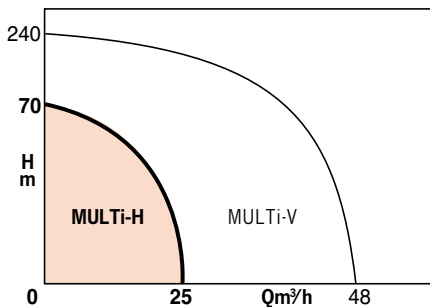


OPERATING RANGES

Flow rates of up to:	25 m ³ /h
Manometric heads of up to:	70 m CE
Max. operating pressure:	10 bar
Max. intake pressure:	6 bar
Temperature range:	- 15° to + 110°C
Max. ambient temperature:	+ 40°C
DN (nominal diameter) of ports:	G1 ^{1/4} to G2



ADVANTAGES

EFFICIENCY / RELIABILITY

- IE2 motor.
- **Optimal reliability:** high outputs thanks to the impeller profile, which reduces the number of stages, the sizes of the shafts and the axial thrusts.
- **Stainless steel hydraulic assembly:** protection from corrosion and extended pump life.
- **Suction rings between very thick cells:** impervious to thermal expansion and eliminates the risk of seizing.

INSTALLATION

- **Compact pump of one-piece design,** requires little space and performs economically and quietly.
- **Easy installation.**

MAINTENANCE

- **Standardised mechanical seal** withstands max. temperatures of +110°C without any maintenance.
- **Motor bearing fitted in the front shroud** - generously dimensioned and leak-tight.

MULTI-H

HORIZONTAL Stainless steel MULTISTAGE PUMPS 2 pole - 50 Hz

APPLICATIONS

Pumping of clean, non-muddy liquids in the housing, agricultural and industrial sectors:

- Supply - Boosting
- Watering - Irrigation
- Washing stations
- Drainage - Filling (pools, swimming pools...)
- Heating - Air conditioning
- Water treatment (demineralisation, filtration...)

And for incorporation into all modular systems.

Abstraction from wells, springs, rivers, ponds...

Pumped fluids

- **304 range:** clear and non-corrosive liquids (drinking water, glycol water...).
- **316L range:** corrosive liquids (demineralised seawater, chlorinated water...).



• MULTI-H with three-phase motor



• MULTI-H with single-phase motor

Certified
ACS



• ALL
STAINLESS
STEEL
hydraulic
assembly

MULTI-H

DESIGN

Hydraulic part

ALL Stainless steel

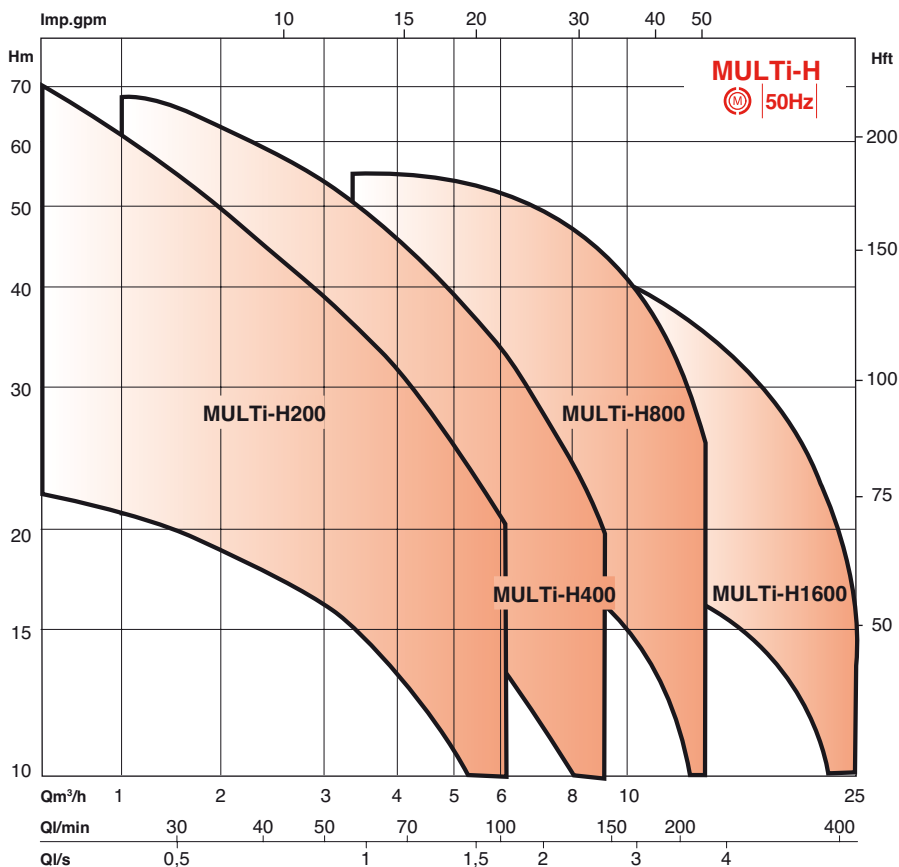
- Horizontal, centrifugal, not self-priming.
- Multi-stage, 2 to 6 stages.
- Axial intake and vertical, upward delivery.
- Impellers fitted directly onto the extended motor shaft.
- Standardised mechanical seal ensures leak-tightness of shaft passage.
- Hydraulic assembly fixed to a lantern ring at 8 points.

Motor

- IE2 standard ventilated
- With extended shaft end
- Single-phase motor with integrated thermal protection and automatic reset; capacitor integrated into the terminal box.
- Rotor-shaft guide bearings lubricated for life.

