

Series description: Wilo-Economy MHI



Design

Non-self-priming multistage pump

Application

- Water supply and pressure boosting
- Commerce and industry
- Cooling water circulation systems
- Washing and sprinkling systems

Type key

Example: **MHI 205N-1/E/3-400-50-2**

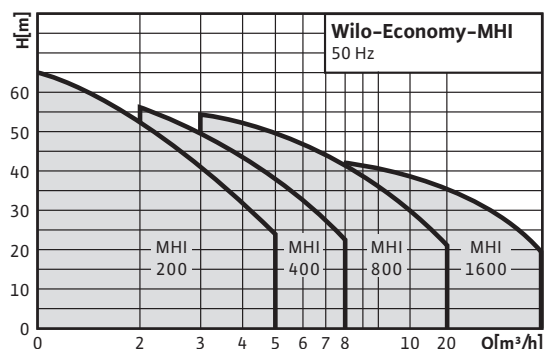
MHI	Multistage horizontal high-pressure centrifugal pump
2	Volume flow in m ³ /h
05	Number of impellers
N	IE2 motor
	Material
1	1 = 1.4301 (AISI 304) 2 = 1.4404 (AISI 316L)
	Type of gasket
E	E = EPDM V = FKM (Viton)
3	1 = 1~ (single-phase AC) 3 = 3~ (three-phase AC)
400	Connection voltage in V
50	Frequency in Hz
2	Number of poles

Special features/product advantages

- IE2-IEC three-phase AC motor (≥ 0.75 kW)
- All parts that come in contact with the fluid are made of stainless steel 1.4301 (AISI 304) or 1.4404 (AISI 316 L)
- Compact design
- All relevant components are KTW and WRAS certified

Technical data

- Mains connection 1~230 V (± 10 %), 50 Hz or optionally 220 V (± 10 %), 60 Hz
- Mains connection 3~230 V (± 10 %), 50 Hz (Δ) or optionally 220 V (± 10 %), 60 Hz (Δ), 400 V (± 10 %), 50 Hz (Y) or optionally 380 V (± 10 %), 60 Hz (Y)
- Fluid temperature of -15 to $+110$ °C
- Max. operating pressure of 10 bar
- Max. inlet pressure of 6 bar
- Protection class 1~: IP X4; 3~: IP 54
- Nominal diameters of pipe connections: Rp 1, Rp 1 ¼ or Rp 1 ½, depending on type



Pump curves in accordance with ISO 9906, class 2

Equipment/function

- Stainless steel pump in monobloc design
- Threaded connection
- Single-phase or three-phase motor
- Single-phase AC motor with integrated thermal motor protection

Materials

- Impellers, stage chambers and pump housing stainless steel 1.4301/1.4404
- Shaft stainless steel 1.4404
- Gasket EPDM (EP 851)/FKM (Viton)
- Mechanical seal B-carbon/tungsten carbide
- Bearing tungsten carbide
- Pump base aluminium

