

Series description: Wilo-Stratos



Design

Glandless circulation pump with threaded connection or flange connection, EC motor with automatic power adjustment.

Application

Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems.

Type key

Example: **Wilo-Stratos 30/1-12**

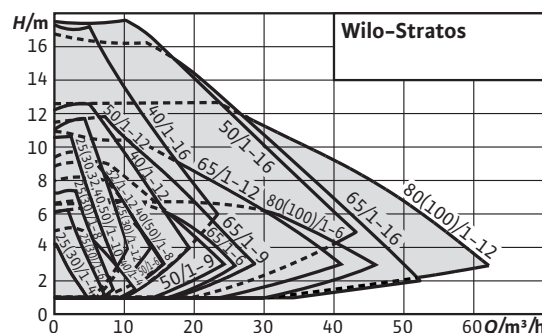
Stratos	High-efficiency pump (screw-end or flange-end pump), electronically controlled
30/	Nominal connection diameter
1-12	Nominal delivery head range [m]

Special features/product advantages

- Position-independent LC display
- Infrared interface
- System expansion by means of interface modules for communication: Modbus, BACnet, CAN, LON, PLR
- Pump housing with cataphoretic (KTL) coating protects against corrosion due to condensation formation

Technical data

- Energy efficiency index (EEI) ≤ 0.23
- Permissible temperature range -10°C to $+110^{\circ}\text{C}$
- Mains connection 1~230 V, 50/60 Hz
- Protection class IP X4D
- Screwed connection or flange connection (depending on type) Rp 1 to DN 100
- Max. operating pressure, standard version: 6/10 bar or 6 bar (special version: 10 bar or 16 bar)



Equipment/function

Operating modes

- Manual control mode ($n=\text{constant}$)
- $\Delta p-c$ for constant differential pressure
- $\Delta p-v$ for variable differential pressure
- $\Delta p-T$ for temperature-controlled differential pressure (programmable via IR-Stick, IR-Monitor, Modbus, BACnet, LON or CAN)
- Q-Limit to restrict the maximum volume flow (setting only via IR-Stick)

Manual functions

- Setting the operating mode
- Setting the differential pressure setpoint
- Setting automatic setback operation
- Setting the pump ON/OFF
- Setting the speed (manual control mode)

Automatic functions

- Infinitely variable power adjustment according to the operating mode
- Automatic setback operation
- Deblocking function
- Soft start
- Full motor protection with integrated trip electronics

External control functions

- "Overriding Off" control input (possible with Stratos IF-Modules)
- "Overriding Min" control input (possible with Stratos IF-Modules)
- "Analogue In 0 - 10 V" control input (remote speed adjustment) (possible with Stratos IF-Modules)
- "Analogue In 0 - 10 V" control input (remote setpoint adjustment) (possible with Stratos IF-Modules)

Signal and display functions

- Collective fault signal (potential-free NC contact)
- Individual run signal (potential-free NO contact) (possible with Stratos IF-Modules)
- Fault signal light
- LC display for indication of pump data and fault codes

Data exchange

- Infrared interface for wireless data exchange with IR-Stick/IR-Monitor
- Modbus RTU serial digital interface for connection to building automation BA via RS485 BUS system (possible with Stratos IF-Modules)
- BACnet serial digital interface MS/TP Slave for connection to building automation BA via RS485 BUS system (possible with Stratos IF-Modules)
- CAN serial digital interface for connection to building automation BA via CAN BUS system (possible with Stratos IF-Modules)
- LON serial digital interface for connection to a LONWorks network (possible with Stratos IF-Modules)
- PLR serial digital interface for connection to BA via Wilo interface converter or company-specific coupling modules (possible with Stratos IF-Modules)

Dual pump management (double pump or 2 x single pumps)

- Main/standby operation (automatic fault-actuated switchover/time-dependent pump cycling): various combinations with Stratos IF-Modules (accessories) possible
- Parallel operation (efficiency-optimised peak load activation and deactivation): various combinations with Stratos IF-Modules (accessories) possible

Features

- Wrench attachment point at pump body (for threaded pipe union pumps with $P_2 < 100 \text{ W}$)

