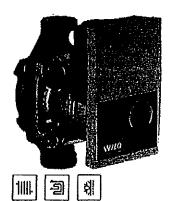


Series description Wilo-Yonos PARA Red Knob 15/6, 20/6, 25/6, 30/6





Design

Glandless cliculation pump with cast fron pump housing and threaded connection. EC-motor with automatic power adjustment and self-protecting modes. Operation by Red Knob technology and delivered with power cable.

Application

Hot-water heating systems of all kinds, cooling applications

Type key

rype key	
Example:	Wilo-Yonos PARA RS 15/6 RKA FS 130 12 I
Yonos	Electronically controlled high-efficiency pump
PARA	pump range adapted to requirements of the OEM market
RS	Heating inline cast fron pump housing
15/	Nominal diameter: 15 threading 1° 20 threading 1 ¼ " 25 threading 1 ¼" 30 threading 2"
6	Max delivery height in [m] at $Q = 0 \text{ m}^3/h$
RKA	The pump is controlled by Red Knob technology: $\Delta P - v / \Delta P - c$
	RKC = ∆P-v, constant speed (, II, III
FS	Overmoulded cable with brassed end splices. Optional: connector
130	Pump housing length: 130 mm or 180 mm
12	Box orientation
l	individual packaging
(not speci-	Collective packaging (standard)

Technical data	
Approved fluids (other fluids on	request)
Heating water (in accordance with VDI 2035)	•
Water-glycol mixtures (max. 1:1; above 20% admixture, the pumping data must be checked)	# .
Power	
Max, delivery head	6.2 m
Max: volume flow	3.3 m³/h
Permitted field of application	
Temperature range for applica- tions in HVAC systems at max. amblent temperature	of 57'C = 0' C to 95' C of 59'C = 0' C to 90' C of 67'C = 0' C to 70' C
Maximum static pressure	6 bar
Electrical connection	
Mains connection	1~230 V, 50/60 Hz
Motor/electronics	
Electromagnetic compatibility	EN 61800-3
Emitted Interference	EN 61000-6-3/EN 61000-6-4
Interference resistance	EN 61000-6-2/EN 61000-6-1
Speed control	Frequency converter
Protection class	IPX 4D
insulation class	f
Minimum suction fread at suction water pumping temperature	port for avoiding cavitation at
Minimum suction head at 50/95/ 110°C	0.5/4.5/11 m

^{• =} available, - = not available



Wilo-Yonos PARA



The Wilo-Yonos PARA is the latest high-efficiency pump series which is specially designed in order to fulfill the special demands of the OEM industry. The Wilo-Yonos PARA sets the standard for energy-saving solutions required for integrated hydraulic systems. Equipped with a self controlled Red button or externally PWM control, the Wilo-Yonos PARA is the perfect choice for a one-to-one replacement of most existing electronic pumps. This series is available in various cast iron and composite (available 09/2012) pump housings and is thus highly versatile. At the leading edge of technology, the Wilo-Yonos PARA provides best-in-class performances: it has a three times higher starting torque than most comparable heating pumps and fulfils highest mechanical, electrical and hydraulical requirements.

Special features/product benefits

- "Best in class" High Efficiency pump of the market due to ECM technology
- Up to 80% electricity savings compared to previous uncontrolled range of heating pumps
- Self controlled pump (Red button) or externally controlled (PWM slgnal)
- Unique LEO user interface gives information about the pump functioning
- · High starting torque for reliable start-up
- \bullet Hot water heating systems of all kinds, in the temperature range of 0 °C to +95 °C
- Designed for easy integration due to compact design
- Inrush current peak less than 3A
- Self protecting modes of electronic motor
- Preventing flow noises
- . Stand-by consumption less than 1 W
- . Functions adapted specially to the demands of the OEM market
- Standard delivery with power cable and signal cable
- Cataphoretically coated (KTL) cast from pump housing to prevent cortosion when condensation occurs, or OEM composite (available 09/2012) pump housing

Heating application

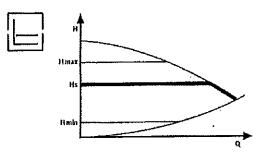
In nearly all circulation systems, correctly sized controlled glandless pumps ensure adequate heat supply at all times at significantly required energy costs, while at the same time preventing noise generation.

Electronic performance control

Self controlled model with Red button (Type RKA/RKC) Available control modes

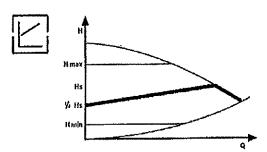
Control mode Ap-c:

In the Δp -c control mode, the electronic module keeps the differential pressure generated by the pump constant at the set differential pressure setpoint HS over the permissible volume flow range.



Control mode Ap-V:

in the Δp -v control mode, the electronic module changes the differential pressure setpoint to be maintained by the pump in linear fashion between Hs and $\mathcal H$ Hs. The differential pressure setpoint value H varies with the volume flow Q.



o air

Venting routine

The integrated venting routine supports a bleeding of the overall heating system. After a manual setting, the routine runs for 10 minutes alternating at low and high speed of the pump. At the end of the process, the pump switches automatically to a pre-set speed. After that, the desired control mode can be set at the red button.

Constant speed I, II, III

In this operating mode the pump is not self regulating its speed. The pump is operating constantly with a fixed speed in pre-setted position.

Heating and cooling

High-efficiency pumps

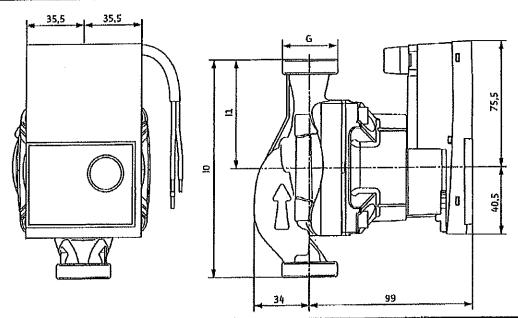


Dimensions, motor data Wilo-Yonos PARA Red Knob 15/6, 20/6, 25/6, 30/6

Motor data					
Wile-Yones PARA	Nominal motor pow- er		Power consumption 1~230 V	Current at 1~230V	Moter protection
	P ₂	n	$P_{\mathbf{J}}$	1	-
	W	rpm	W	A	-
RS /6 RKA/RKC	37	800 - 4250	3-45	0.03 - 0.44	Integrated

Materials				
Wile-Yones PARA.	Pump hovsing	Impeller	Pump shaft	Bearing
RS/6 RKA/RKC	Cast Iron with cataphoresis treatment	PP composite with GF 40%	Stainless steel	Carbon, metal Impregnated

Dimension drawing



Dimensions, weights					
Wilo-Yonos PARA	Threaded pipe union	Thread	Overall length	Dimensions	Weight approx.
riprovence in the		•	10	1/1	m
	a ngg kapanongan i 1 daga mba bi badanbahada (filo bi a			mm	kg
RS 15/6	Rp 1/2	G1	130	65	1,6
RS 20/6	Rp 1/1	G 114	130	65	1,6
RS 25/6	Rp1	G 11/2	130	65	1.7
RS 25/6	Rp I	G 11/3	180	90	2
R\$ 30/6	Rp 1¼	G 2	180	90	2,1