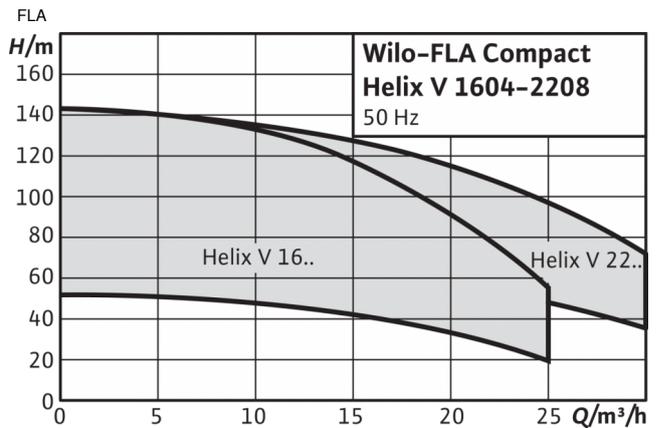


## Series description: Wilo-FLA Compact-1 Helix V

Wilo-FLA Compact



Similar to figure

### Design type

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

With a vertical, stainless steel high-pressure multistage centrifugal pump 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

- One Helix FIRST V 16, 22 series pump, 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
- Gate valve between pump and break tank
- Non-return valve, on the discharge side
- Preset valve at pump outlet for minimum bypass flow
- Pressure switch, on the pressure side
- 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

Round 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
- Inlet, draw-off connection
- Overflow as free outlet, type AB in accordance with DIN EN 1717 with non-circular cross-section

### Special features/product advantages

- Compact system with one Helix FIRST V series stainless steel high-pressure multistage centrifugal pump, 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-1 Helix V

### 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:	<b>Wilo-FLA Compact-1 Helix V 1604 DS8</b>
<b>FLA</b>	Fire extinguishing system
<b>Compact</b>	with break tank
<b>1</b>	Number of pumps
<b>Helix V</b>	Pump series
<b>16</b>	Rated volume flow [m <sup>3</sup> /h]
<b>04</b>	Number of pump stages
<b>DS8</b>	Pressure control up to 8 bar (pump type-dependent)

### 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 1 1/2" - R 2"
- Nominal connection diameter of the float valve in the break tank G2"
- Operating unit protection class IP 54
- Round break tank (540 l)

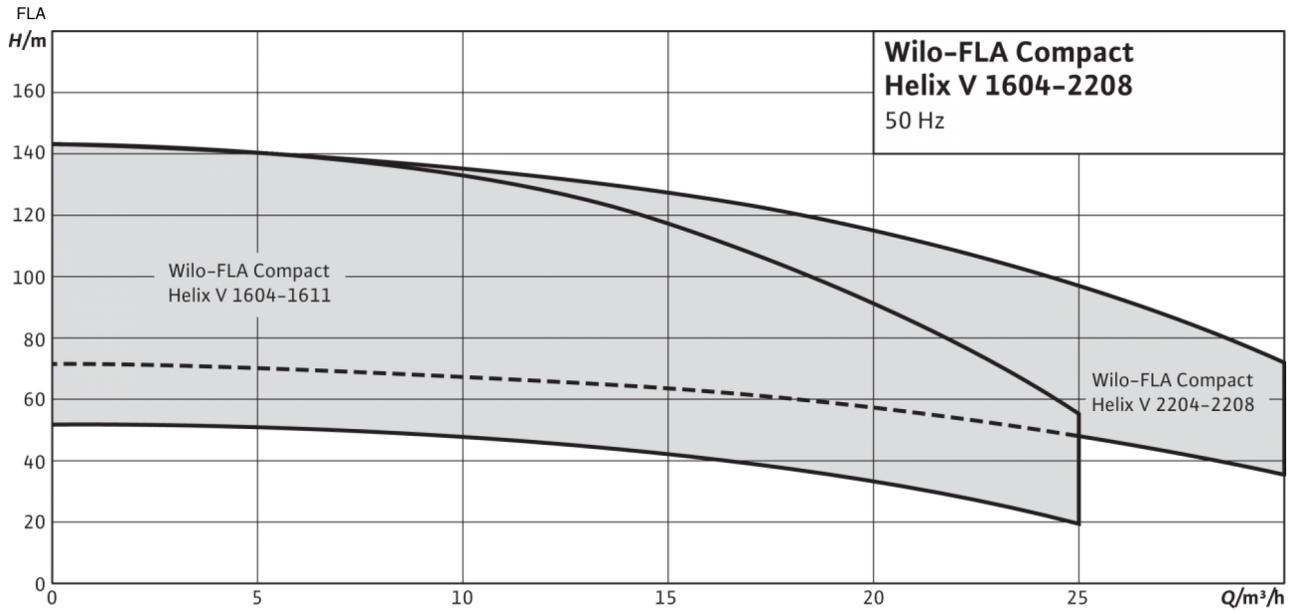
### Materials

- 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)
- Round 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 pump 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 I/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 arranged on the discharge side, 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 a float valve and a specific spray water device approved for drinking water to ensure compliance with the Drinking Water Ordinance

### Duty chart: Wilo-FLA Compact-1 Helix V



## Product list: Wilo-FLA Compact-1 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-1 Helix V 2208 DS16	18.0 m <sup>3</sup> /h	359.0 kg	16 bar	0	2540120
FLA Compact-1 Helix V 2207 DS16	18.0 m <sup>3</sup> /h	319.0 kg	16 bar	0	2540119
FLA Compact-1 Helix V 2206 DS16	18.0 m <sup>3</sup> /h	304.0 kg	16 bar	0	2540118
FLA Compact-1 Helix V 2205 DS10	18.0 m <sup>3</sup> /h	303.0 kg	10 bar	0	2540117
FLA Compact-1 Helix V 2204 DS8	18.0 m <sup>3</sup> /h	286.0 kg	10 bar	0	2540116
FLA Compact-1 Helix V 1611 DS16	25.0 m <sup>3</sup> /h	298.0 kg	16 bar	0	2540114
FLA Compact-1 Helix V 1610 DS16	25.0 m <sup>3</sup> /h	297.0 kg	16 bar	0	2540113
FLA Compact-1 Helix V 1609 DS16	25.0 m <sup>3</sup> /h	294.0 kg	16 bar	0	2540112
FLA Compact-1 Helix V 1608 DS16	25.0 m <sup>3</sup> /h	280.0 kg	16 bar	0	2540111
FLA Compact-1 Helix V 1607 DS10	25.0 m <sup>3</sup> /h	278.0 kg	10 bar	0	2540110
FLA Compact-1 Helix V 1606 DS8	25.0 m <sup>3</sup> /h	238.0 kg	10 bar	0	2540109
FLA Compact-1 Helix V 1605 DS8	25.0 m <sup>3</sup> /h	236.0 kg	10 bar	0	2540108
FLA Compact-1 Helix V 1604 DS8	25.0 m <sup>3</sup> /h	222.0 kg	10 bar	0	2540107