

THERMAL DYNAMICS[®]

Signature Series . . .

plasma cutting and gouging products for every application.

Dependable, Versatile

From the lightest gauges to material 1-1/4"/32mm thick, Signature Series has been created on the premise that plasma cutting and gouging products must be dependable, simple to maintain and, above all, simple to operate. Based on the popular "XR" units that have been the standards for industry for a number of years, these rugged power sources come in a variety of torch configurations and input voltages. Whether the application is precision metal cutting or the rough and tumble world of maintenance, the Signature series outperforms the rest



TECHNOLOGY
Signature
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Signature Series .



Signature™ PAK 625 XR

A basic system available in a variety of input voltages. The PAK 625 XR has a maximum capacity of 5/8"/15.9mm with a pierce rating of 3/8"/9.55mm. Output can be set at 20, 35 and 55 amps, and the system uses either the single gas PCH/M51 or dual gas PCH/M52 torch. Both are available in 70°, 90° and machine torch styles. The maximum lead length is 100'/30.48m.

- *Sequence Status Lights*
- *Auto Restart*
- *Single to Three Phase*
- *Variety of Input Voltages*
- *Shielded Systems Available*

Signature™ PAK 750 XR

A versatile unit for slightly heavier applications. The PAK 750 XR has a maximum capacity of 3/4"/19.0mm with a pierce rating of 3/8"/9.5mm. The system uses either the single gas PCH/M51 or dual gas PCH/M52 torch, and output can be set at 30, 35 and 65 amps. Both torches are available in 70°, 90° and machine torch styles. The maximum lead length is 100'/30.48m.

- *Dual Intensity Pilot*
- *Sequence Status Lights*
- *Auto Restart*
- *200/200V, 1 ph or 230/460 V 3 ph Input*
- *Single Cable CNC interface*





Signature™ PAK 1000 XR

A sophisticated cutting system for production and medium plate work. The PAK 1000 XR has a maximum capacity of 1"/25.4mm with a pierce rating of 1/2"/12.7mm. The system's output can be set at 35, 45 and 85 amps. The dual gas PCH/M52 torch is available in 70°, 90° and machine torch styles. The maximum lead length is 100'/30.48m.

- *Gouging Capability*
- *Sequence Status Lights*
- *Auto Restart*
- *200/220 1 ph or 230/460 3 ph input*
- *Multi Mode Pilot*
- *Optional Cylinder Rack*

Dependable, Affordable

Signature™ PAK 1250 XR

The PAK 1250 XR has a maximum capacity of 1-1/4"/32mm with a pierce rating of 5/8"/9.55mm. It is intended for rugged applications where speed and capacity are required. Output can be set at 35, 70 and 105 amps, and it is easily interfaced with a controller. The PCH/M52 is designed for cutting and gouging and is available in 70°, 90° and machine torch styles. The maximum lead length is 100'/30.48m

- *Sequence Status Lights*
- *Auto Restart*
- *Three Phase Operation*
- *Variety of Input Voltages*
- *Optional Cylinder Rack*
- *Operates on Air or Multi-Gas*





SPECIFICATIONS

| | Power Supply | | | |
|-----------------------------|--|---|---|---|
| | PAK 625 XR | PAK 750 XR | PAK 1000 XR | PAK 1250 XR |
| Output Settings (Amps) | 20, 35, 55 | 30, 35, 65 | 35, 45, 80 | 35, 70, 10 |
| Duty Cycle | 60% | 60% | 70% | 80% |
| Panel Controls | ON/OFF RUN/SET Range Pilot HI/LO | ON/OFF RUN/SET Range | ON/OFF RUN/SET Range | ON/OFF RUN/SET Range |
| Panel Indicators | AC Power Temperature Gas Pressure DC Power High Frequency | AC Power Temperature Gas Pressure DC Power High Frequency | AC Power Temperature Gas Pressure DC Power High Frequency | AC Power Temperature Gas Pressure DC Power High Frequency |
| Dimensions w/o running gear | | | | |
| Height | 27/.69 | 27/.69 | 27/.69 | 27/.69 |
| Width | 18/.46 | 18/.46 | 18/.46 | 18/.46 |
| Depth | 16.25/.42 | 22.5/.57 | 22.5/.57 | 22.5/.57 |
| Shipping Weight (lbs/kg) | 200/91 | 220/99 | 280/126 | 285/129 |
| Shipping Size (in/m) | | | | |
| Height | 42/1.1 | 42/1.1 | 45.5/1.2 | 45.5/1.2 |
| Width | 20/0.5 | 20/0.5 | 20/0.5 | 20/0.5 |
| Depth | 20/0.5 | 20/0.5 | 27/0.7 | 27/0.7 |
| Input Power | 200/220V 60 Hz 1ph 42A 200/220V 60 Hz 3ph 45A 460V 60 Hz 3ph 20A 575V 60 Hz 3ph 16A 200/220V 50 Hz 3ph 45A 200V 50 Hz/220V 60 Hz 3ph 45A 380/415V 50 Hz 3ph 24A 380/500V 50 Hz 3ph 24/19A | 200/220V 60 Hz 1ph 49/45A 230/460V 60 Hz 3ph 41/21A | 200/220V 60 Hz 1ph 63/57A 230/460V 60 Hz 3ph 54/27A | 200/220V 60 Hz 3ph 74/68A 460V 60 Hz 3ph 33A 200/220V 50 Hz 3ph 74/68A 200V 50 Hz 220V 60 Hz 3ph 74/68A 380/415V 50 Hz 3ph 40/37A 575V 60 Hz 3ph 26A |

| | TORCH | |
|------------------------|---------|--|
| | PCH/M51 | PCH/M52 |
| Gas | | |
| Plasma | Air | Air, N ₂ , ArH ₂ |
| Secondary | N/A | Air, N ₂ , CO ₂ |
| Gas Pressure (PSI/BAR) | | |
| Plasma | 50/3.45 | 40/2.76 |
| Secondary | N/A | 75/5.17 |
| Gas Flow (SCFH/LPM) | | |
| Plasma | 240/113 | 22/10.4 to 43/20.3 |
| Secondary | N/A | 470/221 |

| | TORCH | |
|--------------------|--|--|
| | PCH/M51 | PCH/M52 |
| Pilot Control | Electrode to Tip | Electrode to Tip |
| Hand Machine | Torch Mounted Switch Remote Pendant or CNC Cable | Torch Mounted Switch Remote Pendant or CNC Cable |
| Configuration | 70° hand/90° hand 180° machine | 70° hand/90° hand |
| Lead Length (ft/m) | 12.5/3.81, 25/7.62, 50/15.24 | 25/7.62, 50/15.24 |