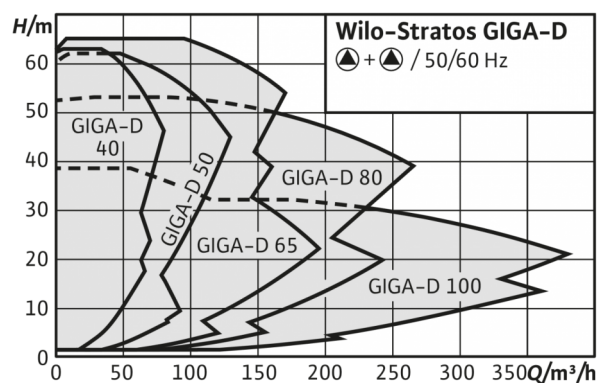


Series description: Wilo-Stratos GIGA-D

Wilo-Stratos GIGA-D



Stratos GIGA-D



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. Wilo-Stratos GIGA offers ever greater operational reliability with the standby pump in the double pump version.

Design type

High efficiency inline double pump with EC motor and electronic power adjustment in glanded pump construction. 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.

Equipment/function

>Operating modes

- Δp -c for constant differential pressure
- Δp -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

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
- Highest possible operational reliability thanks to standby pump
- Optional interfaces for connection to building automation using insertable IF modules

Series description: Wilo-Stratos GIGA-D

Equipment/function

Safety functions

- Full motor protection with integrated trip electronics
- Access disable

Dual pump management (double pump or 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	Wilo-Stratos GIGA D 40/1-51/4,5
Stratos GIGA	High-efficiency pump
D	In-line double pump
40	Nominal flange diameter DN
1-51	1 = lowest selectable delivery head [m] 51 = highest selectable delivery head [m]
4,5	Orientation value for rated power P2 in [kW]
-xx	Version: E.g. R1 - version without differential pressure sensor

Technical data

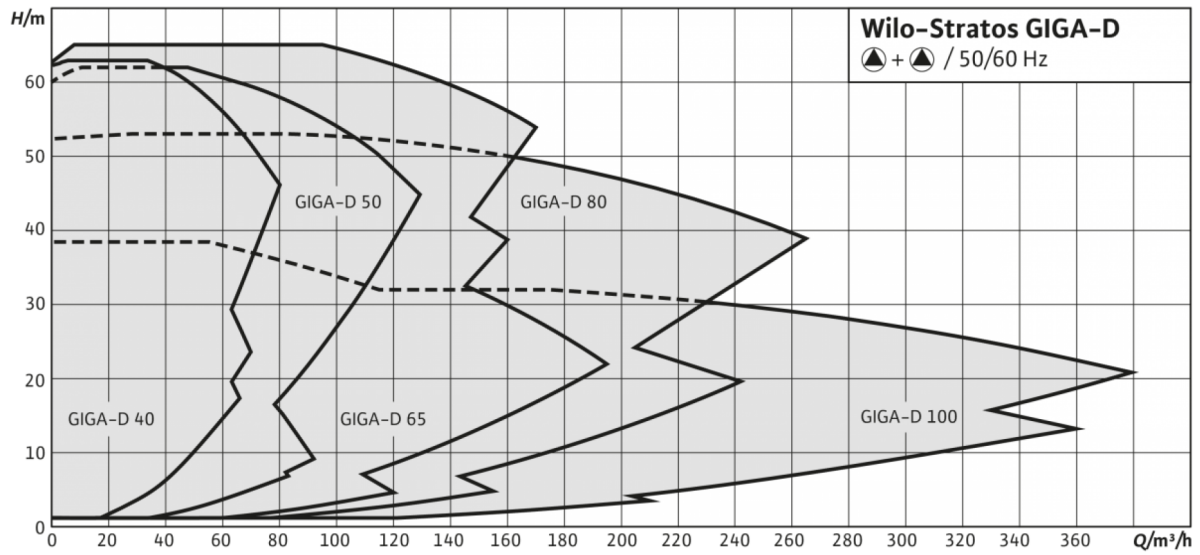
- Minimum efficiency index (MEI) ≥ 0.7
- Permitted temperature range of the fluid: -20 °C to $+140\text{ °C}$
- Mains connection 3~480 V $\pm 10\%$, 50/60 Hz, 3~440 V $\pm 10\%$, 50/60 Hz, 3~400 V $\pm 10\%$, 50/60 Hz, 3~380 V -5% $+10\%$, 50/60 Hz
- Protection class IP55
- Nominal diameter DN 40 to 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-D