Rotation speed:	2900 rpm
Three-phase winding:	230-400 V
Single-phase:	230 V
Frequency:	50 Hz (optional 60Hz)
Insulation class:	155 (F)
Protection class:	IP 54

HYDRAULIC PRESELECTION RANGE



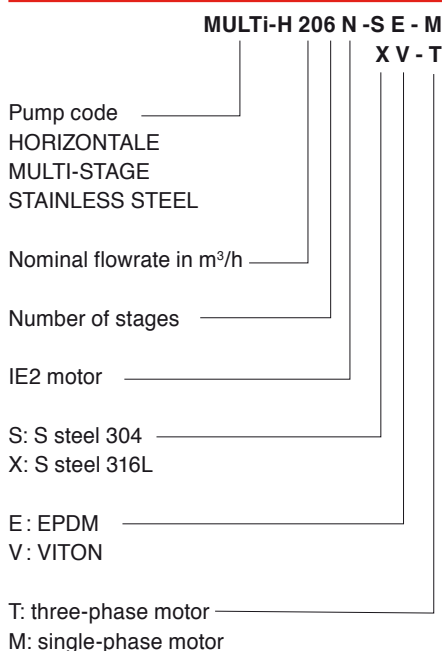
BASIC CONSTRUCTION

Main parts	Material	
	Non-corrosive liquids	Corrosive liquids*
Housing casing	S steel 304	S steel 316 L
Impellers	S steel 304	S steel 316 L
Cells (stage housing)	S steel 304	S steel 316 L
Pump shaft	S steel 316 L	S steel 316 L
Cell centring device	S steel 304	S steel 316 L
Mechanical seal	Carbon/Ceramic	Tungsten carbide/Carbon
O-rings	Ethylene Propylene EPDM	VITON
Plugs	S steel 316L	S steel 316 L
Attachment support bearing	Aluminium	Aluminium

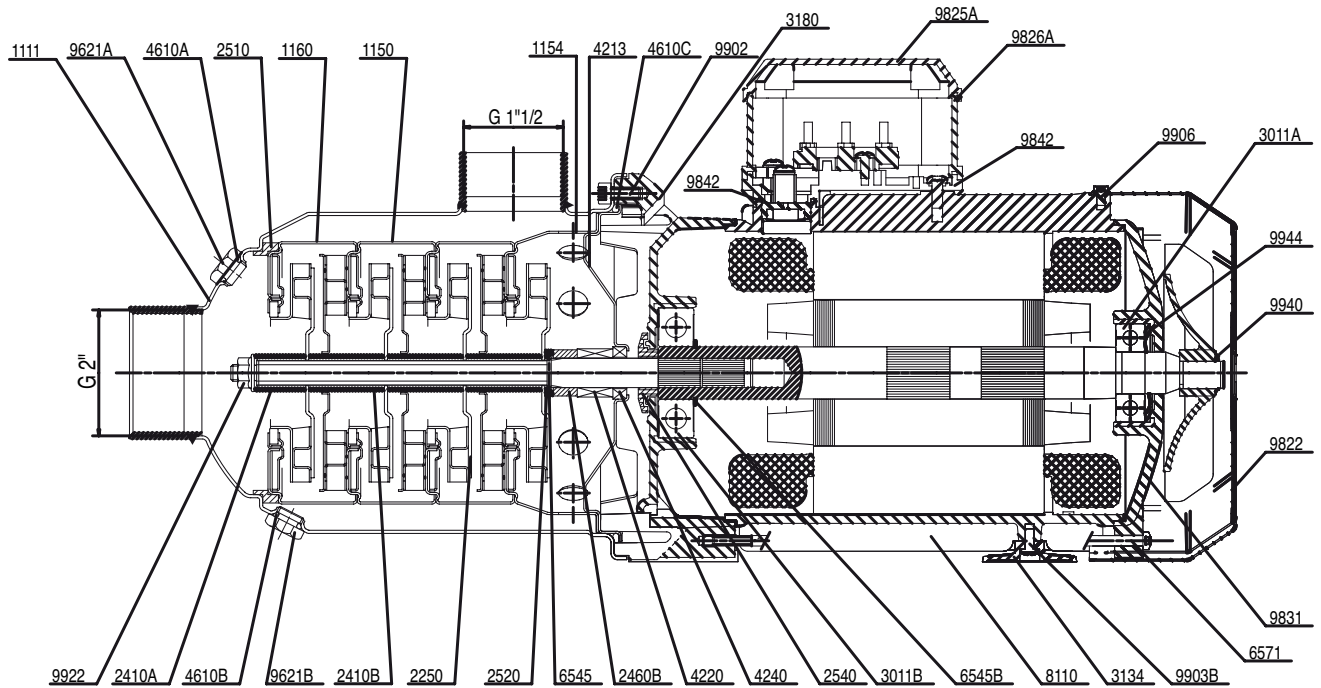
* Except for MULTI-H1600 serie

NOTA: 304 (X2CrNiMo 17.12.2) or 316 L (X2CrNiMo17-12) stainless steel - recommended materials offering excellent corrosion resistance. Clean and clear liquids with no fibres and low sand/silica content (max. concentration 40 g/m3).

