

*Royal Exclusiv pumps & skimmers*

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Since 1986



**Data sheet and list of spare parts for Red Dragon® 3 pump  
HIGH PRESSURE VERSION**

For all Red Dragon® 3 Speedy 230 Watt / 19,0m<sup>3</sup> pumps (High Pressure)

v2.0

**ENG**






## Data sheet and power curve for pressure pump with adjustable speed motor

**Red Dragon® 3 Speedy pump 230 Watt / 19,0m³** Product no.: 606/HP **1.305,09 €**

Technical data Red Dragon® 3 Speedy pump 230 Watt / 19m³:

Performance: 19.100 liter / h  
Cable length: 0,8 meter (plug controller)  
3,0 meter (controller to pump)  
pump and controller with a removeable Hirschmann-plug-connection

Pressure side: Ø 40 mm Intake side: Ø 63 mm  
Wattage: adjustable max. 230 Watt (min. 20W)  
Pressure height: max. 8,85 meter  
Material/color: PVC black/red/grey with screw connection  
Operating voltage: 230 Volt 50 Hz (also in 110V/60Hz available)  
Noise level: 39 - 47 db at full speed (measured in 1 m distance - operation external)  
Protection class: IP 68 (submersible pump) IP 66 (controller)  
Weight: 4,7 kg  
Height of intake side: center 70 mm  
Dimension pump: ~ 130 mm wide / 295 mm length / 220 mm height  
Dimension controller: ~ 190 mm wide / 168 mm length (250 mm with connection cable) / ~ 84 mm height



- Saltwater resistant M6 grade 2 titanium screws
- Saltwater resistant parabolic rubber feet for acoustic decoupling
- Extreme low noise brushless dc-delivery pump with grouted power electronics
- High efficient technology Made in Germany
- Inlet and Outlet complete with DIN connection, compact dimensions
- High performance ceramics bearings and hollow shaft for bypass purging in the rotor housing
- "The only" saltwater resistant pump with titanium rotor, titanium stator and shrivelled bearings
- Easy usage and maintenance. Low risk of calcification due to polished titanium parts and compulsory purgeing
- Heavy and massive craftsmanship against vibrations and oscillation
- CE conformity, developed and built according to VDE guidelines

### The direct control/connection of Aquarium computer possible!

Prepared for connection to an aquarium computer (E.g. GHL) via a 0-10V interface. No additional controller needed. tested so far folowing these two computers: GHL ProfiLux 3.1 and from Neptune Systems the Apex Aqua Controller.

### Functioning of the electronics:

Once a voltage > 0,5V to the 10V interface is, the interface adapter takes over controlling and the system and lock(disable) the buttons on the controller. Voltage will be < 0,5V normal controller operation and the buttons are again released. So can the interface adapter stay connected without performing a function.

If the Aquarium(tank)-computer voltage under 0,5V the 0-10V interface is shut down and the pump can be operated manually. From 0,5V, the interface will take over control of the scheme. In the area of 0,5V-0,8V the pump is switched off. From ~ 0,8V starts the pump at the lowest level (20W) and run. At an increase of steps in 2W up to 9V=230W. So 1V = 20W ..... 9V = 230W. The applied voltage and the resulting performance will be shown in the display.

At a higher input voltage remains the Speedycontroller to the maximum setting are available and no longer increases. The interface adapter behaves as if the corresponding would push the button.

