

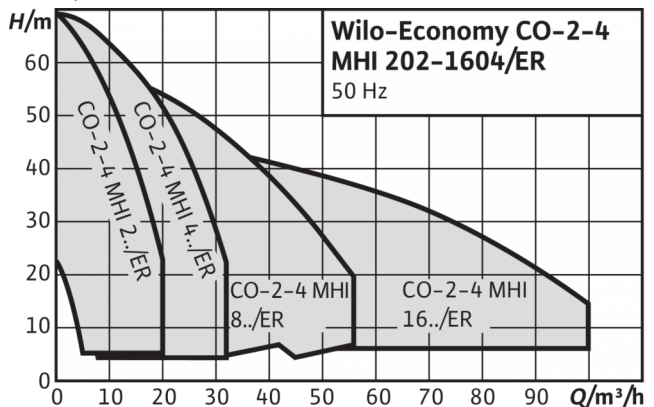
Series description: Wilo-Economy CO-MHI.../ER

Wilo-Economy CO-MHI.../ER



Similar to figure

Economy CO



Design type

Pressure boosting system with 2 to 4 parallel-switched, non-self-priming, horizontal high-pressure multistage centrifugal pumps made of stainless steel

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

- 2-4 pumps per system
- Components that come in contact with fluid are corrosion-resistant
- Galvanized base frame with height-adjustable vibration damper for insulation against structure-borne noise
- Pipework made of 1.4571 stainless steel
- Gear-operated shut-off ball cock/annular shut-off valve on every pump, on the suction and pressure side
- Non-return valve, pressure side
- Diaphragm pressure vessel 8 l, PN16, pressure side
- Pressure sensor, on the discharge side
- Optional pressure gauge (suction side)
- Pressure gauge (discharge side)
- Optional low-water cut-out switchgear

Scope of delivery

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

Type key

Example:
CO
2
MHI
4
05
ER

Wilo-CO-2 MHI 405/ER
Compact pressure boosting system
Number of pumps
Pump series
Rated volume flow of the single pump [m³/h]
Number of single-pump stages
Control unit; ER = Economy controller

Special features/product advantages

- Compact system with outstanding price/performance ratio in compliance with the requirements of DIN 1988
- 2 - 4 horizontal MHI series full stainless steel high-pressure multistage centrifugal pumps switched in parallel
- Easily adjustable and operationally reliable thanks to integrated ER 2 to ER 4 switchgears

Series description: Wilo-Economy CO-MHI.../ER

Technical data

- Mains connection 3-230 V/400 V $\pm 10\%$, 50 Hz (other versions on request)
- Max. fluid temperature 50 °C (70 °C optional)
- Max. ambient temperature of 40 °C
- Operating pressure 10 bar
- Inlet pressure 6 bar
- Nominal connection diameter on the discharge side Rp 1¼ - DN 100
- Nominal connection diameters on intake side Rp 1¼ - DN 100
- Rated speed 2850 rpm
- Protection class IP54 (ER control device)
- Fuse A, AC 3 on mains side according to motor power and EVU regulations
- 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.
 - Cooling water
 - Potable and process water
 - Fire water (wet line; for dry lines on request - comply with separate specifications of DIN 1988 (EN 806) and of fire-protection authorities.)

Materials

- Impellers: 1.4301/1.4404 stainless steel
- Stage chambers: 1.4301/1.4404 stainless steel
- Pump housing: 1.4301/1.4404 stainless steel
- Shaft: 1.4404 stainless steel
- Gasket: EPDM (EP 851)/FKM (Viton)
- Housing cover: 1.4301/1.4404
- Mechanical seal: B-carbon/tungsten carbide
- Pressure shroud: 1.4301/1.4404
- Bearing: Tungsten carbide
- Pump foot: Aluminium

Description/construction

- Base frame: galvanised 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, suitable for the connection of all piping materials used in building services; pipework is dimensioned according to the overall hydraulic performance of the pressure boosting system
- Pumps: 2 to 4 parallel pumps from the series MHI 2, MHI 4, MHI 8 and MHI 16; all pump components in contact with fluid are made of stainless steel
- Valves: each pump is fitted on the suction and pressure side with a shut-off valve with DVGW approval mark and a pressure-side DVGW-approved non-return valve
- Diaphragm pressure vessel: 8 l/PN16 on the discharge side, with a butyl rubber diaphragm, completely safe in accordance with food safety laws; for testing and inspection purposes, with shut-off ball cock, with drain and throughflow fitting according to DIN 4807
- Pressure sensor: 4 to 20 mA, located on the discharge side for activating the central Economy Controller
- Pressure display: by means of a 63 mm pressure gauge on the discharge side
- Switchgear: System is standard-equipped with ER 2-4 Economy Controller

