Synthesis™ Multipump systems are available as stand-alone components or turn-key packages. Various packaging options are available. Custom integration can be provided to meet any requirements.

**Multiple Pumps**
Multipump systems can operate up to eight pumps as well as a jockey or priming pump. One pump is a variable-speed master while the remaining auxiliary pumps operate at a fixed speed.

**Variable-Speed Drive**
The master pump is controlled by a flux vector AC drive from UNICO’s 1100 family. Drives are available from 1½ to 500 hp and are UL and C-UL listed. Input power can be 230 or 460 V AC single- or three-phase or 575 V AC three-phase.

**Starters**
Auxiliary pumps are controlled using motor starters or soft starters. Starters can be customer-supplied or provided with the packaged system.

**Bypass Control**
Manual bypass control is available with packaged systems.

**Power Conditioning**
A variety of options is available for conditioning the incoming line, including AC line reactors, isolation transformers, twelve-pulse transformers, and harmonic filters.

**Environmental Options**
Systems can be packaged in NEMA 1, 4, 3R, or 12 enclosures for indoor or outdoor use. Customization is available for special environmental requirements.

**Services**
Comprehensive start-up assistance, service, and training are available.
Electrical Connections

Typical Three-Pump System

Three-Phase AC Line Input

Circuit Breaker

Line Reactor or Transformer (optional)

AC Motor

Pump 1

Pump 2 Motor Starter

Pump 3 Motor Starter

Pump 1

Pump 2

Pump 3

External No Fault

Flow Switches

Pressure Feedback

Suction Feedback (optional)

Serial Communication

Supervisory System

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Unico is a leading global innovator of motion-control solutions for industry. Founded in 1967, the company develops, manufactures, and services variable-speed drives, application-engineered drive products, integrated drive systems, and ancillary products that improve operations by increasing productivity, safety, and equipment life while lowering energy and maintenance costs.