



eco OPTIDRIVE™

AC Variable Speed Drive

HVAC BUILDING SERVICES

Energy efficient fan & pump control



 **BACnet®**
MS/TP
built-in as standard

**Low Harmonic
Design**

EN 61000-3-12
Compliant

0.75kW – 250kW / 1HP – 350HP
200 – 600V Single & 3 Phase Input





AC Variable Speed Drive

0.75 – 250kW / 1 – 350HP
200 – 600V Single & 3 Phase Input



Fire Mode



Internal
EMC Filter



Energy Efficient Fan & Pump Control

- AC Induction (IM) Motors
- AC Permanent Magnet (PM) Motors
- Brushless DC (BLDC) Motors
- Synchronous Reluctance (SynRM) Motors

Take Control of Your Environment

Modern building ventilation and air conditioning systems are designed to provide optimum climatic conditions for occupants throughout the whole year. As such, they must be designed to operate equally well during the hottest part of the day, with maximum sunlight, through to the colder night time and winter periods. Building designers must take account of these extremes and select components and systems capable of providing the required level of occupant comfort under all conditions. This results in systems operating the majority of the time at less than maximum capacity, which can mean reduced efficiency and wasted energy.

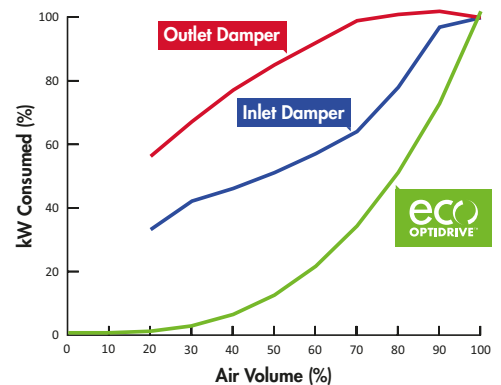
Optidrive Eco HVAC provides a perfect solution to the needs of designers looking to optimise the

performance of fans and pumps used in HVAC applications, allowing them to operate with maximum efficiency under all conditions. Invertek Drives' philosophy to provide innovative products with easy to use, energy efficient features ensures that time, cost and energy savings are maximised at all times, resulting in the shortest possible payback period – the time taken to recover the initial product and installation costs through financial savings achieved through installing Optidrive Eco HVAC drives.

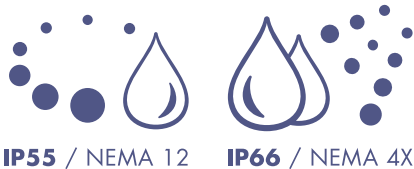
For simple installation into your buildings management system all Optidrive Eco HVAC drives are provided with both BACnet and Modbus RTU as standard across the product range.

Instant Power Savings

The graph below shows a comparison between the efficiency of various methods which can be used to control the airflow produced by a fan.



From the data, it can be clearly seen that using methods such as dampers to restrict the airflow is much less efficient than controlling the speed of the fan using an Optidrive Eco HVAC.



Energy Savings Calculator

Estimate your potential energy savings, CO₂ emissions and financial savings
www.invertekdrives.com/calculator





Save Energy, Cut CO₂



Save Energy

Accurate speed control of fans and pumps provides the most energy efficient control method

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

Sleep & wake functions ensure operation only when required

Save Money

Advanced on-board features remove the need for peripheral equipment

Intelligent maintenance interval timing allows programmable maintenance reminders, avoiding costly downtime

Automatic load monitoring provides an early warning of potential faults, such as belt failures or blocked filters

Save Time

Built in keypad and OLED text display provides intuitive operation

Simple parameter structure with carefully selected default values reduce commissioning time

Practical design allows easy access to power and control terminals without specialist tools

Key Features



ECO Vector Motor Control



Standard Induction Motors



Permanent Magnet AC Motors

Brushless DC Motors

Synchronous Reluctance Motors

Energy Optimised Design



Internal EMC Filter



Low Noise Operation



Improved Fan Efficiency

Unique Eco Vector Sensorless Control

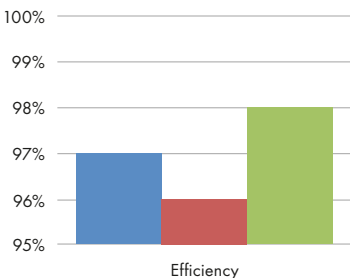
Optidrive Eco HVAC uses advanced motor control, designed to provide the most energy efficient motor control possible. Operation with standard IM Motors, Permanent Magnet or Synchronous Reluctance motors is possible, all without requiring any feedback device or optional modules – simply change parameters to suit the connected motor, autotune and operate!

