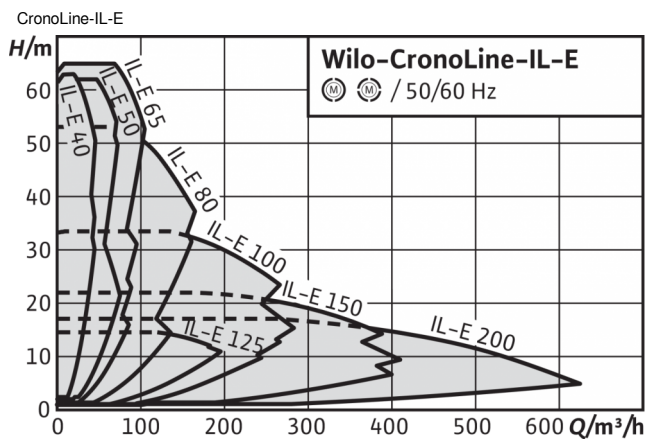


## Series description: Wilo-CronoLine-IL-E

Wilo-CronoLine IL-E



### Design type

Electronically controlled glanded single 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.

### 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-CronoLine-IL-E

### Equipment/function

#### Operating modes

- $\Delta p$ -c for constant differential pressure
- $\Delta p$ -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

#### 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	<b>IL-E 50/170-7,5/2-R1</b>
IL-E	In-line pump with electronic control
50	Nominal diameter DN of the pipe connection
170	Nominal impeller diameter
7,5	Rated motor power P2 in kW
2	Number of poles
R1	Version without pressure sensor

### Technical data

- Permissible temperature range of -20 °C to +140 °C
- Mains connection
  - - 3~440 V  $\pm$ 10 %, 50/60 Hz
    - 3~400 V  $\pm$ 10 %, 50/60 Hz
    - 3~380 V -5 % +10 %, 50/60 Hz
- Protection class IP 55
- Nominal diameter DN 40 to DN 200
- Max. operating pressure 16 bar

## Series description: Wilo-CronoLine-IL-E

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### Materials

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- Pump housing and lantern: EN-GJL-250
- Impeller
  - Standard version: EN-GJL-200
  - Special version: Bronze CuSn 10
- Shaft: 1.4122
- Mechanical seal: AQEGG; other mechanical seals on request

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### Description/construction

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

- Mechanical seal
- Flange connection
- Lantern
- Coupling
- Drive with integrated electronic speed control

## Product list: Wilo-CronoLine-IL-E

Product description	Motor efficiency class	Mains connection	Version	Rated power $P_2$	Pump connection	Port-to-port length $l_0$	Gross weight, approx. $m$	Article number
CronoLine-IL-E 40/220-11/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	11.00 kW	DN 40	440 mm	231.0 kg	2153737
CronoLine-IL-E 50/210-11/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	11.00 kW	DN 50	440 mm	260.0 kg	2153738
CronoLine-IL-E 50/220-15/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	15.00 kW	DN 50	440 mm	262.0 kg	2153739
CronoLine-IL-E 65/170-11/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	11.00 kW	DN 65	430 mm	208.0 kg	2153740
CronoLine-IL-E 65/200-15/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	15.00 kW	DN 65	475 mm	269.0 kg	2153741
CronoLine-IL-E 65/210-18,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	18.50 kW	DN 65	475 mm	333.0 kg	2153742
CronoLine-IL-E 65/220-22/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	22.00 kW	DN 65	475 mm	361.0 kg	2153743
CronoLine-IL-E 80/160-11/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	11.00 kW	DN 80	440 mm	217.0 kg	2153744
CronoLine-IL-E 80/170-15/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	15.00 kW	DN 80	440 mm	235.0 kg	2153745
CronoLine-IL-E 80/190-18,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	18.50 kW	DN 80	500 mm	346.0 kg	2153746
CronoLine-IL-E 80/200-22/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	22.00 kW	DN 80	500 mm	370.0 kg	2153747
CronoLine-IL-E 100/145-11/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	11.00 kW	DN 100	500 mm	244.0 kg	2153748
CronoLine-IL-E 100/150-15/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	15.00 kW	DN 100	500 mm	316.0 kg	2153749
CronoLine-IL-E 10/160-18,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	18.50 kW	DN 100	500 mm	361.0 kg	2153750
CronoLine-IL-E 100/165-22/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	22.00 kW	DN 100	500 mm	379.0 kg	2153751
CronoLine-IL-E 40/170-5,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	5.50 kW	DN 40	340 mm	111.0 kg	2159362
CronoLine-IL-E 40/200-7,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	7.50 kW	DN 40	440 mm	126.0 kg	2159363
CronoLine-IL-E 50/160-5,5/2-R1	IE2	3~440 V, 50 Hz	without differential pressure sensor	5.50 kW	DN 50	340 mm	120.0 kg	2159364
CronoLine-IL-E 50/170-7,5/2-R1	IE2	3~440 V, 50 Hz	without differential pressure sensor	7.50 kW	DN 50	340 mm	124.0 kg	2159365
CronoLine-IL-E 50/180-7,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	7.50 kW	DN 50	440 mm	137.0 kg	2159366
CronoLine-IL-E 65/150-5,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	5.50 kW	DN 65	430 mm	117.0 kg	2159367
CronoLine-IL-E 65/160-7,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	7.50 kW	DN 65	430 mm	130.0 kg	2159368
CronoLine-IL-E 80/130-5,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	5.50 kW	DN 80	400 mm	125.0 kg	2159369

