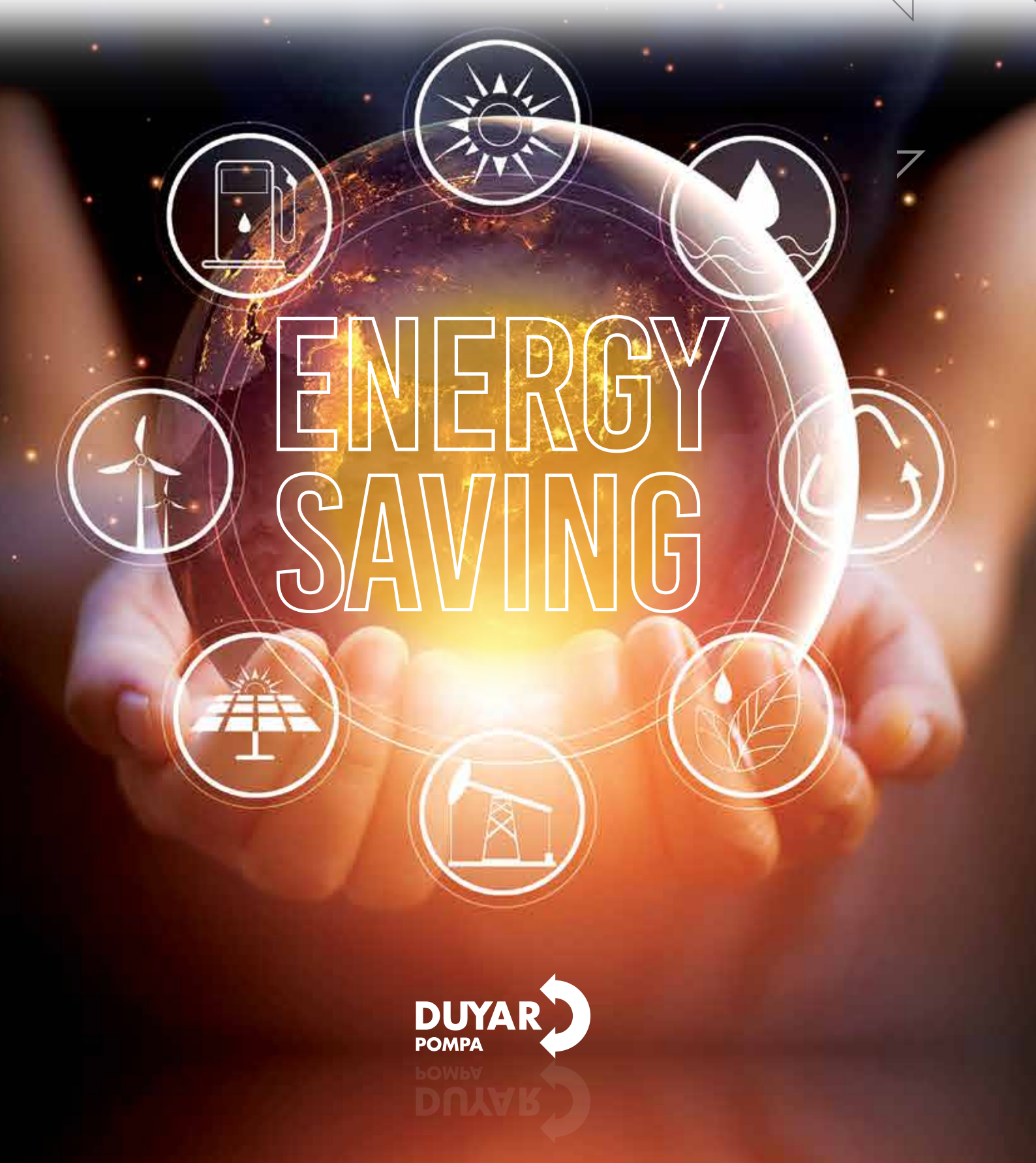
DUYAR POMPA

OPUS

VARIABLE SPEED CIRCULATOR PUMPS

For the Future of Our Planet

We Develop Technologies That Use Energy and Water Resources Efficiently



DUYAR POMPA

OPUS

CIRCULATOR PUMP WITH FREQUENCY CONVENTOR

Circulator pump with wet rotor is manufactured with auto power regulated **ECM** technology with connector or flange connection options.

