

# Find the Power of Strong Partnerships


**KNOW  
HOW  
CREATES**

**HVAC  
CONTROLS & DRIVES**

## OJ DV GEN II

A drives programme dedicated to ventilation solutions



A black and white photograph of a technician working on an industrial drive unit. The technician, a man with a shaved head, is wearing a dark polo shirt and a watch. He is focused on a black rectangular drive unit mounted on a metallic surface. Above the drive unit is a large, silver, finned heat sink. The background shows a blurred industrial setting with metal panels.

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**OJ Drives®**

Discover the enhanced performance of  
our dedicated drives

At OJ Electronics we build our business on strong partnerships and co-creation. What drives us is a passion for excelling at controls and drives for the HVAC business.

Together with this passion, you will find innovation power, high-level software knowhow and in-depth application knowledge.

We work as your engineering partner. Through joint value creation, we boost your competitiveness by helping you to differentiate yourself in the market.

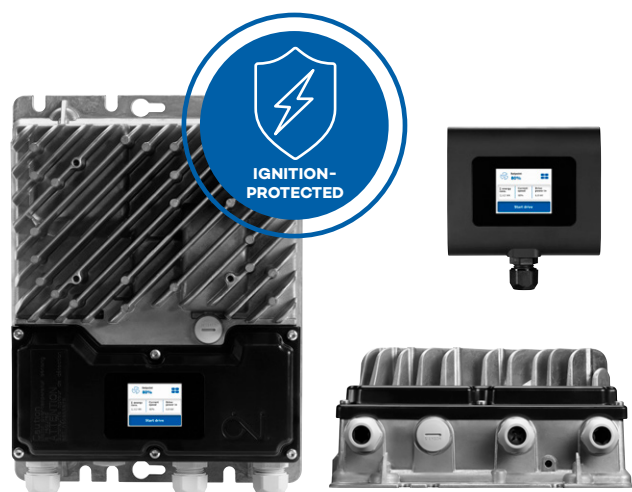
We have more than 50 years of experience and have developed drives for the ventilation segment for more than 25 years.

### The OJ Drives® signature:

1. Pre-programmed and configured at delivery
2. Motor and drive can be mounted separately
3. Dedicated to the application
4. Designed and made in Denmark
5. Differentiated EC solution

The OJ Drives programme is now in its second generation, offering even more enhanced robustness.

The OJ DV GEN II contains a range of drive products for different ventilation applications, including air-handling units, rooftop fans, plug fans and box fans.



# OJ DV GEN II Product Range

– built to meet your needs

The OJ DV GEN II series has been designed for ventilation solutions and with simplicity and efficiency in mind.

The focus is to deliver precisely the features and functionalities you need from a ventilation drive. And nothing else.

### Ignition-protected

To ensure safety and future-proof your systems, all OJ DV GEN II drives are certified ignition protected in accordance with applicable UL and IEC standards.

### Several motor types

The drives power a wide range of motor types, including induction/asynchronous (AC), permanent magnet (PM), and permanent magnet synchronous reluctance (PMSynRM) technologies. Count on OJ for compatibility.

### Controlling

The OJ DV GEN II drives can be controlled using a 0-10V or a 4-20mA signal and through Modbus RTU or BACnet MS/TP. In addition, the digital input and output interfaces can be used to determine and configure the control method.

### Grid immunity

The OJ DV GEN II offers Over Voltage Detection, allowing the drives to survive in most types of grids worldwide. Our drives are robust and handle grid disturbances, such as notches, spikes, and transients.

### Built-in EMC filter

The OJ DV GEN II drives come with a fully integrated EMC filter and therefore meet the emissions and immunity norms for industrial and residential areas according to EN 61800-3 (C1 and C2).

### Local and remote user interface

The OJ GEN II range has been expanded with user interfaces. Based on a 2" color touchscreen, the interfaces are available in a local variant and a remote variant.



# Drives that Fit Any Application

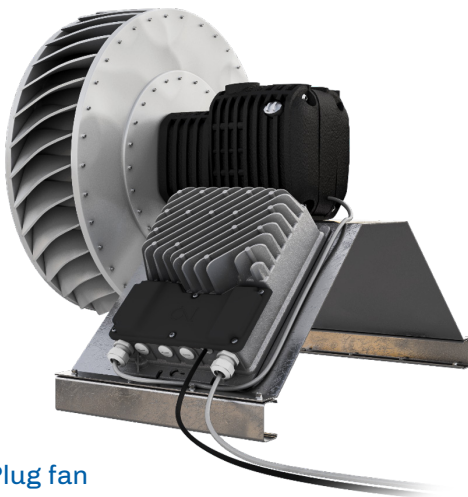
Ventilation applications vary greatly in terms of what kind of motor control they actually need.

That is why we have created the OJ DV GEN II product range to give our clients smart and flexible solutions that can be configured to maximise the efficiency of any ventilation system.

The motor and drive can be replaced separately, which minimises service costs.