## Product list: Wilo-CronoLine-IL-E

Product description	Motor efficiency class	Mains connection	Version	Rated power $P_2$	Pump connection	Port-to-port length $l_0$	Gross weight, approx. $m$	Article number
CronoLine-IL-E 80/140-7,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	7.50 kW	DN 80	400 mm	129.0 kg	2159370
CronoLine-IL-E 80/150-7,5/2-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	7.50 kW	DN 80	440 mm	137.0 kg	2159371
CronoLine-IL-E 40/170-5,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	5.50 kW	DN 40	340 mm	111.0 kg	2159314
CronoLine-IL-E 40/200-7,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	7.50 kW	DN 40	440 mm	126.0 kg	2159315
CronoLine-IL-E 50/160-5,5/2	IE2	3~440 V, 50 Hz	with differential pressure sensor	5.50 kW	DN 50	340 mm	120.0 kg	2159316
CronoLine-IL-E 50/170-7,5/2	IE2	3~440 V, 50 Hz	with differential pressure sensor	7.50 kW	DN 50	340 mm	124.0 kg	2159317
CronoLine-IL-E 50/180-7,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	7.50 kW	DN 50	440 mm	137.0 kg	2159318
CronoLine-IL-E 65/150-5,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	5.50 kW	DN 65	430 mm	117.0 kg	2159319
CronoLine-IL-E 65/160-7,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	7.50 kW	DN 65	430 mm	130.0 kg	2159320
CronoLine-IL-E 80/130-5,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	5.50 kW	DN 80	400 mm	125.0 kg	2159321
CronoLine-IL-E 80/140-7,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	7.50 kW	DN 80	400 mm	129.0 kg	2159322
CronoLine-IL-E 80/150-7,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	7.50 kW	DN 80	440 mm	137.0 kg	2159323
CronoLine-IL-E 80/170-15/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	15.00 kW	DN 80	440 mm	225.2 kg	2153676
CronoLine-IL-E 80/190-18,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	18.50 kW	DN 80	500 mm	287.6 kg	2153677
CronoLine-IL-E 80/200-22/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	22.00 kW	DN 80	500 mm	297.4 kg	2153678
CronoLine-IL-E 100/145-11/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	11.00 kW	DN 100	500 mm	236.0 kg	2153679
CronoLine-IL-E 100/150-15/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	15.00 kW	DN 100	500 mm	243.8 kg	2153680
CronoLine-IL-E 100/160-18,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	18.50 kW	DN 100	500 mm	286.4 kg	2153681
CronoLine-IL-E 100/165-22/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	22.00 kW	DN 100	500 mm	296.0 kg	2153682
CronoLine-IL-E 40/220-11/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	11.00 kW	DN 40	440 mm	221.0 kg	2153668
CronoLine-IL-E 50/210-11/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	11.00 kW	DN 50	440 mm	224.0 kg	2153669
CronoLine-IL-E 50/220-15/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	15.00 kW	DN 50	440 mm	232.8 kg	2153670
CronoLine-IL-E 65/170-11/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	11.00 kW	DN 65	430 mm	210.8 kg	2153671

