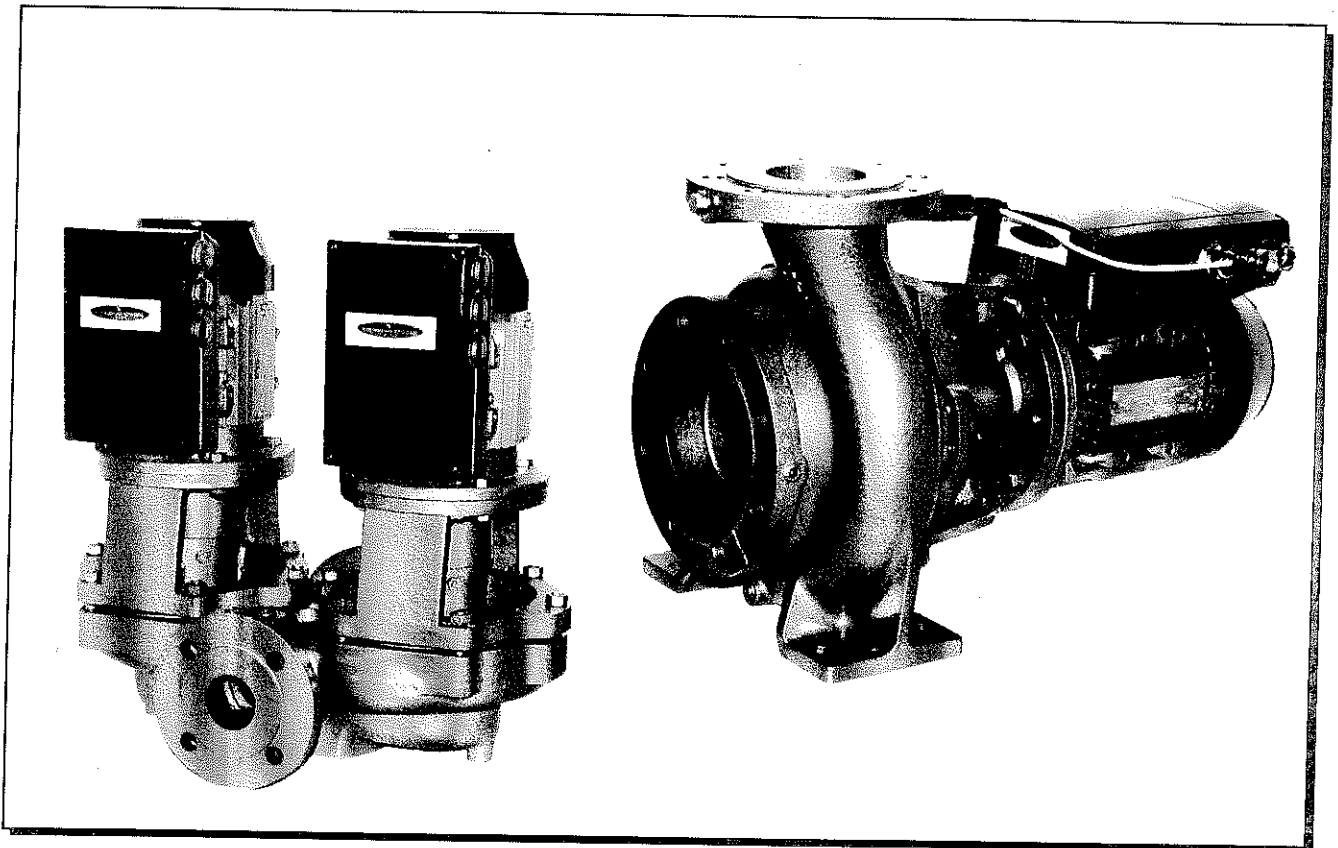




*A wealth of experience*

# IVS Series Intelligent Variable Speed Pumps



- Easy Installation
- Latest Micro Technology
- B.M.S. Capability – Profibus Protocol
- Intelligent Systems Control (Pressure, Flow, Temperature)
- Energy Efficient

**Holden and Brooke – Leading the Way**



Certificate No. 930846

To complement Holden and Brooke's range of fixed speed end-suction and in-line centrifugal pumps, we now offer our IVS Series range of intelligent variable speed pumps.

Whilst still encompassing the benefits of remote mounted inverters including reductions in running costs, system components and pressure surges, the utilisation of the latest micro technology provides even greater cost savings and advantages over fixed speed pumps.

