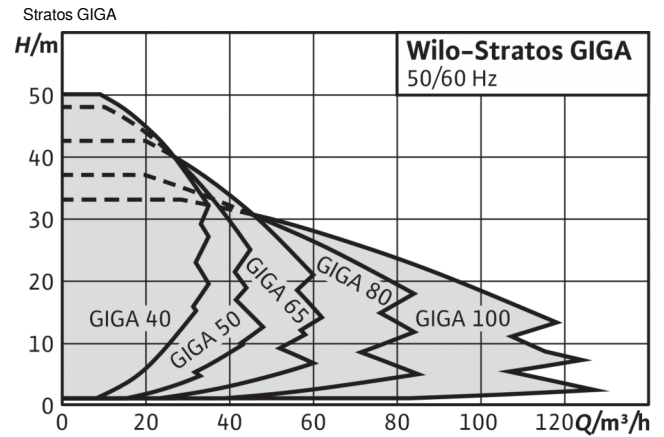


## Series description: Wilo-Stratos GIGA

Wilo-Stratos GIGA



### Description

The Wilo-Stratos GIGA is the ideal high-efficiency pump for use in heating, air conditioning and cooling applications in buildings where large volumes of water have to be pumped to great delivery heights.

### Design type

High-efficiency in-line pump with EC motor and electronic power adjustment in glanded pump design. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical seal.

### Application

The pumping of heating water (in accordance with VDI 2035), cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems.

### Special features/product advantages

- Innovative high-efficiency pump for maximum overall efficiency levels
- High-efficiency EC motor with efficiency class IE5 according to IEC 60034-30-2
- Optional interfaces for connection to building automation using insertable IF modules

## Series description: Wilo-Stratos GIGA

### Equipment/function

#### Operating modes

- $\Delta p$ -c for constant differential pressure
- $\Delta p$ -v for variable differential pressure
- PID-Control
- Constant speed ( $n$ =constant)

#### Manual operation level

- Green button and display

#### Manual functions

- Differential pressure setpoint setting
- Setting the speed (manual control mode)
- Setting the operating mode
- Setting the pump ON/OFF
- Configuration of all operating parameters
- Fault acknowledgement

#### External control functions

- "Overriding Off" control input
- "External pump cycling" control input (only effective in double pump operation)
- Analogue input 0 – 10 V, 0 – 20 mA for constant speed (DDC) and remote setpoint adjustment
- Analogue input 2 – 10 V, 4 – 20 mA for constant speed (DDC) and remote setpoint adjustment
- Analogue input 0 – 10 V for actual value signal from pressure sensor
- Analogue input 2 – 10 V, 0 – 20 mA, 4 – 20 mA for actual value signal from pressure sensor

#### Signal and display functions

- Collective fault signal SSM
- Collective run signal SBM

#### Data exchange

- Infrared interface for wireless data exchange with IR-Monitor/IR-Stick
- Plug-in position for Wilo IF-Modules (Modbus, BACnet, CAN, PLR, LON) for connection to building automation

#### Safety functions

- Full motor protection with integrated trip electronics
- Access disable

#### Dual pump management(2 x single pumps)

- Main/standby operation (automatic fault-actuated switchover)
- Pump cycling main/standby operation after 24 hours
- Parallel operation
- Parallel operation (efficiency-optimised peak-load activation and deactivation)

### Scope of delivery

- Pump
- Installation and operating instructions

### Type key

Example	<b>Wilo-Stratos GIGA 40/1-51/4,5</b>
<b>Stratos</b>	High-efficiency pump
<b>GIGA</b>	Inline single pump
<b>40</b>	Nominal flange diameter DN
<b>1-51</b>	Nominal delivery head range in [m]
<b>4,5</b>	Orientation value of the rated power $P_2$ in kW
<b>-R1</b>	Version without differential pressure sensor