Eco Vector continuously adjusts in real time to provide the most efficient operating conditions for the load, typically reducing energy consumption by 2 – 3% compared to standard AC drives – providing similar long term costs savings to selecting a higher efficiency motor.

Energy Optimised Design

Optidrive Eco HVAC up to frame size 5 are designed with film capacitors, replacing the traditional electrolytic capacitors used in the DC link. Film capacitors have lower losses, and also remove the need for AC, DC or swinging chokes, improving overall drive efficiency. Efficiency is improved by up to 4% compared to standard AC drives, whilst also reducing supply current total harmonic distortion (iTHD), improving the Real Power Factor and reducing total input current, leading to cost savings on installation through reduced cable and fuse ratings and smaller supply transformer rating.

Improved Efficiency, Reduced Lifetime Costs: e.g. for a 37kW load, operating 10 hours per day, 5 days per week, 50 weeks per year, improving the efficiency by just 1% will provide an energy saving > 900kWh per year.



Typical efficiency comparison for Optidrive Eco HVAC vs other AC variable speed drives

Standard AC Variable Speed Drive
AC Variable Speed Drive + 4% Line Choke
Optidrive Eco HVAC

Dedicated to HVAC Applications

Take control of your environment



Building Comfort

Energy Efficient Air Handling

Creating comfortable building environments without high energy costs

Where do the energy savings come from?

Air conditioning can use a significant amount of energy. In some cases it could even double energy consumption, not to mention the resultant increase in a company's carbon footprint.

Don't produce more airflow than you need!

Typically the air conditioning systems in buildings are designed for maximum occupancy and peak outside ambient. This means that for the majority of time there is large scope for running the systems at reduced speed and significant money to be saved with variable speed drives.

Optidrive Eco HVAC can vary the output of your air conditioning system to meet the varying demands throughout the day.

Variable Speed Control for Pumps

Optidrive Eco HVAC provides the ideal pump control solution for chiller, circulation and cooling pumps.



Energy efficient control for HVAC systems

Airports
Hotels
Conference Centres
Shopping Centres
Hospitals
Kitchens
Schools
Offices
Laboratories



Building Safety Systems

Stairwell Pressurisation

Stairwell (escape route) pressurisation systems are being extensively employed in large buildings and complexes to help ensure the safe evacuation of occupants during a fire. Variable speed drives are playing an increasing role in maintaining pressures (of approximately 50 Pa) within these critical areas. Here Optidrive Eco HVAC is used to provide a smoke free escape by accurately maintaining the air pressure along that route.

Pressures must be maintained at a high enough level that a door opened between the fire floor and the escape route does not result in smoke entering the escape route. Equally, as doors and vents are opened along the escape route allowing air to escape the Optidrive and stairwell pressurisation system must increase output so that the required pressure is accurately maintained.

Fume Extraction

Many buildings now incorporate dedicated smoke management and extraction systems designed to safely extract smoke in the event of a fire, these systems are designed to localise and extract smoke such that the rest of the building remains smoke free and can be evacuated safely. Here the Optidrive's Fire Mode function is critical in maintaining continued operation of the smoke extraction system for the longest permissible period.

For applications such as underground car parks the fans providing fresh air intake are often reversed in the event of a fire to provide smoke extraction. Optidrive Eco HVAC is easily configured for bi-directional fire mode operation.

Fire Override



Fire override mode ignores signals and alarms, keeping the Optidrive Eco HVAC operating for as long as possible.

- This feature is crucial for ensuring smoke extraction from buildings in the event of a fire.
- Selectable logic means that the Optidrive Eco HVAC can be easily configured to the signal produced by your fire management system.
- With an independently set speed for fire mode operation, selectable as either forward or reverse direction, the Optidrive Eco HVAC has the flexibility to match the needs of your fire control system.
- Fire mode operation is indicated clearly on the drive display during periods of fire mode operation.
- Drive output logic can easily be configurable for indicating to external drives that fire mode is active.
- Internal clocks and timers monitoring operation in fire mode, giving clear information on usage.