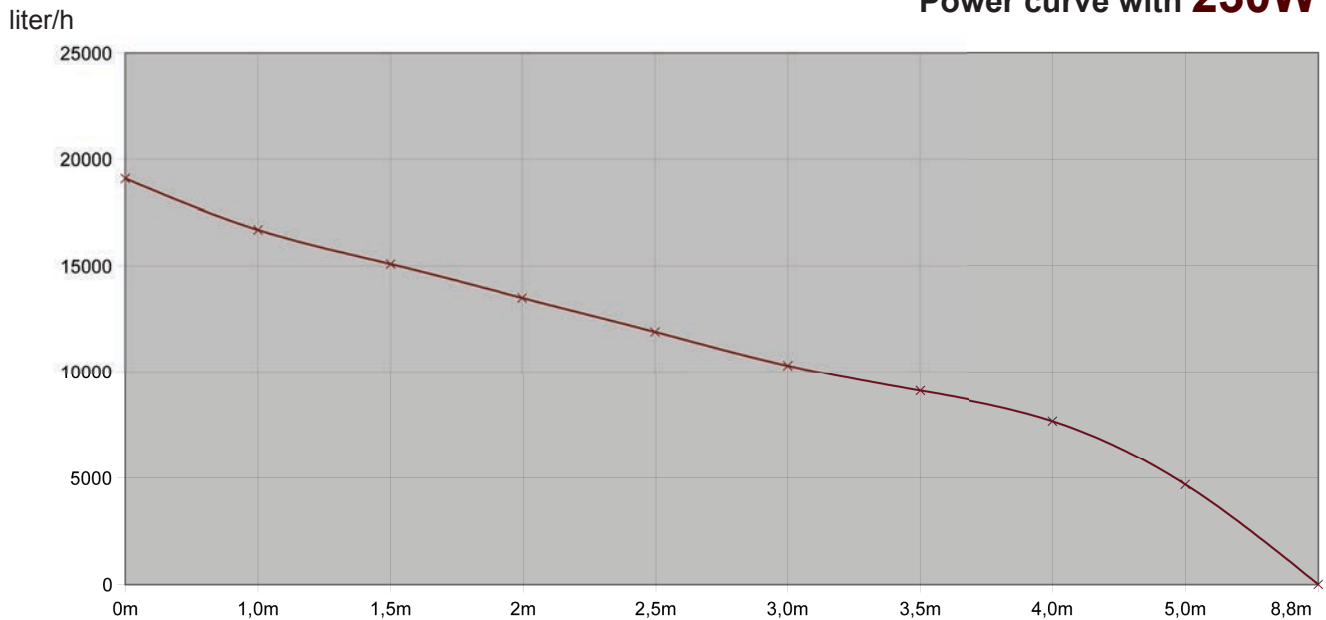
For more information, please visit [www.royal-exclusiv.de](http://www.royal-exclusiv.de). Simply enter the part number or name into the search box or email: [info@royal-exclusiv.de](mailto:info@royal-exclusiv.de).

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Red Dragon® 3 Speedy Pump 230 Watt / 19,0m³ // Power effective 235 ~ 240W // 48 dB 1 m distance external use

Power curve with **230W**



pressure height  
in meter

pressure height inch  
pressure height meter  
liter / hour  
gallons / hour

0"	39.37"	59.06"	78.74"	98.43"	118.1"	137.8"	157.5"	196.9"	246.5"
0m	1,0m	1,5m	2m	2,5m	3,0m	3,5m	4,0m	5,0m	8,8m(Max)
19100	16700	15100	13500	11900	10300	9100	7700	4700	0
5046	4412	3989	3566	3144	2721	2404	2034	1242	0



