

Royal Exclusiv pumps & skimmers

Vorgebirgsstr. 28 // 50389 Wesseling // Germany

Fon +49(0)2236/88055-0 // Fax +49(0)2236/88055-20

info@royal-exclusiv.de // www.royal-exclusiv.de



Since 1986



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

For all Red Dragon® 3 Speedy 230 Watt / 24,0m³ pumps

v4.0

ENG





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

Red Dragon® 3 Speedy pump 230 Watt / 24,0m³

Product no.: 606

1.220,90 €

Technical data Red Dragon® 3 Speedy pump 230 Watt / 24,0m³:

Performance: 24.200 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 50 mm Intake side: Ø 63 mm

Wattage: adjustable max. 230 Watt (min. 20W)

Pressure height: max. 6,75 meter

Material/color: PVC black/red/grey with screw connection

Operating voltage: 230 Volt 50 Hz (*also in 110V/60Hz available*)

Noise level: 39 - 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. Simply enter the part number or name into the search box or email: info@royal-exclusiv.de.

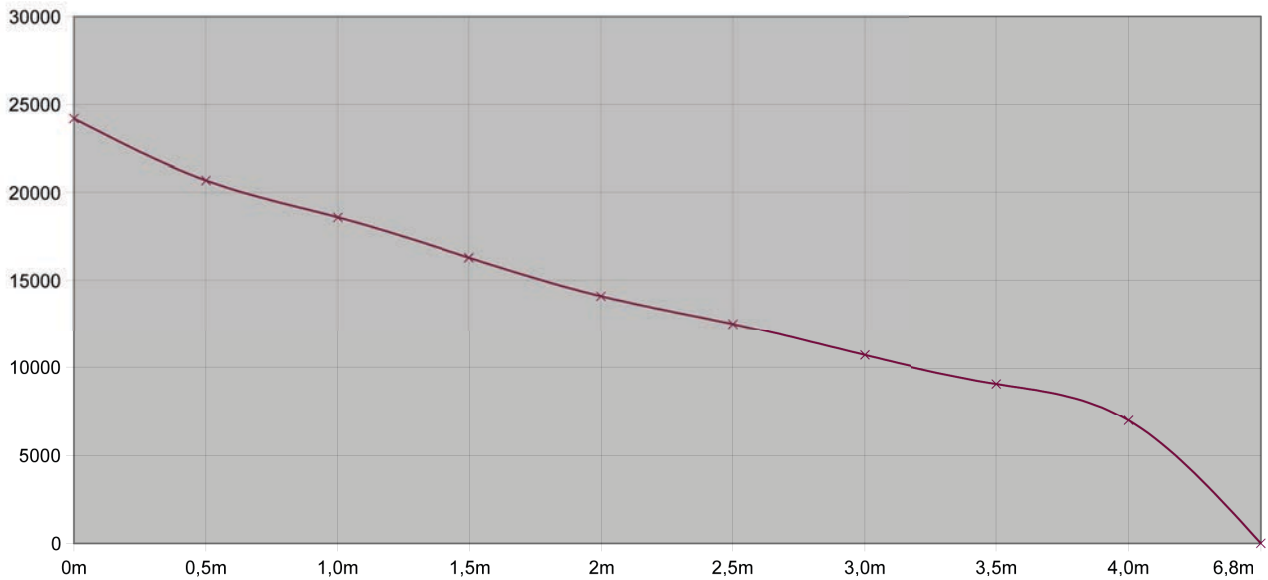
All information subject to change. We try our best, but printing errors reserved.



Red Dragon® 3 Speedy Pump 230 Watt / 24,0m³ // Power effective 235 ~ 240W // 47 dB 1 m distance external use

Power curve with **230W**

liter/h



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" | 267.7" |
| 0m | 0,5m | 1,0m | 1,5m | 2m | 2,5m | 3,0m | 3,5m | 4,0m | 6,8m(Max) |
| 24200 | 20700 | 18600 | 16300 | 14100 | 12500 | 10700 | 9100 | 7000 | 0 |
| 6393 | 5468 | 4914 | 4306 | 3725 | 3302 | 2827 | 2404 | 1849 | 0 |



For more information, please visit www.royal-exclusiv.de. Simply enter the part number or name into the search box or email: info@royal-exclusiv.de.