Product list: Wilo-Economy CO-MHI.../ER

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
Economy CO-2 MHI 202/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	4.0 m ³ /h	75.0 kg	2520777
Economy CO-2 MHI 203/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	4.0 m ³ /h	75.0 kg	2520778
Economy CO-2 MHI 204/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	4.0 m ³ /h	77.0 kg	2520779
Economy CO-2 MHI 205/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	4.0 m ³ /h	81.0 kg	2520780
Economy CO-2 MHI 206/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	4.0 m ³ /h	91.0 kg	2520781
Economy CO-3 MHI 202/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	8.0 m ³ /h	96.0 kg	2520782
Economy CO-3 MHI 203/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	8.0 m ³ /h	96.0 kg	2520783
Economy CO-3 MHI 204/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	8.0 m ³ /h	99.0 kg	2520784
Economy CO-3 MHI 205/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	8.0 m ³ /h	105.0 kg	2520785
Economy CO-3 MHI 206/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	8.0 m ³ /h	120.0 kg	2520786
Economy CO-4 MHI 202/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	12.0 m ³ /h	107.0 kg	2520787
Economy CO-4 MHI 203/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	12.0 m ³ /h	107.0 kg	2520788
Economy CO-4 MHI 204/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	12.0 m ³ /h	111.0 kg	2520789
Economy CO-4 MHI 205/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	12.0 m ³ /h	119.0 kg	2520790
Economy CO-4 MHI 206/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	12.0 m ³ /h	129.0 kg	2520791
Economy CO-2 MHI 402/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	8.0 m ³ /h	79.0 kg	2520792
Economy CO-2 MHI 403/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	8.0 m ³ /h	83.0 kg	2520793
Economy CO-2 MHI 405/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	8.0 m ³ /h	93.0 kg	2520795
Economy CO-3 MHI 402/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	102.0 kg	2520797
Economy CO-3 MHI 403/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	108.0 kg	2520798
Economy CO-3 MHI 405/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	123.0 kg	2520800
Economy CO-4 MHI 402/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	24.0 m ³ /h	115.0 kg	2520802

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Economy CO-4 MHI 403/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	24.0 m ³ /h	123.0 kg	2520803
Economy CO-4 MHI 405/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	24.0 m ³ /h	143.0 kg	2520805
Economy CO-2 MHI 802/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	105.0 kg	2520807
Economy CO-2 MHI 803/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	108.0 kg	2520808
Economy CO-2 MHI 804/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	115.0 kg	2520809
Economy CO-3 MHI 802/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	32.0 m ³ /h	116.0 kg	2520811
Economy CO-3 MHI 803/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	32.0 m ³ /h	128.0 kg	2520812
Economy CO-3 MHI 804/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	32.0 m ³ /h	131.0 kg	2520813
Economy CO-4 MHI 802/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	48.0 m ³ /h	135.0 kg	2520815
Economy CO-4 MHI 803/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	48.0 m ³ /h	151.0 kg	2520816
Economy CO-4 MHI 804/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	48.0 m ³ /h	155.0 kg	2520817
Economy CO-2 MHI 1602/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	136.0 kg	2520819
Economy CO-3 MHI 1602/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	32.0 m ³ /h	174.0 kg	2520822
Economy CO-4 MHI 1602/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	48.0 m ³ /h	211.0 kg	2520825
Economy CO-2 MHI 1603/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	141.0 kg	2534332
Economy CO-3 MHI 1603/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	32.0 m ³ /h	180.0 kg	2534333
Economy CO-4 MHI 1603/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	48.0 m ³ /h	220.0 kg	2534334
Economy CO-2 MHI 1604/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	148.0 kg	2534335
Economy CO-3 MHI 1604/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	32.0 m ³ /h	204.0 kg	2534336
Economy CO-4 MHI 1604/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	48.0 m ³ /h	245.0 kg	2534337
Economy CO-2 MHI 404/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	8.0 m ³ /h	94.0 kg	2534338
Economy CO-3 MHI 404/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	110.0 kg	2534339

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Economy CO-4 MHI 404/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	24.0 m ³ /h	134.0 kg	2534340
Economy CO-2 MHI 406/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	8.0 m ³ /h	97.0 kg	2534341
Economy CO-3 MHI 406/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	123.0 kg	2534342
Economy CO-4 MHI 406/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	24.0 m ³ /h	144.0 kg	2534343
Economy CO-2 MHI 805/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	16.0 m ³ /h	135.0 kg	2534344
Economy CO-3 MHI 805/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	32.0 m ³ /h	165.0 kg	2534345
Economy CO-4 MHI 805/ER	Without frequency converter	3~400 V, 50 Hz	10 bar	1	48.0 m ³ /h	195.0 kg	2534346