## Product list: Wilo-CronoLine-IL-E

Product description	Motor efficiency class	Mains connection	Version	Rated power $P_2$	Pump connection	Port-to-port length $l_0$	Gross weight, approx. $m$	Article number
CronoLine-IL-E 65/200-15/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	15.00 kW	DN 65	475 mm	238.4 kg	2153672
CronoLine-IL-E 65/210-18,5/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	18.50 kW	DN 65	475 mm	282.0 kg	2153673
CronoLine-IL-E 65/220-22/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	22.00 kW	DN 65	475 mm	291.0 kg	2153674
CronoLine-IL-E 80/160-11/2	IE4	3~440 V, 50 Hz	with differential pressure sensor	11.00 kW	DN 80	440 mm	218.0 kg	2153675
CronoLine-IL-E 100/220-5,5/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	5.50 kW	DN 100	550 mm	164.0 kg	2159372
CronoLine-IL-E 125/210-5,5/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	5.50 kW	DN 125	620 mm	199.0 kg	2159374
CronoLine-IL-E 150/190-5,5/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	5.50 kW	DN 150	700 mm	231.0 kg	2159376
CronoLine-IL-E 100/270-11/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	11.00 kW	DN 100	550 mm	259.0 kg	2153752
CronoLine-IL-E 150/220-11/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	11.00 kW	DN 150	700 mm	318.0 kg	2153753
CronoLine-IL-E 150/250-15/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	15.00 kW	DN 150	700 mm	408.0 kg	2153754
CronoLine-IL-E 15 0/260-18,5/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	18.50 kW	DN 150	700 mm	463.0 kg	2153755
CronoLine-IL-E 150/270-22/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	22.00 kW	DN 150	700 mm	477.0 kg	2153756
CronoLine-IL-E 200/240-15/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	15.00 kW	DN 200	800 mm	465.0 kg	2153757
CronoLine-IL-E 20 0/250-18,5/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	18.50 kW	DN 200	800 mm	525.0 kg	2153758
CronoLine-IL-E 200/260-22/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	22.00 kW	DN 200	800 mm	539.0 kg	2153759
CronoLine-IL-E 100/250-7,5/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	7.50 kW	DN 100	550 mm	183.0 kg	2159373
CronoLine-IL-E 125/220-7,5/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	7.50 kW	DN 125	620 mm	209.0 kg	2159375
CronoLine-IL-E 150/200-7,5/4-R1	IE4	3~440 V, 50 Hz	without differential pressure sensor	7.50 kW	DN 150	700 mm	239.0 kg	2159377
CronoLine-IL-E 100/220-5,5/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	5.50 kW	DN 100	550 mm	164.0 kg	2159324
CronoLine-IL-E 125/210-5,5/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	5.50 kW	DN 125	620 mm	199.0 kg	2159326
CronoLine-IL-E 150/190-5,5/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	5.50 kW	DN 150	700 mm	231.0 kg	2159328
CronoLine-IL-E 150/220-11/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	11.00 kW	DN 150	700 mm	335.3 kg	2153684
CronoLine-IL-E 150/250-15/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	15.00 kW	DN 150	700 mm	419.1 kg	2153685

## Product list: Wilo-CronoLine-IL-E

Product description	Motor efficiency class	Mains connection	Version	Rated power $P_2$	Pump connection	Port-to-port length $l_0$	Gross weight, approx. $m$	Article number
CronoLine-IL-E 150/260-18,5/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	18.50 kW	DN 150	700 mm	472.1 kg	2153686
CronoLine-IL-E 150/270-22/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	22.00 kW	DN 150	700 mm	486.1 kg	2153687
CronoLine-IL-E 200/240-15/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	15.00 kW	DN 200	800 mm	475.6 kg	2153688
CronoLine-IL-E 200/250-18,5/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	18.50 kW	DN 200	800 mm	535.6 kg	2153689
CronoLine-IL-E 200/260-22/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	22.00 kW	DN 200	800 mm	549.6 kg	2153690
CronoLine-IL-E 125/220-7,5/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	7.50 kW	DN 125	620 mm	209.0 kg	2159327
CronoLine-IL-E 100/250-7,5/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	7.50 kW	DN 100	550 mm	183.0 kg	2159325
CronoLine-IL-E 150/200-7,5/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	7.50 kW	DN 150	700 mm	239.0 kg	2159329
CronoLine-IL-E 100/270-11/4	IE4	3~440 V, 50 Hz	with differential pressure sensor	11.00 kW	DN 100	550 mm	301.1 kg	2153683