All information subject to change. We try our best, but printing errors reserved.

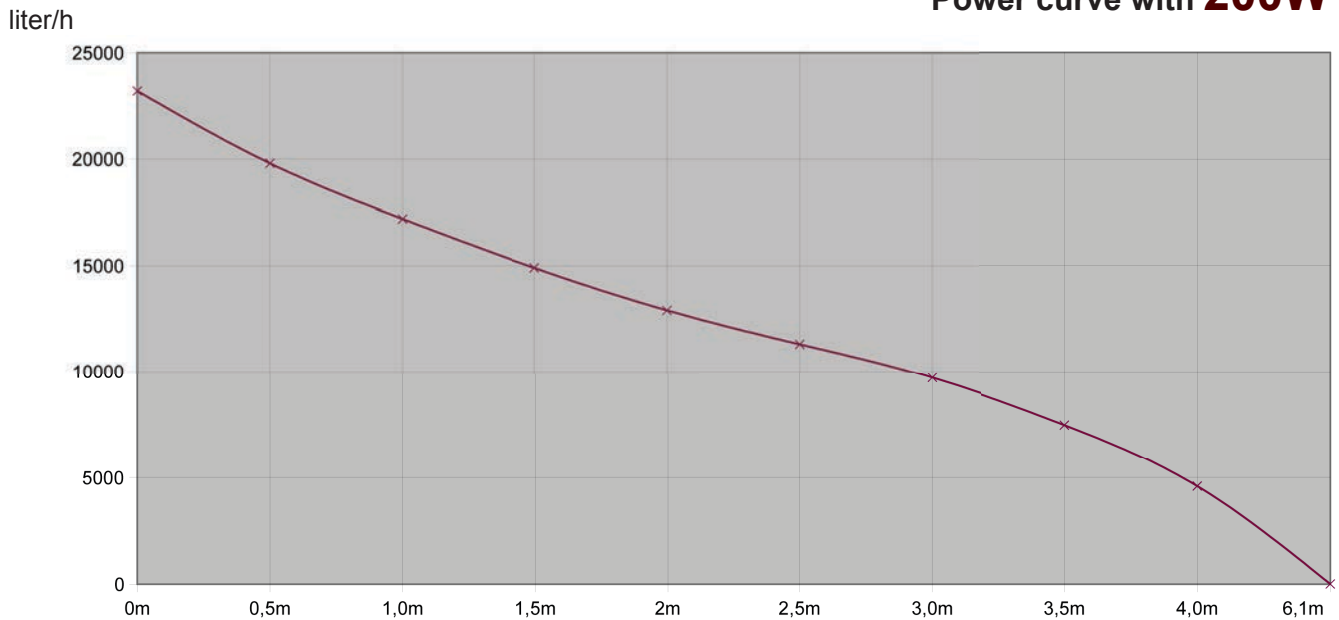


Since 1986



Red Dragon® 3 Speedy Pump 230 Watt / 24,0m³ // Power effective 202 ~ 207W // 47 dB 1 m distance external use

