



## Data sheet

### Hydraulic data

Maximum operating pressure $P_N$	10 bar
Head max $H_{max}$	4.2 m
Flow max $Q_{max}$	2.9 m³/h
Minimum suction head at 50 °C $m$	0.5 m
Minimum suction head at 95 °C $m$	3 m
Minimum suction head at 110 °C	10 m
Min. fluid temperature $T_{min}$	-10 °C
Max. fluid temperature $T_{max}$	110 °C
Max. fluid temperature at max. ambient temperature of +25 °C $T_{max}$	110 °C
Max. fluid temperature at max. ambient temperature of +40 °C $T_{max}$	95 °C
Min. ambient temperature $T_{min}$	-10 °C
Max. ambient temperature $T_{max}$	40 °C

### Motor data

Energy efficiency index (EEI)	≤0.18
Mains connection	1~230 V ±10%, 50/60 Hz
Rated power $P_2$	15 W
Min. speed $n_{min}$	700 1/min
Max. speed $n_{max}$	3400 1/min
Power consumption $P_{1 min}$	3 W
Power consumption $P_{1 max}$	20 W
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Electromagnetic compatibility	EN 61800-3
Threaded cable connection	1 x PG11
Insulation class	F
Protection class	IPX4D

### Materials

Pump housing	Grey cast iron
Impeller	PP-GF40
Shaft	Stainless steel
Bearing	Carbon, metal-impregnated

### Installation dimensions

Pipe connection on the discharge side $DNd$	G 1
Pipe connection on the suction side $DNs$	G 1
Port-to-port length $L0$	130 mm

## Equipment/function

### Function

Control mode	$\Delta p$ -v for variable differential pressure
	$\Delta p$ -c for constant differential pressure
	Dynamic Adapt plus
	Constant speed (n-const.)
Special features of the series	Night set back
	Mode for pressure-independent control valves (PICV)
	Key locking function
	Reset function for electricity meter
	Reset function to factory setting
Display	Setpoint
	Actual delivery head
	Actual volume flow
	Actual power consumption
	Energy consumption
	Actual speed
	Manually activated restart or pump venting function
	Warning messages in plain text (display status: yellow)
	Error messages in plain text (display: red)
	Control mode
	Active influences (e.g. STOP)
Pump venting function	Manual

