

*Royal Exclusiv pumps & skimmers*

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Since 1986



## Data sheet and list of spare parts for Red Dragon® 3 flow-pump

For all Red Dragon® 3 Speedy 150 Watt / 18,0m<sup>3</sup> pumps

v3.0

**ENG**





**Data sheet and power curve for flow pump with adjustable speed motor**

**Red Dragon® 3 Speedy pump 150 Watt / 18,0m<sup>3</sup> Product no.: 605 1.057,75 €**

**Technical data Red Dragon® 3 Speedy pump 150 Watt / 18,0m<sup>3</sup>:**

Performance: 18.100 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 50 mm  
Wattage: adjustable max. 150 Watt (min. 20W, in 2 W steps)  
Pressure height: max. 5,75 meter  
Material/color: PVC black/red/grey with screw connection  
Operating voltage: 230 Volt 50 Hz (also in 110V/60Hz available)  
Noise level: 39 - 45 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 / 290 mm length / 210 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=150W. So 1V = 20W ..... 9V = 150W. 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.

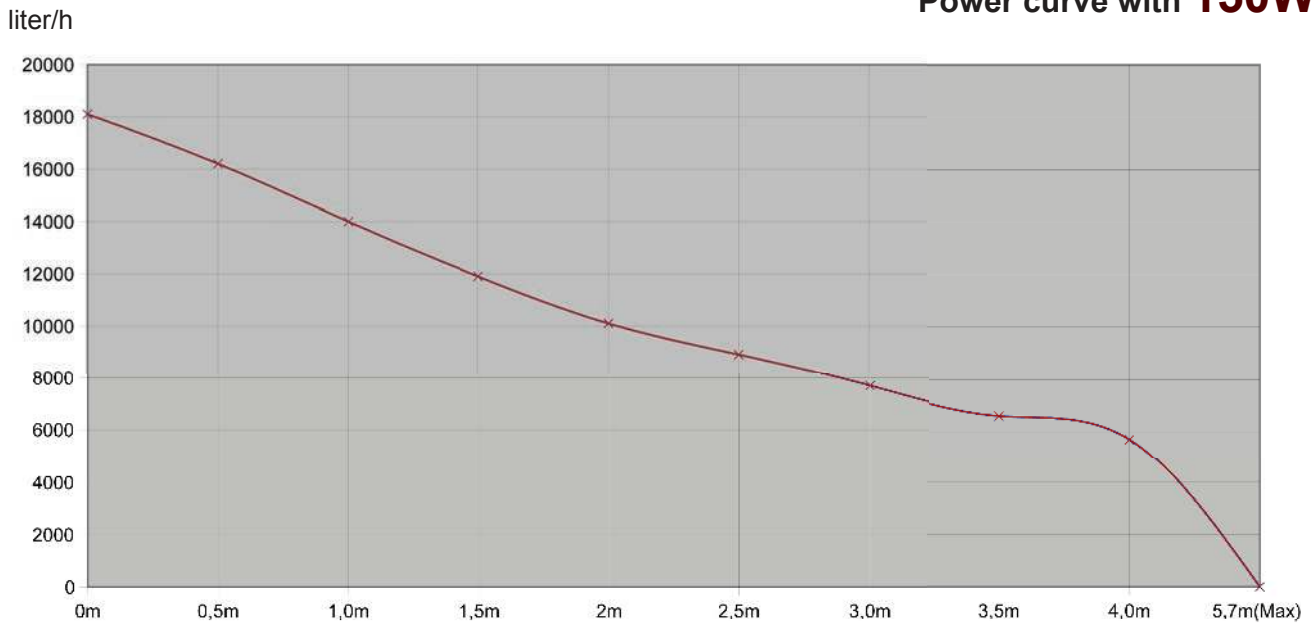
For more information, please visit [www.royal-exclusiv.de](http://www.royal-exclusiv.de). Simply enter the part number or name into the search box or email: [info@royal-exclusiv.de](mailto:info@royal-exclusiv.de).

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Red Dragon® 3 Speedy Pump 150 Watt / 18,0m³ // Power effective 150 ~ 155W // 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"	224.4"
0m	0,5m	1,0m	1,5m	2m	2,5m	3,0m	3,5m	4,0m	5,7m(Max)
18100	16200	14000	11900	10100	8900	7700	6600	5700	0
4782	4280	3698	3144	2668	2351	2034	1744	1506	0