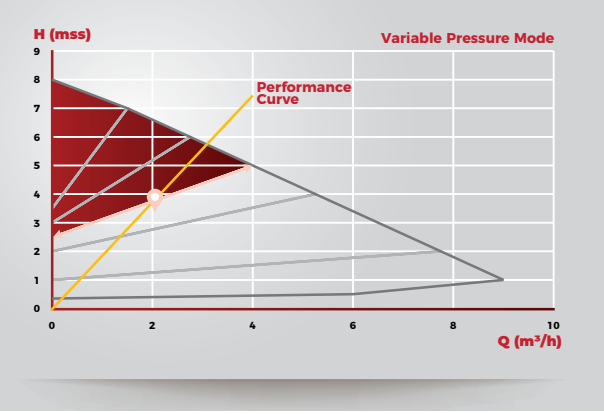
OPUS SERIES wet rotor circulation pumps have a wide range of uses in heating, cooling and air conditioning systems. The OPUS pump detects the need of the system and guarantees high efficiency and long-lasting use with minimum energy consumption in accordance with this need.

Although OPUS pumps provide maximum Q: 60 m3/h flow and maximum Hm: 15 mSS pressure values, dual (twin) pump usage options are also available.

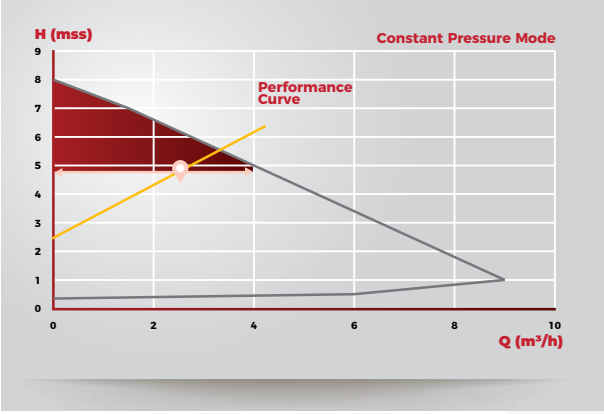
Working Principle of Opus Pump with Frequency Converter

OPUS with frequency converter adjusts its speed according to the system needs thanks to the current value it receives from the system and the inverter on it. It increases or decreases the speed of the variable speed pump in order to fix the pressure difference to the set value. With decreasing pressure requirement, the power drawn from the network decreases thanks to the reduced pump speed. Energy savings are achieved by reducing the pump input power.

Pump Operating Modes



Variable pressure mode is used in circulation systems. Adjusts the pump performance according to the changing flow requirement.



Constant pressure mode, is applied to variable flow systems with low pipe pressure loss and open systems where pipe pressure loss is less than static pressure.

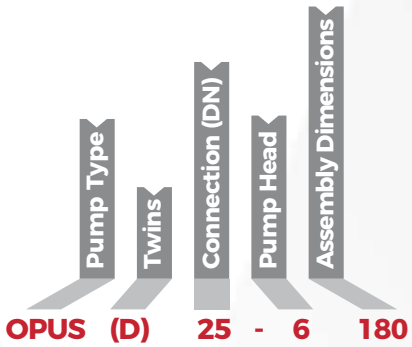
Scope Of Application

- Heating, cooling and air conditioning systems
- Industrial cooling systems

Product Benefits

OPUS is easily commissioned without the need for any additional operation with the factory setting. It provides lower energy consumption than traditional 3 speed circulators. OPUS are frequency-controlled **EEI ≤ 0.23** circulation pumps in accordance with the **Erp 2009/125/EC** directive.