Power curve with **200W**



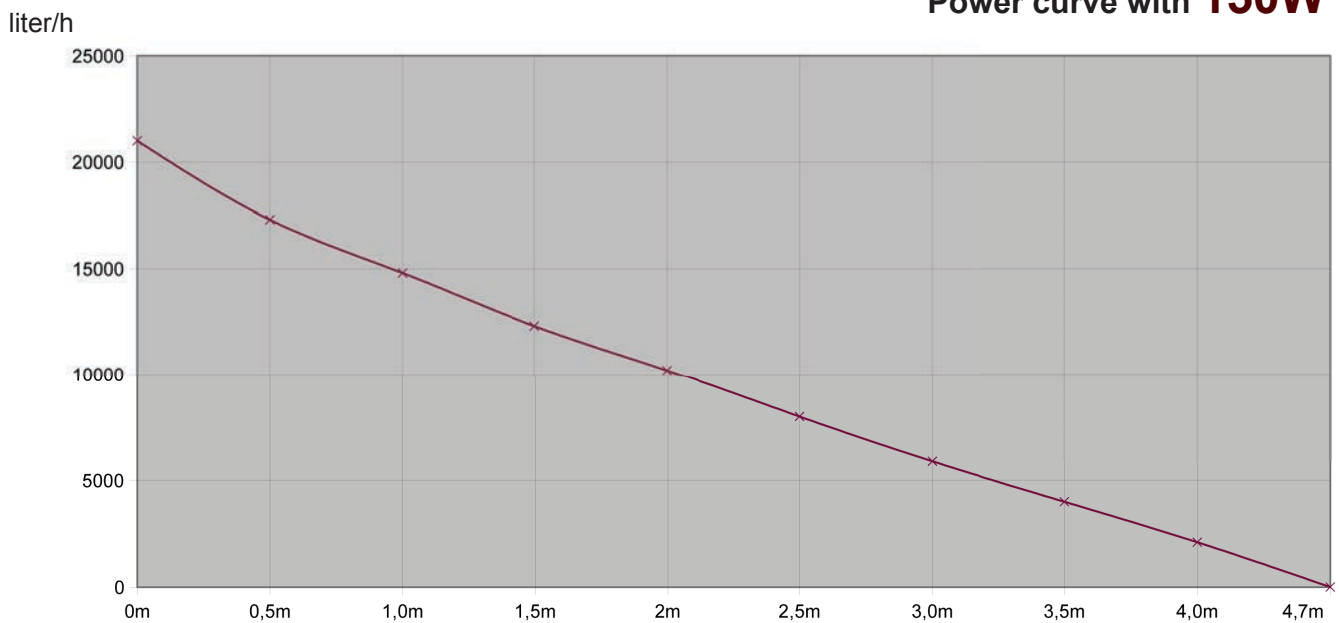
pressure height
in meter

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

| | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| 0" | 19.69" | 39.37" | 59.06" | 78.74" | 98.43" | 118.1" | 137.8" | 157.5" | 240.2" |
| 0m | 0,5m | 1,0m | 1,5m | 2m | 2,5m | 3,0m | 3,5m | 4,0m | 6,1m(Max) |
| 23200 | 19800 | 17200 | 14900 | 12900 | 11300 | 9700 | 7500 | 4600 | 0 |
| 6129 | 5231 | 4544 | 3936 | 3408 | 2985 | 2562 | 1981 | 1215 | 0 |

Red Dragon® 3 Speedy Pump 230 Watt / 24,0m³ // 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" | 185.0" |
| 0m | 0,5m | 1,0m | 1,5m | 2m | 2,5m | 3,0m | 3,5m | 4,0m | 4,7m(Max) |
| 21000 | 17300 | 14800 | 12300 | 10200 | 8000 | 5900 | 4000 | 2100 | 0 |
| 5548 | 4570 | 3910 | 3249 | 2695 | 2113 | 1559 | 1057 | 555 | 0 |

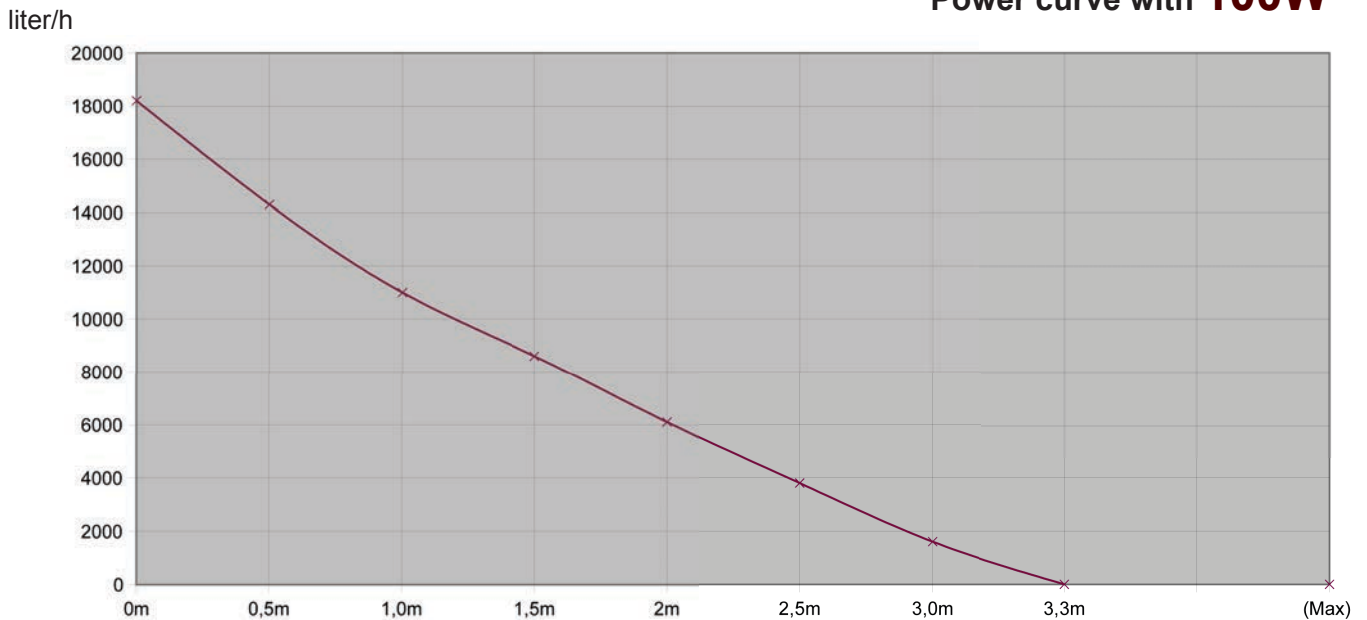
For more information, please visit www.royal-exclusiv.de. Simply enter the part number or name into the search box or email: info@royal-exclusiv.de.

