


<b>hydroo</b> <sup>®</sup>	<b>Product information</b> <b>VDROO45-20-2</b>	Manufacturer	Hydroo
		Address	
<b>Project Name</b>		Contact	(+34) 972 394 654
		Date	2021/09/08
<b>Station Number</b>		Client Name	GK Electropompa
		Client Addr.	Russia, Moscow
		Contacts	
		Contact	7(495)981-92-44(45)

Product No.	VD45-20-2R 0550 T 4069 5 2 IE3
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Product picture(Note: the picture may not be the same as t	Series description
	<p>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.</p> <p>VDROO range has been designed to meet the highest demanding in pumping installations. It has been designed, engineered, industrialized and finally, is being produced in the main factory of Hydroo in Palol de Revardit, Catalonia-Spain.</p>

### Performance Date

Rated flow(m <sup>3</sup> /h)	45
Rated head(m)	30
Efficiency(%)	69.8
Rated power(kW)(kW)	5.27
NPSHr(m)	2.5
Impeller Dia(mm)	136
Rate Speed(rpm)	2900
Impeller stage	2
Min. Flow (m <sup>3</sup> /h)	25
Max. Flow (m <sup>3</sup> /h)	55
Max. Efficiency (%)	75
MEI	0,7
Pump Weight (kg)	105

### MATERIAL

Impeller/Diffuser/Casing	AISI 904
Rubber code	F
Inlet & Outlet chamber	SS2205

### INSTALLATION

Connection Code	R
Connection type	Threaded Round flange
Max. pressure (bar)	30
Low/High Temperature()	-15 / 120
Pressure rating	PN25-40
Inlet & Outlet Connection	DN80
Max. Environment temperatu	40

### MOTOR

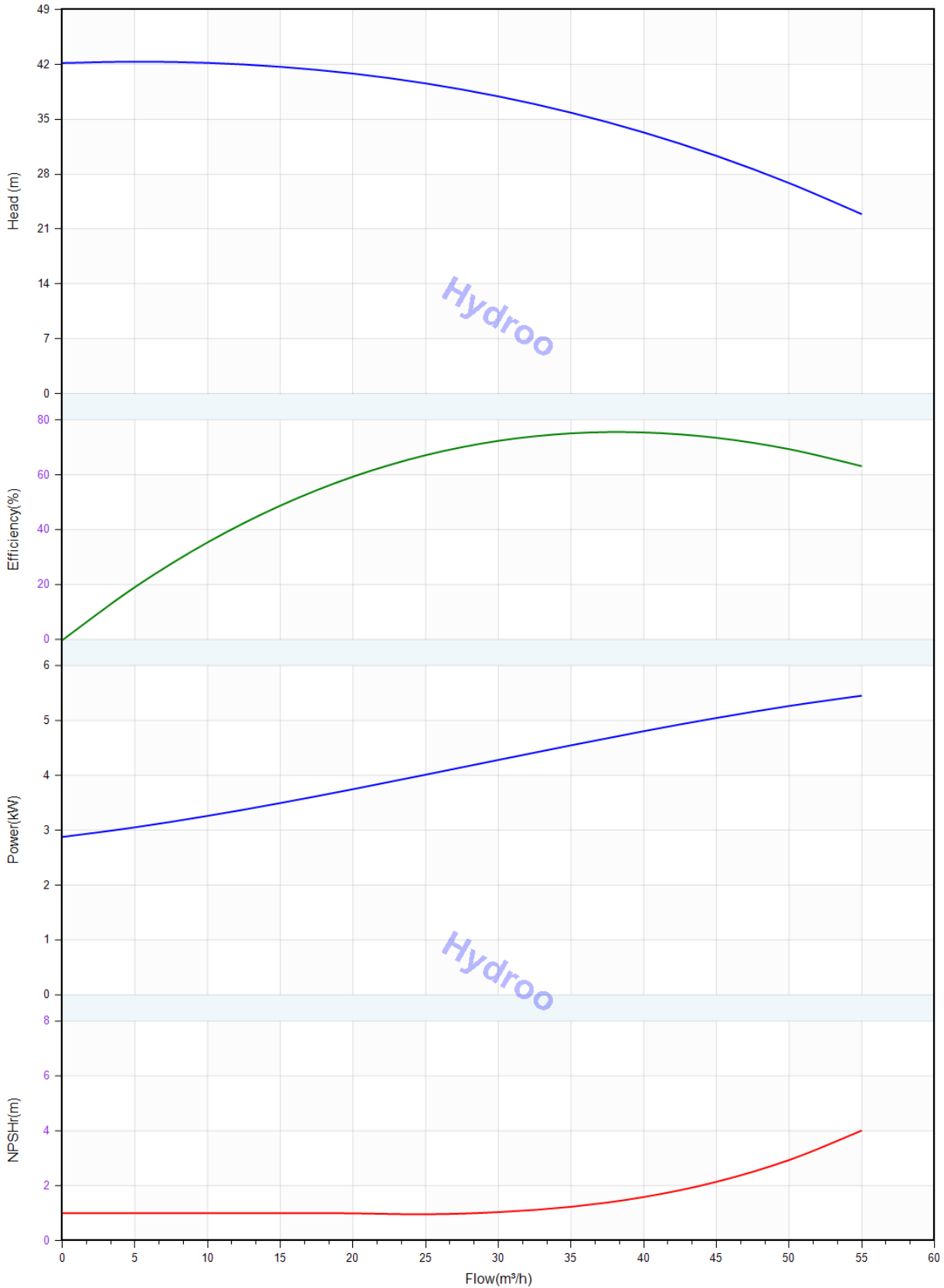
Number of Motor Phases	3~
Protection Class	IP55
Insulation Class	F
Motor Power (kW)	5.5
Frequency(Hz)	50
Rated speed(rpm)	2900
Rated voltage (V)	400/690
Rated current (A)	10.1/5.9
cos	0.88
Energy efficiency Level	IE3