Drive Features

A compact and robust range of drives dedicated to HVAC



Internal EMC Filter

Compliant with global EMC Standards



Maintenance interval timer and service indication



Multi Language OLED Display



Hand / Auto Keypad



Pluggable terminals



Long Life, Dual Ball Bearing Fans



Integrated cable management



IP66 with optional mains disconnect



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

Belt Break Detection



Optidrive Eco HVAC can provide immediate warning of broken belt between motor and fan. Due to its simple and flexible configuration the feature can also be used for any loss of load condition, such as broken coupling or other mechanical failure.

Optidrive Eco HVAC monitors the load output profile throughout the speed range and compares it to normal operating conditions (established during commissioning). Sensitivity adjustment means that it is possible to detect the indications of a belt failure (such as belt slipping) prior to complete failure of the belt.

Drive Controlled Bypass

Optidrive Eco HVAC can operate as a bypass controller when installed as part of a bypass circuit. Activation of Bypass mode can be determined intelligently by the Optidrive Eco HVAC drive based on a command from the building management system. Additionally the drive can be set to automatically select bypass mode when entering into a trip condition ensuring minimal disruption to service.



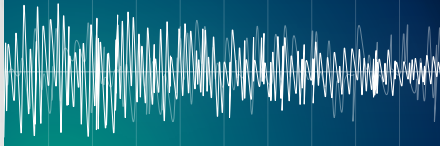
Energy efficient control for HVAC systems

Hand / Auto

Allows manual control to easily be selected in the event of an automatic control system failure or for simplified commissioning / system checks, or when a fast temporary override of the control system is required. Built-in 'Auto Control Selection' allows return to automatic system control just as easily.



Noise Reduction



Quiet Motor Operation

High switching frequency selection (up to 32kHz) ensures motor noise is minimised.

Quiet System Mechanics

Simple skip frequency selection avoids stresses and noise caused by mechanical resonance in ducting or pipework.

Quiet Drive Operation

Long Life Dual Ball Bearing Fans provide quiet operation in addition to extended fan life.

Noise Reduction through Speed Control

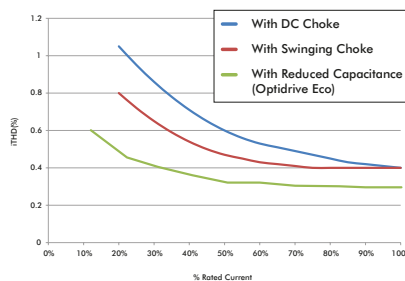
Optimising motor speed gives significant energy savings and reduces motor noise.

Reduced Harmonic Current Distortion

Optidrive Eco HVAC uses innovative design to improve overall efficiency whilst minimising the harmonic distortion levels. All drives designed for 3 phase power supply operation¹ up to frame size 5 utilise film capacitor in the DC link, providing exceptionally low harmonic current distortion without compromising efficiency. Frame size 6 and above include DC chokes and traditional electrolytic capacitors.

Optidrive Eco HVAC product range complies with the requirements of EN61000-3-12.

Typical iTHD values at full and part load

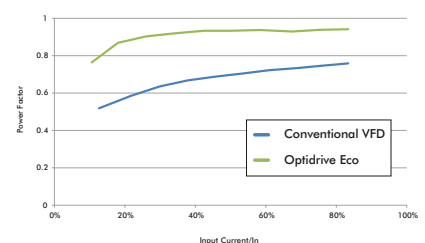


It can be clearly seen that the reduced DC link capacitance significantly reduces the total harmonic distortion at full load, and has a much greater benefit at part load compared to a conventional DC choke or swinging choke. This results in reduced overall input current and reduced transformer heating effect.

Optidrive Eco HVAC delivers

- Improved Efficiency, Reduced Lifetime Costs: e.g. for a 37kW load, operating 10 hours per day, 5 days per week, 50 weeks per year, improving the efficiency by just 1% will provide an energy saving > 900kWh per year
- Improved True Power Factor – No additional charges etc.
- Lower Mains Supply Current

Power factor comparison



Optidrive Eco offers improved power factor over conventional VFDs under all loads.

¹ 200V and 400V

Options & Accessories

Peripherals to help integrate Optidrive Eco HVAC with your HVAC systems



Optistick



Rapid Commissioning Tool

Plug-in or wirelessly copy parameter sets between drives.

