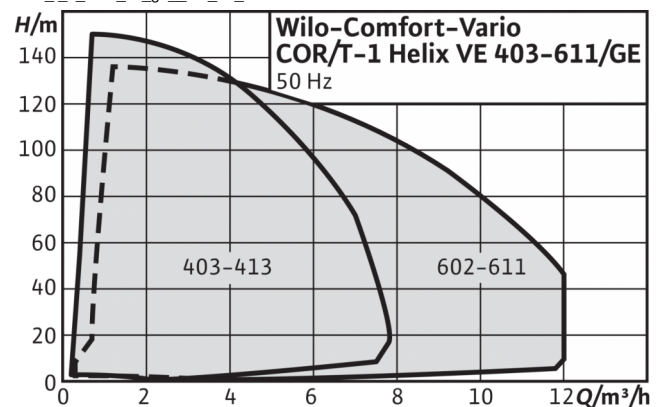


## Series description: Wilo-Comfort-Vario COR/T-1 Helix VE...-GE

Wilo-COR-T 1 Helix VE



cor\_t\_1\_helix\_ve\_ge\_dut\_01\_1708



### Design type

Water-supply unit with system separation and a non self-priming high-pressure multistage centrifugal pump with speed-controlled motor

### Application

- Fully automatic water supply and pressure boosting in residential, commercial and public buildings, hotels, hospitals, department stores and for industrial systems.
- Pumping of drinking water and process water, cooling water, fire water (apart from fire-extinguishing systems in accordance with DIN 14462 and with the approval of the local fire safety authorities) or other types of industrial water that do not attack the materials either chemically or mechanically and do not contain abrasive or long-fibre constituents.

### Equipment/function

- 1 pump of the Helix VE 4 or Helix VE 6 series with IE4-equivalent standard motor and continuous auto control with integrated frequency converter
- Maximum stage number: 13
- PE break tank, atmospherically ventilated (150 l) for direct connection to the public water supply network. System separation takes place in accordance with DIN EN 1717, "Free drain", type AB in accordance with EN 13077
- Components that come in contact with fluid are corrosion-resistant
- Shut-off device, on the pressure side
- Non-return valve, on suction side
- Break tank including float valve and float switch (low-water signal transmitter)
- Diaphragm pressure vessel 8 l, PN 16, on the pressure side
- Low-water cut-out switchgear

### Scope of delivery

- factory-mounted, ready for connection pressure-boosting system checked for functionality and impermeability
- Packaging
- Installation and operating instructions

### Type key

Example:	<b>Wilo-COR/T-1 Helix VE 403</b>
<b>COR</b>	Compact pressure-boosting system with integrated speed control
<b>T</b>	With integrated break tank for system separation
<b>1</b>	With one pump
<b>Helix VE</b>	Pump series with integrated speed control
<b>4</b>	Rated volume flow of the single pump [m³/h]
<b>03</b>	Number of single pump stages

### Technical data

- Mains connection 3~400 V ±10 %, 50 Hz; 3~380/440 V ±10 %, 60 Hz
- Max. fluid temperature 40 °C
- Max. ambient temperature of 40 °C
- Operating pressure 16 bar
- Inlet pressure 6 bar
- Switching pressure stages 6/10/16 bar
- Nominal connection diameters on discharge side Rp 1 1/4"
- Nominal connection diameters on inlet side Rp 1 1/4"
- Rated speed 1500 - 3770 rpm
- Switching capacity P2 max. at max. 10 A = 4 kW
- Approved fluids (other fluids on request): Note on fluids: Approved fluids are generally waters which do not attack the materials used, neither chemically nor mechanically, and do not contain any abrasive or long-fibre constituents.
  - pure water without settling sediments
  - Process water, cold water, cooling water and rainwater
  - Drinking water
  - Fire water

### Special features/product advantages

- Compact ready for connection system for all applications which make a system separation necessary by means of safety device "Free drain", type AB according to EN 13077
- Heavy-duty system due to Helix VE series stainless steel high-pressure multistage centrifugal pumps with air-cooled integrated frequency converters
- Lower life cycle costs due to new Helix design
- User-friendly display with Green Button Technology and full text menu
- IF plug-in module for quick communication with the BMS

## Series description: Wilo-Comfort-Vario COR/T-1 Helix VE...-GE

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### Materials

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- Impellers and stage chambers stainless steel 1.4301
- Pump housing made of 1.4301 stainless steel
- Shaft stainless steel 1.4301
- Gasket EPDM (EP 851) / FKM (Viton)
- Housing cover made of 1.4301 stainless steel
- Housing bottom made of 1.4301 stainless steel
- Mechanical seal of B-carbon/tungsten carbide, SiC/carbon
- Pressure shroud made of 1.4301 stainless steel
- Bearing of tungsten carbide
- Pump base EN-GJL-250
- Pipework made of 1.4307 stainless steel

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### Description/construction

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- Ready for connection water-supply unit, constructed on PE baseplate, complete pipework, including all necessary valves and shut-off devices (excluding intake side shut-off device), kit pressure sensor, stainless steel high-pressure multistage centrifugal pump in glanded version with integrated frequency converter (series Helix VE)
- Diaphragm pressure vessel: 8 l/PN 16 located on the discharge side with a butyl rubber diaphragm, completely safe in accordance with food safety laws; for testing and inspection purposes, with a shut-off device, with drain and flow device according to DIN 4807

## Product list: Wilo-Comfort-Vario COR/T-1 Helix VE...-GE

Product description	Control	Mains connection	Maximum operating pressure <i>PN</i>	Number of standby pumps	System output without standby pump <i>Q</i>	Gross weight, approx. <i>m</i>	Article number
COR/T-1 Helix VE611-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	12.0 m <sup>3</sup> /h	158.0 kg	2547972
COR/T-1 Helix VE608-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	12.0 m <sup>3</sup> /h	147.0 kg	2547971
COR/T-1 Helix VE606-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	12.0 m <sup>3</sup> /h	137.0 kg	2547970
COR/T-1 Helix VE604-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	12.0 m <sup>3</sup> /h	135.0 kg	2547969
COR/T-1 Helix VE603-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	12.0 m <sup>3</sup> /h	128.0 kg	2547968
COR/T-1 Helix VE602-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	12.0 m <sup>3</sup> /h	126.0 kg	2547967
COR/T-1 Helix VE413-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	8.0 m <sup>3</sup> /h	147.0 kg	2547966
COR/T-1 Helix VE410-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	8.0 m <sup>3</sup> /h	138.0 kg	2547965
COR/T-1 Helix VE407-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	8.0 m <sup>3</sup> /h	136.0 kg	2547964
COR/T-1 Helix VE405-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	8.0 m <sup>3</sup> /h	128.0 kg	2547963
COR/T-1 Helix VE404-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	8.0 m <sup>3</sup> /h	126.0 kg	2547962
COR/T-1 Helix VE403-GE	With frequency converter	3~400 V, 50 Hz	16 bar	0	8.0 m <sup>3</sup> /h	123.0 kg	2547961