

*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 / 24,0m<sup>3</sup> pumps

v3.0

**ENG**





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

**Red Dragon® 3 Speedy pump 230 Watt / 24,0m³**    **Product no.: 606**    **1150,00 €**

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

Performance:            24.200 liter / h  
 Cable length:         0,8 meter (plug controller)  
                                3,8 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 purging
  - 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.

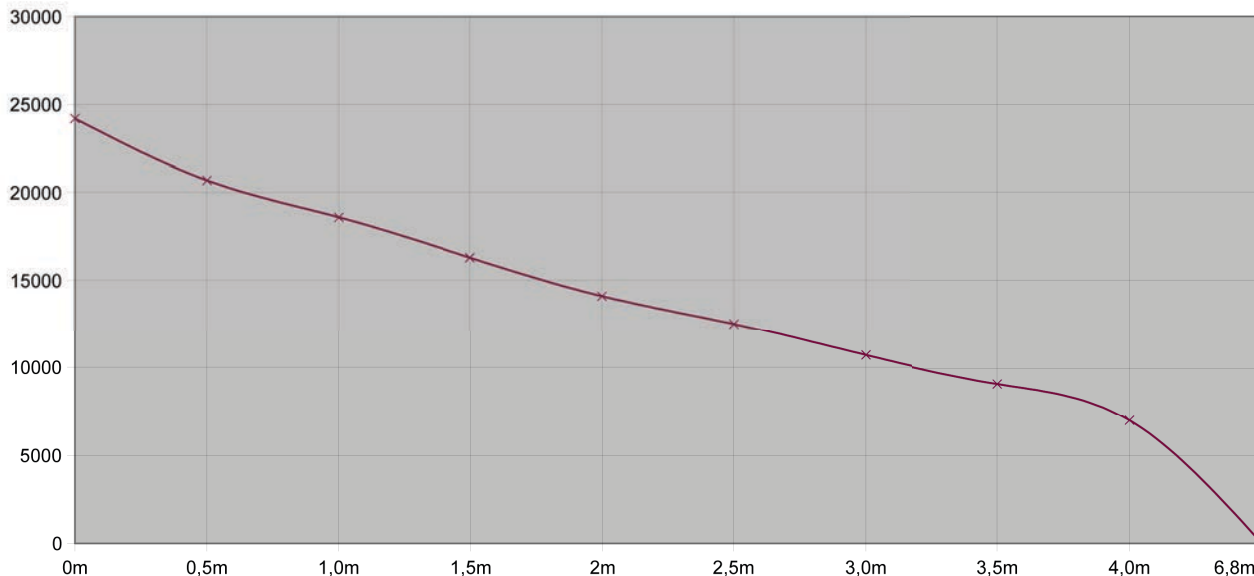
At a higher input voltage remains the Speedycontroller to the maximum setting are available and no longer increases. The interface adapter behaves as if the corresponding would push the button.

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).  
 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](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).

