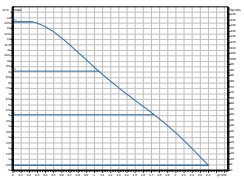
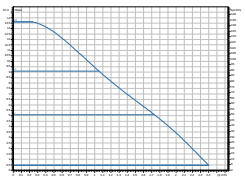


Varios PICO-STG 15/1-13-180

Glandless pump circulator

Article number: 4232747

Replacement recommendation

	Glandless high-efficiency pump	Existing pump
		
		

Description

Product description	Varios PICO-STG 15/1-13-180	Varios PICO-STG 15/1-13-180
Article number	4232747	4232747
Series	Varios PICO-STG	Varios PICO-STG
Mains connection	1~230 V ±10%, 50/60 Hz	1~230 V ±10%, 50/60 Hz
Pump connection	G 1	G 1
Pump connection (alternative designation)	RP 1/2	RP 1/2
	DN 15	DN 15
Display	LED coding display	LED coding display

Comment	Fits without modifications	Fits without modifications
Port-to-port length *l0*	180 mm	180 mm

Operating data

Standard	-	-

Function

Control mode	Δ p-v for variable differential pressure (3 pump curves)	Δ p-v for variable differential pressure (3 pump curves)
	Constant speed (3 speed stages)	Constant speed (3 speed stages)
	Δ p-c for constant differential pressure (3 pump curves)	Δ p-c for constant differential pressure (3 pump curves)
	External control via iPWM signal	External control via iPWM signal
Special features of the series	Sync function for optimised pump cycling adjustment	Sync function for optimised pump cycling adjustment
Display	Fault signals (error codes)	Fault signals (error codes)
	Manually activated restart or pump venting function	Manually activated restart or pump venting function
Pump venting function	Manual	Manual

Equipment

Thermal insulation shell	As accessory	As accessory
Quick electrical connection	Wilo Connector	Wilo Connector
Operating elements	Green push button	Green push button

Motor data

Energy efficiency index (EEI) {$footnote=footnote1}	≤ 0.23	≤ 0.23
Rated power P_2	55 W	55 W
Min. speed n_{min}	2957 1/min	2957 1/min

Max. speed n_{max}	4807 1/min	4807 1/min
Power consumption $P_{1\ min}$	1 W	1 W
Power consumption $P_{1\ max}$	75 W	75 W
Emitted interference	EN 61000-6-3	EN 61000-6-3
Interference resistance	EN 61000-6-2	EN 61000-6-2
Electromagnetic compatibility	EN 61800-3	EN 61800-3
Insulation class	F	F
Protection class	IPX4D	IPX4D
Phases	1	1
Mains connection	1~230 V, 50/60 Hz	1~230 V, 50/60 Hz

Materials

Impeller	PPO/PS-GF30	PPO/PS-GF30
Shaft	Stainless steel	Stainless steel
Bearing	Carbon, metal-impregnated	Carbon, metal-impregnated
Material	Grey cast iron	Grey cast iron

Pipe connection

Inlet connection	G 1	G 1
PN connection on suction side	PN 10	PN 10
Outlet connection	G 1	G 1
PN connection on discharge side	PN 10	PN 10

Dimension, weight

Length with packaging	194 mm	194 mm
Length *L*	180 mm	180 mm

Height with packaging	105 mm	105 mm
Height *H*	94 mm	94 mm
Width with packaging	174 mm	174 mm
Width *W*	140 mm	140 mm
Gross weight, approx. *m*	2.1 kg	2.1 kg
Net weight, approx. *m*	1.8 kg	1.8 kg

Ordering information

Product description	Varios PICO-STG 15/1-13-180	Varios PICO-STG 15/1-13-180
Brand	Wilo	Wilo
EAN number	4048482943961	4048482943961
Article number	4232747	4232747

Data sheet

Hydraulic data

Maximum operating pressure *PN*	10 bar
Head max H_{max}	13.6 m
Flow max Q_{max}	2.4 m^3/h
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-10 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI) *	≤ 0.23
Mains connection	1~230 V ±10%, 50/60 Hz
Rated power P_2	55 W
Min. speed n_{min}	2957 1/min
Max. speed n_{max}	4807 1/min
Power consumption P_1 min	1 W
Power consumption P_1 max	75 W

