

Find the Power of Strong Partnerships

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CREATES**

**OJ DV
GEN II**

**HVAC
CONTROLS & DRIVES**

OJ DV GEN II

A drives programme dedicated to ventilation solutions

A man with grey hair and a beard is working on a machine. He is holding a yellow power tool, which is connected to a cable. The tool is being used to work on a metal component. The background is a blurred industrial setting.

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.

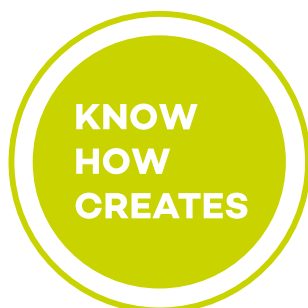
We have more than 50 years of experience and have developed drives for the ventilation segment for more than 25 years.

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.

Complete and competitive program

OJ DV GEN II offers a complete product program for ventilation - from 0.5-15 kW with an all-condition performance. The complete product range is UL listed.

EC solution

OJ DV GEN II is a result of combining technology from EC (electronic commutation) and FC (frequency converter) with intelligent variants and housings to fit any installation.

Controlling

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

Design

The OJ DV GEN II removable front cover design allows easy access to the connection compartment and provides sufficient space for connecting the option module cables.

Drives that Fit Any Application

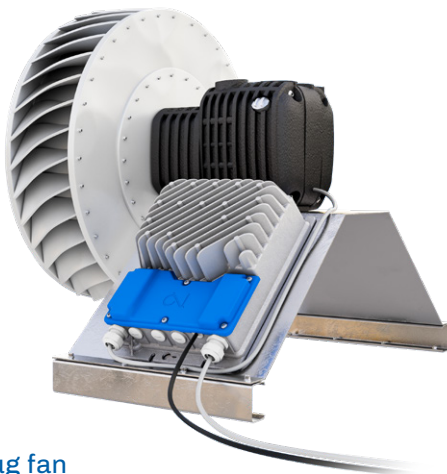
Ventilation applications vary greatly in terms of what kind of motor control they actually need.

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, cRUus and UKCA approved and are capable of continuous operation with an all-condition performance.



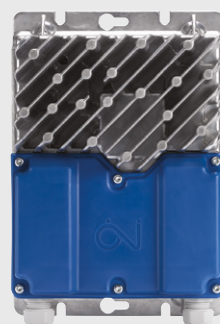
0.5 to 1.15 kW

- 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

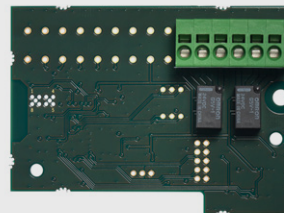
Accessories

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.

The OJ Way

The OJ Way is the unique tie-in of product leadership, global supply chain, perfect platforms for customisation, industry best quality processes, and a diamond partnership in one coherent package.

All processes are focused on the same general goal – to improve the climate – always – through connected electronics solutions.

In this way, we help you differentiate in the market.

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