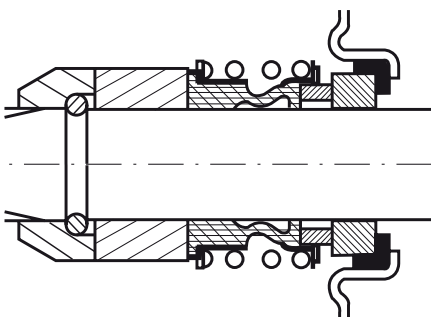
IDENTIFICATION



SECTIONAL DIAGRAM



MECHANICAL SEAL



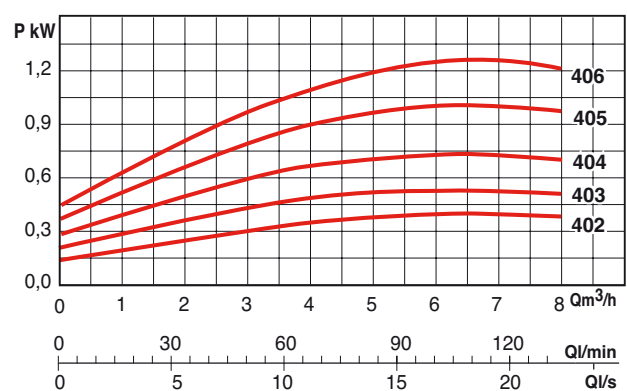
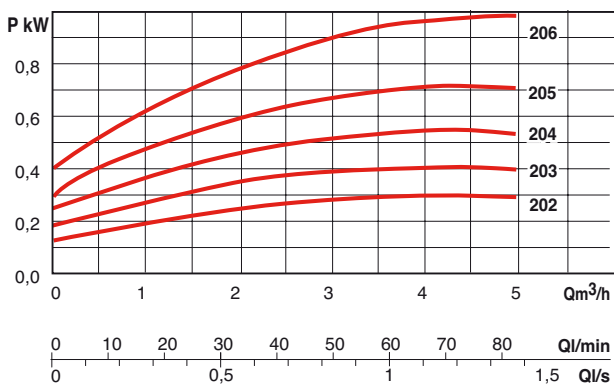
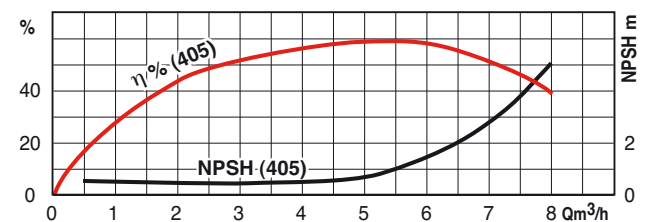
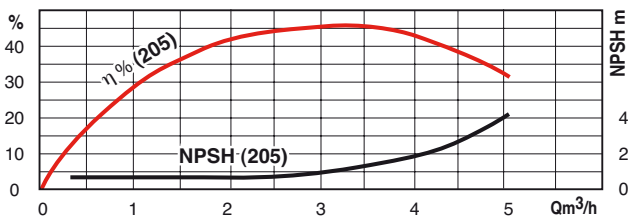
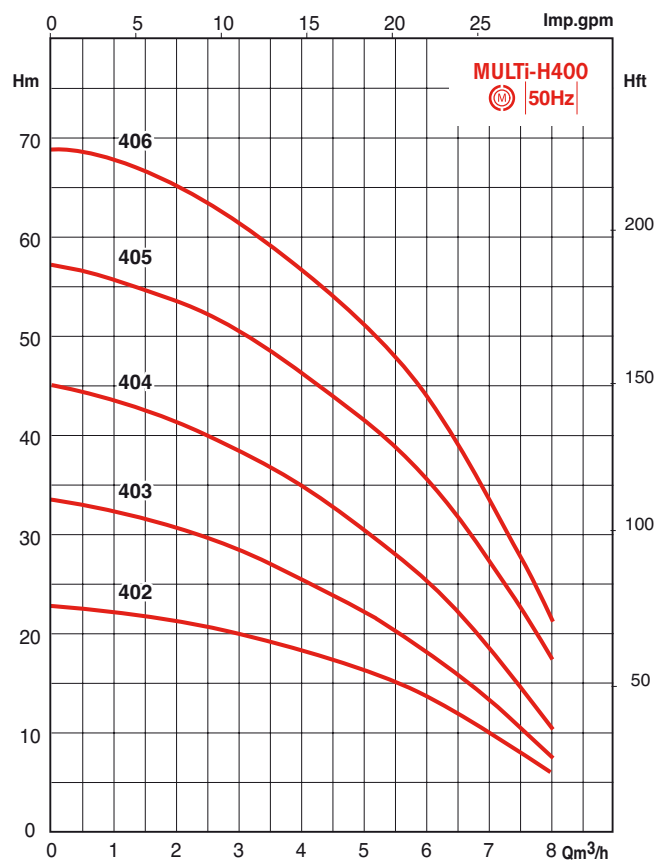
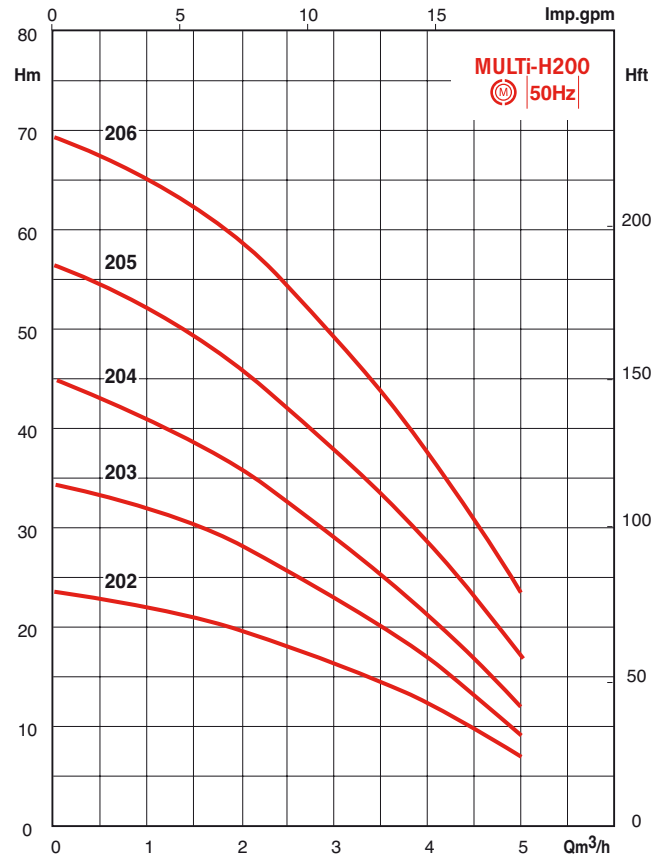
PARTS LIST

- | | |
|---|--|
| 1111 - Housing | 6515 - Drain plug |
| • 1150 - Stage housing with interstage crossover | 6521 - Bleeding and filling plug |
| • 1154 - Stage housing centring device | • 6545 - Snap ring (support ring) |
| • 1160 - Stage housing without interstage crossover | 6571 - Motor assembly stud bolt |
| • 2250 - Impeller | • 8110 - Electric motor housing |
| 2410 - Impeller spacer | • 9220 - Rotor shaft |
| 2460 A - Impeller thickness washer | • 9460 - Terminal cover gasket |
| 2460 B - Mechanical seal spacer | • 9820 - Fan |
| 2520 - Impeller support ring-snap ring | 9822 - Fan housing |
| 2540 - Deflector | • 9825 - Motor terminal cover |
| 2911 - Shaft end washer | • 9831 - Rear motor bearing |
| • 3011 A - Rolling bearing fan side | • 9860 - Capacitor |
| • 3011 B - Rolling bearing pump side | 9902 A - Lantern ring housing attachment screw |
| • 3134 - Motor mounting base | 9902 B - Shaft end screw |
| 3180 - Lantern ring | 9902 C - Cleaning screw |
| 4213 - Throat bushing casing | 9942 - External tooth lock washer |
| • 4220 - Rotating part Seal | 9944 - Spring washer |
| • 4240 - Fixed part Mechanical | 9966 - Elastic pin |
| • 4610 A - O-ring (filler plug) | |
| • 4610 B - O-ring (drain plug) | |
| • 4610 C - O-ring (lantern ring housing) | |

