





AC Variable Speed Drive

PUMP CONTROL

Energy efficient pumping with **OPTIFL W**





AC Variable Speed Drive

5.5kW - 45kW / 7.5HP - 60HP **380 - 480V** 3 Phase Input







Pump systems are often sized to be most efficient at an application's maximum flow rate.

In systems with peak rather than continuous demand, Optidrive HVAC Eco matches pump output to the demands of pump systems. This variable speed control offers significant savings by maximising system efficiency at all flow rates.

Traditional means of controlling pump output involve dissipating or diverting the output already generated by the pump running at full speed. In comparison, Optidrive HVAC Eco saves energy by generating only the required output.

Invertek's philosophy to provide innovative products with easy to use, energy efficient features ensures that time, set up costs and

operational (energy) savings are maximised at all times. This results in the shortest possible payback period, namely the time taken to recover the initial product and installation costs through financial savings achieved through installing Optidrive HVAC Eco drives.

For simple installation into your pump management system all Optidrive HVAC Eco drives are provided with both BACnet and Modbus RTU as standard across the product range.

Save Energy

Energy optimisation function minimises energy usage in real time under partial load conditions

Advanced sleep & wake functions provide maximum energy savings by switching off the pump when not required

Automatic Pump Cleaning ensures maximum operating efficiency at all times

Save Money

OPTIFL "" technology allows simple operation of multiple pump sets without the need for a PLC

Pump blockage detection and cleaning dramatically reduces pump maintenance requirements

Built in PLC function allows bespoke customised applications to be programmed directly in the drive

Save Time

Simple parameter set allows fast commissioning of pump control systems

Pump operating curve detection

automatically detects and monitors normal pump behaviour and is able to react when pumping conditions change

Customisable OLED display provides excellent visibility of drive status and operation in all conditions

Key Features

Low Harmonic Technology

- Reduces Supply Total Harmonic Current Distortion (iTHD)
- Reduces total Supply Current
- Reduces cable and busbar rating requirements
- Reduces fuse sizes
- Reduces required supply transformer load or rating

Built In EMC Filters

• Compliance with global EMC Standards

Advanced Motor Control

- Operation with:
 Standard Induction Motors
 Permanent Magnet AC Motors
 Brushless DC Motors
- Constant or Variable Torque selectable

Synchronous Reluctance Motors

• Maximum motor efficiency

Quiet Operation

- Temperature controlled cooling fans operate only when required
- PWM switching technique reduces motor audible noise

Optimising Efficiency

Energy Optimisation

The advanced optimisation function intelligently matches energy usage to the pump load to ensure your pump operates at maximum efficiency.

Energy Monitoring

The inbuilt energy consumption meters allow energy consumption to be clearly displayed and savings to be calculated.

Resonance Avoidance

Optidrive HVAC Eco can be easily configured to avoid frequencies that cause resonance in pumping systems, preventing unnecessary noise and mechanical damage to motors and pipework.

In-built Sleep Mode with Auto-boost

Sleep mode saves energy by detecting when a pump is running inefficiently and producing little useful work. Optidrive HVAC Eco can be programmed to enter into a sleep/disabled mode until the demand increases. To help prevent sleep mode oscillation, Optidrive HVAC Eco can automatically initiate a boost cycle to increase pressure on starting or stopping.

