 005A0 | 12 Months |
| Outlet Filter PM Kit - all models | 005AA | 12 Months |
| Fan PM Kit, 230V - all models | 606272525 | 24 Months |
| Fan PM Kit, 120V - all models | 606272526 | 24 Months |

Optional Extra's

| Description | Part Number | Required for |
|------------------|-------------|--------------------------------------|
| Installation kit | IK76803 | Suitable for all zero air generators |