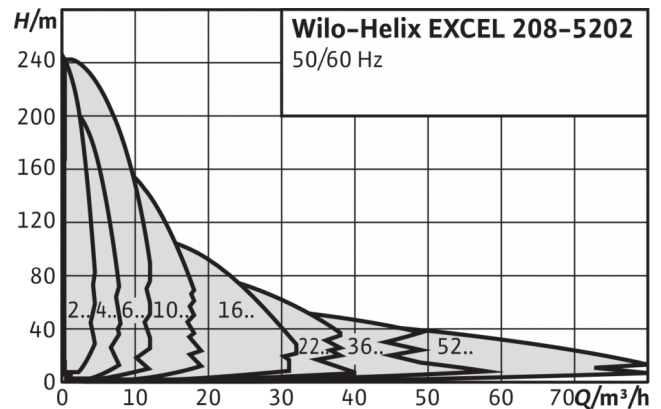


Series description: Wilo-Helix EXCEL

Wilo - Helix EXCEL 22



Helix EXCEL 208-5202



Pump curves in accordance with ISO 9906: 2012 3B

Design type

Non-self-priming, highly efficient fully stainless-steel high-pressure multistage centrifugal pump with EC motor of energy efficiency class IE5 in accordance with IEC 60034-30-2, in vertical design with integrated high-efficiency drive and in-line connections

Application

- Water supply and pressure boosting
- Industrial circulation systems
- Process water
- Closed cooling circuits
- Washing systems
- Irrigation

Equipment/function

- Impellers, guide vanes and stage housings made of corrosion-resistant material

Scope of delivery

- Helix EXCEL high-pressure multistage centrifugal pump
- Installation and operating instructions
- Helix EXCEL 2 - 16 (version PN16 with oval flanges): Counter flanges made of stainless steel with the corresponding screws, nuts and gaskets

Type key

Example:

Helix EXCEL

22
02
2
1

Helix EXCEL 22 02/2 - 1 / 16 / E / KS

Vertical high-pressure multistage centrifugal pump in in-line design (electronically controlled)

Flow rate in m³/h

Number of impellers

Number of trimmed impellers

Pump material

1 = Pump housing 1.4301 (AISI 304)
 Hydraulics 1.4307 (AISI 304L); Baseplate EN-GJL 250, cathoretic coated; [only Helix EXCEL 16.. and smaller]

2 = Pump housing 1.4404 (AISI 316L)
 Hydraulics 1.4404 (AISI 316L) Baseplate EN-GJL 250, cathoretic coated

3 = Pump housing EN-GJL-250 (cathoretic-coated) Hydraulics 1.4307 (AISI 304L); [only Helix 22.. and larger]

Maximum operating pressure in bar

16 = 16 bar (PN 16 flange)

25 = 25 bar (PN 25 flange)

Gasket type E = EPDM V = FKM

Cartridge mechanical seal

The coupling guard is on a line with suction and discharge ports of the pump

Special features/product advantages

- Highly efficient EC motor of energy efficiency class IE5 in accordance with IEC 60034-30-2
- Integrated electronic control "High-Efficiency Drive"
- Simple operation thanks to tried-and-tested Green Button Technology and a clearly arranged display
- User-friendly "X-Seal" cartridge mechanical seal and spacer coupling (from 5.5 kW) for fast and easy maintenance
- Flexible integration into building automation
- Drinking water approval for pumps with parts that come in contact with the fluid made of stainless steel (EPDM version)

Series description: Wilo-Helix EXCEL

Technical data

- Electrical connection:
 - 3~ 50 Hz : 400V +/-10%
 - 3~ 60 Hz : 380V +/-10%
 - 3~ 60 Hz : 480V +/-10%
- Fluid temperature range:
 - Helix EXCEL 2 – 16 (EPDM): -30 to 120 °C
 - Helix EXCEL 2 – 16 for aggressive media (FKM): -15 to 90 °C
 - Helix EXCEL22 – 36 (EPDM): -20 to 120 °C
 - Helix EXCEL22 – 36 for aggressive media (FKM): -15 to 90 °C (-30 to 120 °C with EPDM gasket on request)
- Max. operating pressure: 16/25 bar
- Protection class: IP 55
- Max. ambient temperature: -15 to +50°C (extended temperature ranges on request)
- Available versions:
 - Helix EXCEL 2 – 16: PN 16 with oval flanges, PN 25 with round flanges according to ISO 2531 and ISO 7005
 - Helix EXCEL 22 – 36: PN 16 and PN 25 with round flanges according to ISO 2531 and ISO 7005