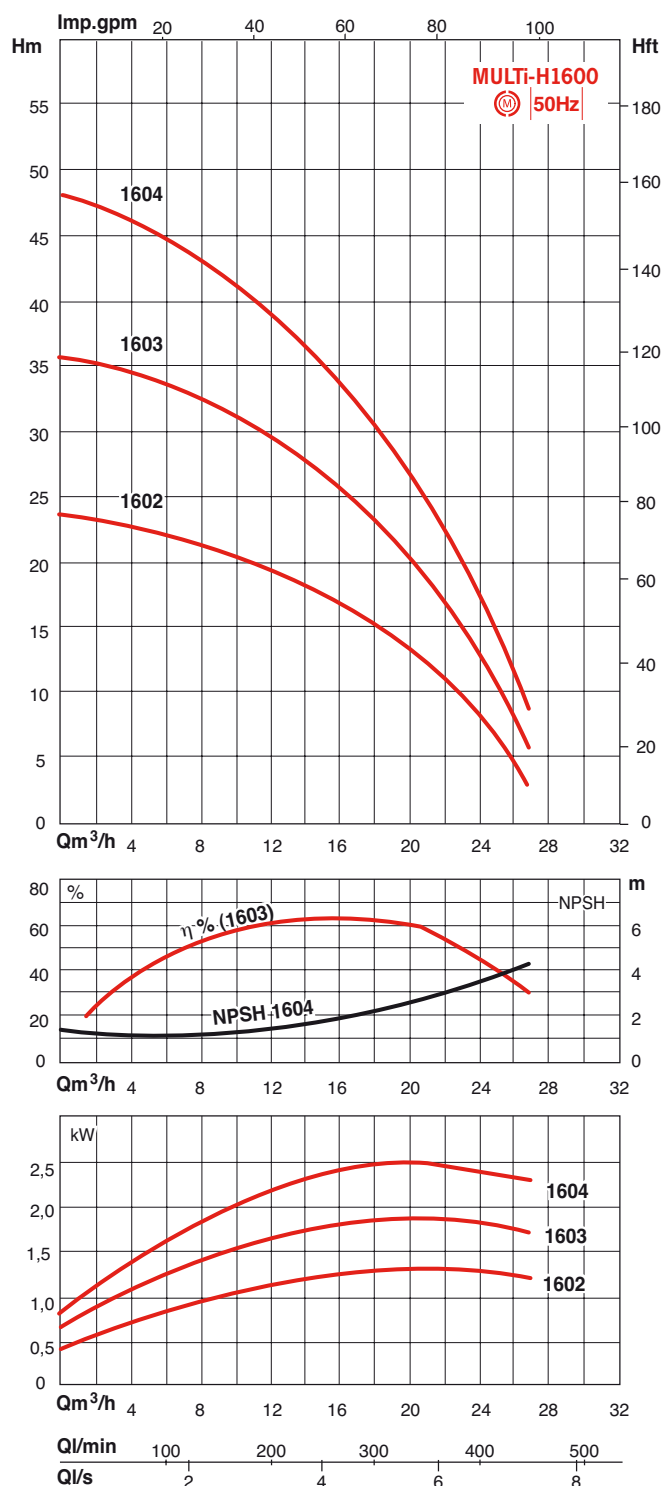
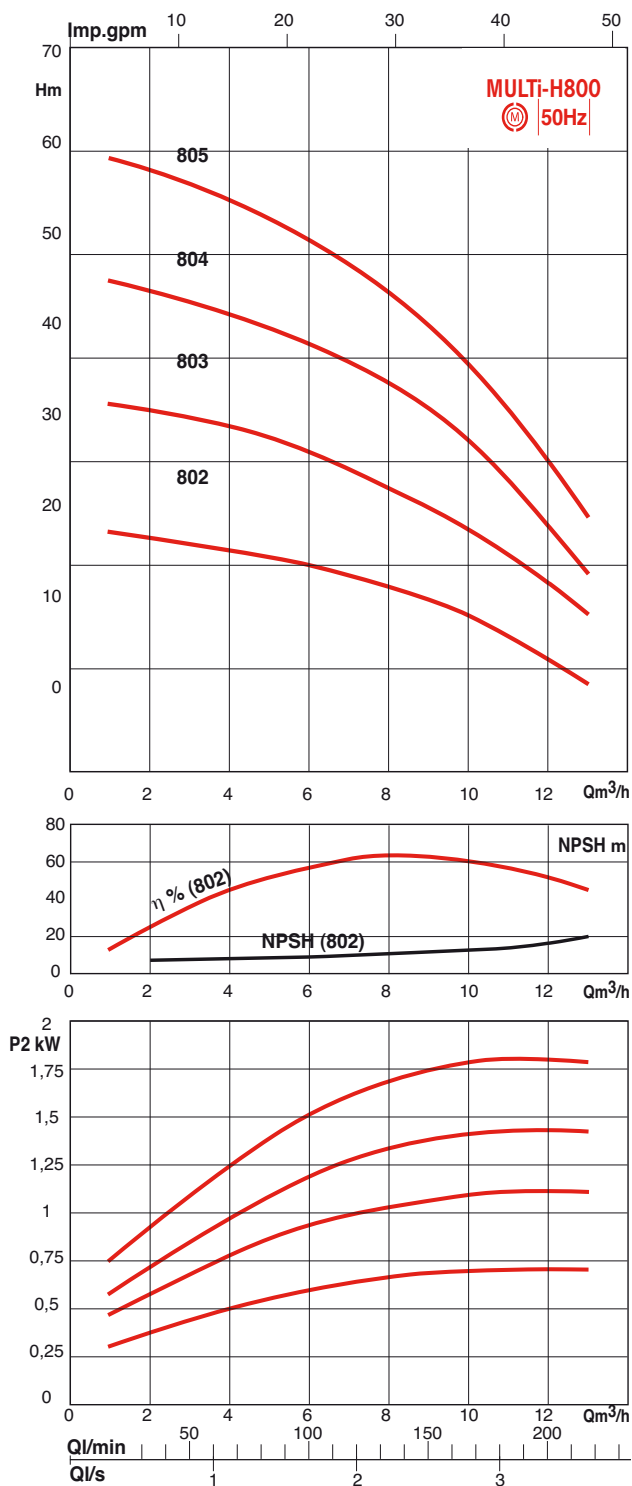
(*) Recommended spare parts.

