

hydroo®



VDROO SERIES



Hydroo's Hy5 programme defines a new pump concept focused in its 5 main drivers



Highest pump performance is related to the motor and the hydraulics detailed design. We use the high-end technical resources to reach the best in the market results. Maximised hydraulic efficiency and IE3 standard motors turn out to a unique leading pump concept: robust, reliable, flexible, user-adjustable, smart and multi-purpose.



Added value relies in the material selection, the industrial process of the components production and the usable design of all the single details. Pump flexibility, high line-up of options and personalized service is our added value.



Quality assurance is a key factor for added value products. We at Hydroo watch the pump quality, the crafted manufacturing process and expedition quality are integrated in our core service offer. Moreover, variable frequency drivers are available to get the best pump service in any kind of installation. World is in motion and we contribute to it with warmth and commitment.



Our commitment with the environment is in the base of our company thinking. All processes consider the minimum impact in our own home. Within the designing process we had in mind any individual requirement to get the best result for our customers.



We take care of our customer's pumps. We are our customer's factory and they deserve our full commitment in excellence and exemplary corporate culture. We consider no boundaries within the value chain, starting from industrial installation engineering to pump managing. This vision results in a close cooperation with all players to get the best pumping solution.

Energy savings

Reliable, efficient

Low life cycle cost

Designed and manufactured in Barcelona

Widest range in the market

VDROO is a new series of vertical multistage centrifugal pumps made by Hydroo. It includes different versions: VF, VX, VN and VD and their corresponding pumps sets with motor and with variable frequency drivers.

VDROO range has been designed to meet the highest demanding pump installations. It has been designed, engineered, industrialized and finally, is being produced in the main factory of Hydroo in Palol de Revardit, Catalonia-Spain.

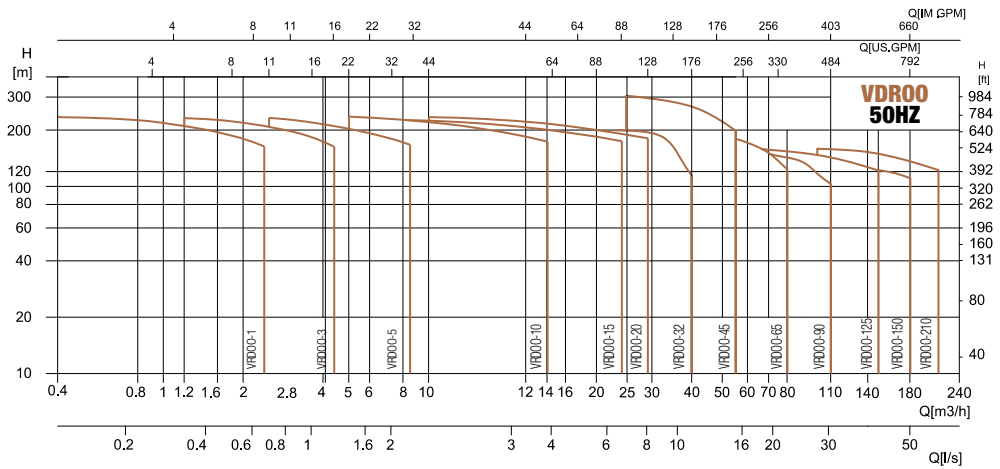
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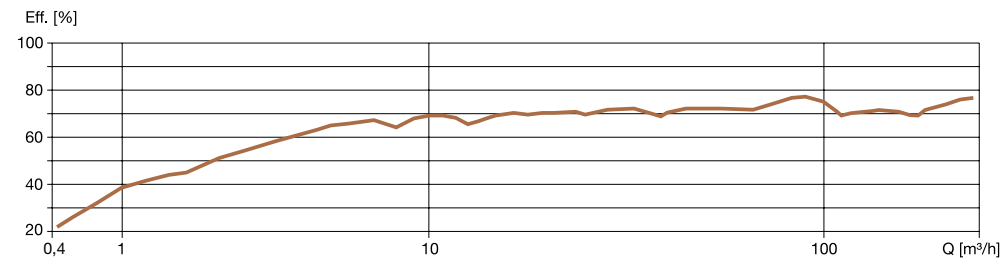
Product range

Description	VDR00-1	-3	-5	-10	-15	-20	-32	-45	-65	-90	-125	-150	-210
Rated flow [m³/h]	1	3	4	10	15	20	32	42	65	85	120	150	200
Rated flow [l/s]	0.28	0.83	1.39	2.78	4.17	5.56	8,90	11,70	18	24	33	41,60	55,60
Flow range [m³/h]	0.5~2.4	1.2~4.4	2.5~8.5	5~14	8~24	10~29	16~40	25~55	30~80	50~110	60~150	80~180	100~240
Max. pressure. [bar]	24	23	24	24	24	23	29	30	22	17	16	16	16
Motor power [kW]	0.37~2.2	0.37~3	0.37~5.5	0.75~11	1.1~15	1.1~18.5	1.5~30	3~45	4~45	5.5~45	11~75	11~75	18.5~110
Temp. [°C]	-15 ~ +120												
Max. efficiency [%]	48	58	70	72	73	73	75	76	77	74	73		79
MEI rates	≥ 0,8			≥ 0,7			≥ 0,7	≥ 0,7	≥ 0,6	≥ 0,6	≥ 0,6	≥ 0,6	≥ 0,6
VF	•	•	•	•	•	•	•	•	•	•	•	•	•
VX, VN	•	•	•	•	•	•	•	•	•	•	•	•	•
VD							•	•	•	•	•	•	•
VF, VX, VN, VD DIN Flange	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150
VX, VN Cutting ferrule joint	DN32	DN32	DN32	DN50	DN50	DN50							
VX, VN Pipe thread	R1¼	R1¼	R1¼	R2	R2	R2							
VF, VX, VN Oval Flange	G1	G1	G1¼	G1½									

Performance scope



Hydraulic efficiency



Main Features

Flow rate from 1 m³/h up to 210 m³/h

Up to 310 m head

50 / 60 Hz, single and three phase version

IE3 motors from 0.37 kW up to 110 kW

High range of temperatures from -20°C to 120°C

Balanced cartridge seal EN12756 on request. SiC/Graphite/EPDM or FKM as standards

Connections available: round flanged, threaded, plug-in Victaulic type and oval

Versions fully made in Cast Iron (VF), AISI304 (VX), AISI316 (VN) and 904L Duplex SS (VD)

Standards

Manufactured at the Hydroo's Lean European industrial plant complying with ISO9001 and ISO14001

Motors according to EuP 2005/32/CEE and ErP 2009/125/CEE directives

Compliance with the ErP Regulation of the EU Commission nr. 547/2012

100% of the production tested and performance curves according to ISO9906:2012 grade 3B

Advantages to the pump engineer and end user

- Easy installation
- Easy and quick maintenance
- Energy efficient operation
- Wide, flexible and adaptable range to optimise the pump selection
- High reliability in most demanding applications



Applications

- Water supply for municipalities, industries, golf courses
- Boostering in residential and commercial buildings
- Boiler feed
- Turf, greenhouses and crop irrigation sets
- HVAC systems and district heating
- Washing machines and laundry systems
- RO and water treatment sets
- Fire-fighting systems

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Be pumping partners

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201808-FLY-VDROO-EN
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