Product Notation



Hardware / Function

Permanent magnet ECM technology, motor integrated protection

Features
- LED display indicators
- Easy to use and setup
- Communication between devices
- MODBUS

Operating Modes:
- Variable pressure
- Constant pressure
- Night mode

List of Materials:
- Body : Cast iron
- Shaft : Stainless steel (AISI 420)
- Impeller : Composite (PPS)

OPUS 25-32 SERIES
CIRCULATOR PUMP WITH FREQUENCY CONVERTER

Technical Information

- Fluid temperature : -10/110 ˚C
- Mains Connection : 1~230 V, 50 Hz
- Protection Class : IP 44
- Insulation Class : F
- Max. Working Pressure : 6 Bar

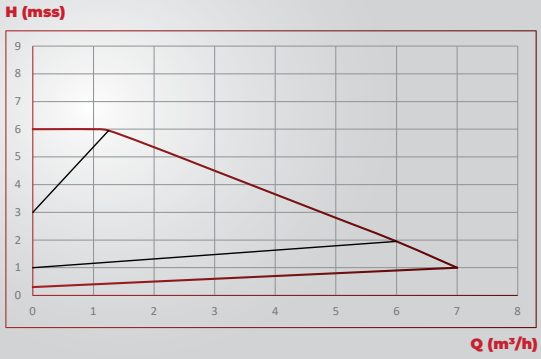
Stock Code	Model	Energy Efficiency Index (EEI)	Engine Power (W)	Nominal Connection Diameter	Distance Between Flange (mm)
153-0101	OPUS 25-6 180*	≤ 0,23	90	1 1/2"	180
153-0101	OPUS 25-8 180*	≤ 0,23	140	1 1/2"	180
153-0101	OPUS 25-12 180*	≤ 0,23	180	1 1/2"	180
153-0101	OPUS 32-6 180*	≤ 0,23	90	2"	180
153-0101	OPUS 32-8 180*	≤ 0,23	140	2"	180
153-0101	OPUS 32-12 180*	≤ 0,23	180	2"	180

* MODBUS ASCII MODULE must be added for the communication of pumps.

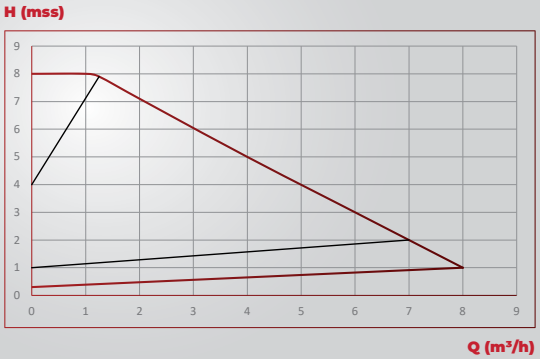
- Commissioning fee is included in the price.

Additional Equipment

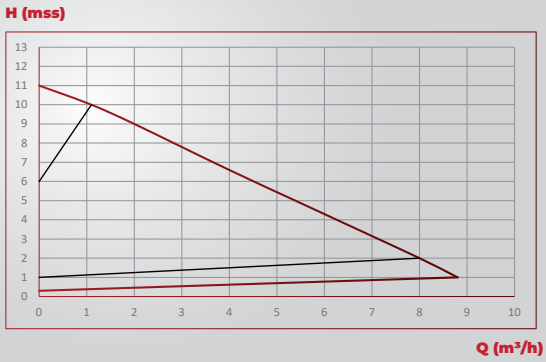
Stock Code	Model	Features
153-0200-MODBUS ASCII MODULE	MODBUS ASCII MODULE	RS 485
153-0300-01-THERMAL I. J.	THERMAL INSULATING JACKET	DN 25-32-40
153-0300-02-THERMAL I. J.	THERMAL INSULATING JACKET	DN 50-65-80 AND TWIN PUMPS
153-0413-01-1" 1-1/2"	CONNECTOR SET 25	1"-1 ½"
153-0413-01-1 1/4"-2"	CONNECTOR SET 32	1 ¼"-2"