Internal EMC Filter

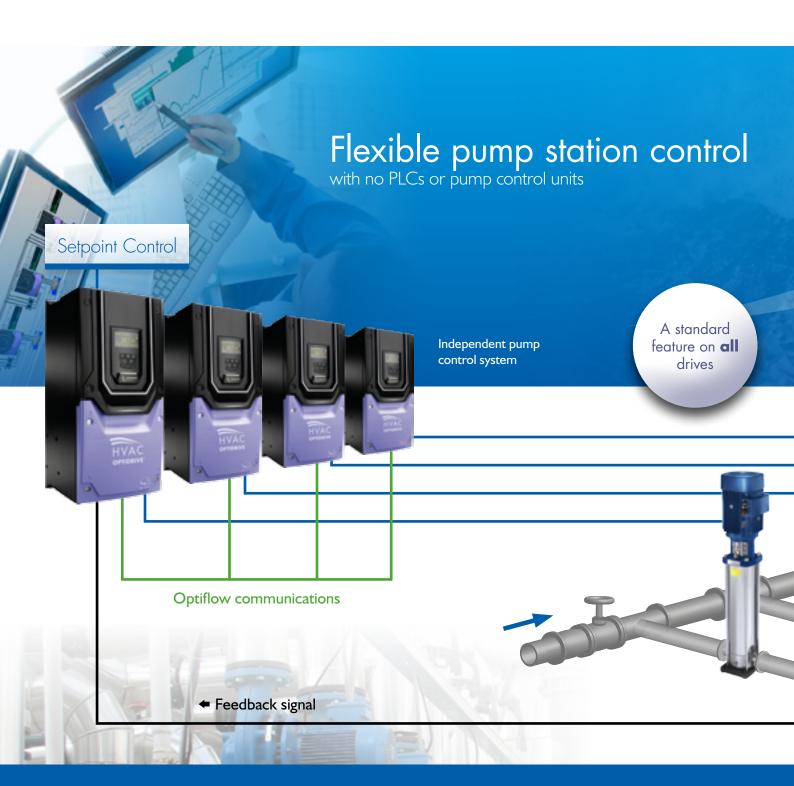




IP55 / NEMA 12



Embedded control technology for multi-pump systems



Total Control

A single 'Master' drive acts to control and monitor system operation. Control connections are made to this drive only, saving installation time and reducing costs.

Simple Connection

Additional drives connected on the system require a single RJ45 connection and basic commissioning, leading to time savings and simplified installation.

Flexible Solution

The system can operate with up to five pumps in any configuration, e.g. Duty / Assist / Standby. Duty pumps are automatically rotated, ensuring maximum service life and system efficiency.



Energy efficient pumping with **OPTIFL** ○**W**[™]



Summary

- All drives operate at variable speed for maximum energy efficiency.
- Operating time (Hours Run) is automatically balanced and duty pumps rotated
- Automatic system reconfiguration in the event of a pump fault (including the master pump).
- Continued system operation when drives are individually powered off (including the master drive).
- Communication and +24V control voltage shared between drives via a standard RJ45 patch lead.
- Independent maintenance indicators for each pump.
- Any pump can be switched to Hand operation a the touch of a button, and will automatically rejoin the network when switched back to Auto.
- For waste water applications each pump can be set for blockage/ragging detection and activate an automatic de-ragging/pump cleaning cycle.
- Optional mains isolator with lock-off for safe pump maintenance.
- Optiflow function configured through simple parameter set-up and intelligent drive self configuration.

Consistent Flow

The required pressure and flow levels are maintained regardless of how many pumps are required. When demand increases, additional pumps are automatically brought on stream to assist and are switched off again when not required.

Reduced Downtime

In the event of a fault, or if a pump needs to be isolated for maintenance, the system will automatically continue to operate with the remaining available pumps. The mains power can even be completely isolated from the Master drive without affecting operation of the Slave drives.

Drive Features

A compact and robust range of drives dedicated to pump control





Maintenance interval timer and service indication



Multi-language, high visibility OLED display

OLED Display

Installed as standard on all IP55 & IP66 models

- Clear multi-line text display
- Operates –10 to 50°C
- Wide viewing angle, effective in dark and light conditions
- Customisable display
- Multi-language selection



Simple user interface with HAND / AUTO select



Pluggable control terminals



High quality long-life fans



Integrated cable management

Enclosure Options



Size 3 Wall or cabinet mount Sizes 4 & 5 Wall or cabinet mount

Optional kit is available for through-hole mounting

IP66: Protection in Harsh Environments

Dust-tight

Install in-situ and be sure of protection from dust and contaminants.

IP66 Inbuilt isolator option available

Washdown Ready

With a sealed ABS enclosure and corrosion resistant heatsink, IP66 rated drives are ideal for high pressure washdown applications.