Motor data

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

* The benchmark for the most efficient circulators is EEI ≤ 0.20

Materials

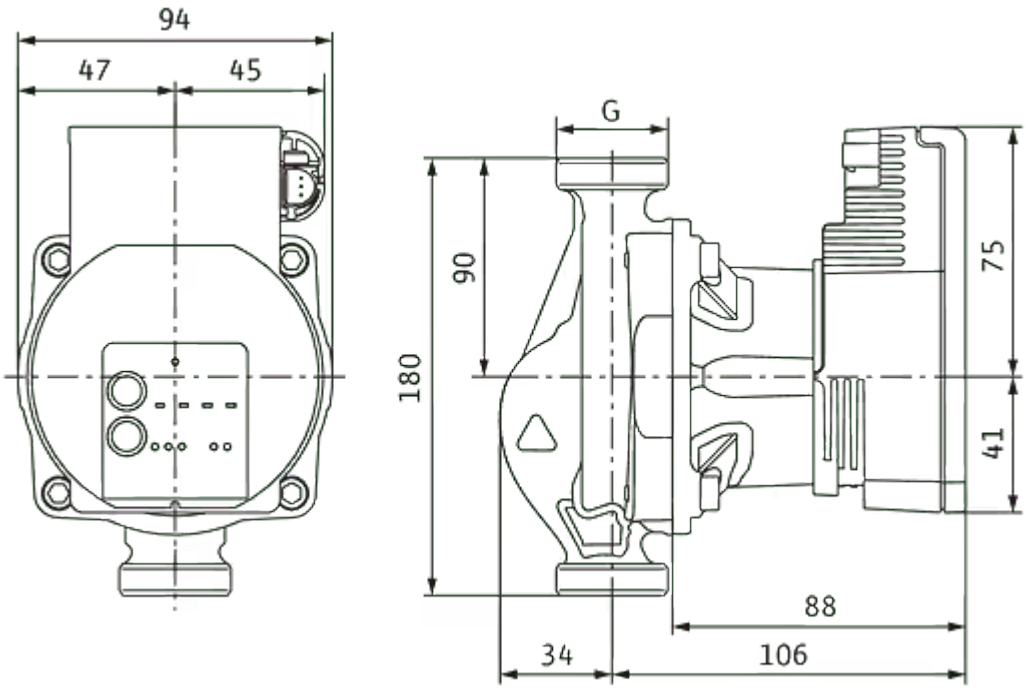
Pump housing	Grey cast iron
Impeller	PPO/PS-GF30
Shaft	Stainless steel
Bearing	Carbon, metal-impregnated

Installation dimensions

Pump connection	G 1
Pump connection (alternative designation)	RP 1/2 DN 15
Port-to-port length *L0*	180 mm

Dimensions and dimensions drawings

Varios PICO-STG 15/1-13-180



Tender text

High-efficiency pump Wilo-Varios PICO-STG, electronically controlled. Maintenance-free glandless circulator with screwed connection, blocking-current proof synchronous motor according to ECM technology and built-in electronic power control for variable differential pressure control. Can be used for all heating and air-conditioning applications, as well as for solar installations.

Standard-equipped with:

- Preselectable control modes for optimum load adjustment:
  - Differential pressure constant (Δp-c), 3 predefined pump curves
  - Differential pressure variable (Δp-v), 3 predefined pump curves
  - Constant speed (3 speed stages)
  - External control by iPWM ST (solar) signal
- Sync function (manual programming mode) for reprogramming the pump in the event of replacement
- Manual pump venting function for venting the rotor chamber
- Manual restart
- LED display
  - Display of selected control mode und pump curve
  - Status display during venting and manual restart
  - LED coding during the sync function
  - Operation and fault display
- Integrated motor protection
- Automatic deblocking function
- Electrical connection cable with 3-pole plug connection and Wilo-Connector
- PWM connection
- Cataphoretically-coated pump housing

Operating data

Min. fluid temperature T_{min}	-20 °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

Motor data

Energy efficiency index (EEI) *	≤ 0.23
Mains connection	1~230 V ±10%, 50/60 Hz
Rated power P_2	55 W
Min. speed n_{min}	2957 1/min
Max. speed n_{max}	4807 1/min
Power consumption $P_{1\ min}$	1 W
Power consumption $P_{1\ max}$	75 W
Emitted interference	EN 61000-6-3
Interference resistance	EN 61000-6-2
Electromagnetic compatibility	EN 61800-3
Insulation class	F
Protection class	IPX4D

Motor data

Threaded cable connection	1 x PG11

* The benchmark for the most efficient circulators is EEI ≤ 0.20

Materials

Pump housing	Grey cast iron
Impeller	PPO/PS-GF30
Shaft	Stainless steel
Bearing	Carbon, metal-impregnated

Installation dimensions

Pump connection	G 1
Pump connection (alternative designation)	RP 1/2 DN 15
Port-to-port length *L0*	180 mm

Ordering information

Brand	Wilo
Product description	Varios PICO-STG 15/1-13-180
Net weight, approx. *m*	1.8 kg
Article number	4232747

Mechanical accessories

Product description	Article number
Screwed connection Rp ½ x G 1, 1 Set	4090808
Thermal insulation shell	4206066

Electrical accessories

Product description	Article number
Switchgear SK 601N	2120443
Angle plug	4150229
PWM signal cable	4193901
Bidirectional iPWM control cable	4222049
Wilo-Connector	4200870