All information subject to change. We try our best, but printing errors reserved.



Red Dragon® 3 Speedy Pump 230 Watt / 24,0m³ // Power effective 93 ~ 105W // 42 dB 1 m distance external use

Power curve with **100W**



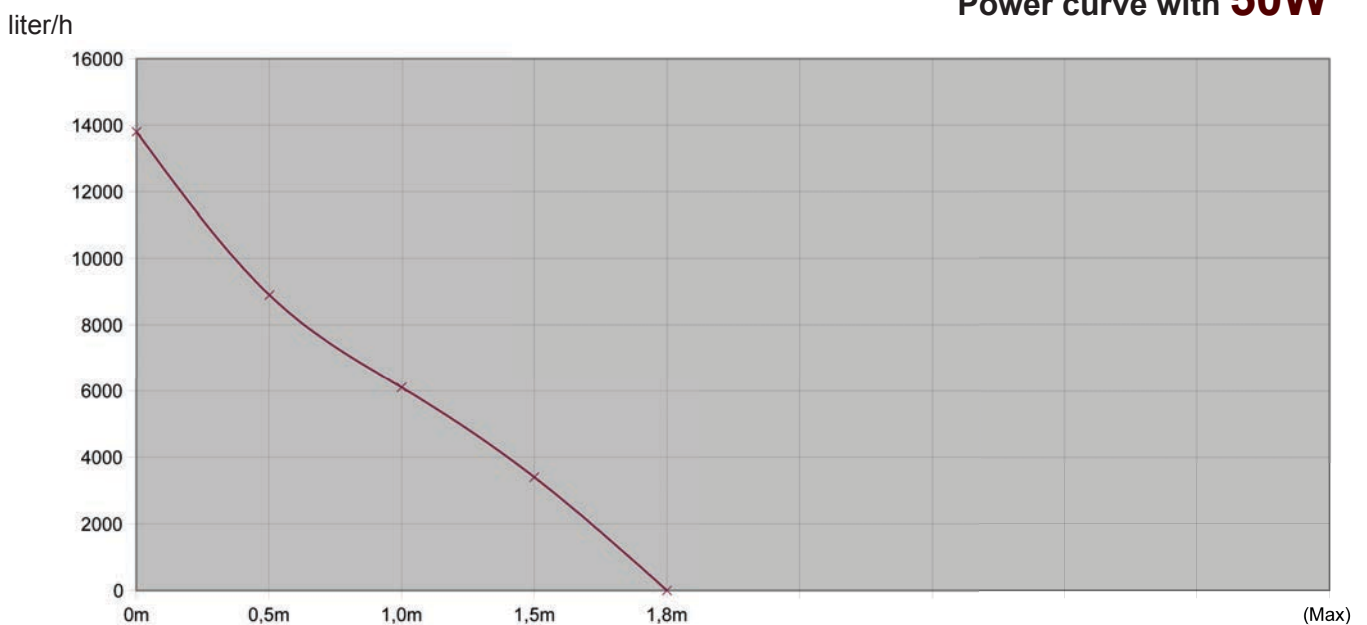
pressure height
in meter

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

| | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--|-------|
| 0" | 19.69" | 39.37" | 59.06" | 78.74" | 98.43" | 118.1" | 129.9" | | |
| 0m | 0,5m | 1,0m | 1,5m | 2m | 2,5m | 3,0m | 3,3m | | (Max) |
| 18200 | 14300 | 11000 | 8600 | 6100 | 3800 | 1600 | 0 | | 0 |
| 4808 | 3778 | 2906 | 2272 | 1611 | 1004 | 423 | 0 | | 0 |

Red Dragon® 3 Speedy Pump 230 Watt / 24,0m³ // 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" | 70.87" | | |
| 0m | 0,5m | 1,0m | 1,5m | 1,8m | | (Max) |
| 13800 | 8900 | 6100 | 3400 | 0 | | 0 |
| 3646 | 2351 | 1611 | 898 | 0 | | 0 |

For more information, please visit www.royal-exclusiv.de. Simply enter the part number or name into the search box or email: info@royal-exclusiv.de.

All information subject to change. We try our best, but printing errors reserved.

Red Dragon® 3 Speedy pump 230 Watt / 24,0m³ Product no.: 606

| <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 230W FLOW | 606/20 | 606/20 | 195,76 € |
| pump head FLOW AKB (anti-lime-bypass) GREY / Screw-con. | 606/10 | 606/10 | 310,49 € |
| 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 150/230W PRESSURE | 606/20/HP | 606/20/HP | 208,40 € |
| pump head PRESSURE AKB (anti-lime-bypass) GREY / Screw-con. | 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 € |

accessories



silicon anti-vibration 63mm
121-63-ext

accessories



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

accessories