Scope of delivery

- Pump
- Installation and operating instructions

Product list: Wilo-Economy MHI

Type	Mains connection	Static seal	Gross weight	Nominal motor power	Art no.
			<i>m/kg</i>	<i>P₂/kW</i>	
MHI 202	1~230 V, 50 Hz	EPDM	11.3	0.55	4024282
MHI 202	1~230 V, 50 Hz	FPM	11.3	0.55	4015676
MHI 202	3~400 V, 50 Hz	EPDM	10.4	0.55	4024283
MHI 202	3~400 V, 50 Hz	FPM	10.4	0.55	4015677
MHI 203	1~230 V, 50 Hz	EPDM	11.3	0.55	4024284
MHI 203	1~230 V, 50 Hz	FPM	11.3	0.55	4015678
MHI 203	3~400 V, 50 Hz	EPDM	10.4	0.55	4024285
MHI 203	3~400 V, 50 Hz	FPM	10.4	0.55	4015679
MHI 204	1~230 V, 50 Hz	EPDM	12.1	0.55	4024286
MHI 204	1~230 V, 50 Hz	FPM	12.1	0.55	4015680
MHI 204	3~400 V, 50 Hz	EPDM	11.2	0.55	4024287
MHI 204	3~400 V, 50 Hz	FPM	11.2	0.55	4015681
MHI 205	1~230 V, 50 Hz	EPDM	13.7	0.75	4024288
MHI 205	1~230 V, 50 Hz	FPM	13.7	0.75	4015682
MHI 205	3~400 V, 50 Hz	EPDM	14.5	0.75	4148906
MHI 205	3~400 V, 50 Hz	FPM	14.5	0.75	4148915
MHI 206	3~400 V, 50 Hz	EPDM	15.3	1.1	4148926
MHI 206	3~400 V, 50 Hz	FPM	15.3	1.1	4148934
MHI 206	1~230 V, 50 Hz	EPDM	17.2	1.1	4024290
MHI 206	1~230 V, 50 Hz	FPM	17.2	1.1	4015684
MHI 402	1~230 V, 50 Hz	EPDM	11.3	0.55	4024292
MHI 402	1~230 V, 50 Hz	FPM	11.3	0.55	4015686
MHI 402	3~400 V, 50 Hz	EPDM	10.4	0.55	4024293
MHI 402	3~400 V, 50 Hz	FPM	10.4	0.55	4015687
MHI 403	1~230 V, 50 Hz	EPDM	12.2	0.55	4024294
MHI 403	1~230 V, 50 Hz	FPM	12.2	0.55	4015688
MHI 403	3~400 V, 50 Hz	EPDM	11.3	0.55	4024295
MHI 403	3~400 V, 50 Hz	FPM	11.3	0.55	4015689
MHI 404	1~230 V, 50 Hz	EPDM	13.7	0.75	4024296
MHI 404	1~230 V, 50 Hz	FPM	13.7	0.75	4015690
MHI 404	3~400 V, 50 Hz	EPDM	14.5	0.75	4148983
MHI 404	3~400 V, 50 Hz	FPM	14.5	0.75	4148995
MHI 405	3~400 V, 50 Hz	EPDM	15.3	1.1	4149007
MHI 405	3~400 V, 50 Hz	FPM	15.3	1.1	4149015
MHI 405	1~230 V, 50 Hz	EPDM	16.7	1.1	4024298
MHI 405	1~230 V, 50 Hz	FPM	16.7	1.1	4015692
MHI 406	3~400 V, 50 Hz	EPDM	17.5	1.1	4149027
MHI 406	3~400 V, 50 Hz	FPM	17.5	1.1	4149036
MHI 406	1~230 V, 50 Hz	EPDM	19.3	1.5	4024300
MHI 406	1~230 V, 50 Hz	FPM	19.3	1.5	4015694
MHI 802	1~230 V, 50 Hz	EPDM	17.3	0.75	4024302
MHI 802	1~230 V, 50 Hz	FPM	17.3	0.75	4015696
MHI 802	3~400 V, 50 Hz	EPDM	13.8	0.75	4149048
MHI 802	3~400 V, 50 Hz	FPM	13.8	0.75	4149056
MHI 803	3~400 V, 50 Hz	EPDM	14.6	1.1	4149067
MHI 803	3~400 V, 50 Hz	FPM	14.6	1.1	4149077
MHI 803	1~230 V, 50 Hz	EPDM	16.0	1.1	4024304
MHI 803	1~230 V, 50 Hz	FPM	16.0	1.1	4015698
MHI 804	3~400 V, 50 Hz	EPDM	20.6	1.5	4149088
MHI 804	3~400 V, 50 Hz	FPM	20.6	1.5	4149096
MHI 804	1~230 V, 50 Hz	EPDM	17.5	1.5	4024306
MHI 804	1~230 V, 50 Hz	FPM	17.5	1.5	4015700
MHI 805	3~400 V, 50 Hz	EPDM	22.0	2.2	4149100
MHI 805	3~400 V, 50 Hz	FPM	22.0	2.2	4149105
MHI 1602	3~400 V, 50 Hz	EPDM	20.5	1.5	4149111
MHI 1603	3~400 V, 50 Hz	EPDM	22.9	2.2	4149117
MHI 1604	3~400 V, 50 Hz	EPDM	23.6	2.2	4149123

Variants: Wilo-Economy MHI

Materials

Pump base EN-GJL-250 with cataphoretic coating, hydraulics in 1.4301/1.4404 (AISI 304/316L)	–
Parts in contact with fluid in 1.4301 (AISI 304)	•
Parts in contact with fluid in 1.4404 (AISI 316L)	•

Hydraulic connection

Threaded connection	•
Oval flange	–
Round flange	–
Victaulic quick coupling	–

Motor version

Individual motors	optional
1~230 V, 50 Hz	•
3~230 V, 50 Hz	–
3~400 V, 50 Hz	•
3~500 V, 50 Hz	–
1~110 V, 60 Hz	optional
1~220 V, 60 Hz	optional
3~380 V, 60 Hz	optional
3~400 V, 60 Hz	optional
3~440 V, 60 Hz	optional
3~460 V, 60 Hz	optional
3~480 V, 60 Hz	optional
3~380 V to 440 V and 50 Hz to 60 Hz	–
Protection class	IP 54
Explosion protection	–
Motors with PTC thermistors	optional
Motors with UL certificates	–
Motors with CSA certificates	–
Thermal motor protection switch (EM version)	•
Speed can be controlled via external FC	•
Integrated frequency converter	•

Painting

Individual painting	•
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Mechanical seal

Tungsten carbide/carbon	•
SiC/carbon	–
Tungsten carbide/tungsten carbide	optional

Variants: Wilo-Economy MHI

SIC/SIC

optional

Potable water approvals

KTW

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WRAS

•

• = available, - = not available