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



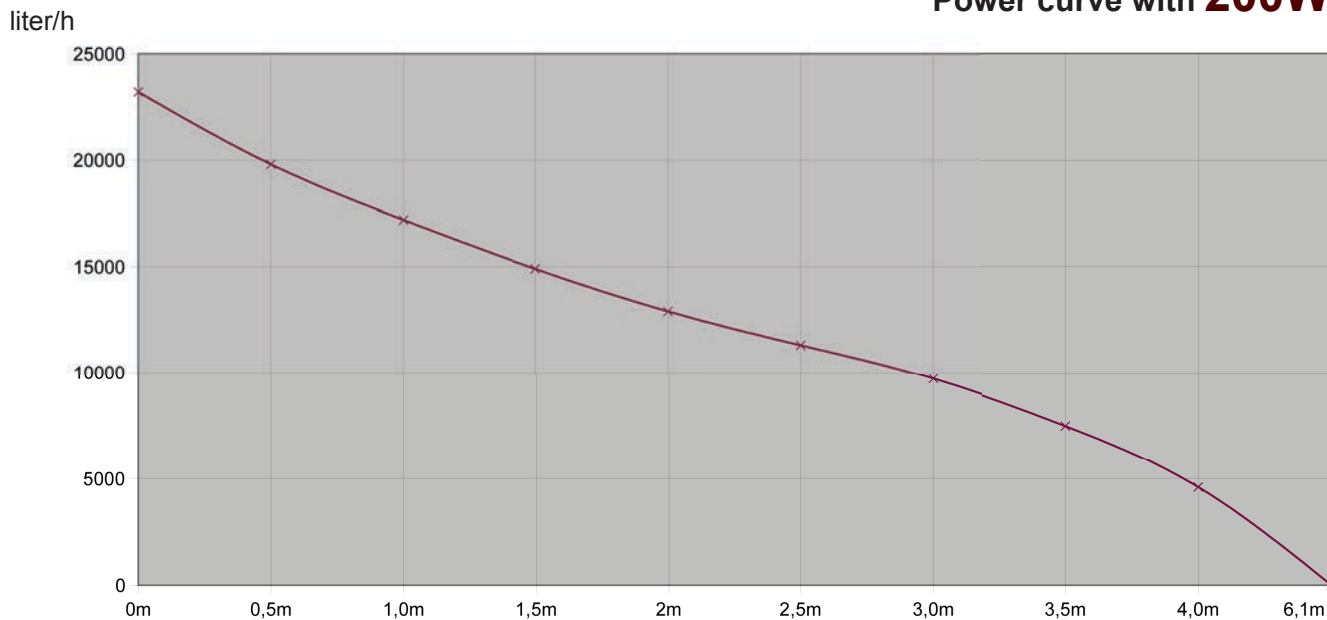


Since 1986



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

Power curve with **200W**



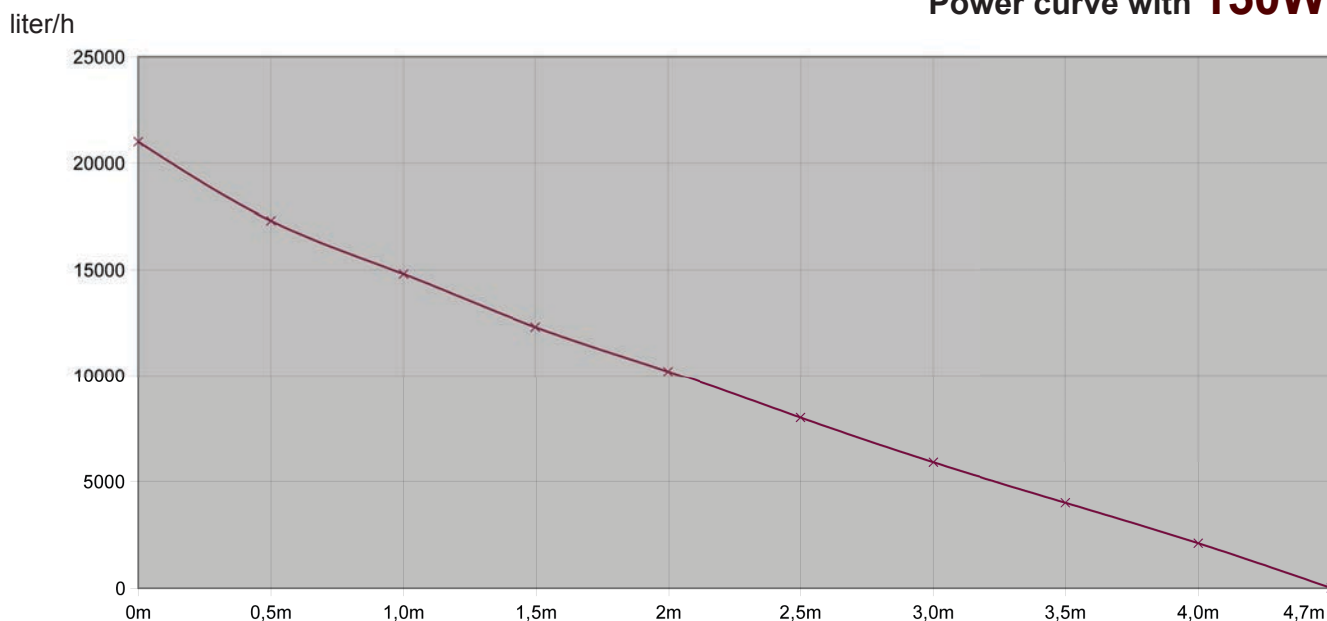
pressure height  
in meter

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)
liter / hour	19800	17200	14900	12900	11300	9700	7500	4600	0
gallons / hour	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)
liter / hour	17300	14800	12300	10200	8000	5900	4000	2100	0
gallons / hour	4570	3910	3249	2695	2113	1559	1057	555	0