MULTI-H

HYDRAULIC PERFORMANCE – SERIES 200 AND 400 - 2 POLE



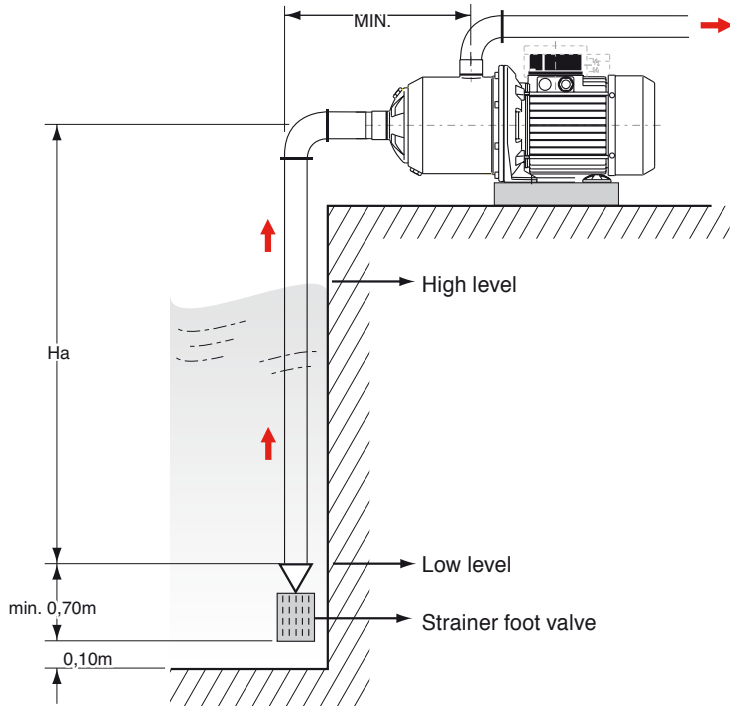
HYDRAULIC PERFORMANCE – SERIES 800 AND 1600 - 2 POLE



MULTI-H

SECTIONAL VIEW OF THE INSTALLATION

• Suction pump

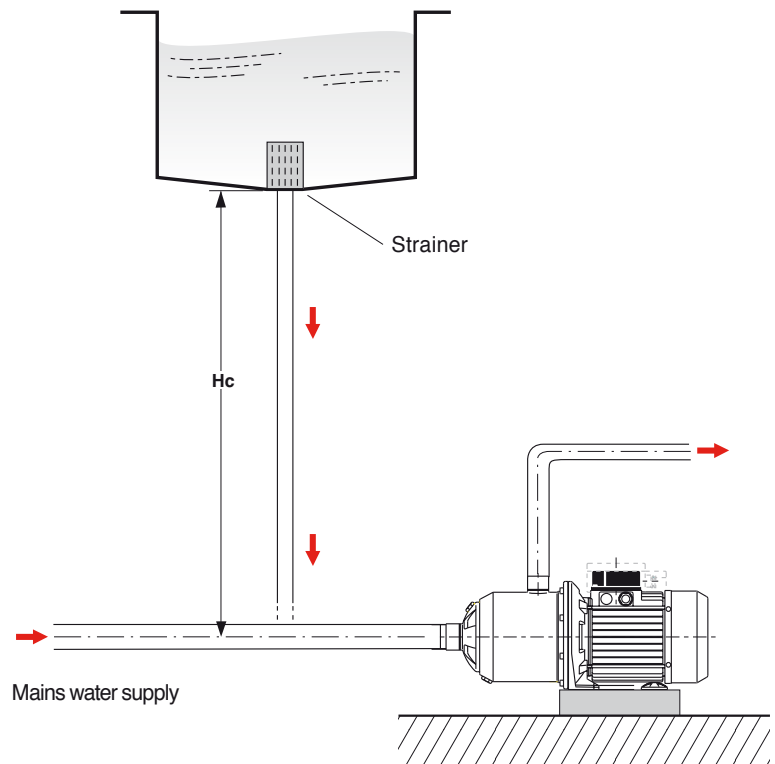


Max. suction heads (H_a) and min. flooded heads (H_c) at the pump's nominal flowrate.

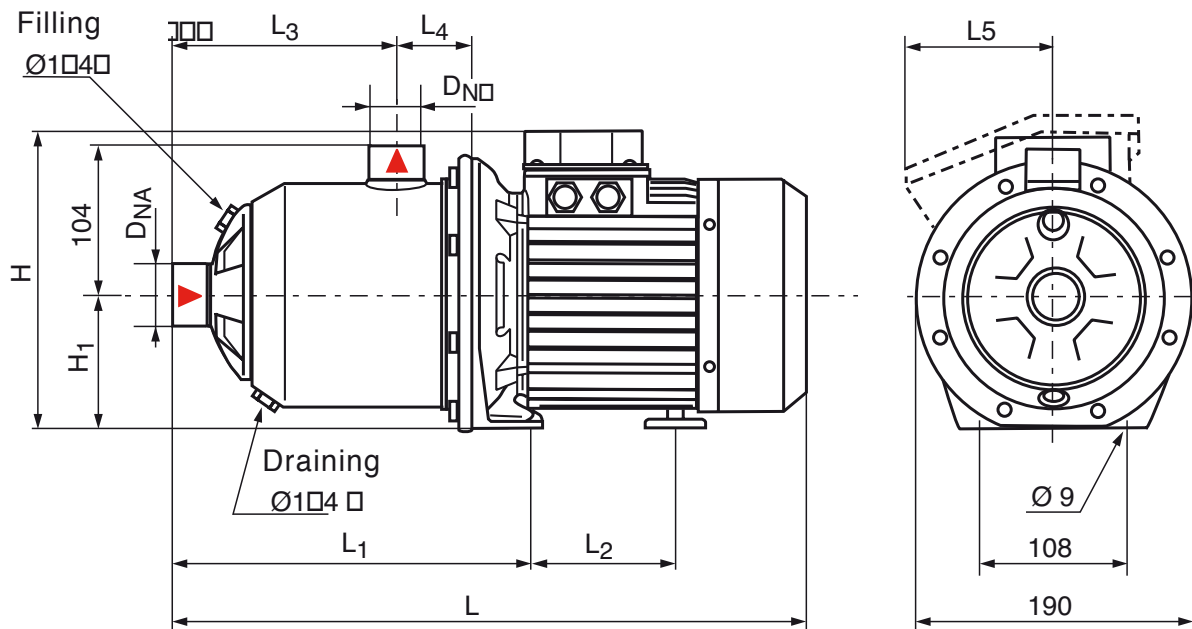
Fluid temperature	MULTI-H 200		MULTI-H 400/800/1600	
	H_a mCL	H_c mCL	H_a mCL	H_c mCL
+ 20°C	7	---	7	---
+ 50°C	6	---	6	---
+ 80°C	2,2	---	3	---
+ 110°C	---	8,1	---	7

These values do not take account of losses of head in the suction pipe.