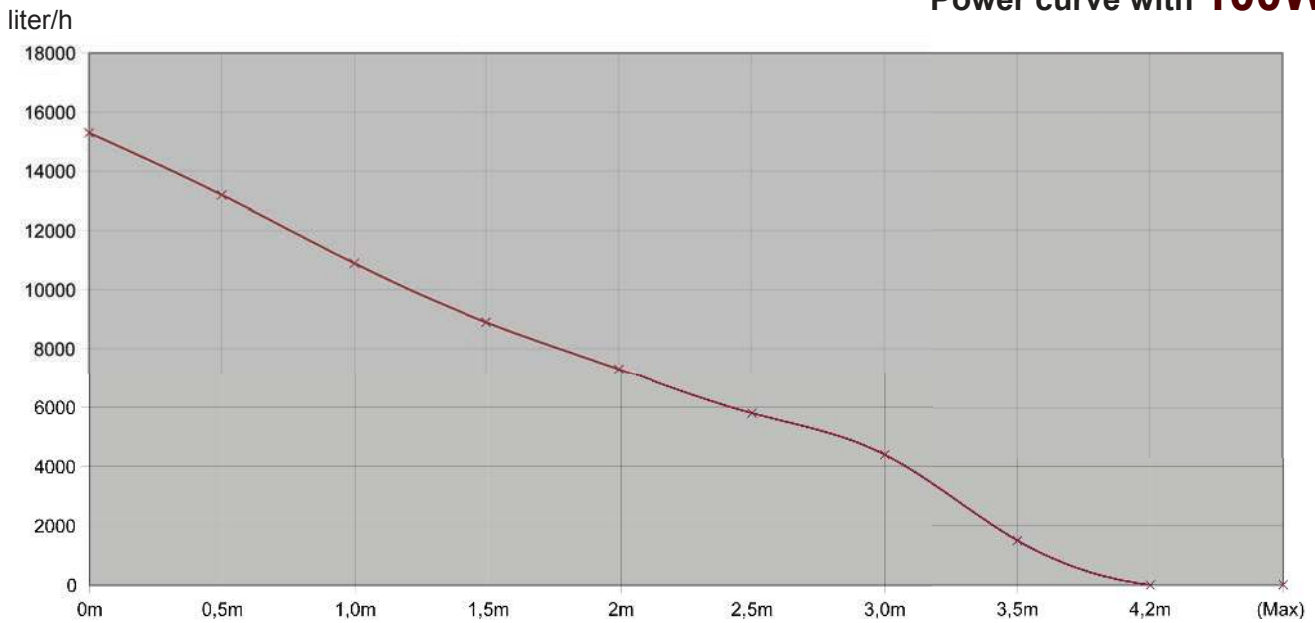
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Red Dragon® 3 Speedy Pump 150 Watt / 18,0m<sup>3</sup> // Power effective 102 ~ 107W // 43 dB 1 m distance external use