Materials

Helix EXCEL 2, 4, 6, 10, 16:

Standard version

- Impellers, stage housings and guide vanes made of stainless steel 1.4307 (AISI 304L)
- Pump housing made of stainless steel 1.4301 (AISI 304)
- Baseplate and lantern in EN-GJL-250 (cataphoretic coated)
- Shaft made of stainless steel 1.4301 (AISI 304) or 1.4462 (AISI 318LN) (depending on version)
- Sleeve under the mechanical seal 1.4404 (AISI 316L)
- O-ring of EPDM (FKM gasket on request)
- Jacket pipe made of stainless steel 1.4301 (AISI 304)

For aggressive media

- Impellers, stage housings and guide vane made of stainless steel 1.4404 (AISI316L)
- Pump housing of stainless steel 1.4404 (AISI 316L)
- Shaft made of stainless steel 1.4404 (AISI 316L) or 1.4462 (AISI318LN) (depending on version)
- Sleeve under the mechanical shaft seal 1.4404 (AISI 316L)
- O-ring of FKM (EPDM gasket on request)
- Jacket pipe made of stainless steel 1.4404 (AISI 316L)

Helix EXCEL 22, 36, 52:

Standard version

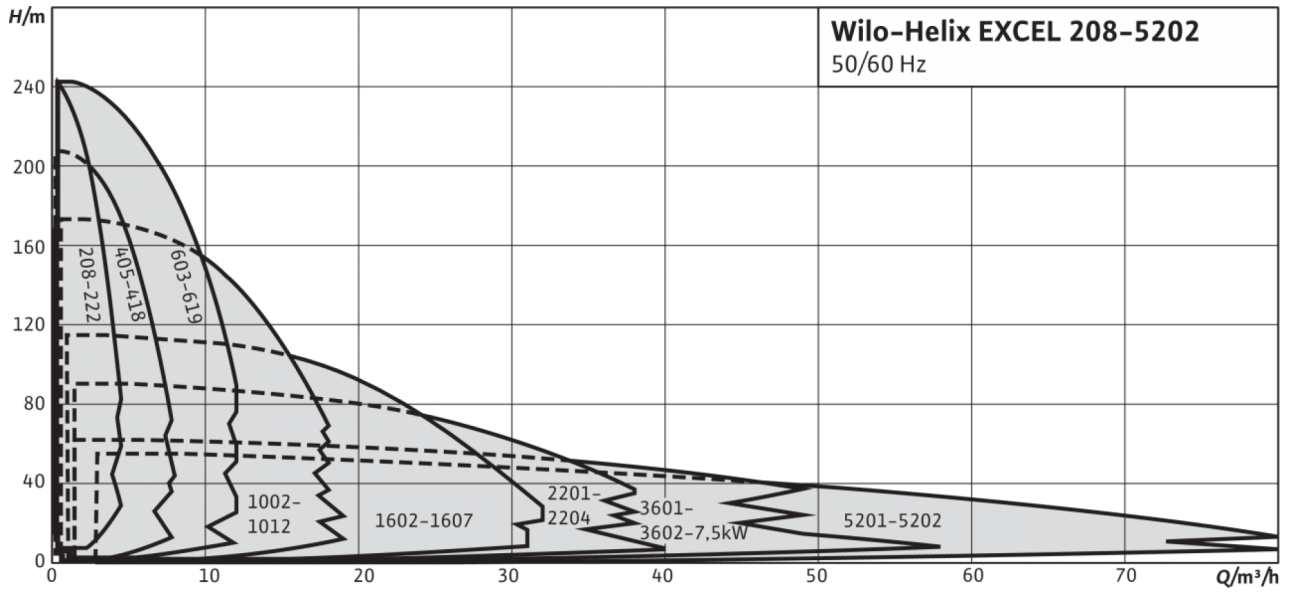
- Stage housings, impellers, guide vane made of stainless steel 1.4307 (AISI 304L)
- Pump housing made of stainless steel 1.4301 (AISI 304) or cataphoretic-coated grey cast iron EN-GJL 250; loose flanges made of cataphoretic-coated grey cast iron EN-GJL 250 for Helix V 22/ EN-GJS 400 for Helix EXCEL 36-52
- Shaft made of stainless steel 1.4057 (AISI 431)
- Sleeve under the mechanical seal 1.4404 (AISI 316L)
- O-ring of FKM (EPDM gasket on request)
- Jacket pipe made of stainless steel 1.4301 (AISI 304)