silicon anti-vibratio 50mm
for pump head BLACK
120-50

accessories





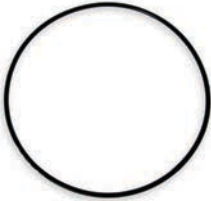





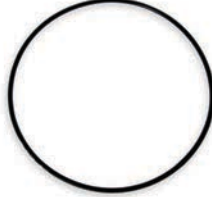







silicon grease tube 6g
030-6

For more information, please visit www.royal-exclusiv.de. Simply enter the part number or name into the search box or email: info@royal-exclusiv.de.

All information subject to change. We try our best, but printing errors reserved.

Red Dragon® 3 Speedy pump 230 Watt / 24,0m³ Product no.: 606

| | | | |
|---|---|--|---|
| <i>spare part</i> | <i>spare part</i> | <i>spare part</i> | <i>spare part</i> |
|  |  |  |  |
| part motor-block 230W 606/30 | controller (complete) 606/40-x | rotor complete 230W FLOW 606/20 | pump head FLOW GREY with AKB 63/50mm 606/10 |
| <i>spare part</i> | <i>spare part</i> | <i>spare part</i> | <i>spare part</i> |
|  |  |  |  |
| o-ring for bearing plate Ø 85mm 603/ST3 | AKB (anti-lime-bypass) piece red hose 606/35 | titan screw 6x32mm 614/12 | titan screw 6x80mm 606/50 |
| <i>spare part</i> | <i>spare part</i> | <i>spare part</i> | <i>spare part</i> |
|  |  |  |  |
| screw connection complete 50mm with o-ring 175-50 | screw connection complete 63mm with o-ring 175-63 | o-ring for pump head Ø 95mm 606/15 | o-ring 50mm 174-50 |
| <i>spare part</i> | <i>spare part</i> | <i>spare part // optional</i> | <i>spare part // optional</i> |
|  |  |  |  |
| o-ring 63mm 174-63 | rubber feet set = 4 pieces 180 | rotor complete 230W PRESSURE version 606/20/HP | pump head PRESSURE GREY with AKB 63/40mm 606/10/HP |

For more information, please visit www.royal-exclusiv.de. Simply enter the part number or name into the search box or email: info@royal-exclusiv.de.

All information subject to change. We try our best, but printing errors reserved.