#### Benefits of the IVS Series Intelligent Product:

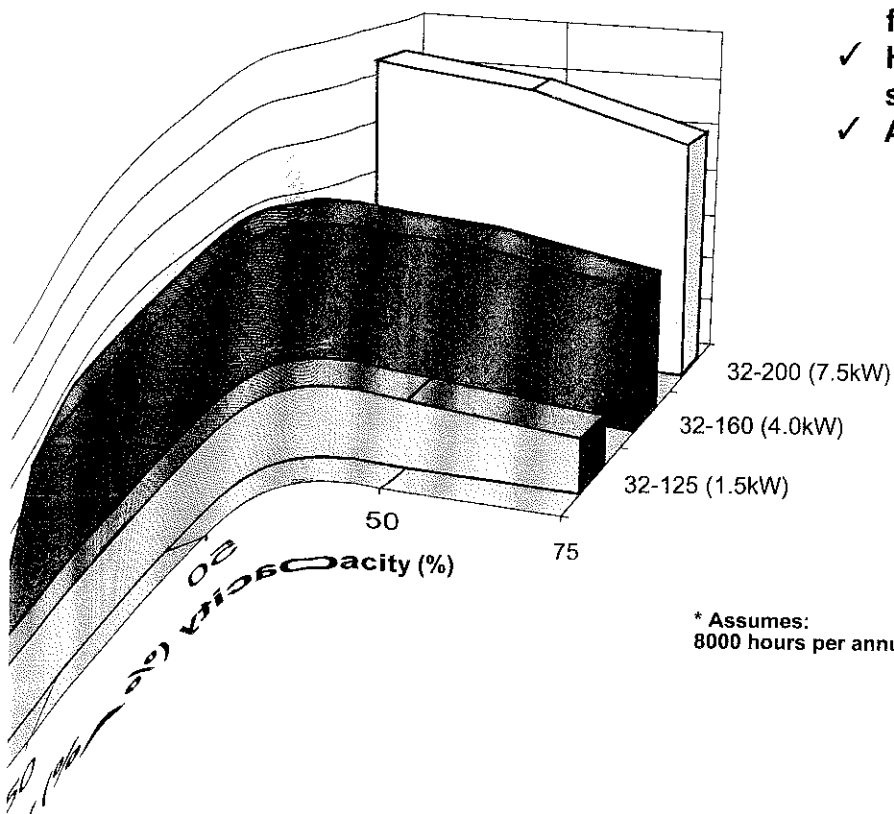
- Integrated solution from a single supplier
- Larger energy savings – motor and inverter are perfectly matched
- No large control panel – only a simple motor starter is required
- Easier and quicker installation – drive pre-configured
- Straight forward EMC compliance – no motor cable

#### IVS Series - Standard Product Features:

- Closed loop PID regulator with 4-20mA input for constant pressure, temperature or flow control
- Analogue or digital output for remote monitoring of status, frequency, pressure etc
- Multiple set-ups for different operating modes
- Internal or external system set-point selection
- Bypass frequency selection to eliminate system resonance problems
- Built in RFI filter
- Motor pre-heat function to prevent condensation problems
- Digital input for low water device
- Motor size envelope is no larger than a standard motor
- Retrofitable to existing Holden and Brooke pumps
- RS485 serial communications for connection to a P.C up to 1.2km without modem

## Energy Savings

Typical Pumps

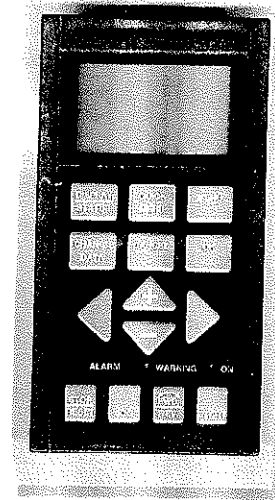


- ✓ Motor designed to compensate for energy losses in the inverter
- ✓ Higher efficiency for larger savings
- ✓ Average paypack is 1-2 years