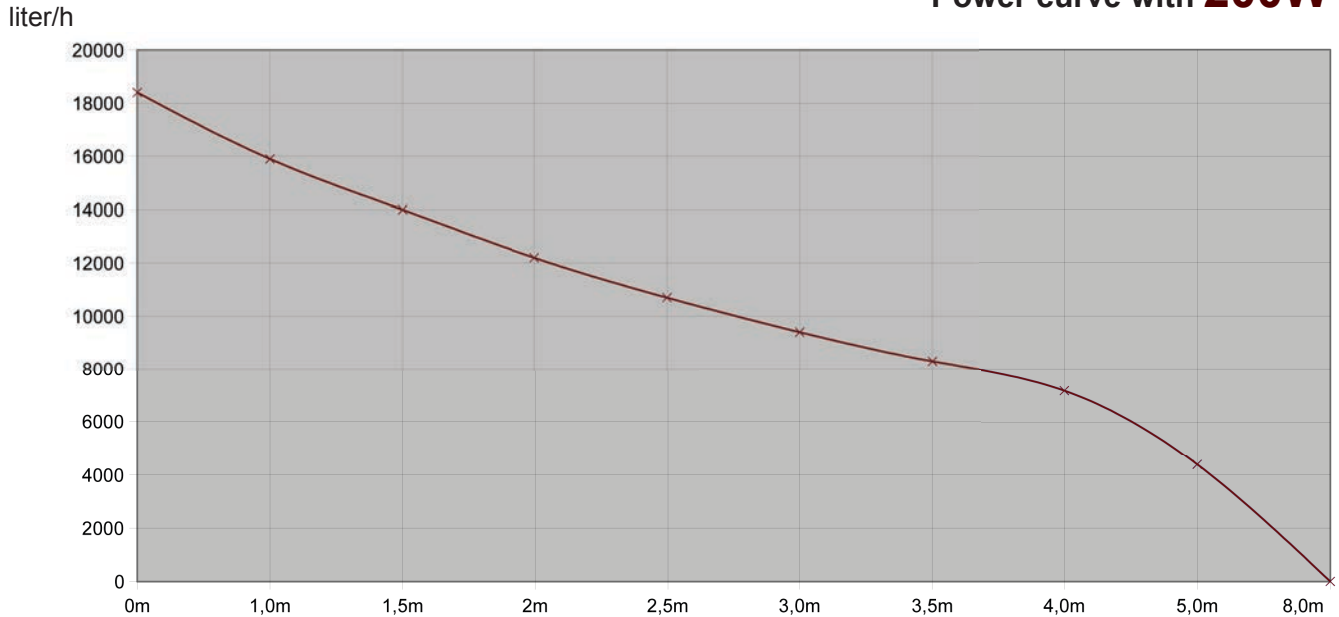
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Red Dragon® 3 Speedy Pump 230 Watt / 19,0m<sup>3</sup> // Power effective 202 ~ 207W // 47 dB 1 m distance external use

