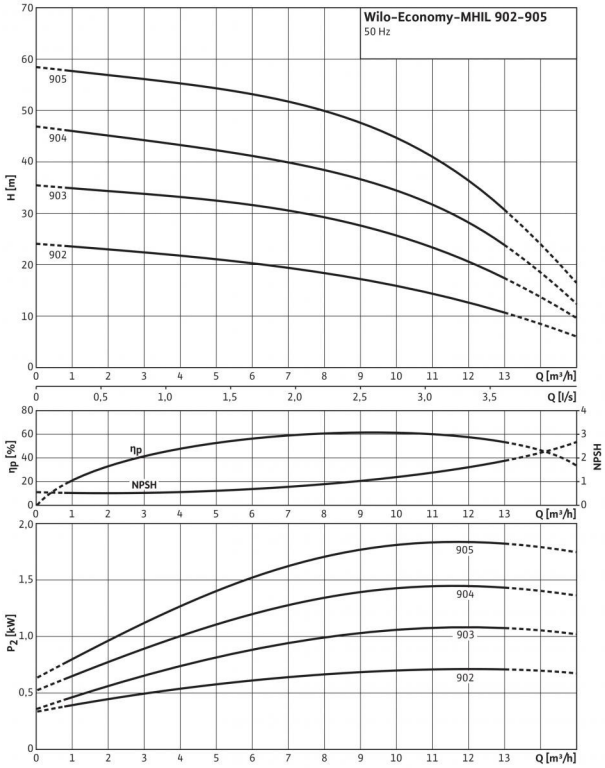
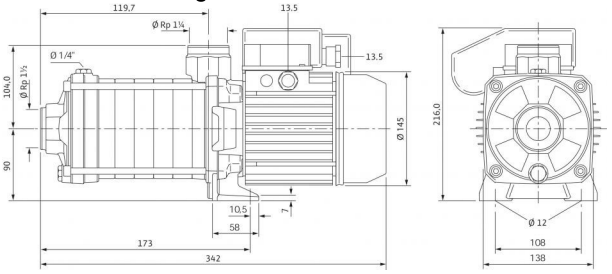
Data sheet: Economy MHIL 902 (1~230 V)

Pump curves

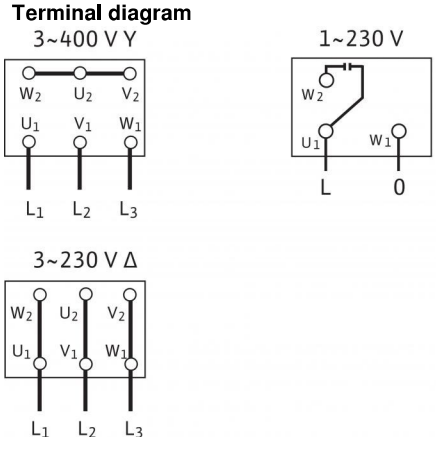


Pump curves in accordance with ISO 9906, class 2

Dimension drawing



Terminal diagram



Approved fluids	
Drinking water, heating water, process water	•
Condensate	-
Water/glycol mixtures (max. 40 %; with admixtures exceeding 10 %, the pumping data must be checked)	•
Other low viscous fluids (without abrasive or long-fibre constituents, provided they do not corrode the materials used)	•

Power	
Fluid temperature *T*	-15...+90 °C
Max. ambient temperature *T*	40 °C
Rated pressure	PN bar
Inlet pressure max. *H*	6 bar
Maximum operating pressure p_{max}	10 bar
Nominal speed *n*	2900 rpm

Motor	
Insulation class	F
Protection class	X4
Mains connection	1~230 V, 50 Hz
Rated power P_2	0.75 kW
Power consumption P_1	1.09 kW
Nominal current 1~230 V, 50 Hz I_N	5.1 A
Motor efficiency $\eta_{m\,50\%}$	57.7 %
Motor efficiency $\eta_{m\,75\%}$	62.8 %
Motor efficiency $\eta_{m\,100\%}$	62.3 %

Connections	
Rated pressure level (on the pressure side) *PN*	PN 10
Rated pressure level (on the suction side) *PN*	PN 10

