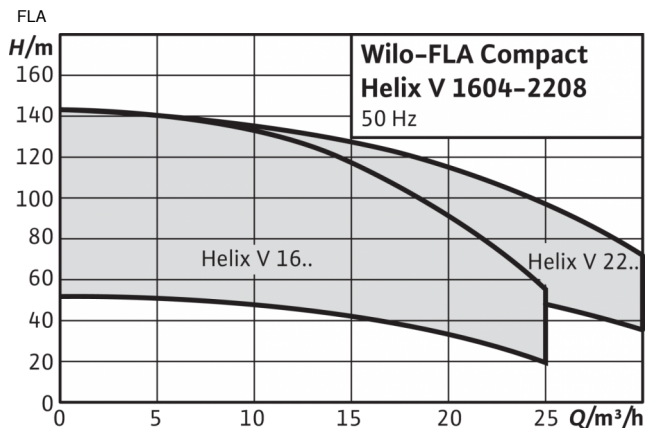


Series description: Wilo-FLA Compact-2 Helix V

Wilo-FLA 2 Helix V 3604



Design type

Pressure boosting system for fire fighting in accordance with DIN 14462 for indirect connection.

With 2 vertical, stainless steel high-pressure multistage centrifugal pumps in glanded version and break tank.

Application

Fully automatic water supply for fire extinguishing systems with type "F" fire hose reels in domestic, commercial and public buildings, hotels, hospitals, shopping centres and industrial systems

Equipment/function

- 2 Helix FIRST V 16, 22 series pumps, equipped with IE2 motors
- Automatic pump control via FLA control unit
- Components that come in contact with the fluid are corrosion-resistant
- Base frame made of galvanised steel, with height-adjustable vibration absorbers for insulation against structure-borne noise
- Pipework made of 1.4301 stainless steel
- Shut-off ball valve on the pressure side of each pump
- Gate valve between each pump and break tank
- Non-return valve, on the discharge side of each pump
- Preset valve at pump outlet of each pump for minimum bypass flow
- Pressure switch, on the pressure side of each pump
- Pressure gauge, on the pressure side
- Diaphragm pressure vessel 8 l, PN 16, on the pressure side
- Atmospherically ventilated break tank in accordance with DIN 14462 with free exhaust in accordance with EN 13077, type AB in accordance with DIN EN 1717

Rectangular PEHD tank with water level indicator

- Drainage
- Float switch as low-water signal transmitter
- Venting and exhaust with valve plate
- Inspection opening with cover, which can be sealed without any tools
- Internal wash plates to reduce the flow rate of the fluid
- 2 x inlet, 2 x draw-off connection
- Overflow as free outlet, type AB in accordance with DIN EN 1717 with non-circular cross-section

Scope of delivery

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

Type key

Example:

FLA
Compact
2
Helix V
16
04
DS8

Wilo-FLA Compact-2 Helix V 1604 DS8

Fire extinguishing system
 with break tank
 Number of pumps
 Pump series
 Rated volume flow [m³/h]
 Number of pump stages
 Pressure control up to 8 bar (pump type-dependent)

Special features/product advantages

- Compact system with 2 Helix FIRST V series stainless steel high-pressure multistage centrifugal pumps, in accordance with DIN 1988 and DIN 14462 (redundancy for 2-pump systems)
- Complete system which is supplied with a round tank (approved for drinking water) connected directly to the suction connection of the pump
- Hydraulic power within the series of up to 18 m³/h for 100 m delivery head
- Easily adjustable and operationally reliable due to the FLA operating unit (TÜV tested)
- Preconfigured bypass flow, for pump protection with low flow

Series description: Wilo-FLA Compact-2 Helix V

Technical data

- Mains connection 3~400 V, 50 Hz
- Max. fluid temperature 50 °C
- Rated pressure 16 bar
- Operating pressure up to 16 bar
- Inlet pressure from break tank < 1 bar
- Nominal connection diameter on the pressure side R 21/2" - R 3"
- Nominal connection diameter of the float valve in the break tank 2 x G2"
- Operating unit protection class IP 54
- Rectangular break tank (540 l)

