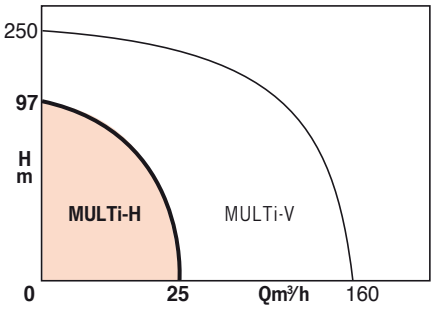
OPERATING LIMITS

Flow rates up to:	**25 m³/h**
Head up to:	**97 m**
Max. operating pressure:	**10 bar**
Max.suction pressure:	**6 bar**
Temperature range:	**– 15° to + 110°C**
Max. ambient temperature:	**+ 40°C**
DN of ports:	**G1 to G2**

MULTI-H

STAINLESS STEEL MULTISTAGE HORIZONTAL PUMPS
2 pole - 60 Hz
2 ranges: stainless steel 304 and 316L



APPLICATIONS

Pumping of clear non-loaded fluids in the housing agricultural and industrial sectors:

- Conveyance - Overpressure
- Sprinkling - Irrigation
- High pressure washing
- Draining - Filling (ponds, etc.)
- Heating - Air conditioning
- Water treatment (demineralization, filtering, etc.).

And incorporation in all modular systems.

Pumped fluids:

- 304 range: clear non-aggressive liquids (drinking water, glycol water, etc.).
- 316L range: aggressive liquids (sea water, demineralized water, etc.).

ADVANTAGES

- **Monobloc pump, compact, economical and silent.**
- **Hydraulic assembly in stainless steel: anti-corrosive safety and increased pump service life.**
- **Motor ball bearing fitted in the front endshield, amply dimensioned and leaktight.**
- **Suction rings between very thick cells limitating thermal expansion and eliminating risks of seizing up.**
- **Maximum reliability - high efficiency due to impeller profile limiting the number of stages, shaft size and ball bearing size.**
- **Standardized mechanical seals, +110°C maximum.**
- **Easy installation.**

• MULTI-H 3-phase motor

• Full stainless steel hydraulics

• MULTI-H single-phase motor

MULTI-H

DESIGN

• Hydraulic part

STAINLESS STEEL

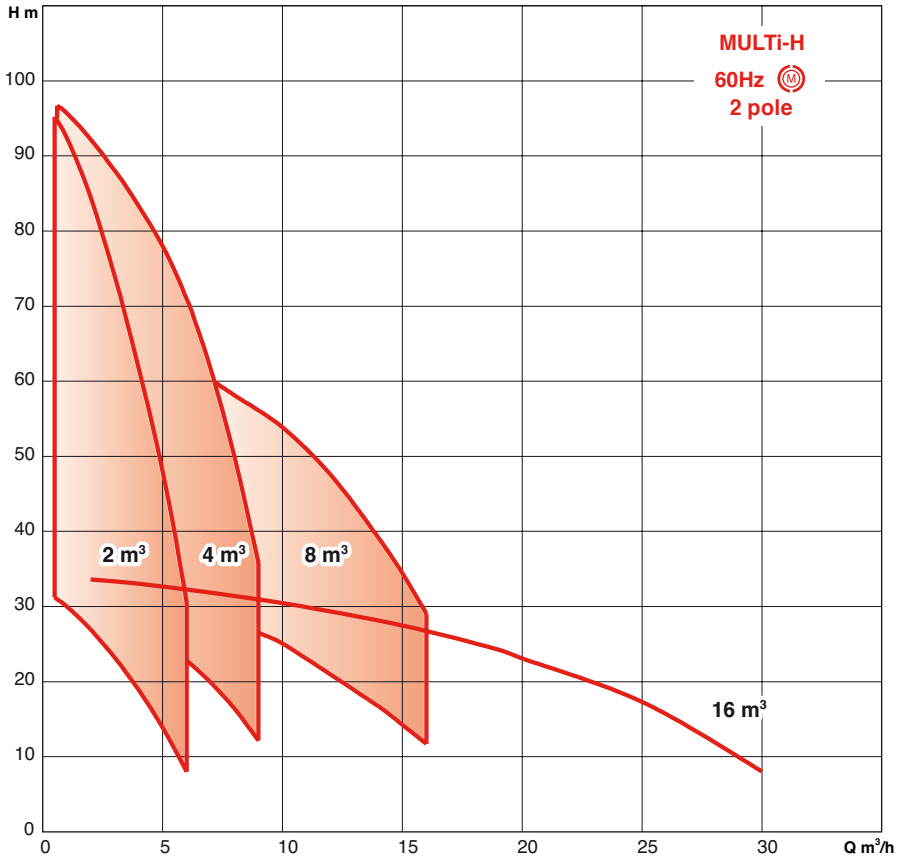
- Horizontal, centrifugal, not self-priming.
- Multi-stage from 2 to 6 stages.
- Axial suction, vertical discharge upwards.
- Impellers mounted directly on the motor shaft extension.
- Shaft leaktightness by standardized mechanical seal.
- Hydraulic assembly mounted at 8 points on a lantern bracket.

• Motor

- Standard ventilated.
- Extended shaft end.
- Single-phase motor with integrated thermal protection, automatic reset.
- Single-phase Capacitor incorporated in the terminal box.
- Ball bearing of the impeller shaft lubricated for life.