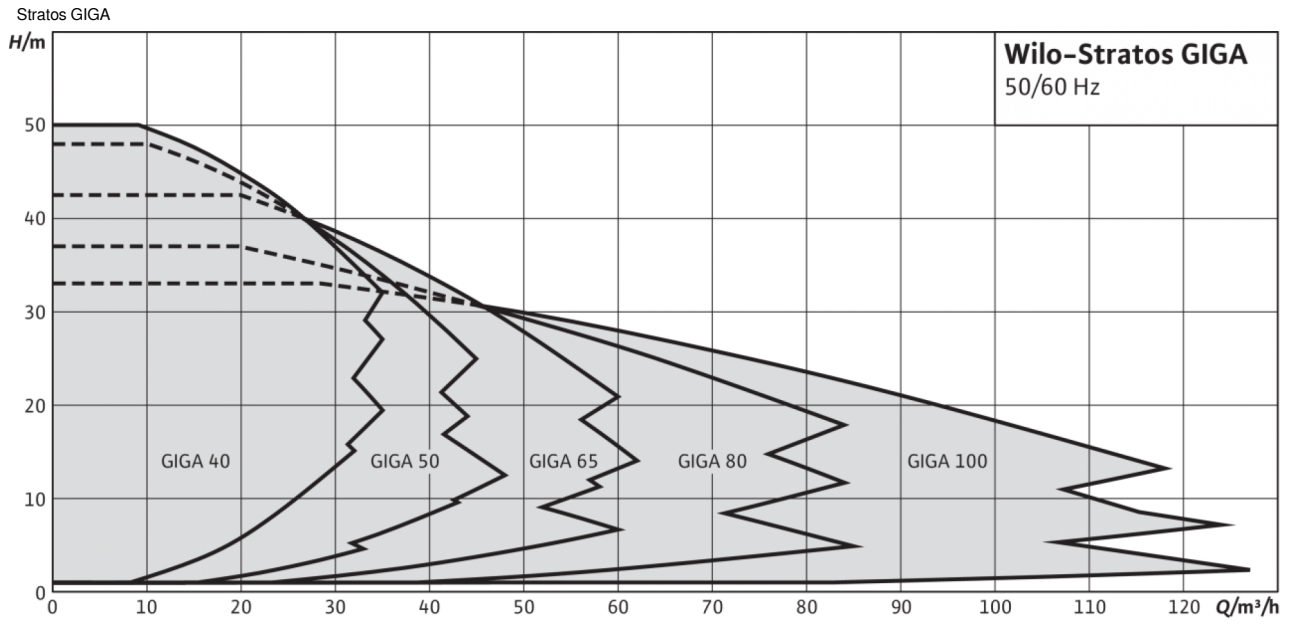
### Technical data

- Minimum efficiency index (MEI)  $\geq 0.7$
- Permitted temperature range of the fluid: -20 °C to +140 °C
- Mains connection 3~480 V  $\pm 10\%$ , 50/60 Hz, 3~440 V  $\pm 10\%$ , 50/60 Hz, 3~400 V  $\pm 10\%$ , 50/60 Hz, 3~380 V -5% +10%, 50/60 Hz
- Protection class IP55
- Nominal diameter DN 40 to DN 100
- Max. operating pressure 16 bar

### Materials

- Pump housing and lantern: EN-GJL-250
- Impeller: PPS-GF40 or EN-GJL-200 depending on the type
- Shaft: 1.4122
- Mechanical seal: AQEGG; other mechanical seals on request

## Duty chart: Wilo-Stratos GIGA



## Product list: Wilo-Stratos GIGA

Product description	Motor efficiency class	Mains connection	Version	Rated power $P_2$	Pipe connection	Port-to-port length $l_0$	Gross weight, approx. $m$	Article number
Stratos GIGA 100/1-33/6,0-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	6.00 kW	DN 100	450 mm	81.0 kg	2170192
Stratos GIGA 100/1-27/4,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	4.80 kW	DN 100	450 mm	76.0 kg	2170193
Stratos GIGA 100/1-17/3,7-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.70 kW	DN 100	450 mm	74.0 kg	2170190
Stratos GIGA 100/1-13/2,3-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.70 kW	DN 100	450 mm	74.0 kg	2170191
Stratos GIGA 80/1-37/5,3-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	4.80 kW	DN 80	360 mm	68.0 kg	2170188
Stratos GIGA 80/1-32/4,1-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	4.80 kW	DN 80	360 mm	68.0 kg	2170189
Stratos GIGA 80/1-21/3,5-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 80	360 mm	56.0 kg	2170186
Stratos GIGA 80/1-16/2,3-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 80	360 mm	56.0 kg	2170187
Stratos GIGA 65/1-42/4,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	4.80 kW	DN 65	340 mm	60.0 kg	2170183
Stratos GIGA 65/1-38/3,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 65	340 mm	52.0 kg	2170184
Stratos GIGA 65/1-34/3,1-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 65	340 mm	51.0 kg	2170185
Stratos GIGA 65/1-17/1,7-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	0.60 kW	DN 65	340 mm	52.0 kg	2170178
Stratos GIGA 65/1-12/1,1-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	0.60 kW	DN 65	340 mm	52.0 kg	2170179
Stratos GIGA 65/1-8/0,6-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	0.60 kW	DN 65	340 mm	52.0 kg	2170180
Stratos GIGA 65/1-21/2,3-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 65	340 mm	51.0 kg	2170182
Stratos GIGA 65/1-27/3,0-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 65	340 mm	51.0 kg	2170181
Stratos GIGA 50/1-33/2,6-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 50	280 mm	47.0 kg	2170171
Stratos GIGA 50/1-26/1,9-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 50	280 mm	47.0 kg	2170172
Stratos GIGA 50/1-20/1,3-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 50	280 mm	47.0 kg	2170173
Stratos GIGA 50/1-14/0,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	0.60 kW	DN 50	280 mm	47.0 kg	2170174
Stratos GIGA 50/1-38/2,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 50	280 mm	47.0 kg	2170177
Stratos GIGA 50/1-44/3,2-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 50	280 mm	49.0 kg	2170176
Stratos GIGA 50/1-50/4,2-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 50	280 mm	49.0 kg	2170175