Box fan

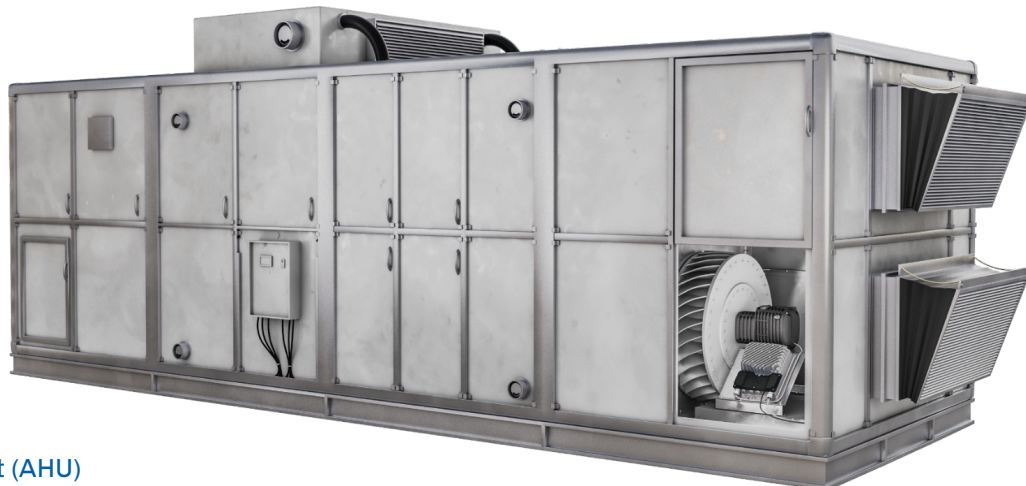


Plug fan

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Rooftop fan



Air Handling Unit (AHU)

# Standard Product Programme

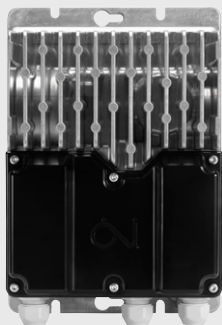
The OJ DV GEN II product range features 13 power variants (from 0.5 to 15 kW) fitted inside different housing sizes to match any rooftop fan, plug fan, or AHU application.

Our drives are CE and cRUus approved and are capable of continuous operation with an all-condition performance.



## 0.5 to 1.15 kW

- H1 housing
- Single phase supply 208-277V
- Dimensions: 185 x 230.5 x 90 mm



## 1.3 kW

- H1x housing
- Single phase supply 208-277V
- Dimensions: 185 x 265 x 125 mm



## 1.5 to 3.0 kW

- H3 housing
- Three phase supply 380-480V
- Dimensions: 185 x 265 x 100 mm



## 4.0 to 7.5 kW

- H4 housing
- Three phase supply 380-480V / 460-600V
- Dimensions: 220 x 294 x 107 mm



## 11.0 to 15.0 kW

- H5 housing
- Three phase supply 380-480V / 460-600V
- Dimensions: 244 x 399 x 144 mm



# Ultra Low Harmonic

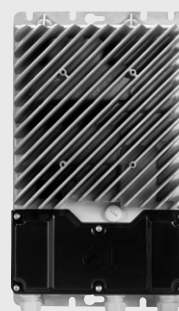
Avoid harmonic distortion in applications with sensitive electronic equipment

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## Your compact solution to harmonic distortion

The OJ DV NXT GEN Low Harmonic drive lets you reduce harmonic distortion with an easy-to-install, compact solution. The 3-phase active frontend incorporated into the drive housing eliminates the need for additional filters and cables, enabling you to create fully finished, factory-tested units that offer minimal harmonic distortion. Of course, these NXT GEN Low Harmonic drives comply with the strictest regulations and recommendations.

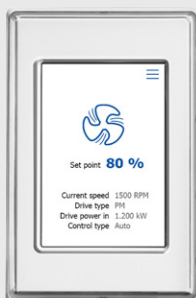


### OJ-DVULH

- 5,5 to 7,5 kW
- H4x housing
- THD(i) < 3%
- Same drive, same plug & play convenience

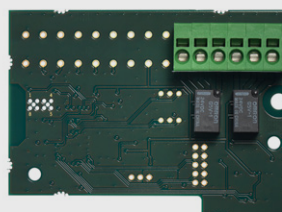
# Accessories

A competitive drives program is no longer enough. Along with our growing drives product program, the expansion of supporting products is the key to supporting the different fan solutions.



## OJ-DV-HMI-35T

User-friendly user interface customised for operating the OJ-DV.



## OJ-DV Option modules

Add-on modules for mounting inside the OJ-DV range.

- add A/D inputs and outputs
- add potential-free operating and alarm signals



## OJ-DV PC Tool

Engineering tool for controlling, monitoring, setting up and configuring OJ-DV products.



## OJ-VCH-HMI3

Controls up to 32 drives therefore ideal for energy renovation and retrofit projects.

# Boost Your Competitiveness

Over the last few years, we have opened up a new product line for developing customised drives fitting your specific needs and requirements.

Through dialogue with our wide range of customers, we have gained a broad and deep insight into the specifications required from a dedicated drive. Combining our market insight approach with our drive engineering knowhow have resulted in winning projects and new customers.

A customised drive can vary from a minor software extension to a completely new development of a drive that both in function and shape fits the application's specific needs. Either way, our high-quality product platforms will serve as the perfect foundation for your solution.

By using our product platforms, you will:

- Make the most of your R&D investments
- Enjoy shorter time-to-market
- Base your solution on a proven product platform

We have a broad experience in executing projects directly with customers as well as participate in a three-part project team. All projects are headed from our headquarters in southern Denmark. Rapid prototyping, in-house assembly lines for PCB components, final assembly and a final line test facility are all keywords in the process.

A customised solution can differentiate your product in the market. Let us help you to achieve just that.

# About OJ Electronics

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Founded in 1964 and headquartered in Sønderborg, Denmark, OJ Electronics produces electronic controls for underfloor heating and HVAC controls and drives. Our products are available through partners and distributors worldwide, and we have subsidiaries and sales offices in key markets, including the United States and Poland. Everywhere, we are known for our innovative approach, insistence on product quality, and deep application knowledge – all of which helps customers differentiate themselves in the market.

In June 2023, OJ Electronics was acquired by BITZER Electronics, a BITZER Group company also headquartered in Sønderborg. This makes OJ Electronics part of the BITZER Group family, which is represented at 75 locations in over 40 countries and employs some 4000 people worldwide.



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