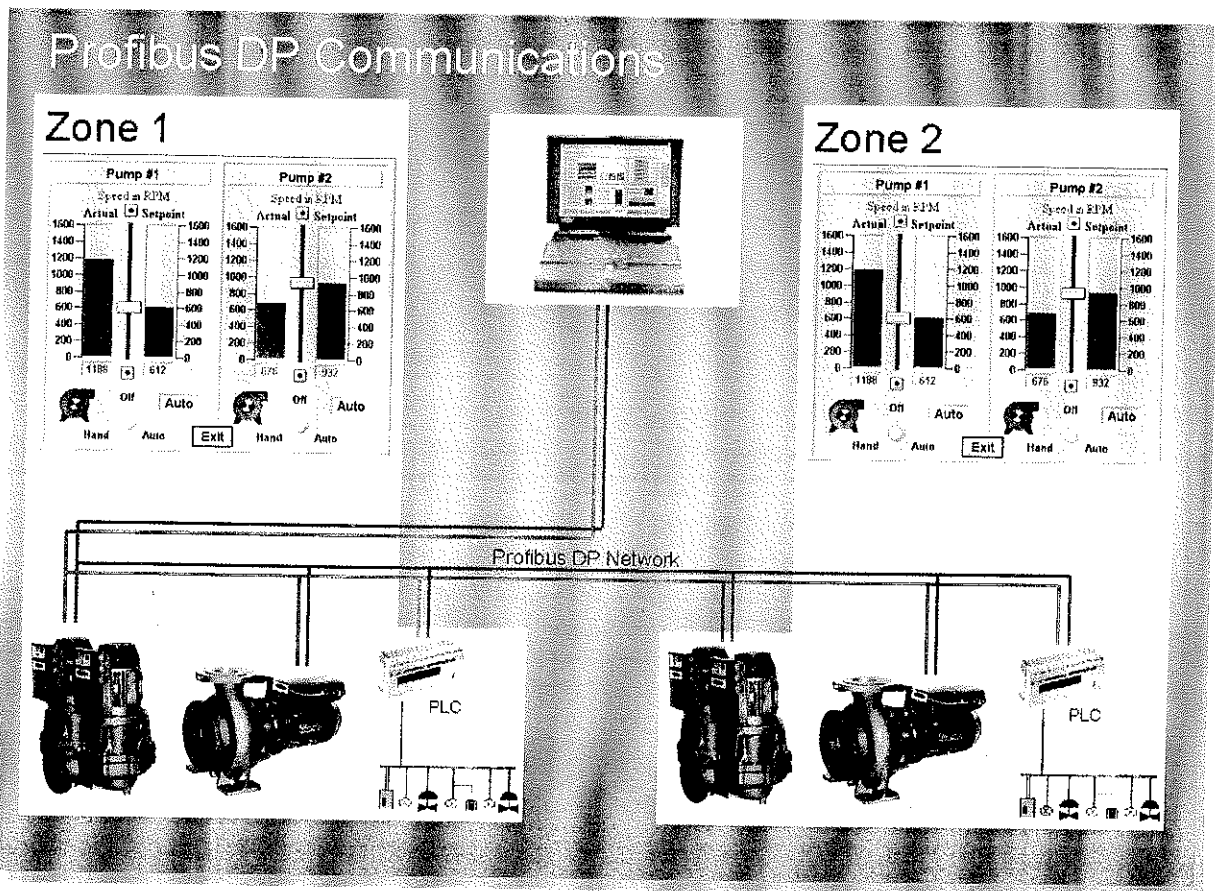
\* Assumes:  
8000 hours per annum at 4.5p/kWh

**Options:**

- Potentiometer for simple open loop control
- Keypad for programming and monitoring
- Single pressure transmitter for boosting applications requiring constant pressure control
- Differential pressure control option for circulating systems
- IP66 enclosure
- Computer software tools for programming and monitoring
- PROFIBUS DP industrial network protocol – high speed, multi-vendor connectivity for building management systems and industrial fieldbus networks.



**Optional Programming Keypad**



**Simple Point-to-Point Connectivity with the Leading Industrial Communications System in Europe – Profibus DP**



*A wealth of experience*

**Technical Information:**

Range (kW)	0.55	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5
Supply Voltage	1/3 phase 200-240V or 3 phase 380-480V					3 phase 380-480V			
Supply Frequency	50/60Hz								
Enclosure Class	IP55 (IP66 Optional)								
Vibration Test	1g								
Ambient Temp	0-40°C								
Max Relative Humidity	95%								
Control Voltage - Digital	0-24V DC								
Control Voltage - Analogue	0-10V DC								
Protection	In-built motor protection for short circuit, over-temperature and over-current								
EMC	Compliant to the following generic standards stated in the EMC directive (89/336/EEC): EN50081-1, EN50082-1, EN50081-2, EN50082-2								

Certified drawings supplied on request

Note: Improvements in general design and modifications in detail will be embodied for the benefit of clients as and when introduced, consequently this specification is subject to alteration, as may be necessary, without notice.

**Manufacturers of :** ● Centrifugal Pumps ● Pressurisation Units ● Packaged Pump Sets ● High Pressure Pumps  
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