Corrosion Protection

The heat-sink of the IP66 drive is specially coated to protect against attack / corrosion by harsh environments and chemicals. For additional protection in water and waste water applications all HVAC drives can be ordered with full conformal coating of the internal drive electronics. The conformal coating option provides protection to level 3C2 according to IEC60721-3-3. Localised conformal coating of critical components is provided as standard.



Energy efficient pumping with **OPTIFL** W



Reduced Harmonic Current Distortion

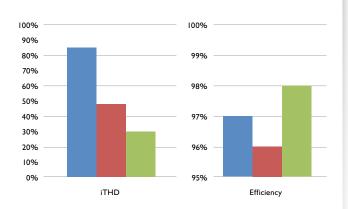
Optidrive HVAC Eco is a dedicated 'low harmonics' drive that uses the latest technology to minimise disruption (harmonics) of the incoming mains power supply which can be created by non-linear loads, such as AC drives. The third generation HVAC drive can reduce harmonic current distortion to below 30% iTHD (Total Harmonic Distortion), whilst also increasing efficiency by reducing the input current levels – leading to reduced life time costs.

Optidrive HVAC Eco delivers...

- Lower mains supply current reduced cable size, reduced fuse size, reduced transformer size
- Improved power factor no additional charges from the electricity supply company due to low power factor
- Improved efficiency Reduced Life Time Costs. E.g. 37kW, operating 10 hours per day, 5 days per week, 50 weeks per years - Power Consumption is 92500kWh - 1.1% reduction is > 100kWh saving

EN61000-3-12 compliant

Typical Total Harmonic Current Distortion (iTHD) and efficiency comparison for Optidrive HVAC Eco vs other AC variable speed drives





Options & Accessories

Peripherals to help integrate Optidrive HVAC Eco with your pumping systems





Energy efficient pumping with **OPTIFL** W







Powerful PC Software

Drive commissioning and parameter backup

- Real-time parameter editing
- Drive network communication
- Parameter upload, download and storage
- Simple PLC function programming
- Real-time scope function and data logging
- Real-time data monitoring

Compatible with Windows XP, Windows Vista & Windows 7

Fieldbus Interfaces



BacNet IP OPT-2-BNTIP-IN



Profibus DP OPT-2-PROFB-IN



DeviceNet OPT-2-DEVNT-IN



Ethernet IP



Modbus TCP OPT-2-MODIP-IN

Modbus TCP

Profinet OPT-2-PFNET-IN



EtherCat



Plug-in Options



Extended I/O

OPT-2-EXTIO-IN

- Additional 3 Digital Inputs
- Additional Relay Output

Cascade Control OPT-2-CASCD-IN

Additional 3 Relay Outputs

Mains Isolator



Mains Isolator Option

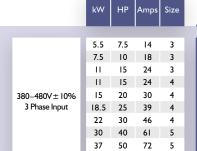
Frame Size 3 can be factory ordered with a built in lockable isolator. An optional bolt on isolator is available for Frame Sizes 4 & 5

Product Codes:

Frame Size 4 = OPT-2-ISOL4-IN Frame Size 5 = OPT-2-ISOL5-IN

BACnet & Modbus RTU on board as standard





45 60 90 5



		_					
ODV - 3 - 3 4 0140 - 3	F I #-#	#	F	1	2	X D	ST
ODV - 3 - 3 4 0180 - 3	F I #-#	#	F		2	X D	ST
ODV - 3 - 3 4 0240 - 3	F I 2 - S	#	F	ı	2		s
ODV - 3 - 4 4 0240 - 3	FIN-T	#	F	1	N		T
ODV - 3 - 4 4 0300 - 3	FIN-T	#	F	ı	N		T
ODV - 3 - 4 4 0390 - 3	FIN-T	#	F	1	N		T
ODV - 3 - 4 4 0460 - 3	FIN-T	#	F	ı	N		T
ODV - 3 - 5 4 0610 - 3	FIN-T	#	F		N		Т
ODV - 3 - 5 4 0720 - 3	FIN-T	#	F	ı	N		T
ODV - 3 - 5 4 0900 - 3	FIN-T	#	F		N		T

