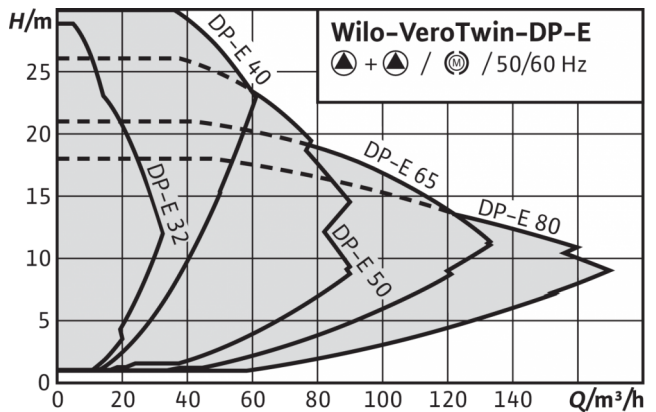


Series description: Wilo-VeroTwin-DP-E

VeroTwin-DPE



VeroTwin-DP-E



Similar to figure

Design type

Electronically controlled glanded double pump in in-line design with flange connection and automatic power adjustment

Application

Pumping of heating water (acc. to 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 (effective only in dual 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

- Energy savings due to integrated electronic power adjustment
- Optional interfaces for bus communication using plug-in IF-Modules
- Simple operation with Green Button Technology and display
- Integrated dual pump management
- Integrated full motor protection (PTC thermistor sensor) with trip electronics

Series description: Wilo-VeroTwin-DP-E

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	DP-E 40/160-4/2-R1
DP-E	In-line double pump with electronic control
40	Nominal diameter DN of the pipe connection
160	Nominal impeller diameter
4	Rated motor power P2 in kW
2	Number of poles
R1	Version without sensor

Technical data

- Permissible temperature range -20 °C to +120 °C
- Mains connection
 - - 3~400 V ±10 %, 50 Hz
 - 3~380 V -5 % +10 %, 60 Hz
- Protection class IP 55
- Nominal diameter DN 32 to DN 80
- Max. operating pressure 10 bar (special version: 16 bar)

Materials

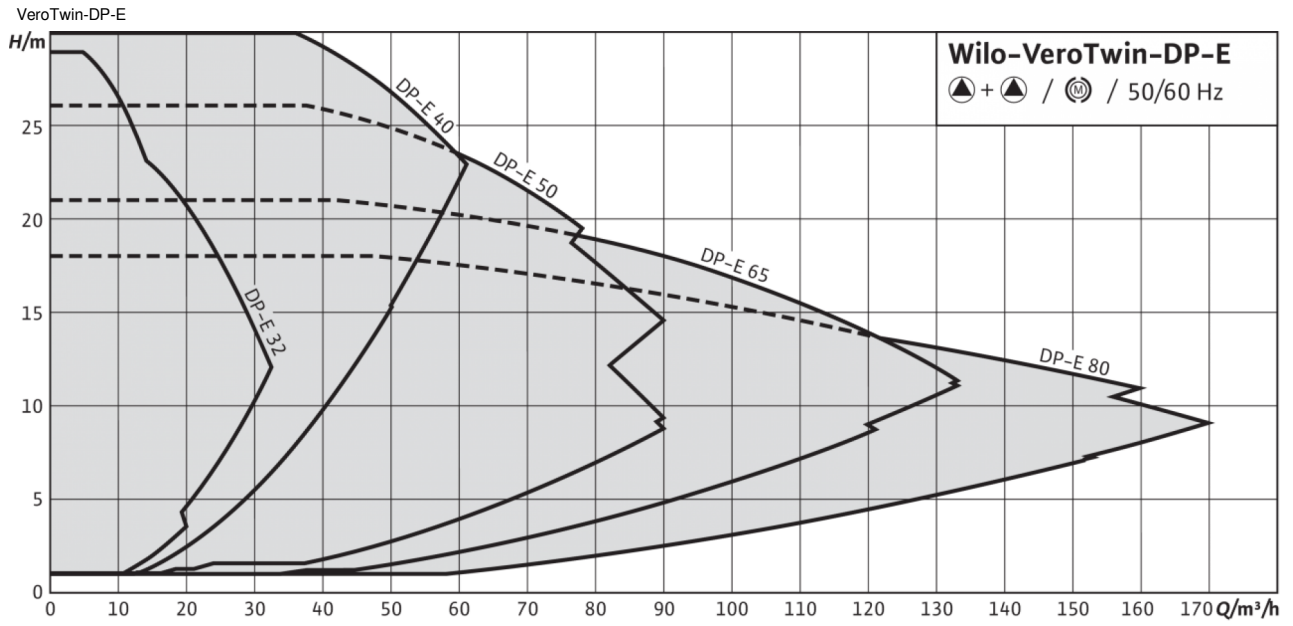
- Pump housing and lantern: EN-GJL-250
- Impeller: PPO-GF30
- Shaft: 1.4021
- Mechanical seal: AQEGG; other mechanical seals on request

Description/construction

Single-stage, low-pressure double pump in in-line design with

- Switchover valve
- Mechanical seal
- Flange connection
- Drive with integrated electronic speed control