Power curve with **200W**



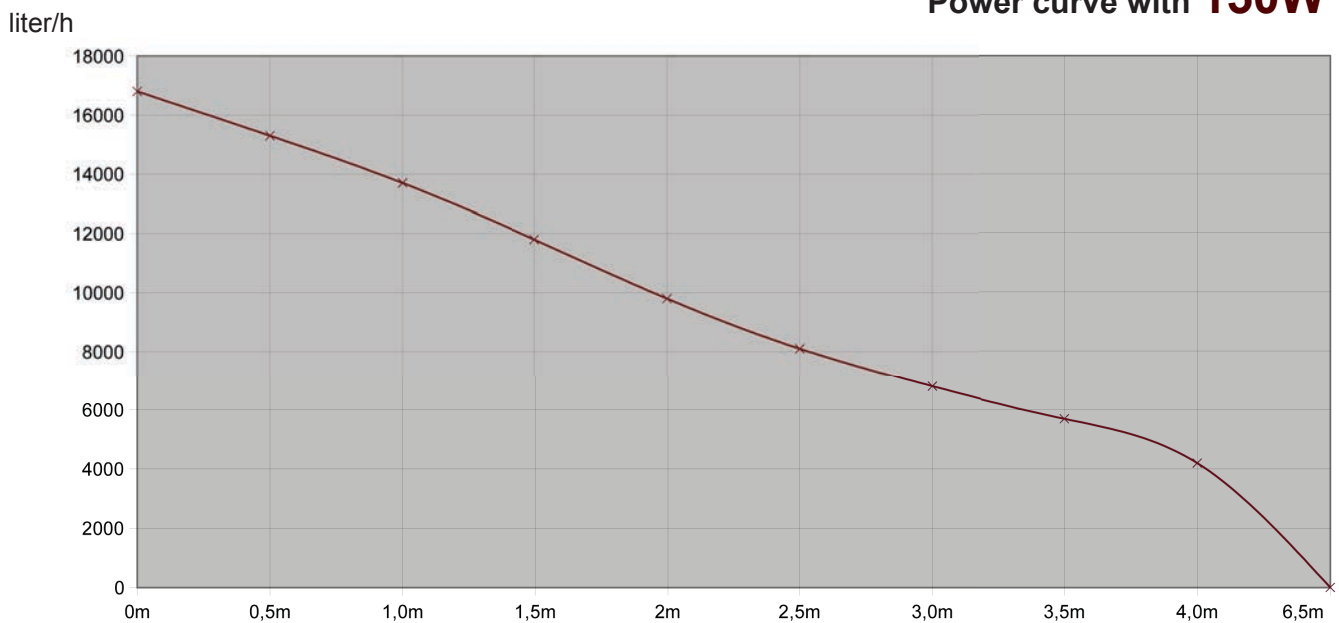
pressure height  
in meter

pressure height inch  
pressure height meter  
liter / hour  
gallons / hour

0"	39.37"	59.06"	78.74"	98.43"	118.1"	137.8"	157.5"	196.9"	315"
0m	1,0m	1,5m	2m	2,5m	3,0m	3,5m	4,0m	5,0m	8,0m(Max)
18400	15900	14000	12200	10700	9400	8300	7200	4400	0
4861	4200	3698	3223	2827	2483	2193	1902	1162	0

Red Dragon® 3 Speedy Pump 230 Watt / 19,0m<sup>3</sup> // Power effective 147 ~ 158W // 45 dB 1 m distance external use

Power curve with **150W**



pressure height  
in meter

pressure height inch  
pressure height meter  
liter / hour  
gallons / hour

0"	19.69"	39.37"	59.06"	78.74"	98.43"	118.1"	137.8"	157.5"	255.9"
0m	0,5m	1,0m	1,5m	2m	2,5m	3,0m	3,5m	4,0m	6,5m(Max)
16800	15300	13700	11800	9800	8100	6800	5700	4200	0
4438	4042	3619	3117	2589	2140	1796	1506	1110	0

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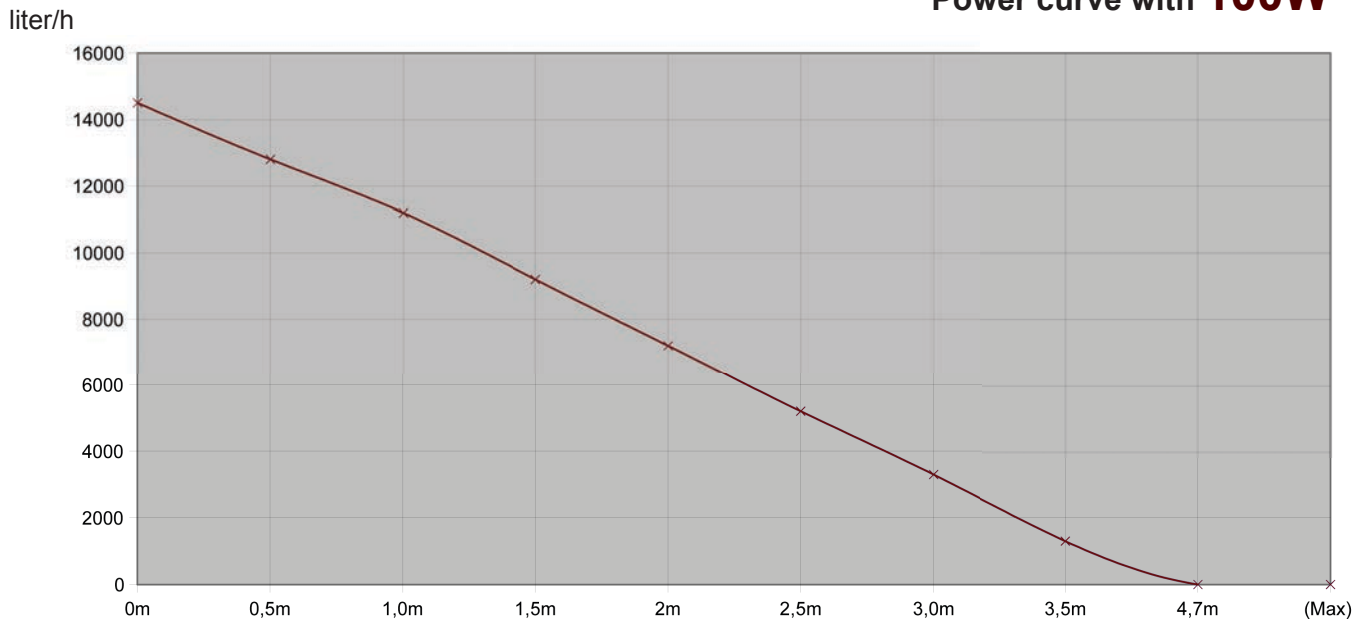