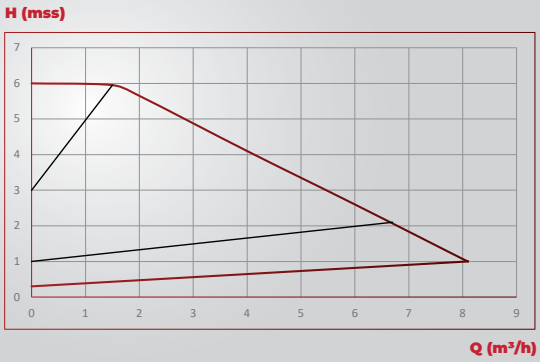
OPUS 25-6 180



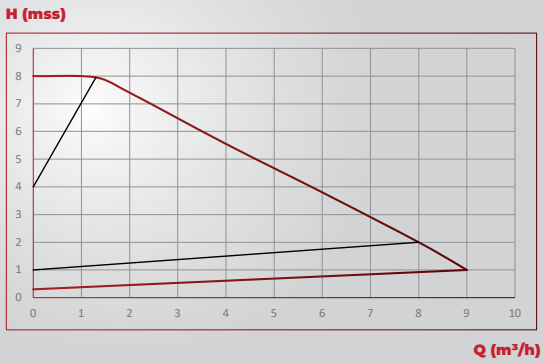
OPUS 25-8 180



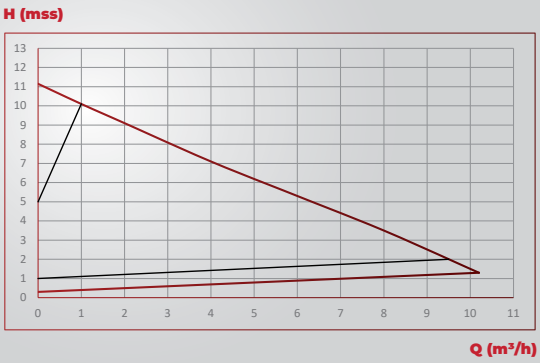
OPUS 25-12 180



OPUS 32-6 180



OPUS 32-8 180



OPUS 32-12 180

OPUS D 25-32 SERIES
CIRCULATOR PUMP WITH FREQUENCY CONVERTER

Technical Information

- Fluid temperature : -10/110 ˚C
- Mains Connection : 1~230 V, 50 Hz
- Protection Class : IP 44
- Insulation Class : F
- Max. Working Pressure : 6 Bar

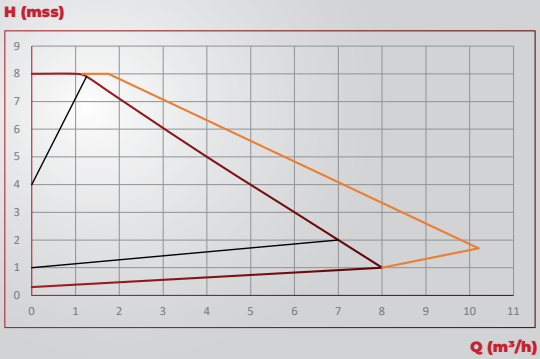
Stock Code	Model	Energy Efficiency Index (EEI)	Engine Power (W)	Nominal Connection Diameter	Distance Between Flange (mm)
153-0101	OPUS D 25-8 180*	≤ 0,23	140	1"	180
153-0101	OPUS D 25-12 180*	≤ 0,23	180	1 1/4"	180
153-0101	OPUS D 32-8 180*	≤ 0,23	140	1 1/4"	180
153-0101	OPUS D 32-12 180*	≤ 0,23	180	2"	180

* MODBUS ASCII MODULE must be added for the communication of pumps.

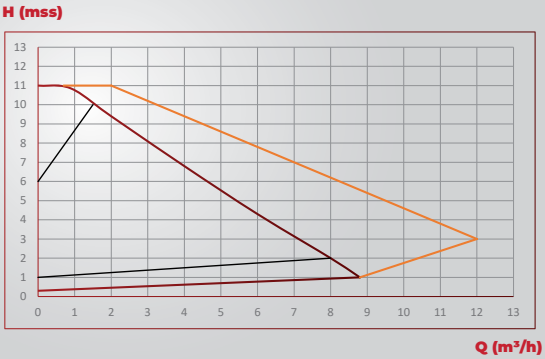
- Commissioning fee is included in the price.