Power curve with **100W**



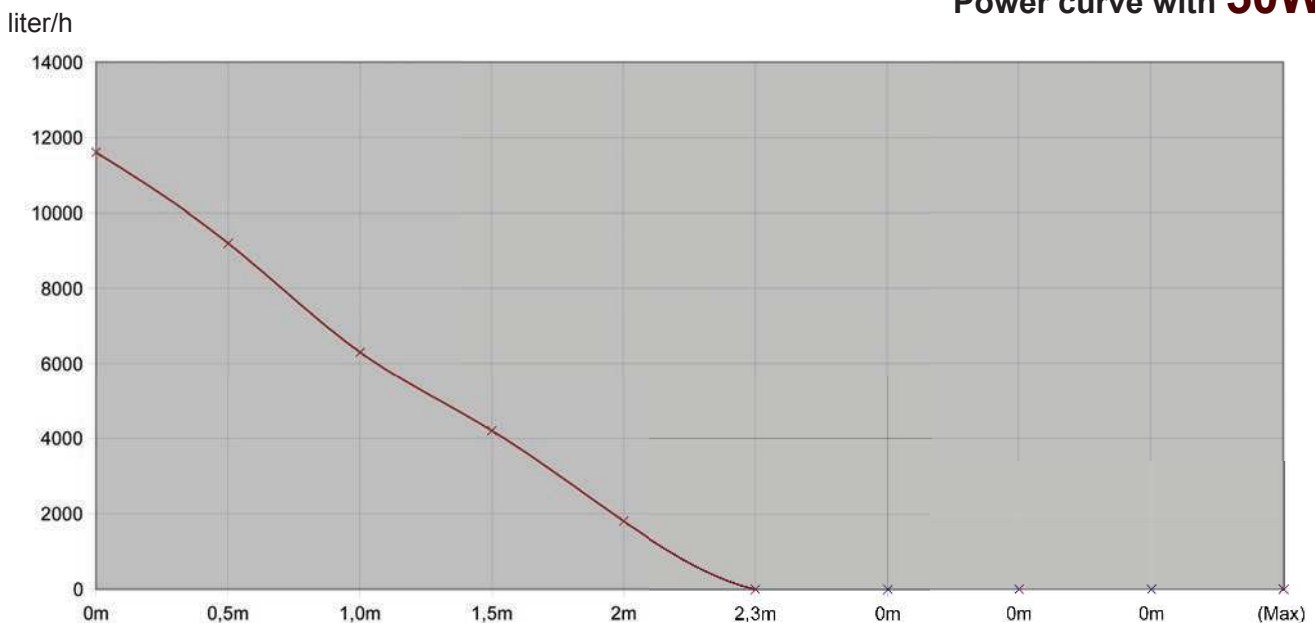
pressure height  
in meter

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"	165.4"		
0m	0,5m	1,0m	1,5m	2m	2,5m	3,0m	3,5m	4,2m	(Max)	

Red Dragon® 3 Speedy Pump 150 Watt / 18,0m<sup>3</sup> // Power effective 51 ~ 56W // 40 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"	90.55"	0"	0"	0"		
0m	0,5m	1,0m	1,5m	2m	2,3m	0m	0m	0m	(Max)	

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## Red Dragon® 3 Speedy pump 150 Watt / 18,0m<sup>3</sup> Product no.: 605

<b>list of spare parts</b>	<b>Product.no. (110V)</b>	<b>(230V)</b>	<b>Price</b>
part motor-block 150/230W		606/30	<b>478,88 €</b>
controller for 150W (complete with power-plug-cable)	605/40/1	605/40/2	<b>447,31 €</b>
rotor complete 150/230W FLOW		606/20	<b>195,76 €</b>
pump head with AKB (anti-lime-bypass) GREY / Screw-con.		605/10	<b>310,49 €</b>
rubber feet set = 4 pieces		180	<b>4,42 €</b>
AKB bypass hose (anti-Lime-bypass) red hose piece		606/35	<b>6,16 €</b>
titan screw 6x32mm		614/12	<b>4,85 €</b>
titan screw 6x80mm		606/50	<b>13,63 €</b>
screw connection complete Ø 40mm		175-40	<b>7,19 €</b>
screw connection complete Ø 50mm		175-50	<b>7,63 €</b>
o-ring for pump head Ø 95mm x 3mm		606/15	<b>5,21 €</b>
o-ring intake side Ø 40mm		174-40	<b>1,87 €</b>
o-ring pressure side Ø 50mm		174-50	<b>2,10 €</b>
o-ring for bearing plate Ø 85mm		603/ST3	<b>4,97 €</b>
rotor complete 150/230W PRESSURE		606/20/HP	<b>208,40 €</b>

<b>accessories</b>	<b>Product.no. (110V)</b>	<b>(230V)</b>	<b>Price</b>
silicon anti-vibration pump head GREY Intake 50mm		119-50	<b>52,52 €</b>
silicon anti-vibration pump head GREY Outtake 40mm		119-40	<b>42,00 €</b>
silicon grease tube 6g		030/6	<b>2,76 €</b>
silicon grease tube 25g		030/25	<b>8,29 €</b>

accessories



silicon anti-vibration 50mm  
for pump head GREY  
**119-50**

accessories



silicon anti-vibration 40mm  
for pump head GREY  
**119-40**

accessories



silicon grease tube 6g  
**030-6**

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## Red Dragon® 3 Speedy pump 150 Watt / 18,0m<sup>3</sup> Product no.: 605

spare part



part motor-block 150/230W  
606/30

spare part



controller 150W (complete)  
605/40-x

spare part



rotor complete 150/230W  
FLOW version  
606/20

spare part



pump head GREY 40/50  
with AKB (anti-lime-bypass)  
605/10

spare part



rubber feet set = 4 pieces  
180

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



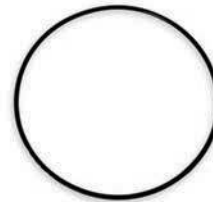
screw connection  
complete 40mm with o-ring  
175-40

spare part



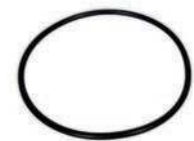
screw connection  
complete 50mm with o-ring  
175-50

spare part



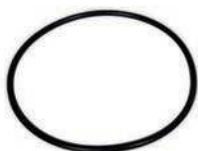
o-ring for pump head  
Ø 95mm  
606/15

spare part



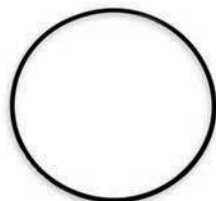
o-ring 40mm  
174-40

spare part



o-ring 50mm  
174-50

spare part



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

spare part // optional



rotor complete 150/230W  
PRESSURE version  
606/20/HP

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