OPT-2-STICK-IN

Optipad



Remote Keypad & OLED Display

IP55 panel mount operator interface.

- Clear multi-line text display
- Multiple language select
- Customisable displays

OPT-2-OPPAD-IN

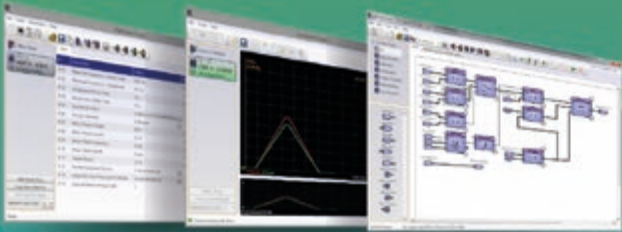
ASHRAE **BACnet**[®]
MS/TP
built-in as standard





Energy efficient control for HVAC systems

OptiTools Studio



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
- Windows 8
- Windows 8.1
- Windows 10

Fieldbus Interfaces



BACnet/IP
OPT-2-BNTIP-IN



PROFIBUS DP
OPT-2-PROFB-IN



DeviceNet
OPT-2-DEVNT-IN



EtherNet/IP
OPT-2-ETHNT-IN



Modbus TCP
OPT-2-MODIP-IN



PROFINET
OPT-2-PFNET-IN



EtherCAT
OPT-2-ETCAT-IN



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

BACnet MS/TP & Modbus RTU on board as standard

Mains Isolator



Mains Isolator Option

Frame Sizes 2 & 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

	kW	HP	Amps	Size	Model Code	Product Family	Generation	Frame Size	Voltage Code	Output Rating	Supply Phases	BMC Filter	EMC Class	Enclosure Type	Display	PCB Coating
200–240V ± 10% 1 Phase Input	0.75	1	4.3	2	ODV - 3 - 2 2 0043 - 1 F 1						# - # N					
	1.5	2	7	2	ODV - 3 - 2 2 0070 - 1 F 1						# - # N					
	2.2	3	10.5	2	ODV - 3 - 2 2 0105 - 1 F 1						# - # N					
200–240V ± 10% 3 Phase Input	0.75	1	4.3	2	ODV - 3 - 2 2 0043 - 3 F 1						# - # N					
	1.5	2	7	2	ODV - 3 - 2 2 0070 - 3 F 1						# - # N					
	2.2	3	10.5	2	ODV - 3 - 2 2 0105 - 3 F 1						# - # N					
	4	5	18	3	ODV - 3 - 3 2 0180 - 3 F 1						# - # N					
	5.5	7.5	24	3	ODV - 3 - 3 2 0240 - 3 F 1						# - # N					
	7.5	10	30	4	ODV - 3 - 4 2 0300 - 3 F 1						# - T N					
	11	15	46	4	ODV - 3 - 4 2 0460 - 3 F 1						# - T N					
	15	20	61	5	ODV - 3 - 5 2 0610 - 3 F 1						# - T N					
	18.5	25	72	5	ODV - 3 - 5 2 0720 - 3 F 1						# - T N					
	22	30	90	5	ODV - 3 - 5 2 0900 - 3 F 1						# - T N					
	30	40	110	6	ODV - 3 - 6 2 1100 - 3 F 1						N - T N					
	37	50	150	6	ODV - 3 - 6 2 1500 - 3 F 1						N - T N					
	45	60	180	6	ODV - 3 - 6 2 1800 - 3 F 1						N - T N					
55	75	202	7	ODV - 3 - 7 2 2020 - 3 F 1						N - T N						
75	100	248	7	ODV - 3 - 7 2 2480 - 3 F 1						N - T N						
380–480V ± 10% 3 Phase Input	0.75	1	2.2	2	ODV - 3 - 2 4 0022 - 3 F 1						# - # N					
	1.5	2	4.1	2	ODV - 3 - 2 4 0041 - 3 F 1						# - # N					
	2.2	3	5.8	2	ODV - 3 - 2 4 0058 - 3 F 1						# - # N					
	4	5	9.5	2	ODV - 3 - 2 4 0095 - 3 F 1						# - # N					