Additional Equipment

Stock Code	Model	Features
153-0200-MODBUS ASCII MODULE	MODBUS ASCII MODULE	RS 485
153-0300-01-THERMAL I. J.	THERMAL INSULATING JACKET	DN 25-32-40
153-0300-02-THERMAL I. J.	THERMAL INSULATING JACKET	DN 50-65-80 AND TWIN PUMPS
153-0413-01-1" 1-1/2"	CONNECTOR SET 25	1"-1 ½"
153-0413-01-1 1/4"-2"	CONNECTOR SET 32	1 ¼"-2"



OPUS D 25-8 180



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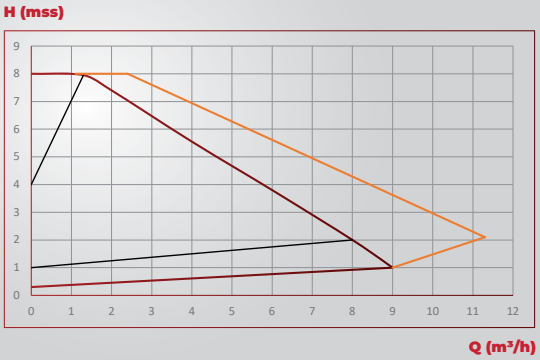
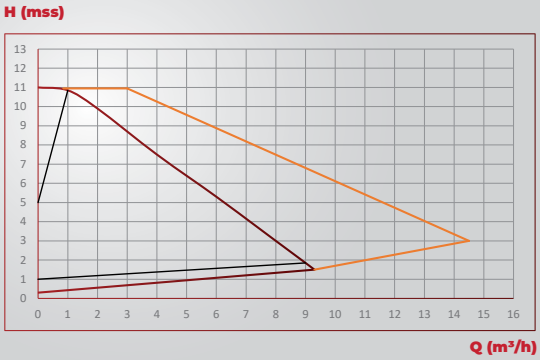


OPUS D 32-8 180



OPUS D 32-12 180

- **The twin pump curves show the capacity of a single pump.**

OPUS C, OPUS V SERIES
CIRCULATOR PUMP WITH FREQUENCY CONVERTER

Technical Information

- Fluid temperature : -10/110 ˚C
- Mains Connection : 1~230 V, 50 Hz
- Protection Class : IP 44
- Insulation Class : F
- Max. Working Pressure : 10 Bar

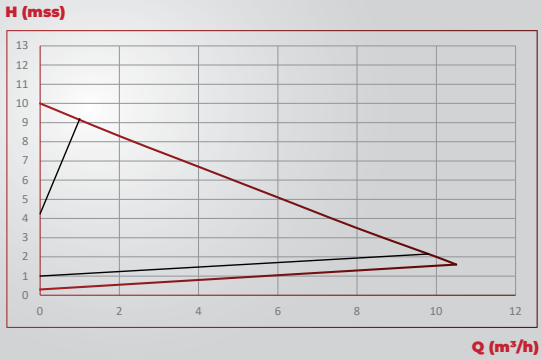
Stock Code	Model	Energy Efficiency Index (EEI)	Engine Power (W)	Nominal Connection Diameter	Distance Between Flange (mm)
153-0102	OPUS 40-10 220 C*	≤ 0,23	180	DN40	220
153-0102	OPUS 40-10 220*	≤ 0,23	400	DN40	220
153-0102	OPUS 40-12 250 V*	≤ 0,23	480	DN40	250
153-0102	OPUS 50-8 240 C*	≤ 0,23	180	DN50	240
153-0102	OPUS 50-8 240*	≤ 0,23	400	DN50	240
153-0102	OPUS 50-12 280 V*	≤ 0,23	560	DN50	280
153-0102	OPUS 65-10 340 V*	≤ 0,23	750	DN65	340
153-0102	OPUS 80-10 360 V*	≤ 0,23	850	DN80	360

* MODBUS ASCII MODULE must be added for the communication of pumps.