• Flooded suction pump on storage tank or mains water system (with low water protection kit)



ELECTRICAL DATA AND DIMENSIONS



ORDER REFERENCE	MOTOR									PUMP										mass kg		
	P2 kW	Efficiency according to load (%)			Power factor cos φ	Speed rpm	motor voltage			Capacitor μF	Suction ports. DNA	Ports ref. DNR	H mm	H1 mm	H2 mm	L mm	L1 mm	L2 mm	L3 mm		L4 mm	L5 mm
		4/4	3/4	2/4			1x230 V	3x230 V	3x400 V													
MULTI-H202-SE-M	0,55	-	-	-	0,76	2860	4	-	-	12	1	1	216	90	104	375	204	95	109,5	51	106	9,8
MULTI-H202-SE-T	0,55	-	-	-	0,76	2860	-	3	1,7	-	1	1	192	90	104	375	204	95	109,5	51	106	8,9
MULTI-H203-SE-M	0,55	-	-	-	0,76	2860	4	-	-	12	1	1	216	90	104	375	204	95	109,5	51	106	9,8
MULTI-H203-SE-T	0,55	-	-	-	0,76	2860	-	3	1,7	-	1	1	192	90	104	375	204	95	109,5	51	106	8,9
MULTI-H204-SE-M	0,55	-	-	-	0,76	2860	4	-	-	12	1	1	216	90	104	423	252	95	157,5	51	106	10,6
MULTI-H204-SE-T	0,55	-	-	-	0,76	2860	-	3	1,7	-	1	1	192	90	104	423	252	95	157,5	51	106	9,7
MULTI-H205-SE-M	0,75	79	78	76	0,82	2850	5,1	-	-	16	1	1	216	90	104	423	252	95	157,5	51	106	12,2
MULTI-H206-SE-M	1,1	80,5	80,5	78,0	0,82	2850	7,2	-	-	30	1	1	224	90	104	472	276	103,5	181,5	51	106	15,7
MULTI-H402-SE-M	0,55	-	-	-	0,76	2860	4	-	-	12	1 1/4	1	216	90	104	375	204	95	109,5	51	106	9,8
MULTI-H402-SE-T	0,55	-	-	-	0,76	2860	-	3	1,7	-	1 1/4	1	192	90	104	375	204	95	109,5	51	106	8,9
MULTI-H403-SE-M	0,55	-	-	-	0,76	2860	4	-	-	12	1 1/4	1	216	90	104	375	204	95	109,5	51	106	10,7
MULTI-H403-SE-T	0,55	-	-	-	0,76	2860	-	3	1,7	-	1 1/4	1	192	90	104	375	204	95	109,5	51	106	9,8
MULTI-H404-SE-M	0,75	79	78	76	0,82	2850	5,1	-	-	16	1 1/4	1	216	90	104	423	252	95	157,5	51	106	12,2
MULTI-H405-SE-M	1,1	80,5	80,5	78,0	0,82	2850	7,2	-	-	30	1 1/4	1	224	90	104	448	252	103,5	157,5	51	106	15,2
MULTI-H406-SE-M	1,5	82	82	80	0,77	2900	9,2	-	-	40	1 1/4	1	224	90	104	472	276	103,5	181,5	51	106	17,8
MULTI-H802-SE-M	0,75	79	78	76	0,82	2850	5,1	-	-	16	1 1/2	1 1/4	216	90	104	387	216	95	121,5	51	106	15,8
MULTI-H803-SE-M	1,1	80,5	80,5	78,0	0,82	2850	7,2	-	-	30	1 1/2	1 1/4	224	90	104	412	216	103,5	121,5	51	106	14,5
MULTI-H804-SE-M	1,5	82	82	80	0,77	2900	9,2	-	-	40	1 1/2	1 1/4	224	90	104	472	276	103,5	181,5	51	106	16

ORDER REFERENCE	MOTOR									PUMP										mass kg
	P2 kW	Efficiency according to load (%)			Power factor cos φ	Speed rpm	motor voltage		Suction ports. DNA	Ports ref. DNR	H mm	H1 mm	H2 mm	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	
		4/4	3/4	2/4			3x230 V	3x400 V												
MULTI-H205N-SE-T	0,75	79	78	76	0,82	2850	3,2	1,85	1	1	219	90	104	457	252	110	157,5	52	52	13
MULTI-H206N-SE-T	1,1	80,5	80,5	78,0	0,82	2850	4,3	2,5	1	1	219	90	104	481	276	110	181,5	52	52	13,8
MULTI-H404N-SE-T	0,75	79	78	76	0,82	2850	3,2	1,85	1 1/4	1	219	90	104	457	252	110	157,5	52	52	13
MULTI-H405N-SE-T	1,1	80,5	80,5	78,0	0,82	2850	4,3	2,5	1 1/4	1	219	90	104	457	252	110	157,5	52	52	13,8
MULTI-H406N-SE-T	1,1	80,5	80,5	78,0	0,82	2850	4,3	2,5	1 1/4	1	219	90	104	481	276	110	181,5	52	52	16
MULTI-H802N-SE-T	0,75	79	78	76	0,82	2850	3,2	1,85	1 1/2	1 1/4	219	90	104	421	216	110	121,5	52	52	12,3
MULTI-H803N-SE-T	1,1	80,5	80,5	78,0	0,82	2850	4,3	2,5	1 1/2	1 1/4	219	90	104	421	216	110	121,5	52	52	13,1
MULTI-H804N-SE-T	1,5	82	82	80	0,77	2900	5,7	3,3	1 1/2	1 1/4	240	90	104	523	276	148	181,5	52	52	19,1
MULTI-H805N-SE-T	2,2	84	84	82	0,89	2900	8,8	5,1	1 1/2	1 1/4	240	90	104	523	276	148	181,5	52	52	20,5
MULTI-H1602N-SE-T	1,5	82	82	80	0,77	2900	5,7	3,3	2	1 1/2	240	90	105	482	236	148	138	55	52	19
MULTI-H1603N-SE-T	2,2	84	84	82	0,89	2900	8,8	5,1	2	1 1/2	240	90	105	482	235,5	148	138	55	52	21,4
MULTI-H1604N-SE-T	2,2	84	84	82	0,89	2900	8,8	5,1	2	1 1/2	240	90	105	526	280,5	148	183	55	52	22,1