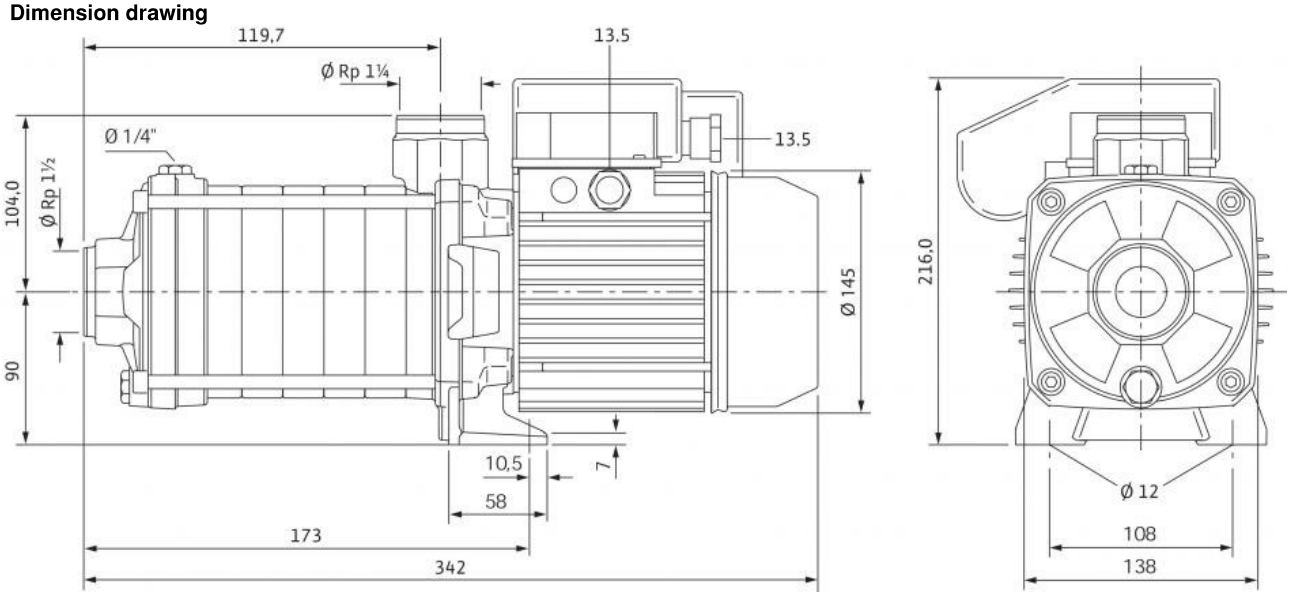
Materials	
Impeller	1.4301 [AISI304]
Stage chambers	1.4301 [AISI304]
Pump housing	EN-GJL-250 (cataphoretic-coated)
Pump shaft	1.4028 [AISI420F]
Housing cover	EN-GJL-250 (cataphoretic-coated)
Lower housing section	EN-GJL-250 (cataphoretic-coated)
Pressure shroud	–
Bearing	Tungsten carbide
Pump base	EN-GJL-250 (cataphoretic-coated)
Pump base (in contact with the fluid)	–
Static seal	EPDM
Mechanical seal	BQ1E3GG

Information for order placements	
Make	Wilo
Type	MHIL 902
Art no.	4083914
Weight approx. *m*	14.2 kg

• = available, - = not available

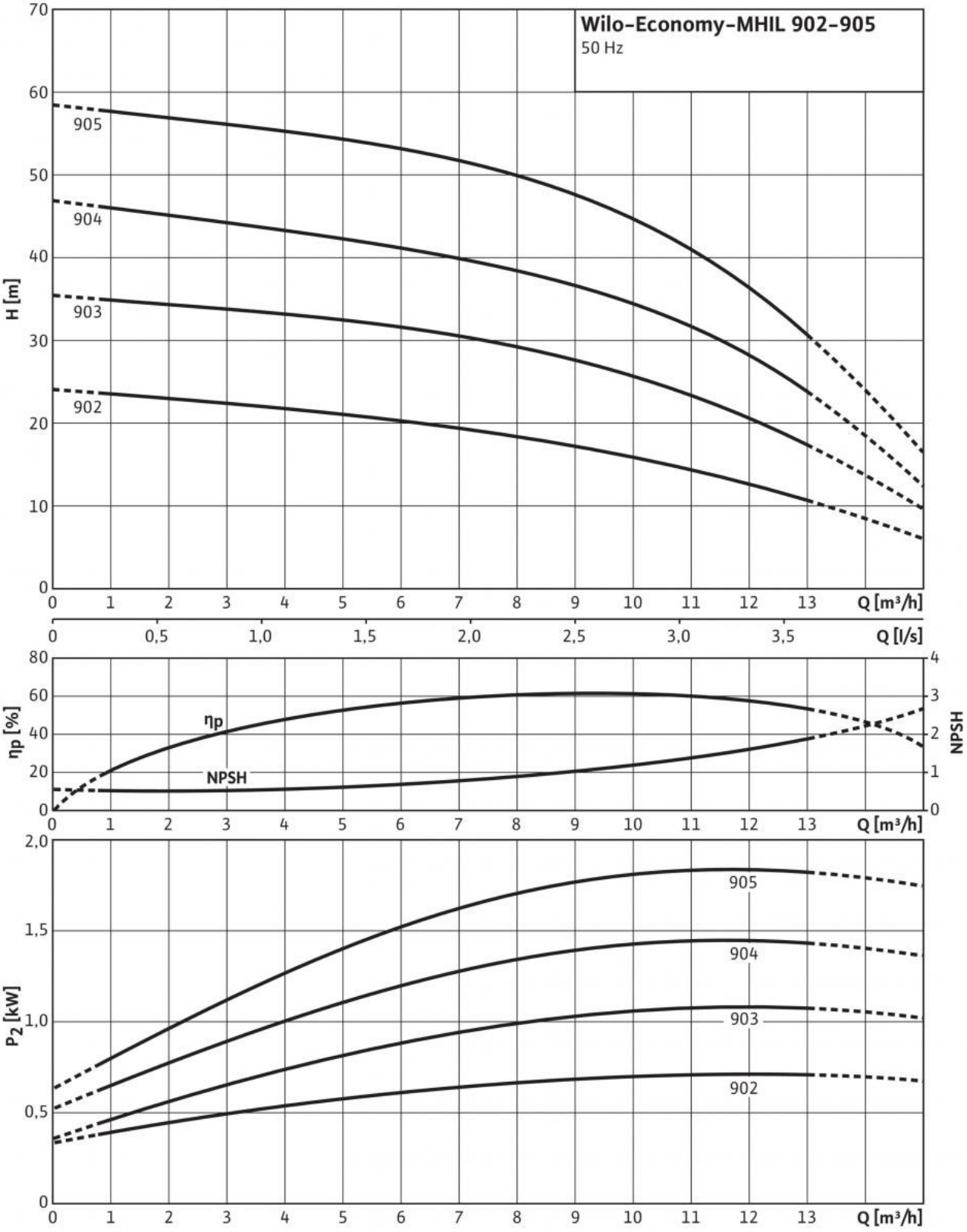
Dimensions and dimensions drawings: Economy MHIL 902 (1~230 V)