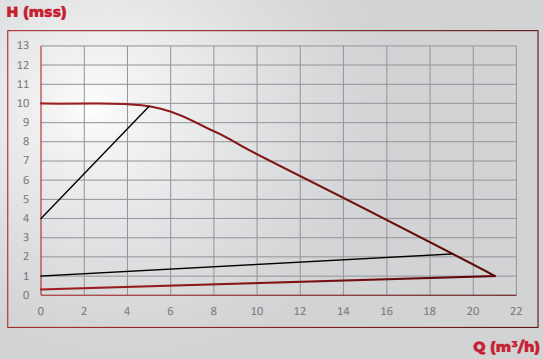
- Commissioning fee is included in the price.

Additional Equipment

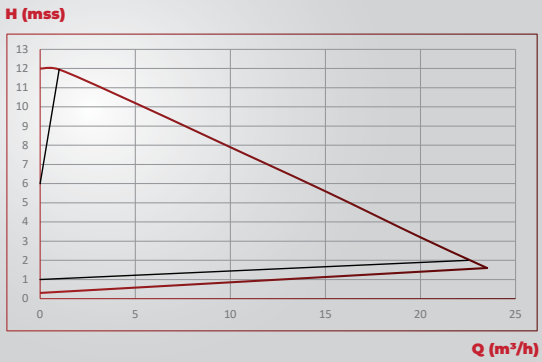
Stock Code	Model	Features
153-0200-MODBUS ASCII MODULE	MODBUS ASCII MODULE	RS 485
153-0300-01-THERMAL I. J.	THERMAL INSULATING JACKET	DN 25-32-40
153-0300-02-THERMAL I. J.	THERMAL INSULATING JACKET	DN 50-65-80 AND TWIN PUMPS