MULTI-H

RECOMMENDED ACCESSORIES

- ACSON : ON/OFF control device and protection against lack of water.
- Shut-off valve



• Strainer foot valve

- Protective slave switch for three-phase motor



• Non-return valve

- Water hammer tank



• Vibration-damping sleeves

- Bladder tank



FEATURES

a) Electrical

- IE2 "T" types: 230-400 V - 50 Hz three-phase
 - "M" types: - 230 V - 50 Hz single-phase with capacitor integrated into the terminal box.
 - Three-phase motors MUST be protected by a slave switch.
 - Stuffing box used for connections to the motor terminal box
- Provide a switch and low-water protection box in both single-phase and three-phase.

b) Fitting

- On solid base using foundation bolts.
- Installation of pump in suction mode with compulsory strainer foot valve, or flooded suction mode on storage tank or mains water system with low water protection kit.
- Connection to pump via a flexible hose or rigid piping.
- The installation must allow for the protection of the pump against adverse weather conditions and frost (avoid direct exposure to rain or sun).

c) Packaging

Pump delivered in cardboard packaging, without connection fittings.

d) Maintenance

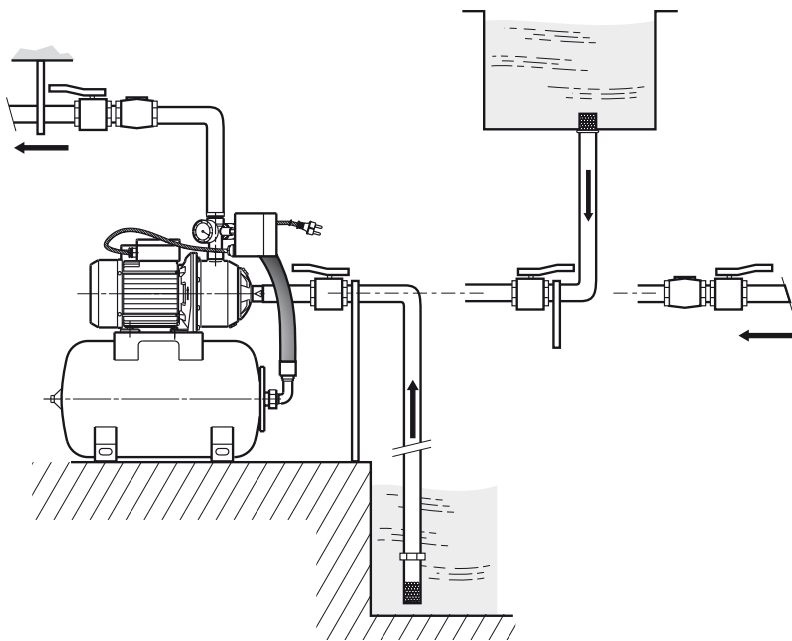
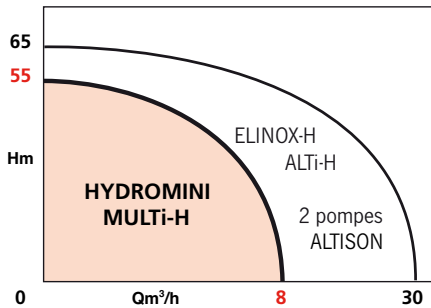
Replacement of recommended spare parts (*) subject to wear.

OPTIONS AND ACCESSORIES

- Shut-off valves
- Non-return valves
- Strainer foot valve
- Vibration-damping sleeves
- Suction kit
- Bladder or galvanised tanks
- Water hammer tanks
- ME low-water protection kit
- ACSON: ON/OFF control device and protection against lack of water
- Protective slave switch for three-phase motor...

OPERATING RANGES

Flow rates of up to:	8 m ³ /h
Manometric heads of up to:	55 m
Max. operating pressure:	4 bar
Max. temperature:	+50°C
Max. suction head:	7 m
DN suction:	1" - 1 1/4"
DN delivery:	1"



HYDROMINI MULTI-H

APPLICATIONS

Pressure maintenance for water distribution systems with insufficient or non-existent pressure in the domestic and small-scale collective sectors:

- Water supply and distribution from wells, springs or storage tanks.
- Irrigation - watering.

• Raising the pressure of a weak mains water system (if the total pressure does not exceed 4 bar).

For detached houses, rural homes, small farms, small-scale industries...

Certified
ACS



• HYDROMINI MULTI-H

ADVANTAGES

- **Surpresseurs entièrement montés, câblés et pré-réglés, prêts à l'emploi.**
- **Easy installation: one electrical connection and two hydraulic connections.**
- **Stainless steel hydraulic assembly.**
- **Interchangeable butyl, food-grade bladder tank.**
- **Integrated thermal protection of motor on all models.**
- **User-friendly operation and maintenance at low cost**

DESIGN

Automatic booster pumps, pre-assembled and ready for fitting, equipped with:

- MULTi-H single-phase or three-phase pump (203; 204; 205; 404; 405)
- Tank with an interchangeable bladder (24, 50 and 100 l)
- Filler plug
- Drain plug
- Cable and plug (single-phase version)
- Pump/tank connection hose
- Inflation valve
- Pressure gauge and pressure switch.

HYDROMINI SINGLE-PHASE

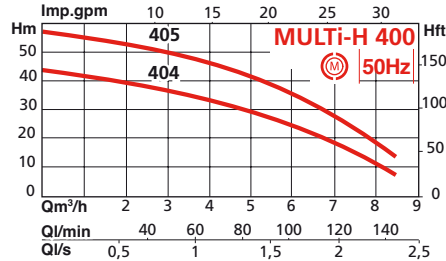
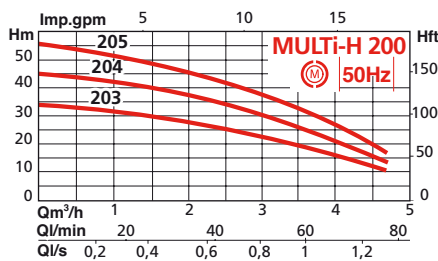
- Thermal protection integrated into the winding, automatic resetting after cooling.