For aggressive media

- Stage housings, impellers, guide vane made of stainless steel 1.4404 (AISI 316L)
- Pump housing made of stainless steel 1.4409 (AISI316L); loose flanges of cataphoretic-coated grey cast iron EN-GJL 250 for Helix EXCEL 22 / EN-GJS 400 for Helix EXCEL 36-52
- Baseplate of stainless steel 1.4301 (AISI 304)
- Shaft made of stainless steel 1.4404 (AISI316L) or 1.4462 (AISI 318LN) (depending on version)
- Sleeve under the mechanical shaft seal 1.4404 (AISI 316L)
- O-ring of FKM (EPDM gasket on request)
- Jacket pipe made of stainless steel 1.4404 (AISI 316L)

Duty chart: Wilo-Helix EXCEL

Helix EXCEL 208-5202



Pump curves in accordance with ISO 9906: 2012 3B

Product list: Wilo-Helix EXCEL

Product description	Rated power P_2	Pipe connection	Gross weight, approx. m	Article number
Helix EXCEL 619-1/25/E/KS	7.50 kW	DN 32	147.5 kg	4171956
Helix EXCEL 616-1/25/E/KS	6.50 kW	DN 32	144.5 kg	4171952
Helix EXCEL 613-1/25/E/KS	5.50 kW	DN 32	130.0 kg	4171948
Helix EXCEL 611-1/25/E/KS	4.20 kW	DN 32	87.5 kg	4171946
Helix EXCEL 609-1/25/E/KS	3.20 kW	DN 32	78.9 kg	4162528
Helix EXCEL 606-1/25/E/KS	2.20 kW	DN 32	75.5 kg	4162520
Helix EXCEL 619-2/25/V/KS	7.50 kW	DN 32	147.5 kg	4171957
Helix EXCEL 616-2/25/V/KS	6.50 kW	DN 32	144.5 kg	4171953
Helix EXCEL 613-2/25/V/KS	5.50 kW	DN 32	130.0 kg	4171949
Helix EXCEL 611-2/25/V/KS	4.20 kW	DN 32	87.5 kg	4171941
Helix EXCEL 603-2/25/V/KS	1.10 kW	DN 32	71.4 kg	4171937
Helix EXCEL 609-2/25/V/KS	3.20 kW	DN 32	78.9 kg	4162523
Helix EXCEL 606-2/25/V/KS	2.20 kW	DN 32	75.5 kg	4162515
Helix EXCEL 611-1/16/E/KS	4.20 kW	G 1¼	85.5 kg	4171940
Helix EXCEL 603-1/16/E/KS	1.10 kW	G 1¼	69.4 kg	4171934
Helix EXCEL 609-1/16/E/KS	3.20 kW	G 1¼	76.9 kg	4162522
Helix EXCEL 606-1/16/E/KS	2.20 kW	G 1¼	74.5 kg	4162514