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Efficiency100%	89.2
Efficiency75%	89.5
Efficiency50%	88.8
Drive end bearing	6308ZZC3
Non-drive end bearing	6308ZZC3
Motor Weight (kg)	50.5
<b>SEAL</b>	
Mechanical Seal	D22 WBF16

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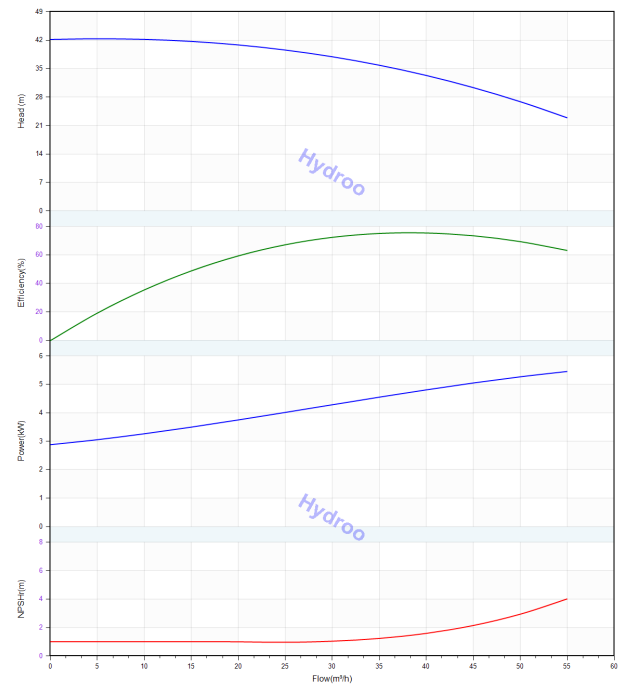
Medium Name Water , Temperature°C, Density1000kg/m³, Viscosity1mm²/s, (IS099062012 Grande 3B)



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Rated parameters	
Pump model	VDROO45-20-2
Product No.	VD45-20-2R 0550 T 4069 5 2 IE3
Rated flow(m <sup>3</sup> /h)	45
Rated pressure(m)	30
Rated efficiency(%)	69.8
Power(kW)	5.27
NPSHr(m)	2.5
Speed(rpm)	2900

Medium	
Medium Name	Water
Working temperature(°C)	20
Medium density(kg/m <sup>3</sup> )	1000
Viscosity(mm <sup>2</sup> /s)	1



<b>hydroo</b> <sup>®</sup>	<b>Structure picture</b> VDROO45-20-2	Manufacturer	Hydroo
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