## Product list: Wilo-Stratos GIGA

Product description	Motor efficiency class	Mains connection	Version	Rated power $P_2$	Pipe connection	Port-to-port length $l_0$	Gross weight, approx. $m$	Article number
Stratos GIGA 40/1-51/4,2-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 40	280 mm	48.0 kg	2170166
Stratos GIGA 40/1-45/3,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 40	280 mm	48.0 kg	2170167
Stratos GIGA 40/1-39/3,0-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 40	280 mm	46.0 kg	2170168
Stratos GIGA 40/1-32/2,2-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 40	280 mm	46.0 kg	2170169
Stratos GIGA 40/1-25/1,6-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 40	280 mm	46.0 kg	2170170
Stratos GIGA 100/1-33/6,0	IE5	3~440 V, 50 Hz	with differential pressure sensor	6.00 kW	DN 100	450 mm	80.7 kg	2170136
Stratos GIGA 100/1-27/4,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	4.80 kW	DN 100	450 mm	75.7 kg	2170137
Stratos GIGA 100/1-17/3,7	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.70 kW	DN 100	450 mm	73.7 kg	2170134
Stratos GIGA 100/1-13/2,3	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.70 kW	DN 100	450 mm	73.7 kg	2170135
Stratos GIGA 80/1-32/4,1	IE5	3~440 V, 50 Hz	with differential pressure sensor	4.80 kW	DN 80	360 mm	67.7 kg	2170133
Stratos GIGA 80/1-37/5,3	IE5	3~440 V, 50 Hz	with differential pressure sensor	4.80 kW	DN 80	360 mm	67.7 kg	2170132
Stratos GIGA 80/1-21/3,5	IE5	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 80	360 mm	55.7 kg	2170130
Stratos GIGA 80/1-16/2,3	IE5	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 80	360 mm	55.7 kg	2170131
Stratos GIGA 65/1-42/4,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	4.80 kW	DN 65	340 mm	59.7 kg	2170127
Stratos GIGA 65/1-38/3,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.80 kW	DN 65	340 mm	51.7 kg	2170128
Stratos GIGA 65/1-34/3,1	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 65	340 mm	50.7 kg	2170129
Stratos GIGA 65/1-17/1,7	IE5	3~440 V, 50 Hz	with differential pressure sensor	0.60 kW	DN 65	340 mm	51.7 kg	2170122
Stratos GIGA 65/1-12/1,1	IE5	3~440 V, 50 Hz	with differential pressure sensor	0.60 kW	DN 65	340 mm	51.7 kg	2170123
Stratos GIGA 65/1-8/0,6	IE5	3~440 V, 50 Hz	with differential pressure sensor	0.60 kW	DN 65	340 mm	51.7 kg	2170124
Stratos GIGA 65/1-21/2,3	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 65	340 mm	50.7 kg	2170126
Stratos GIGA 65/1-27/3,0	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 65	340 mm	50.7 kg	2170125
Stratos GIGA 50/1-33/2,6	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 50	280 mm	46.7 kg	2170115
Stratos GIGA 50/1-26/1,9	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 50	280 mm	46.7 kg	2170116

## Product list: Wilo-Stratos GIGA

Product description	Motor efficiency class	Mains connection	Version	Rated power $P_2$	Pipe connection	Port-to-port length $l_0$	Gross weight, approx. $m$	Article number
Stratos GIGA 50/1-20/1,3	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 50	280 mm	46.7 kg	2170117
Stratos GIGA 50/1-14/0,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	0.60 kW	DN 50	280 mm	46.7 kg	2170118
Stratos GIGA 50/1-38/2,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 50	280 mm	46.7 kg	2170121
Stratos GIGA 50/1-44/3,2	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.80 kW	DN 50	280 mm	48.7 kg	2170120
Stratos GIGA 40/1-51/4,2	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.80 kW	DN 40	280 mm	47.7 kg	2170110
Stratos GIGA 40/1-45/3,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.80 kW	DN 40	280 mm	47.7 kg	2170111
Stratos GIGA 40/1-39/3,0	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 40	280 mm	45.7 kg	2170112
Stratos GIGA 40/1-32/2,2	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 40	280 mm	45.7 kg	2170113
Stratos GIGA 40/1-25/1,6	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 40	280 mm	45.7 kg	2170114