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- For flange-end pumps: Flange versions
 - Standard version for DN 32 to DN 65 pumps: PN 6/10 combination flange (PN 16 flange according to EN 1092-2) for PN 6 and PN 16 counter flanges
 - Standard version for DN 80/DN 100 pumps: PN 6 flange (designed for PN 16 according to EN 1092-2) for PN 6 counter flange
 - Special version for DN 32 to DN 100 pumps: PN 16 flange (according to EN 1092-2) for PN 16 counter flange
- Plug-in position for optional extension with Wilo-IF-Modules
- Thermal insulation as standard for heating applications

Materials

- Pump housing: Grey cast iron with cataphoretic coating
- Thermal insulation: Polypropylene
- Shaft: stainless steel
- Bearing: Carbon, metal impregnated
- Impeller: Plastic

Scope of delivery

- Pump
- Including thermal insulation
- Including seals for threaded connection
- Incl. washers for flange screws (for nominal connection diameters DN 32 - DN 65)
- Including installation and operating instructions

Options

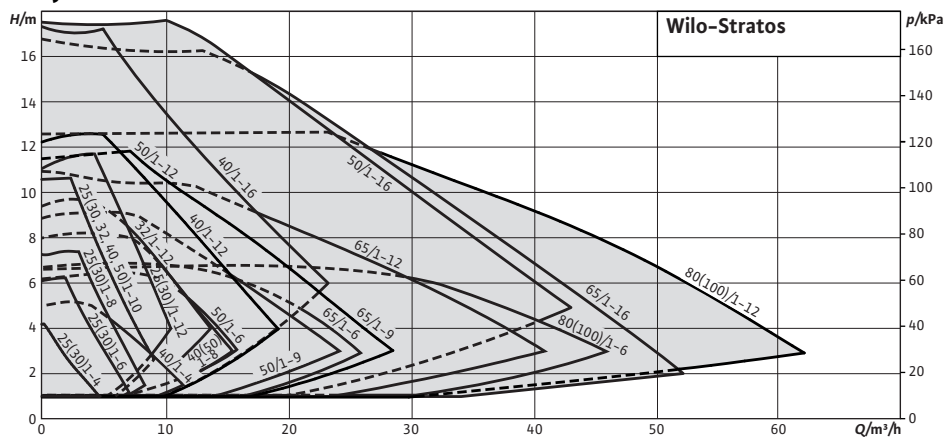
- Special versions for operating pressure PN 16

Accessories

- Screwed connections for threaded connection
- Counter flanges for flange connection
- Adapter fittings
- IR-Stick
- IR Monitor
- Stratos IF-Module: Modbus, BACnet, CAN, LON, PLR, DP, Ext. Off, Ext. Min., SBM, Ext. Off/SBM