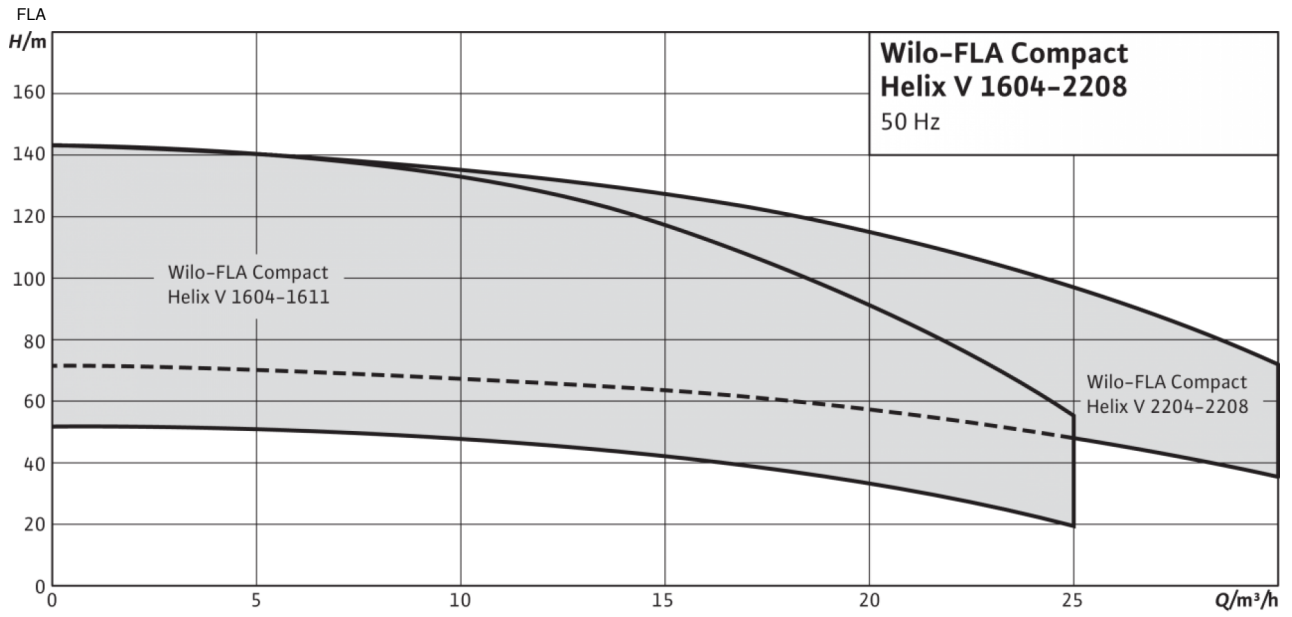
Materials

- Impellers, diffusers, stage housing made of stainless steel 1.4307
- Pump housing made of EN-GJL-250, cathodically coated
- Shaft of stainless steel 1.4057
- 1.4404 shaft protection sleeve
- O-Ring gaskets made of EPDM (FKM gasket on request)
- Rectangular tank made of black PE-HD
- Pipework made of 1.4301 stainless steel

Description/construction

- Base frame: made of electrolytically galvanised steel and provided with height-adjustable vibration absorbers for comprehensive insulation against structure-borne noise; other versions on request
- Pipework: complete pipework made of stainless steel 1.4301, suitable for the connection of all conventional piping materials; the pipework is dimensioned according to the overall hydraulic performance of the FLA pressure boosting system
- Pumps: Helix FIRST V 16, 22 series pumps; all pump components in contact with fluid are made of stainless steel/EN-GJL-250, with cathodetic coating. For more information about the pump, please refer to the catalogue section "High-pressure multistage centrifugal pumps"
- Valves: A special brass valve is located at the upper end of the hydraulic section of the pumps for returning a bypass volume flow to the break tank. This valve and the shut-off devices are sealed and protected against unauthorised adjustment.
- Diaphragm pressure vessel: 8 l/PN 16 arranged on the discharge side. For testing and inspection purposes, equipped with a special throughflow fitting that enables the diaphragm pressure vessel to be shut-off and drained
- Pressure switch: A pressure switch is arranged on the discharge side of each pump, for activation of the central FLA controller
- Pressure indication: Pressure gauge (ø 63 mm) on the discharge side; additional digital display of operating pressure and setting parameters in the FLA controller
- Control device/controller: The system is equipped with a specific FLA controller as standard
- Break tank: The system is supplied with a break tank (540 l). This is equipped with 2 float valves and a specific spray water device approved for drinking water to ensure compliance with the Drinking Water Ordinance

Duty chart: Wilo-FLA Compact-2 Helix V



Product list: Wilo-FLA Compact-2 Helix V

Product description	System output without standby pump <i>Q</i>	Gross weight, approx. <i>m</i>	Maximum operating pressure <i>PN</i>	Number of standby pumps	Article number
FLA Compact-2 Helix V 2208 DS16	18.0 m ³ /h	676.0 kg	16 bar	1	2540143
FLA Compact-2 Helix V 2207 DS16	18.0 m ³ /h	596.0 kg	16 bar	1	2540142
FLA Compact-2 Helix V 2206 DS16	18.0 m ³ /h	566.0 kg	16 bar	1	2540141
FLA Compact-2 Helix V 2205 DS10	18.0 m ³ /h	564.0 kg	10 bar	1	2540140
FLA Compact-2 Helix V 2204 DS8	18.0 m ³ /h	532.0 kg	10 bar	1	2540139
FLA Compact-2 Helix V 1611 DS16	18.0 m ³ /h	538.0 kg	16 bar	1	2540137
FLA Compact-2 Helix V 1610 DS16	18.0 m ³ /h	536.0 kg	16 bar	1	2540136
FLA Compact-2 Helix V 1609 DS16	18.0 m ³ /h	532.0 kg	16 bar	1	2540135
FLA Compact-2 Helix V 1608 DS16	18.0 m ³ /h	488.0 kg	16 bar	1	2540134
FLA Compact-2 Helix V 1607 DS10	18.0 m ³ /h	486.0 kg	10 bar	1	2540133
FLA Compact-2 Helix V 1606 DS8	18.0 m ³ /h	375.0 kg	10 bar	1	2540132
FLA Compact-2 Helix V 1605 DS8	18.0 m ³ /h	465.0 kg	10 bar	1	2540131
FLA Compact-2 Helix V 1604 DS8	18.0 m ³ /h	449.0 kg	10 bar	1	2540130