	5.5	7.5	14	3	ODV - 3 - 3 4 0140 - 3 F 1						# - # N					
	7.5	10	18	3	ODV - 3 - 3 4 0180 - 3 F 1						# - # N					
	11	15	24	3	ODV - 3 - 3 4 0240 - 3 F 1						# - # N					
	15	20	30	4	ODV - 3 - 4 4 0300 - 3 F 1						# - T N					
	18.5	25	39	4	ODV - 3 - 4 4 0390 - 3 F 1						# - T N					
	22	30	46	4	ODV - 3 - 4 4 0460 - 3 F 1						# - T N					
	30	40	61	5	ODV - 3 - 5 4 0610 - 3 F 1						# - T N					
	37	50	72	5	ODV - 3 - 5 4 0720 - 3 F 1						# - T N					
	45	60	90	5	ODV - 3 - 5 4 0900 - 3 F 1						# - T N					
	55	75	110	6	ODV - 3 - 6 4 1100 - 3 F 1						N - T N					
	75	100	150	6	ODV - 3 - 6 4 1500 - 3 F 1						N - T N					
	90	150	180	6	ODV - 3 - 6 4 1800 - 3 F 1						N - T N					
	110	175	202	7	ODV - 3 - 7 4 2020 - 3 F 1						N - T N					
132	200	240	7	ODV - 3 - 7 4 2400 - 3 F 1						N - T N						
160	250	302	7	ODV - 3 - 7 4 3020 - 3 F 1						N - T N						
200	300	370	8	ODV - 3 - 8 4 3700 - 3 F 1						2 - T N						
250	350	450	8	ODV - 3 - 8 4 4500 - 3 F 1						2 - T N						
500–600V ± 10% 3 Phase Input	0.75	1	2.1	2	ODV - 3 - 2 6 0021 - 3 0 1						# - # N					
	1.5	2	3.1	2	ODV - 3 - 2 6 0031 - 3 0 1						# - # N					
	2.2	3	4.1	2	ODV - 3 - 2 6 0041 - 3 0 1						# - # N					
	4	5	6.5	2	ODV - 3 - 2 6 0065 - 3 0 1						# - # N					
	5.5	7.5	9	2	ODV - 3 - 2 6 0090 - 3 0 1						# - # N					
	7.5	10	12	3	ODV - 3 - 3 6 0120 - 3 0 1						# - # N					
	11	15	17	3	ODV - 3 - 3 6 0170 - 3 0 1						# - # N					
	15	20	22	4	ODV - 3 - 4 6 0220 - 3 0 1						# - T N					
	18.5	25	28	4	ODV - 3 - 4 6 0280 - 3 0 1						# - T N					
	22	30	34	4	ODV - 3 - 4 6 0340 - 3 0 1						# - T N					
	30	40	43	4	ODV - 3 - 4 6 0430 - 3 0 1						# - T N					
	37	50	54	5	ODV - 3 - 5 6 0540 - 3 0 1						# - T N					
	45	60	65	5	ODV - 3 - 5 6 0650 - 3 0 1						# - T N					
55	75	78	6	ODV - 3 - 6 6 0780 - 3 0 1						N - T N						
75	100	105	6	ODV - 3 - 6 6 1050 - 3 0 1						N - T N						
90	125	130	6	ODV - 3 - 6 6 1300 - 3 0 1						N - T N						
110	150	150	6	ODV - 3 - 6 6 1500 - 3 0 1						N - T N						

Enclosure & Display Types

Replace # in model code with colour-coded option

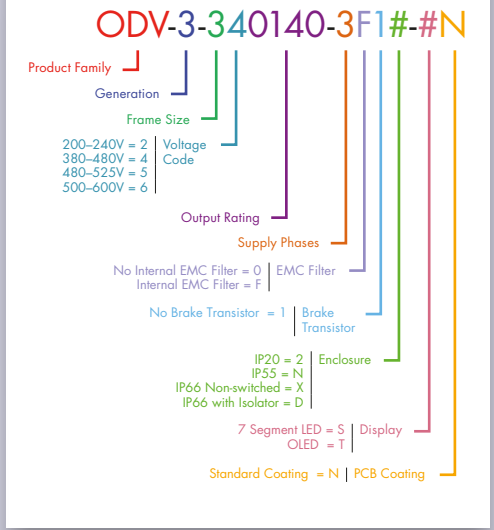
- 2-SN**  **IP20**
LED Display
- X-TN**  **IP66** Non-switched
OLED Display
- D-TN**  **IP66** Switched
OLED Display
- 2-TN**  **IP20**
OLED Display
- N-TN**  **IP55**
OLED Display
- N-TN**  **IP55**
OLED Display
- 2-TN**  **IP20**
OLED Display