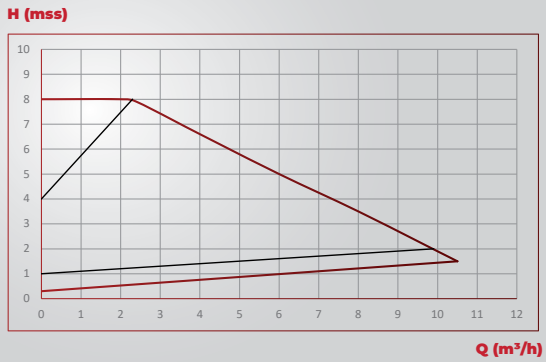
OPUS 40-10 220 C



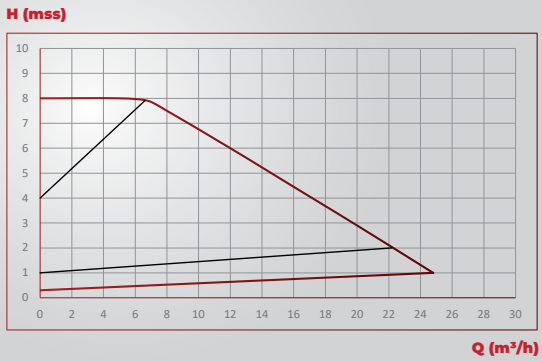
OPUS 40-10 220



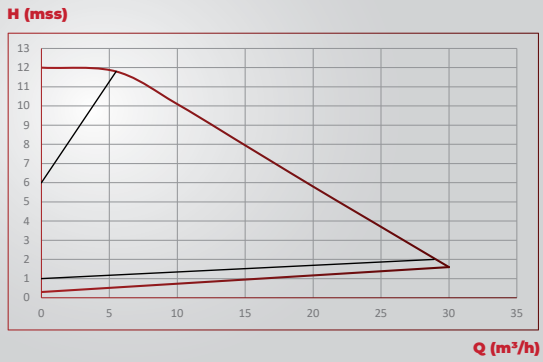
OPUS 40-12 250 V



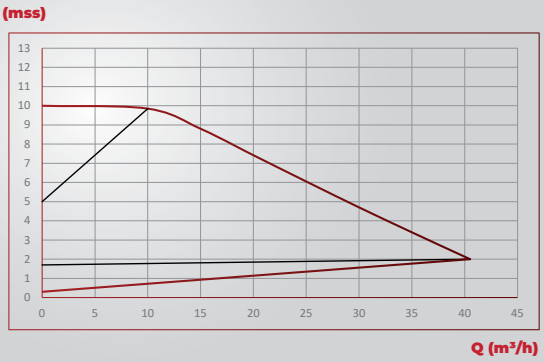
OPUS 50-8 240 C



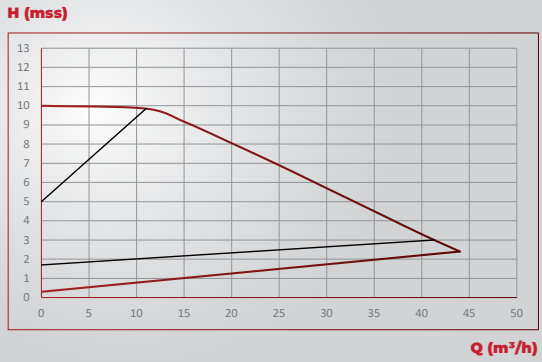
OPUS 50-8 240



OPUS 50-12 280 V



OPUS 65-10 340 V



OPUS 80-10 360 V

OPUS 40-50-65-80 SERIES

CIRCULATOR PUMP WITH FREQUENCY CONVERTER

Technical Information

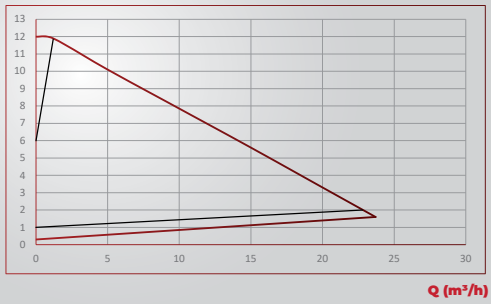
- Fluid temperature : -10/110 ˚C
- Mains Connection : 1~230 V, 50 Hz
- Protection Class : IP 44
- Insulation Class : F
- Max. Working Pressure : 10 Bar

Stock Code	Model	Energy Efficiency Index (EEI)	Engine Power (W)	Nominal Connection Diameter	Distance Between Flange (mm)
153-0102	OPUS 40-12 250	≤ 0,23	460	DN40	250
153-0102	OPUS 40-15 250	≤ 0,23	630	DN40	250
153-0102	OPUS 50-12 280	≤ 0,23	540	DN50	280
153-0102	OPUS 50-15 280	≤ 0,23	640	DN50	280
153-0102	OPUS 65-12 340	≤ 0,23	780	DN65	340
153-0102	OPUS 65-15 340	≤ 0,23	1000	DN65	340
153-0102	OPUS 80-12 360	≤ 0,23	1000	DN80	360
153-0102	OPUS 80-15 360	≤ 0,23	1250	DN80	360
153-0102	OPUS 80-20 360	≤ 0,23	1750	DN80	360

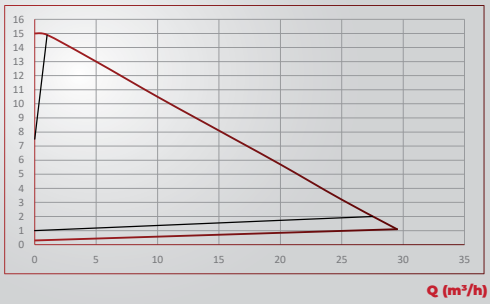
- Commissioning fee is included in the price.