Duty chart: Wilo-VeroTwin-DP-E



Product list: Wilo-VeroTwin-DP-E

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
VeroTwin-DP-E 80/110-4/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	4.00 kW	DN 80	360 mm	142.6 kg	2158956
VeroTwin-DP-E 80/105-3/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	3.00 kW	DN 80	360 mm	127.0 kg	2158955
VeroTwin-DP-E 80/115-2,2/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 80	360 mm	108.4 kg	2158954
VeroTwin-DP-E 65/130-4/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	4.00 kW	DN 65	340 mm	125.0 kg	2158953
VeroTwin-DP-E 65/120-3/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	3.00 kW	DN 65	340 mm	113.6 kg	2158952
VeroTwin-DP-E 65/110-2,2/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 65	340 mm	94.0 kg	2158951
VeroTwin-DP-E 65/115-1,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	1.50 kW	DN 65	340 mm	105.4 kg	2158950
VeroTwin-DP-E 50/150-4/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	4.00 kW	DN 50	340 mm	117.5 kg	2158949
VeroTwin-DP-E 50/140-3/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	3.00 kW	DN 50	340 mm	101.9 kg	2158948
VeroTwin-DP-E 50/130-2,2/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 50	340 mm	100.9 kg	2158947
VeroTwin-DP-E 50/105-0,75/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	0.75 kW	DN 50	280 mm	68.4 kg	2158946
VeroTwin-DP-E 40/160-4/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	4.00 kW	DN 40	320 mm	130.1 kg	2158945
VeroTwin-DP-E 40/150-3/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	3.00 kW	DN 40	320 mm	114.5 kg	2158944
VeroTwin-DP-E 40/130-2,2/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	2.20 kW	DN 40	320 mm	99.1 kg	2158943
VeroTwin-DP-E 40/120-1,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	1.50 kW	DN 40	320 mm	97.9 kg	2158942
VeroTwin-DP-E 40/115-0,55/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	0.55 kW	DN 40	250 mm	58.0 kg	2158941
VeroTwin-DP-E 32/135-1,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	1.50 kW	DN 32	260 mm	89.2 kg	2158940
VeroTwin-DP-E 32/135-1,1/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	1.10 kW	DN 32	260 mm	64.0 kg	2158939
VeroTwin-DP-E 32/125-1,1/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	1.10 kW	DN 32	260 mm	64.0 kg	2158938
VeroTwin-DP-E 32/105-0,75/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	0.75 kW	DN 32	260 mm	60.8 kg	2158937
VeroTwin-DP-E 32/95-0,55/2	IE2	3~440 V, 50 Hz	with differential pressure sensor	0.55 kW	DN 32	260 mm	55.0 kg	2158936
VeroTwin-DP-E 80/110-4/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	4.00 kW	DN 80	360 mm	136.0 kg	2159019
VeroTwin-DP-E 80/105-3/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	3.00 kW	DN 80	360 mm	124.0 kg	2159018

Product list: Wilo-VeroTwin-DP-E

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
VeroTwin-DP-E 80/115-2,2/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 80	360 mm	97.6 kg	2159017
VeroTwin-DP-E 65/130-4/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	4.00 kW	DN 65	340 mm	118.4 kg	2159016
VeroTwin-DP-E 65/120-3/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	3.00 kW	DN 65	340 mm	106.4 kg	2159015
VeroTwin-DP-E 65/110-2,2/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 65	340 mm	94.6 kg	2159014
VeroTwin-DP-E 65/115-1,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	1.50 kW	DN 65	340 mm	88.6 kg	2159013
VeroTwin-DP-E 50/150-4/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	4.00 kW	DN 50	340 mm	110.9 kg	2159012
VeroTwin-DP-E 50/140-3/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	3.00 kW	DN 50	340 mm	98.9 kg	2159011
VeroTwin-DP-E 50/130-2,2/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 50	340 mm	101.3 kg	2159010
VeroTwin-DP-E 50/105-0,75/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	0.75 kW	DN 50	280 mm	56.7 kg	2159009
VeroTwin-DP-E 40/160-4/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	4.00 kW	DN 40	320 mm	123.5 kg	2159008
VeroTwin-DP-E 40/150-3/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	3.00 kW	DN 40	320 mm	111.5 kg	2159007
VeroTwin-DP-E 40/130-2,2/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	2.20 kW	DN 40	320 mm	98.5 kg	2159006
VeroTwin-DP-E 40/120-1,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	1.50 kW	DN 40	320 mm	94.5 kg	2159005
VeroTwin-DP-E 40/115-0,55/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	0.55 kW	DN 40	250 mm	51.0 kg	2159004
VeroTwin-DP-E 32/135-1,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	1.50 kW	DN 32	260 mm	61.9 kg	2159003
VeroTwin-DP-E 32/135-1,1/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	1.10 kW	DN 32	260 mm	57.7 kg	2159002
VeroTwin-DP-E 32/125-1,1/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	1.10 kW	DN 32	260 mm	57.7 kg	2159001
VeroTwin-DP-E 32/105-0,75/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	0.75 kW	DN 32	260 mm	53.9 kg	2159000
VeroTwin-DP-E 32/95-0,55/2-R1	IE2	3~440 V, 50 Hz	without differential pressure sensor	0.55 kW	DN 32	260 mm	48.5 kg	2158999