Drive Specification

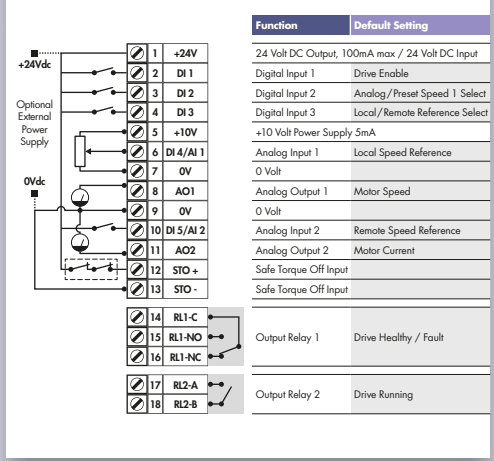
Input Ratings	Supply Voltage	200 – 240V ± 10% 380 – 480V ± 10% 500 – 600V ± 10%	
	Supply Frequency	48 – 62Hz	
	Displacement Power Factor	> 0.98	
	Phase Imbalance	3% Maximum allowed	
	Inrush Current	< rated current	
	Power Cycles	120 per hour maximum, evenly spaced	
	Output Ratings	Output Power	230V 1Ph. Input: 0.75–2.2kW (1–3HP) 230V 3Ph. Input: 0.75–75kW (1–100HP) 400V 3Ph. Input: 0.75–250kW 460V 3Ph. Input: 1–350HP 575V 3Ph. Input: 0.75–110kW (1–150HP)
Overload Capacity		110% for 60 seconds 165% for 4 seconds	
Output Frequency		0 – 250Hz, 0.1Hz resolution	
Typical Efficiency		> 98%	
Ambient Conditions	Temperature	Storage: –40 to 60°C Operating: –10 to 50°C	
	Altitude	Up to 1000m ASL without derating Up to 2000m maximum UL approved Up to 4000m maximum (non UL)	
	Humidity	95% Max, non condensing	
	Vibration	Conforms to EN61800-5-1 2007, IEC 60068-2-6	
Enclosure	Ingress Protection	IP20, IP55, IP66	
Programming	Keypad	Built-in keypad as standard Optional remote mountable keypad	
	Display	Built-in multi language OLED (IP55 & IP66) 7 Segment LED (IP20)	
	PC	OptiTools Studio	
Control Specification	Control Method	Eco Sensorless Vector Open Loop Permanent Magnet Vector Open Loop BLDC Vector Open Loop Synchronous Reluctance Vector	
	PWM Frequency	4 – 32kHz Effective	
	Stopping Mode	Ramp to stop: User Adjustable 0.1–600 secs Coast to stop	
	Braking	AC Flux Braking	
	Skip Frequency	Single point, user adjustable	
	Setpoint Control	Analog Signal 0 to 10 Volts / 10 to 0 Volts –10 Volts to +10 Volts 0 to 20mA / 20 to 0mA 4 to 20mA / 20 to 4mA Digital Motorised Potentiometer (Keypad) Modbus RTU BACnet MS/TP	
Fieldbus Connectivity	Built-in	BACnet MS/TP	BACnet Application Specific Controller 9.6 - 76.8 kbps selectable Data Format: 8N1, 8N2, 8O1, 8E1
		Modbus RTU	9.6 - 115.2 kbps selectable Data Format: 8N1, 8N2, 8O1, 8E1
	Optional	BACnet/IP	Plug-in BACnet/IP interface Dual LAN ports Device Level Ring
		Other	PROFIBUS DP (DPV1) PROFINET IO DeviceNet EtherNet/IP EtherCAT Modbus TCP