Dimension drawing



Pump curves: Economy MHIL 902 (1~230 V)

Pump curves



Pump curves in accordance with ISO 9906, class 2

Ordering information: Economy MHIL 902 (1~230 V)

Make	Wilo
Type	MHIL 902
Art no.	4083914
EAN number	4016322721475
Colour	Green/black/silver
Minimum order quantity	1
Minimum order quantity unit	PCE
Weight (net) *kg*	14.2
Length (net) *mm*	342.4
Width (net) *mm*	138
Height (net) *mm*	216
Weight (gross) *kg*	15.7
Length (gross) *mm*	600
Width (gross) *mm*	260
Height (gross) *mm*	280
Packaging type	One-way pallet
Packaging property	Transport packaging
Pieces per pallet	1
Number per layer	1

Tender text: Economy MHIL 902 (1~230 V)

Multistage, non-self-priming, horizontal high-pressure centrifugal pump in block design with horizontal suction- and vertical pressure port.

The pump has a compact design with a continuous motor pump shaft and a bidirectional mechanical seal. Stage chambers, impellers and diffusors are made of stainless steel and pump housing is made of cataphoretic-coated cast iron.

It is suitable for water supply and pressure boosting, industrial recirculation systems, process water and cooling water circuits. It can also be used in washing systems as well as for irrigation.

Special features/product advantages

- Space-saving, compact block design

Scope of delivery

- Wilo-MHIL high-pressure multistage centrifugal pump
- Installation and operating instructions

Design notes

- Motor protection for three-phase AC motor is optional or to be provided on-site
- Single-phase AC motor equipped with built-in thermal motor protection and capacitor

Materials

Impeller: 1.4301 [AISI304]
Stage chambers: 1.4301 [AISI304]
Pump housing: EN-GJL-250 (cataphoretic-coated)
Pump shaft: 1.4028 [AISI420F]
Housing cover: EN-GJL-250 (cataphoretic-coated)
Lower housing section: EN-GJL-250 (cataphoretic-coated)
Pressure shroud: –
Bearing: Tungsten carbide
Pump base: EN-GJL-250 (cataphoretic-coated)
Pump base (in contact with the fluid): –
Static seal: EPDM
Mechanical seal: BQ1E3GG

Approved fluids

Drinking water, heating water, process water: •
Condensate: -
Water/glycol mixtures (max. 40 %; with admixtures exceeding 10 %, the pumping data must be checked): •
Other low viscous fluids (without abrasive or long-fibre constituents, provided they do not corrode the materials used): •

Power

Fluid temperature *T*: -15...+90 °C
Max. ambient temperature *T*: 40 °C
Operating pressure: 10 bar
Inlet pressure max. *H*: 6 bar
Nominal speed *n*: 2900 rpm

Motor

Insulation class: F
Protection class: X4
Mains connection: 1~230 V, 50 Hz
Rated power P_2: 0.75 kW
Power consumption P_1: 1.09 kW
Nominal current 1~230 V, 50 Hz I_N: 5.1 A
Motor efficiency $\eta_{m\,50\%}$: 57.7 %
Motor efficiency $\eta_{m\,75\%}$: 62.8 %
Motor efficiency $\eta_{m\,100\%}$: 62.3 %

Connections

Nominal diameter of pipe connections on suction side *Rp*: 1½
Nominal diameter of pipe connections on pressure side *Rp*: 1¼
Flange connections PN 16/PN 25 *DN*: –
Victaulic connections: –

Tender text: Economy MHIL 902 (1~230 V)

Information for order placements

Make: Wilo
Type: MHIL 902
Art no.: 4083914
Weight approx. *m*: 14.2 kg