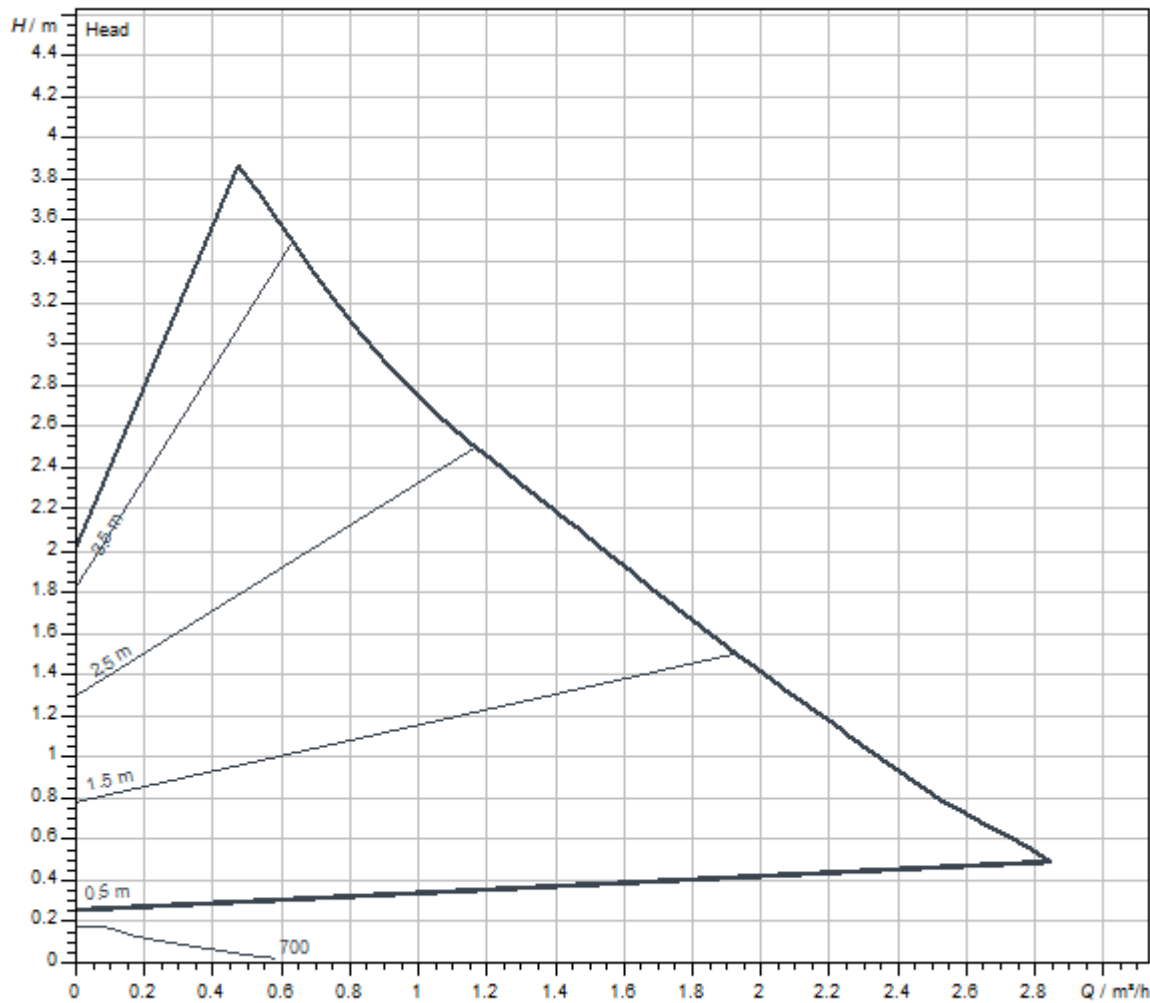
### Equipment

Approvals and labels	CE
	VDE
	EAC
	UKCA
	TR
	RCM
Display	Graphic colour display (2 inches)
Display information	Comfort Version: LCD display (large) for showing the head, flow volume, actual und cumulated current.
Pump control	Electronic-controlled pump
Quick electrical connection	Wilo Connector
Thermal insulation shell	Yes
Blocking-current proof motor	yes
Particle filter	yes
Key lock	yes
Operating elements	Green button and back button

### Connectivity

Access via the Wilo-Assistant app	Via accessory Wilo-Smart Connect Module BT
Analogue signal as standard	0-10 V (via BMS Connect module accessories)
Digital input	Ext. OFF/Ext. MIN/ Ext. MAX (via BMS Connect module accessories)
Digital output	SSM/SBM (via BMS Connect module accessories)
wire data exchange and remote operation	Via accessories Wilo-Smart Connect Module BT