Duty chart: Wilo-Stratos

Duty chart



Product list: Wilo-Stratos

Type	Max. volume flow	Max. delivery head	Energy efficiency index (EEI)	Pipe connection	Nominal flange diameter	Rated pressure	Overall length	Mains connection	Gross weight	Art no.
	$Q_{max}/m^3/h$	H_{max}/m				PN/bar	l_0/mm		m/kg	
Stratos 25/1-4	5	4	≤ 0.20	Rp 1		10	180	1~230 V, 50/60 Hz	5.5	2104225
Stratos 25/1-4	5	4	≤ 0.20	Rp 1		16	180	1~230 V, 50/60 Hz	5.5	2110661
Stratos 25/1-6	7	6	≤ 0.20	Rp 1		10	180	1~230 V, 50/60 Hz	5.5	2090447
Stratos 25/1-6	7	6	≤ 0.20	Rp 1		16	180	1~230 V, 50/60 Hz	5.5	2065097
Stratos 25/1-8	8	8	≤ 0.20	Rp 1		10	180	1~230 V, 50/60 Hz	5.5	2090448
Stratos 25/1-8	8	8	≤ 0.20	Rp 1		16	180	1~230 V, 50/60 Hz	5.7	2063363
Stratos 25/1-10	9	10	≤ 0.20	Rp 1		10	180	1~230 V, 50/60 Hz	5.5	2103615
Stratos 25/1-12	11	11	≤ 0.20	Rp 1		10	180	1~230 V, 50/60 Hz	5.4	2104941
Stratos 30/1-4	5	4	≤ 0.20	Rp 1½		10	180	1~230 V, 50/60 Hz	6.0	2104226
Stratos 30/1-4	5	4	≤ 0.20	Rp 1½		16	180	1~230 V, 50/60 Hz	5.7	2131799
Stratos 30/1-6	7	6	≤ 0.20	Rp 1½		10	180	1~230 V, 50/60 Hz	5.7	2090449
Stratos 30/1-6	7	6	≤ 0.20	Rp 1½		16	180	1~230 V, 50/60 Hz	6.0	2069760
Stratos 30/1-8	8	8	≤ 0.20	Rp 1½		10	180	1~230 V, 50/60 Hz	6.0	2090450
Stratos 30/1-8	8	8	≤ 0.20	Rp 1½		16	180	1~230 V, 50/60 Hz	6.0	2069759
Stratos 30/1-10	9	10	≤ 0.20	Rp 1½		10	180	1~230 V, 50/60 Hz	5.6	2103616
Stratos 30/1-10	9	10	≤ 0.20	Rp 1½		16	180	1~230 V, 50/60 Hz	5.6	2117648
Stratos 30/1-12	11	11	≤ 0.20	Rp 1½		10	180	1~230 V, 50/60 Hz	7.0	2090451
Stratos 30/1-12	11	11	≤ 0.20	Rp 1½		16	180	1~230 V, 50/60 Hz	7.3	2072567
Stratos 32/1-10	10	10	≤ 0.20		DN 32	6/10	220	1~230 V, 50/60 Hz	9.1	2103617
Stratos 32/1-10	10	10	≤ 0.20		DN 32	16	220	1~230 V, 50/60 Hz	9.1	2110124
Stratos 32/1-12	13	9	≤ 0.20		DN 32	6/10	220	1~230 V, 50/60 Hz	10.4	2090452
Stratos 32/1-12	13	9	≤ 0.20		DN 32	16	220	1~230 V, 50/60 Hz	11.0	2072566
Stratos 40/1-4	11	5	≤ 0.20		DN 40	6/10	220	1~230 V, 50/60 Hz	9.9	2090453
Stratos 40/1-4	11	5	≤ 0.20		DN 40	16	220	1~230 V, 50/60 Hz	9.9	2069142
Stratos 40/1-8	15	8	≤ 0.20		DN 40	6/10	220	1~230 V, 50/60 Hz	10.5	2090454
Stratos 40/1-8	15	8	≤ 0.20		DN 40	16	220	1~230 V, 50/60 Hz	10.5	2068604
Stratos 40/1-10	10	10	≤ 0.20		DN 40	6/10	220	1~230 V, 50/60 Hz	9.3	2103618
Stratos 40/1-10	10	10	≤ 0.20		DN 40	16	220	1~230 V, 50/60 Hz	9.3	2113776
Stratos 40/1-12	21	12	≤ 0.20		DN 40	6/10	250	1~230 V, 50/60 Hz	16.1	2090455