HYDROMINI THREE-PHASE

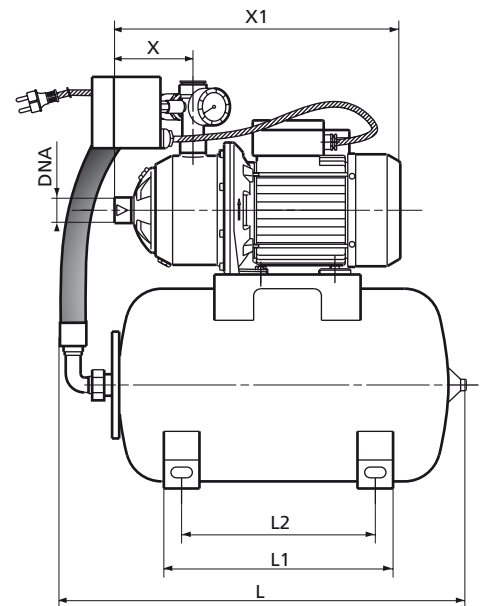
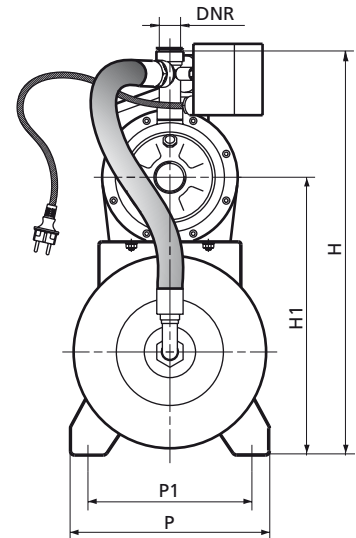
- Thermal protection of motor integrated into the pressure switch; manual resetting.
- The installation must allow for the protection of the pump against adverse weather conditions and frost (avoid direct exposure to rain or sun).
- The setting of on-off pressures on the contact or pressure switch is carried out in the factory.
- Standards: EN 60335-2-41

HYDROMINI MULTI-H

HYDRAULIC, ELECTRICAL AND DIMENSIONAL SPECIFICATIONS



Product	DNA	DNR	Voltage	Volume	H	L	P	H1	L1	L2	P1	X	X1
Multi-H-203-M-H20	1"	1"	1~230 V	20	570	500	280	385	220	170	230	110	375
Multi-H-203-M-H50	1"	1"	1~230 V	50	655	700	360	470	350	300	280	110	375
Multi-H-203-M-H100	1"	1"	1~230 V	100	750	820	450	565	400	350	320	110	375
Multi-H-203-T-H20	1"	1"	3~230/400 V	20	570	500	280	385	220	170	230	110	375
Multi-H-203-T-H50	1"	1"	3~230/400 V	50	655	700	360	470	350	300	280	110	375
Multi-H-203-T-H100	1"	1"	3~230/400 V	100	750	820	450	565	400	350	320	110	375
Multi-H-204-M-H20	1"	1"	1~230 V	20	570	500	280	385	220	170	230	158	423
Multi-H-204-M-H50	1"	1"	1~230 V	50	655	700	360	470	350	300	280	158	423
Multi-H-204-M-H100	1"	1"	1~230 V	100	750	820	450	565	400	350	320	158	423
Multi-H-204-T-H20	1"	1"	3~230/400 V	20	570	500	280	385	220	170	230	158	423
Multi-H-204-T-H50	1"	1"	3~230/400 V	50	655	700	360	470	350	300	280	158	423
Multi-H-204-T-H100	1"	1"	3~230/400 V	100	750	820	450	565	400	350	320	158	423
Multi-H-205-M-H20	1"	1"	1~230 V	20	570	500	280	385	220	170	230	158	423
Multi-H-205-M-H50	1"	1"	1~230 V	50	655	700	360	470	350	300	280	158	423
Multi-H-205-M-H100	1"	1"	1~230 V	100	750	820	450	565	400	350	320	158	423
Multi-H-205N-T-H20	1"	1"	3~230/400 V	20	597	500	280	385	220	170	230	158	457
Multi-H-205N-T-H50	1"	1"	3~230/400 V	50	682	700	360	470	350	300	280	158	457
Multi-H-205N-T-H100	1"	1"	3~230/400 V	100	777	820	450	565	400	350	320	158	457
Multi-H-404-M-H20	1"1/4	1"	1~230 V	20	570	500	280	385	220	170	230	158	423
Multi-H-404-M-H50	1"1/4	1"	1~230 V	50	655	700	360	470	350	300	280	158	423
Multi-H-404-M-H100	1"1/4	1"	1~230 V	100	750	820	450	565	400	350	320	158	423
Multi-H-404N-T-H20	1"1/4	1"	3~230/400 V	20	597	500	280	385	220	170	230	158	457
Multi-H-404N-T-H50	1"1/4	1"	3~230/400 V	50	682	700	360	470	350	300	280	158	457
Multi-H-404N-T-H100	1"1/4	1"	3~230/400 V	100	777	820	450	565	400	350	320	158	457
Multi-H-405-M-H20	1"1/4	1"	1~230 V	20	570	500	280	385	220	170	230	158	448
Multi-H-405-M-H50	1"1/4	1"	1~230 V	50	655	700	360	470	350	300	280	158	448
Multi-H-405-M-H100	1"1/4	1"	1~230 V	100	750	820	450	565	400	350	320	158	448
Multi-H-405N-T-H20	1"1/4	1"	3~230/400 V	20	597	500	280	385	220	170	230	158	457
Multi-H-405N-T-H50	1"1/4	1"	3~230/400 V	50	682	700	360	470	350	300	280	158	457
Multi-H-405N-T-H100	1"1/4	1"	3~230/400 V	100	777	820	450	565	400	350	320	158	457



TANKS

Mean flow rate:	2 000 to 8 000 l/h
Capacity:	20 to 100 l
Pressure on:	1,5 to 2 bar
Pressure off:	3 to 3,5 bar
DN (nominal diameter) suction:	1" - 1"1/4
DN delivery:	1"

• Low-water protection kit for connecting HYDROMINI to the mains system.



RECOMMENDED ACCESSORIES

- Strainer foot valve (max. flow section 1 mm).
- 1/4 T valve on suction.
- 1/4 T valve on delivery.
- Non-return valve
- Pipe hanger.
- Low-water protection kit (connection to mains system).
- Float switch, pressure switch or PMS