Stratos GIGA-D



Product list: Wilo-Stratos GIGA-D

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-D 100/1-33/6,0	IE5	3~440 V, 50 Hz	with differential pressure sensor	6.00 kW	DN 100	450 mm	158.0 kg	2170248
Stratos GIGA-D 100/1-27/4,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	4.80 kW	DN 100	450 mm	149.0 kg	2170249
Stratos GIGA-D 100/1-17/3,7	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.70 kW	DN 100	450 mm	144.0 kg	2170246
Stratos GIGA-D 100/1-13/2,3	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.70 kW	DN 100	450 mm	144.0 kg	2170247
Stratos GIGA-D 65/1-42/4,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	4.80 kW	DN 65	340 mm	119.0 kg	2170239
Stratos GIGA-D 65/1-38/3,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.80 kW	DN 65	340 mm	103.0 kg	2170240
Stratos GIGA-D 65/1-34/3,1	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 65	340 mm	99.0 kg	2170241
Stratos GIGA-D 65/1-17/1,7	IE5	3~440 V, 50 Hz	with differential pressure sensor	0.60 kW	DN 65	340 mm	104.0 kg	2170234
Stratos GIGA-D 65/1-12/1,1	IE5	3~440 V, 50 Hz	with differential pressure sensor	0.60 kW	DN 65	340 mm	104.0 kg	2170235
Stratos GIGA-D 65/1-8/0,6	IE5	3~440 V, 50 Hz	with differential pressure sensor	0.60 kW	DN 65	340 mm	104.0 kg	2170236
Stratos GIGA-D 50/1-33/2,6	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 50	280 mm	95.0 kg	2170227
Stratos GIGA-D 50/1-26/1,9	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 50	280 mm	95.0 kg	2170228
Stratos GIGA-D 50/1-20/1,3	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 50	280 mm	95.0 kg	2170229
Stratos GIGA-D 50/1-14/0,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	0.60 kW	DN 50	280 mm	95.0 kg	2170230
Stratos GIGA-D 40/1-51/4,2	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.80 kW	DN 40	280 mm	95.0 kg	2170222
Stratos GIGA-D 40/1-45/3,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.80 kW	DN 40	280 mm	95.0 kg	2170223
Stratos GIGA-D 40/1-39/3,0	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 40	280 mm	92.0 kg	2170224
Stratos GIGA-D 40/1-32/2,2	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 40	280 mm	92.0 kg	2170225
Stratos GIGA-D 40/1-25/1,6	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 40	280 mm	92.0 kg	2170226
Stratos GIGA-D 80/1-37/5,0	IE5	3~440 V, 50 Hz	with differential pressure sensor	4.80 kW	DN 80	360 mm	137.0 kg	2170244
Stratos GIGA-D 80/1-32/3,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	4.80 kW	DN 80	360 mm	137.0 kg	2170245
Stratos GIGA-D 80/1-21/3,0	IE5	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 80	360 mm	109.0 kg	2170242
Stratos GIGA-D 80/1-16/1,9	IE5	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 80	360 mm	109.0 kg	2170243

Product list: Wilo-Stratos GIGA-D

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-D 50/1-50/4,5	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.80 kW	DN 50	280 mm	96.0 kg	2170231
Stratos GIGA-D 50/1-44/3,8	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.80 kW	DN 50	280 mm	96.0 kg	2170232
Stratos GIGA-D 50/1-38/3,0	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 50	280 mm	93.0 kg	2170233
Stratos GIGA-D 65/1-27/3,0	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 65	340 mm	100.0 kg	2170237
Stratos GIGA-D 65/1-21/2,3	IE5	3~440 V, 50 Hz	with differential pressure sensor	3.10 kW	DN 65	340 mm	100.0 kg	2170238
Stratos GIGA-D 100/1-33/6,0-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	6.00 kW	DN 100	450 mm	158.0 kg	2170304
Stratos GIGA-D 100/1-27/4,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	4.80 kW	DN 100	450 mm	149.0 kg	2170305
Stratos GIGA-D 100/1-17/3,7-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.70 kW	DN 100	450 mm	144.0 kg	2170302
Stratos GIGA-D 100/1-13/2,3-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.70 kW	DN 100	450 mm	144.0 kg	2170303
Stratos GIGA-D 65/1-42/4,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	4.80 kW	DN 65	340 mm	119.0 kg	2170295
Stratos GIGA-D 65/1-38/3,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 65	340 mm	103.0 kg	2170296
Stratos GIGA-D 65/1-34/3,1-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 65	340 mm	99.0 kg	2170297
Stratos GIGA-D 65/1-17/1,7-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	0.60 kW	DN 65	340 mm	104.0 kg	2170290
Stratos GIGA-D 65/1-12/1,1-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	0.60 kW	DN 65	340 mm	104.0 kg	2170291
Stratos GIGA-D 65/1-8/0,6-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	0.60 kW	DN 65	340 mm	104.0 kg	2170292
Stratos GIGA-D 50/1-33/2,6-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 50	280 mm	95.0 kg	2170283
Stratos GIGA-D 50/1-26/1,9-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 50	280 mm	95.0 kg	2170284
Stratos GIGA-D 50/1-20/1,3-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 50	280 mm	95.0 kg	2170285
Stratos GIGA-D 50/1-14/0,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	0.60 kW	DN 50	280 mm	95.0 kg	2170286
Stratos GIGA-D 40/1-51/4,2-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 40	280 mm	95.0 kg	2170278
Stratos GIGA-D 40/1-45/3,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 40	280 mm	95.0 kg	2170279
Stratos GIGA-D 40/1-39/3,0-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 40	280 mm	92.0 kg	2170280
Stratos GIGA-D 40/1-32/2,2-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 40	280 mm	92.0 kg	2170281

Product list: Wilo-Stratos GIGA-D

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-D 40/1-25/1,6-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 40	280 mm	92.0 kg	2170282
Stratos GIGA-D 80/1-37/5,0-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	4.80 kW	DN 80	360 mm	137.0 kg	2170300
Stratos GIGA-D 80/1-32/3,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	4.80 kW	DN 80	360 mm	137.0 kg	2170301
Stratos GIGA-D 80/1-21/3,0-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 80	360 mm	109.0 kg	2170298
Stratos GIGA-D 80/1-16/1,9-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 80	360 mm	109.0 kg	2170299
Stratos GIGA-D 50/1-50/4,5-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 50	280 mm	96.0 kg	2170287
Stratos GIGA-D 50/1-44/3,8-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.80 kW	DN 50	280 mm	96.0 kg	2170288
Stratos GIGA-D 50/1-38/3,0-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 50	280 mm	93.0 kg	2170289
Stratos GIGA-D 65/1-27/3,0-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 65	340 mm	100.0 kg	2170293
Stratos GIGA-D 65/1-21/2,3-R1	IE5	3~440 V, 50 Hz	without differential pressure sensor	3.10 kW	DN 65	340 mm	100.0 kg	2170294