

MARKETING INFORMATION BULLETIN # 101

March 2006 - POU Product Line

Improved Power Supply Controller

“PSCe”



POU Evolution

PSCe Introduction

The PSCe is the result of years of accumulated customer feedback, testing and development. Noah Precision, LLC is proud to announce the introduction and availability of the PSCe, which is scheduled for market introduction this year.

The PSCe is an interchangeable alternative to the current model PSC4400 and PSC8800. Its design incorporates state-of-the-art technology into a single “universal” PSC. The PSCe is designed to be transparent to the POU3300 & POU3500 modules and to all Etch tool types and applications.

The PSC4400 & PSC8800 models will be discontinued this year. However, they will continue to be fully supported for the next 5 years.

In comparison to the existing PSC4400 & PSC8800 models, the PSCe will offer:

- **100% backwards compatibility with the POU3300 & POU3500**
- **Improved reliability**
- **Smaller and lighter than the current models**
- **New look with same operator interface**
- **Universal design**
- **Added new communication protocols**
- **Increased efficiency**

The table below provides feature / benefit details of the PSCe:

Features	Benefits
Backward compatibility	The PSCe is a pin-to-pin compatible and interchangeable alternative to the current model PSC4400 and PSC8800. It is designed for “Plug and Play”.
Improved reliability	The PSCe incorporates multiple design improvements and state-of-the-art components, which improve reliability and reduce faulty alarms.
Height and weight	The PSCe height is 2/3 of the PSC and weighs 30% less. This reduces space, lowers shipping costs and simplifies installation.
Universal design	The new front panel design is modern and has a more distinctive look and feel. The part count for the PSCe has been reduced significantly, which improves reliability and manufacturability. A single common PSCe reduces spares inventory and simplifies logistics.
Optical Communication	Communication between the tool and the chiller is with a microcontroller over an optical bus. Isolating the communication eliminates noise prone analog signals and faulty alarms to the PSCe.
Energy efficient	The PSCe is significantly more energy efficient than the PSC making it a more economical choice. The power devices in the PSCe run cooler, which increases system reliability.

Product Specification – Comparison

	PSCe	PSC 4400	PSC 8800
Part number	900-PSCe-V3.37	900-4400-V3.37	900-8800-V3.37
Price	\$11,750	\$10,250	\$12,000
Stack height	2U 3.5" (88.90mm)	3U 5.25" (133.35mm)	3U 5.25" (133.35mm)
Weight	35 lbs (15.88 kg)	48 lbs (21.77 kg)	60 lbs (27.22 kg)
AC Requirements	3PH, 190-250VAC 15-30A	3PH, 190-250VAC 15A	3PH, 190-250VAC 30A
DC output (TEC)	0 to 200VDC	0 to 200VDC	0 to 200VDC
3300 (i_{max})	15 amps	15 amps	15 amps
3500 (i_{max})	30 amps	n/a	30 amps
DC output (pump)	48VDC	48VDC	48VDC

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POU 3300



POU 3500