Helix EXCEL 5202-1/16/E/KS	7.50 kW	DN 80	168.0 kg	4212785
Helix EXCEL 5202-1/16/E/KS	5.50 kW	DN 80	138.0 kg	4212781
Helix EXCEL 5201-1/16/E/KS	4.20 kW	DN 80	130.0 kg	4212777
Helix EXCEL 5202-2/16/V/KS	7.50 kW	DN 80	151.0 kg	4171807
Helix EXCEL 5202-1-2/16/V/KS	5.50 kW	DN 80	135.5 kg	4171801
Helix EXCEL 5201-2/16/V/KS	4.20 kW	DN 80	124.0 kg	4171795
Helix EXCEL 418-2/25/V/KS	4.20 kW	DN 25	86.5 kg	4171967
Helix EXCEL 405-2/25/V/KS	1.10 kW	DN 25	71.4 kg	4171963
Helix EXCEL 414-2/25/V/KS	3.20 kW	DN 25	78.9 kg	4162539
Helix EXCEL 410-2/25/V/KS	2.20 kW	DN 25	77.5 kg	4162531
Helix EXCEL 418-1/25/E/KS	4.20 kW	DN 25	86.5 kg	4171966
Helix EXCEL 414-1/25/E/KS	3.20 kW	DN 25	78.9 kg	4162544
Helix EXCEL 410-1/25/E/KS	2.20 kW	DN 25	77.5 kg	4162536
Helix EXCEL 405-1/16/E/KS	1.10 kW	G 1½	69.4 kg	4171960
Helix EXCEL 414-1/16/E/KS	3.20 kW	G 1½	76.9 kg	4162538
Helix EXCEL 410-1/16/E/KS	2.20 kW	G 1½	74.5 kg	4162530
Helix EXCEL 3602-7.5-2/25/V/KS	7.50 kW	DN 65	139.5 kg	4171830
Helix EXCEL 3602-2/16/V/KS	7.50 kW	DN 65	136.5 kg	4171826
Helix EXCEL 3602-2/16/V/KS	4.20 kW	DN 65	121.0 kg	4171819
Helix EXCEL 3602/2-2/16/V/KS	4.20 kW	DN 65	115.0 kg	4196395
Helix EXCEL 3601-2/16/V/KS	3.20 kW	DN 65	97.9 kg	4162473
Helix EXCEL 3602-1/16/E/KS	4.20 kW	DN 65	131.0 kg	4212815
Helix EXCEL 3602-1/16/E/KS	7.50 kW	DN 65	165.0 kg	4212794
Helix EXCEL 3602-1/16/E/KS	4.20 kW	DN 65	131.0 kg	4212789
Helix EXCEL 3601-1/16/E/KS	3.20 kW	DN 65	98.0 kg	4212765
Helix EXCEL 2204-2/25/V/KS	7.50 kW	DN 50	125.5 kg	4171866
Helix EXCEL 2203-6.5-2/25/V/KS	6.50 kW	DN 50	121.5 kg	4171856
Helix EXCEL 2203-5.5-2/25/V/KS	4.20 kW	DN 50	108.5 kg	4171846
Helix EXCEL 2204-1/16/E/KS	7.50 kW	DN 50	164.0 kg	4212809
Helix EXCEL 2203-1/16/E/KS	6.50 kW	DN 50	158.0 kg	4212804