Since 1986



Red Dragon® 3 Speedy Pump 230 Watt / 19,0m³ // Power effective 93 ~ 105W // 41 dB 1 m distance external use

Power curve with **100W**



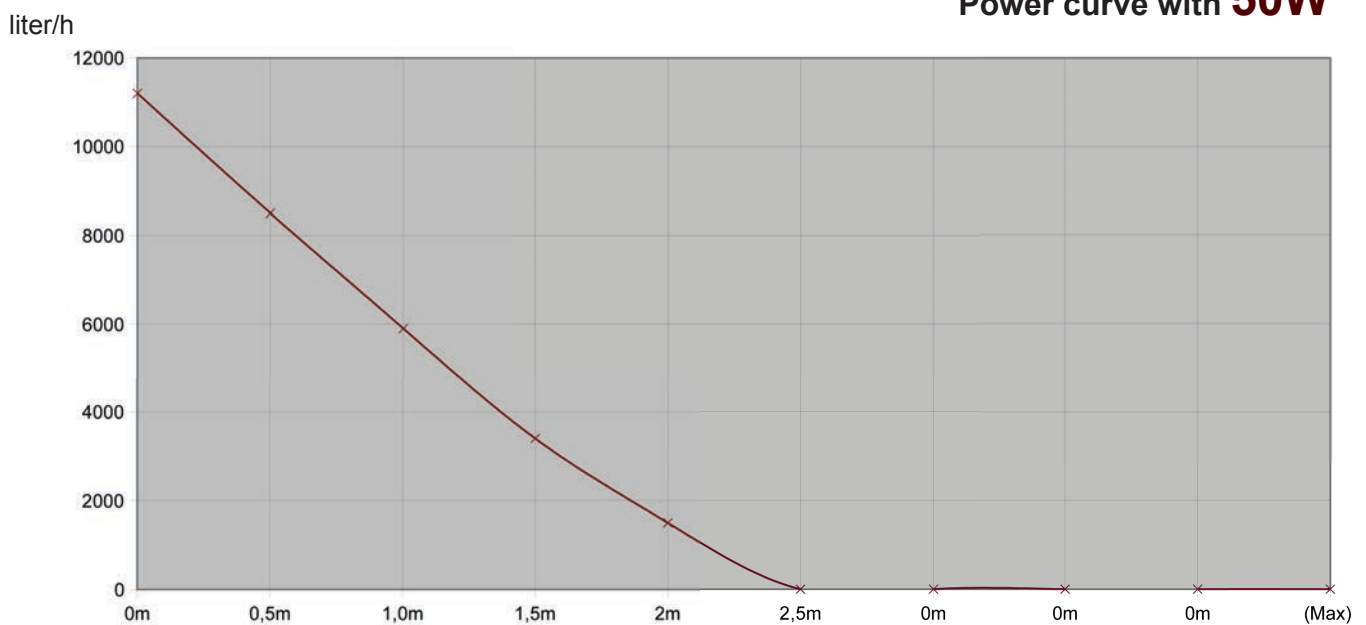
pressure height  
in meter

pressure height inch  
pressure height meter  
liter / hour  
gallons / hour

0"	19.69"	39.37"	59.06"	78.74"	98.43"	118.1"	137.8"	185.0"		
0m	0,5m	1,0m	1,5m	2m	2,5m	3,0m	3,5m	4,7m	(Max)	
3830	3381	2959	2430	1902	1374	872	343	0	0	

Red Dragon® 3 Speedy Pump 230 Watt / 19,0m³ // Power effective 45 ~ 53W // 39 dB 1 m distance external use