Replace # in model code with colour-coded option IP20 units are available with 7 Segment LED Display only All other models are available with OLED Text Display only



Energy Savings Calculator

Estimate your potential energy savings, CO₂ emissions and financial savings



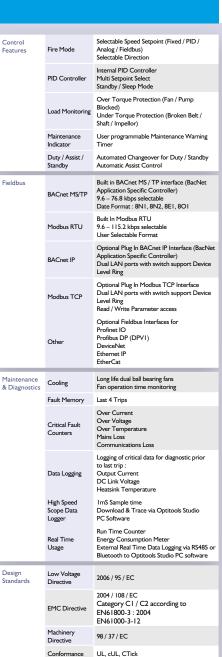




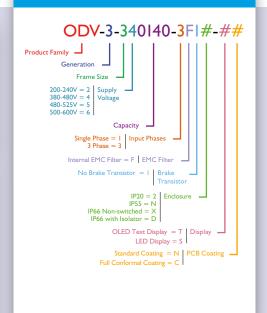


Drive Specification

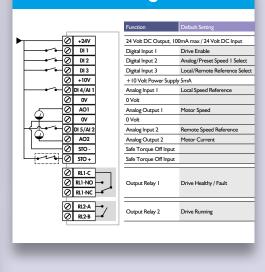
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Supply Frequency A8 - 62Hz Frequency Propagament Power Factor 20 98 Propagament Power Factor 210 per hour maximum, evenly spaced Inrush Current 210 per hour maximum, evenly spaced 20 per hour maximum 20 per hour maximum 20 per hour power	Input Ratings	Supply Voltage	380 – 480	V ± 10%	ľ
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Model Code Guide



Connection Diagram





Ingress Protection

IP20, IP55, IP66









	Size
mm	Height
mm	Width
mm	Depth
kg	Weight

IP20
3
261
131
205
3.5

IP66
3
310
211
266
7.3

IP55	
4	
440	
171	
252	
11.5	





+44 (0)1938 556868

Optidrive HVAC Eco

✓ Saving Energy / Reducing CO,

With large scale increases in global energy costs and the introduction of taxes and legislation relating to the industrial production of CO₂ gases the need to reduce energy consumption and save money has never been greater. Optidrive HVAC Eco can be used with environmental sensors to reduce pump speed in pumping applications without compromising the required output of the system.

✓ Easy Installation

Compact and modern design utilising the latest available technology have accumulated in a robust HVAC drive with small dimensions and innovative mounting and cabling features.

✓ Simple Set-up & Rapid Commissioning

Optidrive HVAC Eco was developed from concept for ease of use. A handful of parameters configure the drive for basic pump applications. A short, concise product data means the drive is running in seconds. Advanced powerful functionality is equally easily accessible.

✓ Imaginative Enclosure Design

With enclosure design from IP20 all the way up to IP66, Optidrive HVAC Eco is well suited to harsh environments, or where cabinet and cabling costs need to be reduced.

✓ Advanced Pump Control Functions

The key pump control functionality required for your application is inbuilt into Optidrive HVAC Eco and packaged to be both quick and simple to activate. Added to this is the drive's own PLC programming flexibility that makes drive functionality virtually limitless.

Options for Flexibility

Optidrive HVAC Eco combines both peripheral and factory built options to ensure you get the right drive, scaled to suit your application. With inbuilt BACnet and Modbus, and a host of communication options the Optidrive can integrate easily into your industrial network of choice.



Invertek Drives Ltd is dedicated to the design, manufacture and marketing houses specialist facilities for research & development, manufacturing and global marketing. The company pledges to implement and operate the ISO 14001 Environmental Management System to enhance environmental performance.

All company operations are accredited to the exacting customer focused innovative drives are designed for ease of use and meet with recognised international design standards.

Global Pump Solutions

Invertek Drives operate at the heart of pumping systems around the world



IRELAND Maintaining pressure at pumping stations



HOLLAND Hot water pumping across district network



Cooling system control



IRELAND Storm water pumping

www.invertekdrives.com/pump-control

