Product list: Wilo-Helix EXCEL

Product description	Rated power P_2	Pipe connection	Gross weight, approx. m	Article number
Helix EXCEL 2203-1/16/E/KS	4.20 kW	DN 50	132.0 kg	4212801
Helix EXCEL 2203-1/16/E/KS	4.20 kW	DN 50	132.0 kg	4212796
Helix EXCEL 2202-1/16/E/KS	3.20 kW	DN 50	96.0 kg	4212773
Helix EXCEL 2201-1/16/E/KS	2.20 kW	DN 50	95.0 kg	4212769
Helix EXCEL 2204-2/16/V/KS	7.50 kW	DN 50	125.5 kg	4171862
Helix EXCEL 2203-2/16/V/KS	6.50 kW	DN 50	121.5 kg	4171852
Helix EXCEL 2203-2/16/V/KS	4.20 kW	DN 50	101.1 kg	4171842
Helix EXCEL 2203-2/16/V/KS	4.20 kW	DN 50	95.5 kg	4171835
Helix EXCEL 2202-2/16/V/KS	3.20 kW	DN 50	99.1 kg	4162485
Helix EXCEL 2201-2/16/V/KS	2.20 kW	DN 50	89.5 kg	4162479
Helix EXCEL 222-1/25/E/KS	3.20 kW	DN 25	83.9 kg	4162550
Helix EXCEL 216-1/25/E/KS	2.20 kW	DN 25	80.5 kg	4162546
Helix EXCEL 208-2/25/V/KS	1.10 kW	DN 25	74.4 kg	4171973
Helix EXCEL 222-2/25/V/KS	3.20 kW	DN 25	83.9 kg	4162551
Helix EXCEL 216-2/25/V/KS	2.20 kW	DN 25	80.5 kg	4162547
Helix EXCEL 208-1/16/E/KS	1.10 kW	G 1½	71.4 kg	4171970
Helix EXCEL 1607-1/25/E/KS	7.50 kW	DN 50	114.5 kg	4171898
Helix EXCEL 1606-1/25/E/KS	6.50 kW	DN 50	113.5 kg	4171890
Helix EXCEL 1605-1/25/E/KS	5.50 kW	DN 50	99.5 kg	4171882
Helix EXCEL 1604-1/25/E/KS	4.20 kW	DN 50	85.5 kg	4171874
Helix EXCEL 1607-2/25/V/KS	7.50 kW	DN 50	114.5 kg	4171893
Helix EXCEL 1606-2/25/V/KS	6.50 kW	DN 50	113.5 kg	4171885
Helix EXCEL 1605-2/25/V/KS	5.50 kW	DN 50	99.5 kg	4171877
Helix EXCEL 1604-2/25/V/KS	4.20 kW	DN 50	85.5 kg	4171869
Helix EXCEL 1603-2/25/V/KS	3.20 kW	DN 50	78.9 kg	4162497
Helix EXCEL 1602-2/25/V/KS	2.20 kW	DN 50	77.5 kg	4162491
Helix EXCEL 1607-1/16/E/KS	7.50 kW	G 2	114.5 kg	4171892
Helix EXCEL 1606-1/16/E/KS	6.50 kW	G 2	113.5 kg	4171884
Helix EXCEL 1605-1/16/E/KS	5.50 kW	G 2	92.1 kg	4171876
Helix EXCEL 1604-1/16/E/KS	4.20 kW	G 2	85.5 kg	4171868
Helix EXCEL 1603-1/16/E/KS	3.20 kW	G 2	78.9 kg	4162494
Helix EXCEL 1602-1/16/E/KS	2.20 kW	G 2	77.5 kg	4162488
Helix EXCEL 1012-1/25/E/KS	7.50 kW	DN 40	115.7 kg	4171930
Helix EXCEL 1010-1/25/E/KS	6.50 kW	DN 40	113.9 kg	4171928
Helix EXCEL 1009-1/25/E/KS	5.50 kW	DN 40	100.9 kg	4171920
Helix EXCEL 1007-1/25/E/KS	4.20 kW	DN 40	85.3 kg	4171912
Helix EXCEL 1005-1/25/E/KS	3.20 kW	DN 40	77.2 kg	4162512
Helix EXCEL 1012-2/25/V/KS	7.50 kW	DN 40	115.7 kg	4171931
Helix EXCEL 1010-2/25/V/KS	6.50 kW	DN 40	113.9 kg	4171923
Helix EXCEL 1009-2/25/V/KS	5.50 kW	DN 40	100.9 kg	4171915
Helix EXCEL 1007-2/25/V/KS	4.20 kW	DN 40	85.3 kg	4171907
Helix EXCEL 1002-2/25/V/KS	1.10 kW	DN 40	72.4 kg	4171903
Helix EXCEL 1005-2/25/V/KS	3.20 kW	DN 40	77.2 kg	4162507
Helix EXCEL 1004-2/25/V/KS	2.20 kW	DN 40	75.9 kg	4162503
Helix EXCEL 1010-1/16/E/KS	6.50 kW	G 1½	113.4 kg	4171922
Helix EXCEL 1009-1/16/E/KS	5.50 kW	G 1½	93.0 kg	4171914
Helix EXCEL 1007-1/16/E/KS	4.20 kW	G 1½	85.3 kg	4171906



Product list: Wilo-Helix EXCEL

Product description	Rated power P_2	Pipe connection	Gross weight, approx. m	Article number
Helix EXCEL 1002-1/16/E/KS	1.10 kW	G 1½	71.8 kg	4171900
Helix EXCEL 1005-1/16/E/KS	3.20 kW	G 1½	77.2 kg	4162506
Helix EXCEL 1004-1/16/E/KS	2.20 kW	G 1½	75.9 kg	4162500