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	$Q_{max}/m^3/h$	H_{max}/m				PN/bar	l_0/mm		m/kg	
Stratos 40/1-12	21	12	≤ 0.20		DN 40	16	250	1~230 V, 50/60 Hz	16.8	2063362
Stratos 40/1-16	23	17	≤ 0.20		DN 40	6/10	250	1~230 V, 50/60 Hz	25.5	2150588
Stratos 40/1-16	23	17	≤ 0.20		DN 40	16	250	1~230 V, 50/60 Hz	25.5	2149602
Stratos 50/1-6	16	6	≤ 0.20		DN 50	6/10	240	1~230 V, 50/60 Hz	12.1	2146340
Stratos 50/1-6	16	6	≤ 0.20		DN 50	16	240	1~230 V, 50/60 Hz	17.6	2149603
Stratos 50/1-8	15	8	≤ 0.20		DN 50	6/10	240	1~230 V, 50/60 Hz	12.1	2090456
Stratos 50/1-8	15	8	≤ 0.20		DN 50	16	240	1~230 V, 50/60 Hz	13.4	2069740
Stratos 50/1-9	26	10	≤ 0.20		DN 50	6/10	280	1~230 V, 50/60 Hz	17.6	2090457
Stratos 50/1-9	26	10	≤ 0.20		DN 50	16	280	1~230 V, 50/60 Hz	17.6	2069363
Stratos 50/1-10	10	10	≤ 0.20		DN 50	6/10	240	1~230 V, 50/60 Hz	10.8	2103619
Stratos 50/1-10	10	10	≤ 0.20		DN 50	16	240	1~230 V, 50/60 Hz	10.8	2120729
Stratos 50/1-12	26	11	≤ 0.20		DN 50	6/10	280	1~230 V, 50/60 Hz	17.6	2090458
Stratos 50/1-12	26	11	≤ 0.20		DN 50	16	280	1~230 V, 50/60 Hz	17.6	2063361
Stratos 50/1-16	43	17	≤ 0.20		DN 50	6/10	340	1~230 V, 50/60 Hz	28.5	2150590
Stratos 50/1-16	43	17	≤ 0.20		DN 50	16	340	1~230 V, 50/60 Hz	28.5	2149847
Stratos 65/1-6	26	6	≤ 0.20		DN 65	6/10	280	1~230 V, 50/60 Hz	19.5	2146341
Stratos 65/1-9	26	11	≤ 0.20		DN 65	6/10	280	1~230 V, 50/60 Hz	19.5	2090459
Stratos 65/1-9	26	11	≤ 0.20		DN 65	16	280	1~230 V, 50/60 Hz	19.5	2069362
Stratos 65/1-12	41	10	≤ 0.20		DN 65	16	340	1~230 V, 50/60 Hz	31.0	2069739
Stratos 65/1-12	41	10	≤ 0.20		DN 65	6/10	340	1~230 V, 50/60 Hz	31.0	2150589
Stratos 65/1-16	52	16	≤ 0.20		DN 65	6/10	340	1~230 V, 50/60 Hz	31.0	2150591
Stratos 65/1-16	52	16	≤ 0.20		DN 65	16	340	1~230 V, 50/60 Hz	31.0	2152309
Stratos 80/1-6	55	6	≤ 0.20		DN 80	6	360	1~230 V, 50/60 Hz	35.0	2146342
Stratos 80/1-6	55	6	≤ 0.20		DN 80	10	360	1~230 V, 50/60 Hz	35.0	2146343
Stratos 80/1-6	55	6	≤ 0.20		DN 80	16	360	1~230 V, 50/60 Hz	35.0	2149431
Stratos 80/1-12	62	13	≤ 0.20		DN 80	16	360	1~230 V, 50/60 Hz	35.0	2063364
Stratos 80/1-12	62	13	≤ 0.20		DN 80	6	360	1~230 V, 50/60 Hz	35.0	2150592
Stratos 80/1-12	62	13	≤ 0.20		DN 80	10	360	1~230 V, 50/60 Hz	35.0	2150593
Stratos 100/1-6	55	6	≤ 0.20		DN 100	6	360	1~230 V, 50/60 Hz	38.0	2146344

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	$Q_{max}/m^3/h$	H_{max}/m				PN / bar	l_0 / mm		m / kg	
Stratos 100/1-6	55	6	≤ 0.20		DN 100	10	360	1~230 V, 50/60 Hz	38.0	2146345
Stratos 100/1-6	55	6	≤ 0.20		DN 100	16	360	1~230 V, 50/60 Hz	38.0	2149432
Stratos 100/1-12	62	13	≤ 0.20		DN 100	16	360	1~230 V, 50/60 Hz	38.0	2069578
Stratos 100/1-12	62	13	≤ 0.20		DN 100	6	360	1~230 V, 50/60 Hz	38.0	2150594
Stratos 100/1-12	62	13	≤ 0.20		DN 100	10	360	1~230 V, 50/60 Hz	38.0	2150595