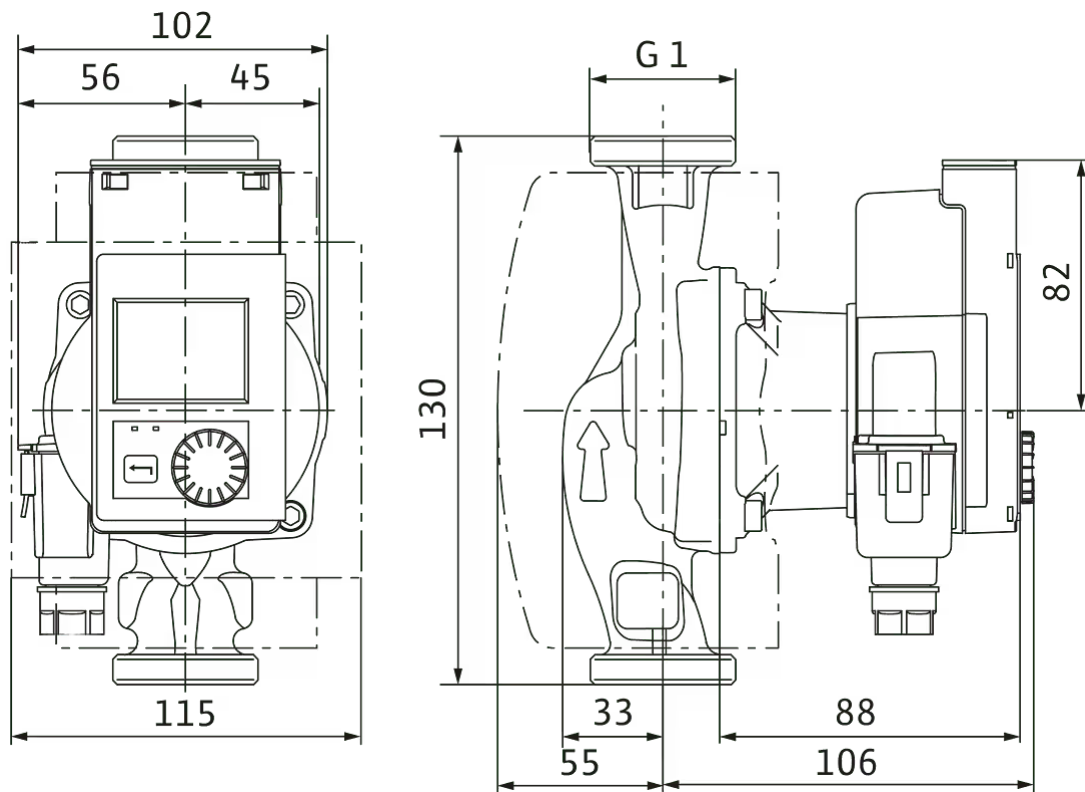
Pump curves



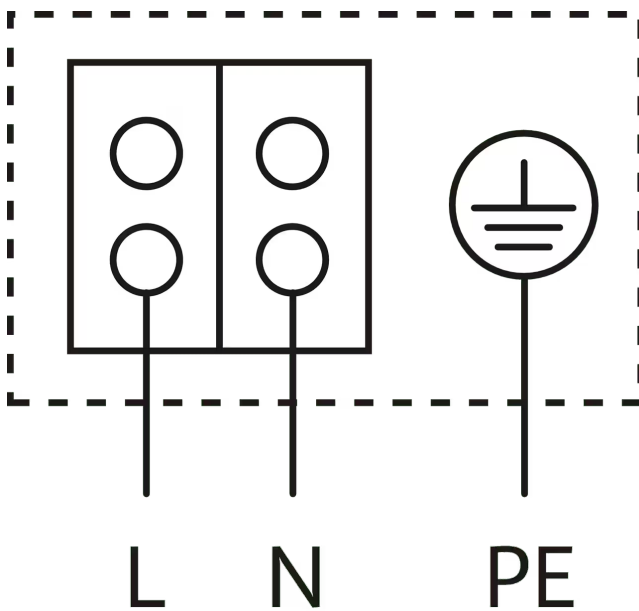
Fluid media	Water 100 %
Fluid temperature T	20.00 °C
speed at duty point <i>n</i> hydr. @ OP	3,395 1/min

## Dimensions and dimensions drawings

### Stratos PICO 15/0,5-4



### Wiring diagram



Blocking current-proof motor

Single-phase motor (EM) 2-pole - 1~230 V, 50 Hz

## Tender text

WILO Stratos PICO, electronically controlled high efficiency pump

Glandless circulator with screwed connection, blocking-current proof synchronous motor using ECM technology (up to 90 % energy saving compared to an uncontrolled pump) and built-in electronic power control for continuous differential pressure control.

Can be used for all heating and air-conditioning applications (-10 °C to +110 °C).

Control mode can be selected in accordance with the radiator/underfloor heating application.