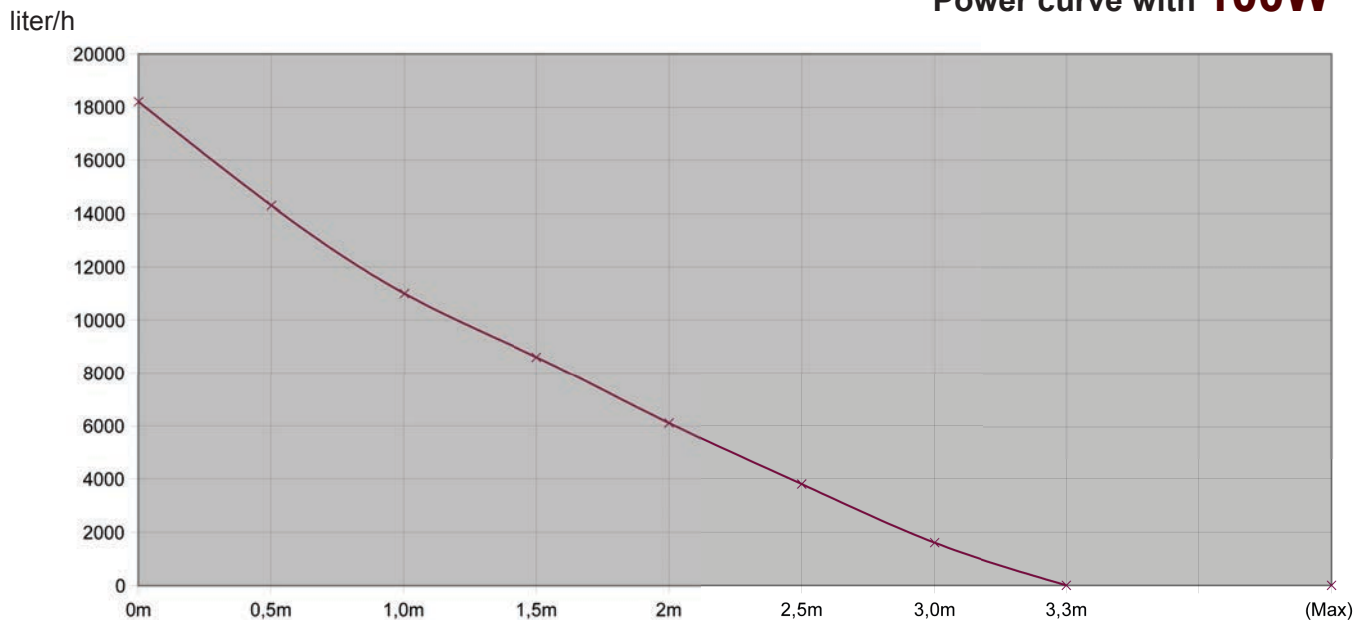
For more information, please visit [www.royal-exclusiv.de](http://www.royal-exclusiv.de). Simply enter the part number or name into the search box or email: [info@royal-exclusiv.de](mailto:info@royal-exclusiv.de).