Additional Equipment

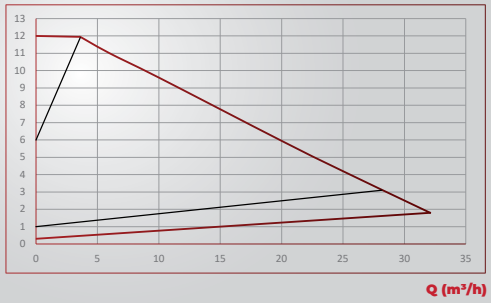
Stock Code	Model	Features
153-0200-MODBUS ASCII MODULE	MODBUS ASCII MODULE	RS 485
153-0300-01-THERMAL I. J.	THERMAL INSULATING JACKET	DN 25-32-40
153-0300-02-THERMAL I. J.	THERMAL INSULATING JACKET	DN 50-65-80 AND TWIN PUMPS



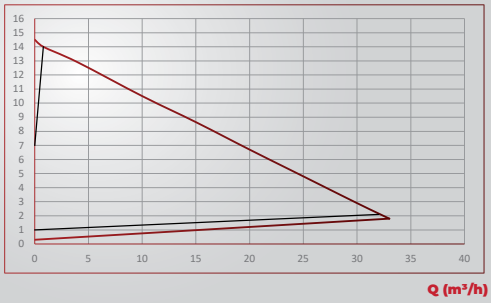
OPUS 40-12 250



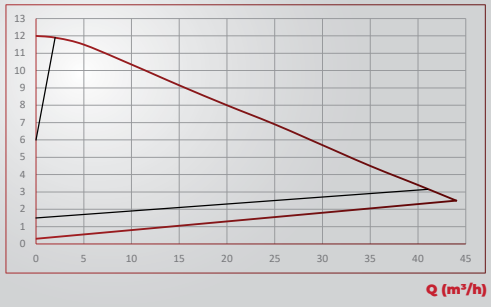
OPUS 40-15 250



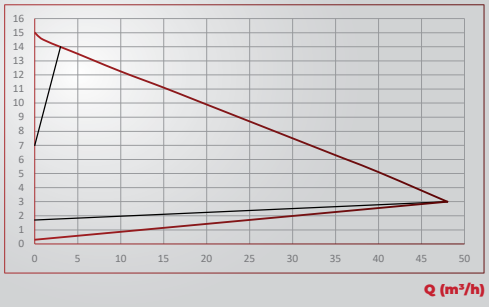
OPUS 50-12 280



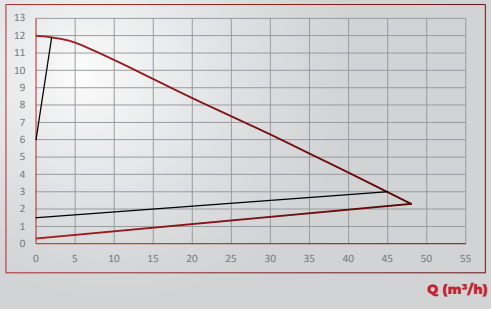
OPUS 50-15 280



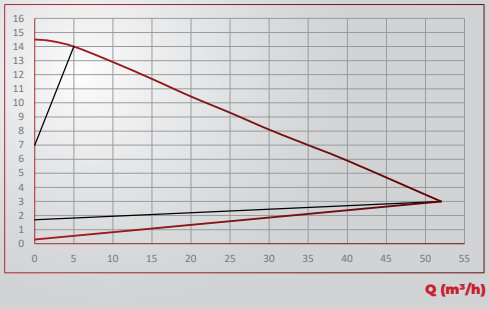
OPUS 65-12 340



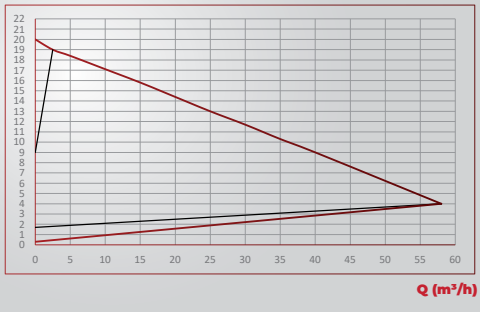
OPUS 65-15 340



OPUS 80-12 360



OPUS 80-15 360



OPUS 80-20 360

Uninterrupted Product Support

DUYAR
POMPA

DUYAR POMPA

WE ARE **SENSITIVE** TO **LIFE**

02.2024

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