Power curve with **50W**



pressure height  
in meter

pressure height inch  
pressure height meter  
liter / hour  
gallons / hour

0"	19.69"	39.37"	59.06"	78.74"	98.42"	0"	0"	0"	0"	
0m	0,5m	1,0m	1,5m	2m	2,5m	0m	0m	0m	0m	(Max)
2959	2245	1559	898	396	0	0	0	0	0	0

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## Red Dragon® 3 Speedy pump 230 Watt / 19,0m<sup>3</sup> Product no.: 606/HP

<i>list of spare parts</i>	<i>Product.no. (110V)</i>	<i>(230V)</i>	<i>Price</i>
part motor-block 230W	606/30	606/30	478,88 €
controller (complete with power-plug-cable)	606/40/1	606/40/2	468,36 €
rotor complete 150/230W PRESSURE	606/20/HP	606/20/HP	208,40 €
o-ring for bearing plate Ø 85mm	603/ST3	603/ST3	4,97 €
AKB bypass hose (anti-Lime-bypass) red hose piece	606/35	606/35	6,16 €
titan screw 6x32mm	614/12	614/12	4,85 €
titan screw 6x80mm	606/50	606/50	13,63 €
screw connection complete Ø 50mm	175-50	175-50	7,63 €
screw connection complete Ø 63mm	175-63	175-63	11,60 €
o-ring for pump head Ø 95mm x 3mm	606/15	606/15	5,21 €
o-ring pressure side Ø 50mm	174-50	174-50	2,10 €
o-ring intake side Ø 63mm	174-63	174-63	2,43 €
rubber feet set = 4 pieces	180	180	4,42 €
rotor complete FLOW 230W	606/20	606/20	195,76 €
pump head FLOW AKB (anti-lime-bypass) GREY / Screw-con.	606/10	606/10	310,49 €
pump head HIGHPRESSURE AKB (anti-lime-bypass)	606/10/HP	606/10/HP	310,49 €

<i>accessories</i>	<i>Product.no. (110V)</i>	<i>(230V)</i>	<i>Price</i>
silicon anti-vibration pump head BLACK/GREY Intake 63mm	121-63-ext	121-63-ext	8,23 €
silicon anti-vibration pump head GREY Outtake 50mm	119-50	119-50	52,52 €
silicon anti-vibration pump head BLACK Outtake 50mm	120-50	120-50	42,00 €
silicon grease tube 6g	030/6	030/6	2,76 €
silicon grease tube 25g	030/25	030/25	8,29 €

<i>accessories</i>	<i>accessories</i>	<i>accessories</i>	<i>accessories</i>
			
silicon anti-vibration 63mm 121-63-ext	silicon anti-vibration 50mm for pump head GREY 119-50	silicon anti-vibratio 50mm for pump head BLACK 120-50	silicon grease tube 6g 030-6

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## Red Dragon® 3 Speedy pump 230 Watt / 19,0m<sup>3</sup> Product no.: 606/HP

spare part



part motor-block 230W  
606/30

spare part



controller (complete)  
606/40-x

spare part



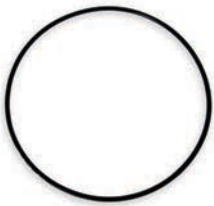
rotor complete 230W  
PRESSURE version  
606/20/HP

spare part



pump head PRESSURE  
GREY with AKB 63/40mm  
606/10/HP

spare part



o-ring for bearing plate  
Ø 85mm  
603/ST3

spare part



AKB (anti-lime-bypass)  
piece red hose  
606/35

spare part



titan screw 6x32mm  
614/12

spare part



titan screw 6x80mm  
606/50

spare part



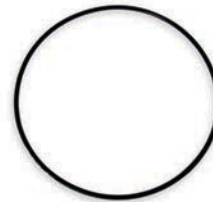
screw connection  
complete 50mm with o-ring  
175-50

spare part



screw connection  
complete 63mm with o-ring  
175-63

spare part



o-ring for pump head  
Ø 95mm  
606/15

spare part



o-ring 50mm  
174-50

spare part



o-ring 63mm  
174-63

spare part



rubber feet set = 4 pieces  
180

spare part // optional



rotor complete 230W  
FLOW  
606/20

spare part // optional



pump head FLOW GREY  
with AKB 63/50mm  
606/10

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