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**



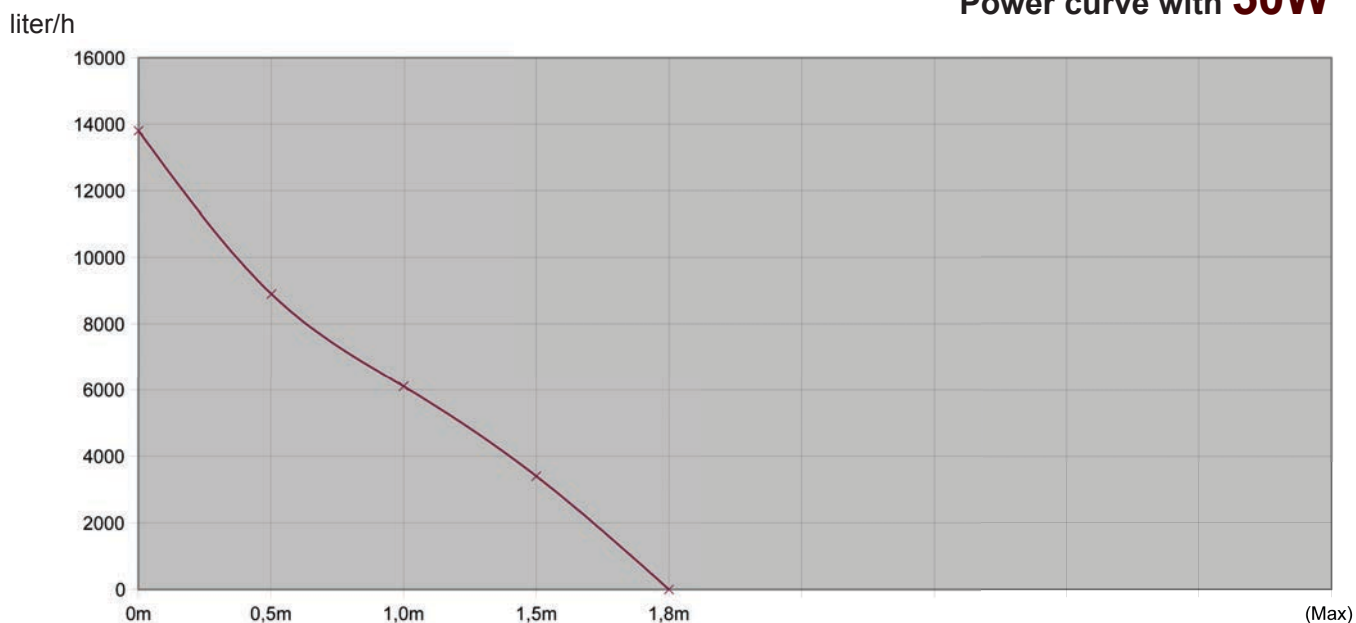
pressure height  
in meter

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"						(Max)
0m	0,5m	1,0m	1,5m	1,8m						0
13800	8900	6100	3400	0						0
3646	2351	1611	898	0						0

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).

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

## Red Dragon® 3 Speedy pump 230 Watt / 24,0m<sup>3</sup> 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	455,00 €
controller (complete with power-plug-cable)	606/40/1	606/40/2	445,00 €
rotor complete 230W FLOW	606/20	606/20	186,00 €
pump head FLOW AKB (anti-lime-bypass) GREY / Screw-con.	606/10	606/10	295,00 €
pump head FLOW AKB (anti-lime-bypass) BLACK / socket	606/12	606/12	275,00 €
AKB bypass hose (anti-Lime-bypass) red hose piece	606/35	606/35	5,85 €
titan screw 6x32mm	614/12	614/12	4,61 €
titan screw 6x80mm	606/50	606/50	12,95 €
screw connection complete Ø 50mm	175-50	175-50	7,25 €
screw connection complete Ø 63mm	175-63	175-63	11,02 €
o-ring for pump head Ø 95mm x 3mm	606/15	606/15	4,95 €
o-ring pressure side Ø 50mm	174-50	174-50	2,00 €
o-ring intake side Ø 63mm	174-63	174-63	2,31 €
rubber feet set = 4 pieces	180	180	4,20 €
rotor complete 150/230W PRESSURE	606/20/HP	606/20/HP	198,00 €
pump head PRESSURE AKB (anti-lime-bypass) GREY / Screw-con.	606/10/HP	606/10/HP	295,00 €

<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	7,82 €
silicon anti-vibration pump head GREY Outtake 50mm	119-50	119-50	49,90 €
silicon anti-vibration pump head BLACK Outtake 50mm	120-50	120-50	39,90 €
silicon grease tube 6g	030/6	030/6	2,63 €
silicon grease tube 25g	030/25	030/25	7,88 €

*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 2,63 €

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).

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

## Red Dragon® 3 Speedy pump 230 Watt / 24,0m<sup>3</sup> Product no.: 606

spare part



part motor-block 230W  
606/30

spare part



controller (complete)  
606/40-x

spare part



rotor complete 230W  
FLOW  
606/20

spare part



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

spare part



pump head BLACK with  
AKB (anti-lime-bypass)  
606/12

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



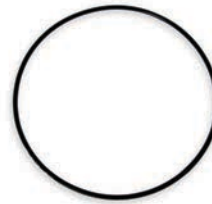
screw connection  
complete 50mm with o-ring  
175-50

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  
PRESSURE version  
606/20/HP

spare part // optional



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

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).

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