### Control modes:

- > Permanent, automatic power adjustment to system requirements without setpoint specification **Wilo Dynamic Adapt plus** (factory setting)
- > Settings assistant for **number of radiators** or **underfloor heating area**
- > Variable differential pressure ( **$\Delta p-v$** )
- > Constant differential pressure ( **$\Delta p-c$** )
- > Constant speed ( **$n\text{-const.}$** )

### Functions:

- > Automatic night setback
- > Fault/warning message display including description and error code in plain text
- > Venting routine for automatic venting of the rotor chamber
- > Manual restart function for additional deblocking of the pump as required
- > Key lock
- > Function for resetting the electricity meter or for resetting the settings to the factory settings
- > Dry-running detection
- > Automatic deblocking function and integrated motor protection
- > Supports hydraulic balancing with the Wilo-Assistant app

### Display:

- > Control mode
- > Setpoint
- > Volume flow
- > Delivery head
- > Speed
- > Power consumption
- > Electric consumption
- > Active influences (e.g. night setback, deaeration)

### Version:

- > Graphic colour display with operation via one button manual operation level
- > Slot for Wilo communication modules as an interface for e.g. Bluetooth
- > Use the Wilo-Assistant app to read and set operating data and –among other things– set up a commissioning protocol through the Bluetooth interface (as an accessory)
- > Minimal consumption only 3 W
- > Equipped as standard with a thermal insulation shell
- > 5-year warranty
- > High efficiency, TÜV tested (the certificate can be seen at [www.wilo.com/legal](http://www.wilo.com/legal))

### Optional accessories:

- > Wilo-Smart Connect module BT for Bluetooth connection to mobile devices via Wilo-Assistant app
- > The Wilo-Connect module BMS expands the interface for use in building management systems (BMS)

## Operating Data

Min. fluid temperature $T_{\min}$	-10 °C
Max. fluid temperature $T_{\max}$	110 °C
Min. ambient temperature $T_{\min}$	-10 °C
Max. ambient temperature $T_{\max}$	40 °C
Maximum operating pressure $PN$	10 bar
Minimum suction head at 50 °C $m$	0.5 m
Minimum suction head at 95 °C $m$	3 m
Minimum suction head at 110 °C	10 m

## Motor data

Energy efficiency index (EEI)	$\leq 0.18$
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Mains connection	1~230 V, 50/60 Hz
Power consumption $P_{1\max}$	20 W
Min. speed $n_{\min}$	700 1/min
Max. speed $n_{\max}$	3400 1/min
Protection class motor	IPX4D

Motor data

Threaded cable connection	1 x PG11
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Materials

Pump housing	Grey cast iron
Impeller	PP-GF40
Shaft	Stainless steel
Bearing	Carbon, metal-impregnated

Installation dimensions

Pipe connection on the suction side <i>DN<sub>s</sub></i>	G 1
Pipe connection on the discharge side <i>DN<sub>d</sub></i>	G 1
Port-to-port length <i>L0</i>	130 mm

Ordering information

Brand	Wilo
Product description	Stratos PICO 15/0,5-4
Net weight, approx. <i>m</i>	1.6 kg
Article number	<b>4244390</b> 

## Services

With Wilo as your partner, you can not only be sure of choosing high-quality product solutions, but also of benefiting from a comprehensive, worry-free package of well thought-out services. We collaborate to develop a service concept tailored to your individual needs; with our expertise and personal consultancy, we make sure that the operation of your systems is as energy-efficient, reliable and economical as possible. All the while our competent Wilo service technicians are ready to assist you with fast, reliable and on-time support.

### Recommended services

Wilo-Live Assistant Service	2216415
System Optimisation Glandless pumps	2219250
Energy Solutions Glandless pumps	2219285

### More suitable services

Extended Warranty Glandless pumps	2219589
Supervision Glandless pumps	2219320
Installation Glandless pumps	2219355
Commissioning Glandless pumps	2219390
Maintenance BASIC Glandless pumps	2219530
Maintenance COMFORT Glandless pumps	2219416
Maintenance PREMIUM Glandless pumps	2219545
Repair Glandless pumps	2219609