I/O Specification	Power Supply	24 Volt DC, 100mA, Short Circuit Protected 10 Volt DC, 5mA for Potentiometer	
	Programmable Inputs	5 Total as standard (optional additional 3) 3 Digital (optional additional 3) 2 Analog / Digital selectable	
	Digital Inputs	8 – 30 Volt DC, internal or external supply Response time < 4ms	
	Analog Inputs	Resolution: 12 bits Response time: < 4ms Accuracy: < 1% full scale Parameter adjustable scaling and offset	
	PTC Input	Motor PTC / Thermistor Input Trip Level : 3kΩ	
	Programmable Outputs	2 Total 1 Analog / Digital 1 Relay	
	Relay Outputs	Maximum Voltage: 250 VAC, 30 VDC Switching Current Capacity: 6A AC, 5A DC	
	Analog Outputs	0 to 10 Volts / 10 to 0 Volts 0 to 20mA / 20 to 0mA 4 to 20mA / 20 to 4mA	
	Application Features	PID Control	Internal PID Controller Multi-setpoint Select Standby / Sleep Mode Boost Function
		Fire Mode	Bidirectional Selectable Speed Setpoint (Fixed / PID / Analog / Fieldbus)
Load Monitoring		Over Torque Protection (Fan / Bump Blocked) Under Torque Protection (Broken Belt / Shaft) Pump Blockage Detection with Cleaning	
Duty / Assist / Standby		Built-in Multi-Pump Support Automatic Changeover on Fault Automatic Changeover on Time Fully Redundant	
Pump Control Features	Pump Blockage Detection	Pump load monitoring with autotune function, user configurable	
	Pump Cleaning	Adjustable Bi-directional Pump Cleaning Cycle operation	
	Multi-Pump Control	Control of fixed speed assist pumps (with cascade control module) Control of Duty, Assist and Standby variable speed pumps via internal Master – Slave network	
	Pump Stir	Automatic pump stir to prevent sediment build-up	
Maintenance & Diagnostics	Fault Memory	Last 4 Trips stored with time stamp	
	Data Logging	Logging of data prior to trip for diagnostic purposes : Output Current Drive Temperature DC Bus Voltage	
	Maintenance Indicator	Maintenance Indicator with user adjustable maintenance interval Onboard service life monitoring	
	Monitoring	Hours Run Meter Resettable & Non-Resettable kWh meters Cooling Fan Run Time	
Standards Compliance	Low Voltage Directive	2014/35/EU	
	EMC Directive	2014/30/EU	
	Additional Conformance	UL, cUL, EAC, RCM	
	Harmonic Currents	IEC61000-3-12	

Model Code Guide



Connection Diagram



NOT TO SCALE

Size	IP20					IP66			IP55			
	2	3	4	5	8	2	3	4	5	6	7	
mm Height	221	261	418	486	995	257	310	450	540	865	1280	
mm Width	110	131	160	222	482	188	211	171	235	330	330	
mm Depth	185	205	240	260	480	239	266	252	270	330	360	
kg Weight	1.8	3.5	8.1	17	128	4.8	7.7	11.5	23	55	89	

Optidrive Eco HVAC

✓ Saving Energy / Reducing CO₂

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 Eco HVAC can be used with environmental sensors to reduce speed in air handling and pumping applications without compromising the required output of the system.

✓ Easy Installation

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

✓ Simple Set-up & Rapid Commissioning

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

✓ Imaginative Enclosure Design

With a selection of IP55 and IP66 enclosures, Optidrive Eco HVAC is well suited to harsh environments, or where cabinet and cabling costs need to be reduced.

✓ Advanced Fan Control Functions

The key HVAC control functionality required for your application is inbuilt into the Optidrive Eco HVAC 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 Eco HVAC 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.



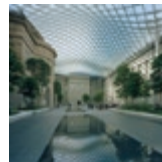
UK Headquarters, Welshpool

Invertek Drives Ltd is dedicated to the design, manufacture and marketing of electronic variable speed drives. The state of the art UK headquarters 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 ISO 9001:2008 quality standard. The company's products are sold globally in over 80 different countries. Invertek Drives' unique and innovative drives are designed for ease of use and meet with recognised international design standards.

Global HVAC Solutions

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



USA
National Portrait
Gallery climate control



UK
Saving energy in
ventilation and boilers



DUBAI
Saving energy in air
conditioning systems



SINGAPORE
Energy saving & noise
reduction programme



www.invertekdrives.com/hvac-building-services

INVERTEK DRIVES LIMITED UK Headquarters

Offa's Dyke Business Park
Welshpool, Powys, UK
SY21 8JF

Tel: +44 (0)1938 556868
Fax: +44 (0)1938 556869
Email: sales@invertekdrives.com