Speed of rotation :	3500 rpm
Windings three-phase :	220-380 V
Single-phase :	220 V
Frequency :	60 Hz
Insulating class :	155°C (F)
Protection index :	IP 54

HYDRAULIC PRESELECTION CHARTS



STANDARD CONSTRUCTION

Main parts	Materials	
	non-aggressive liquids	aggressive liquids*
Pump casing	SS 304	SS 316 L
Impellers	SS 304	SS 316 L
Cells (stage shell)	SS 304	SS 316 L
Pump shaft	SS 316 L	SS 316 L
Cell centring	SS 304	SS 316 L
Mecanical seal	Carbon/ Ceramic	Tungsten carbide/ Carbon
O'rings	EPDM Ethylene Propylene	VITON
Plugs	SS 316L	SS 316 L
Fixing-support bearing	Aluminium	Aluminium

* Except MULTi-H1600 series

NOTA: 304 stainless steel (X5CrNi18-10) or **316L stainless steel** (X2CrNiMo17-12) recommended materials offering considerable resistance to corrosion. Clean, clear, fibreless liquids conveyed and only slightly loaded in sand/ silica (40g/m³ maximum concentration).

IDENTIFICATION

MULTi-H 206 -S E - M
X V - T

Pump code
STAINLESS STEEL
MULTI-STAGE
HORIZONTAL

Nominal flow in m³/h

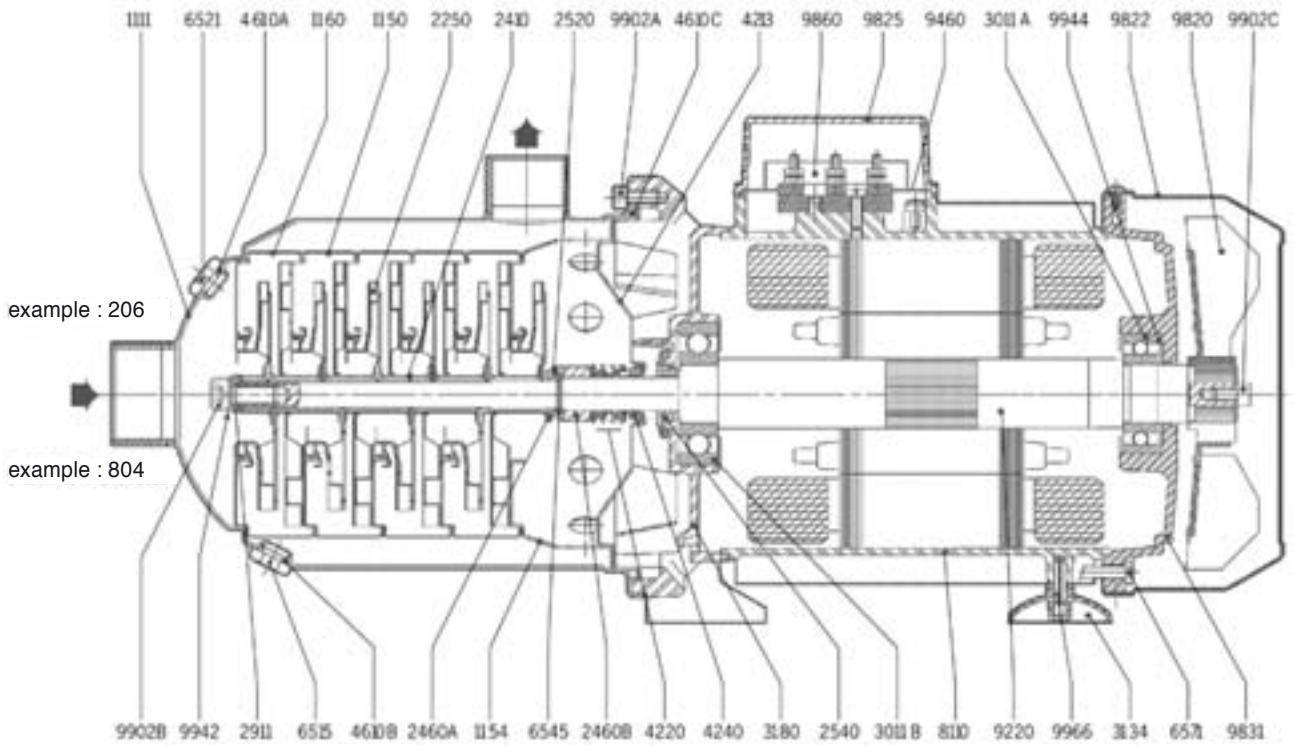
Number of stages

S : SS 304
X : SS 316L

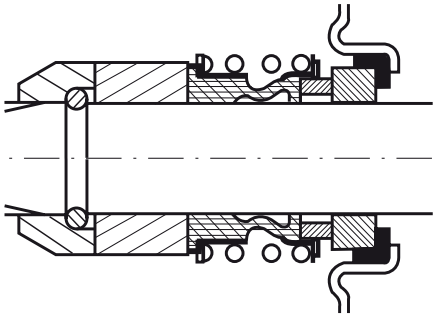
E : EPDM
V : VITON

T : Three-phase motor
M : Single-phase motor

SECTION DRAWING



MECHANICAL SEAL



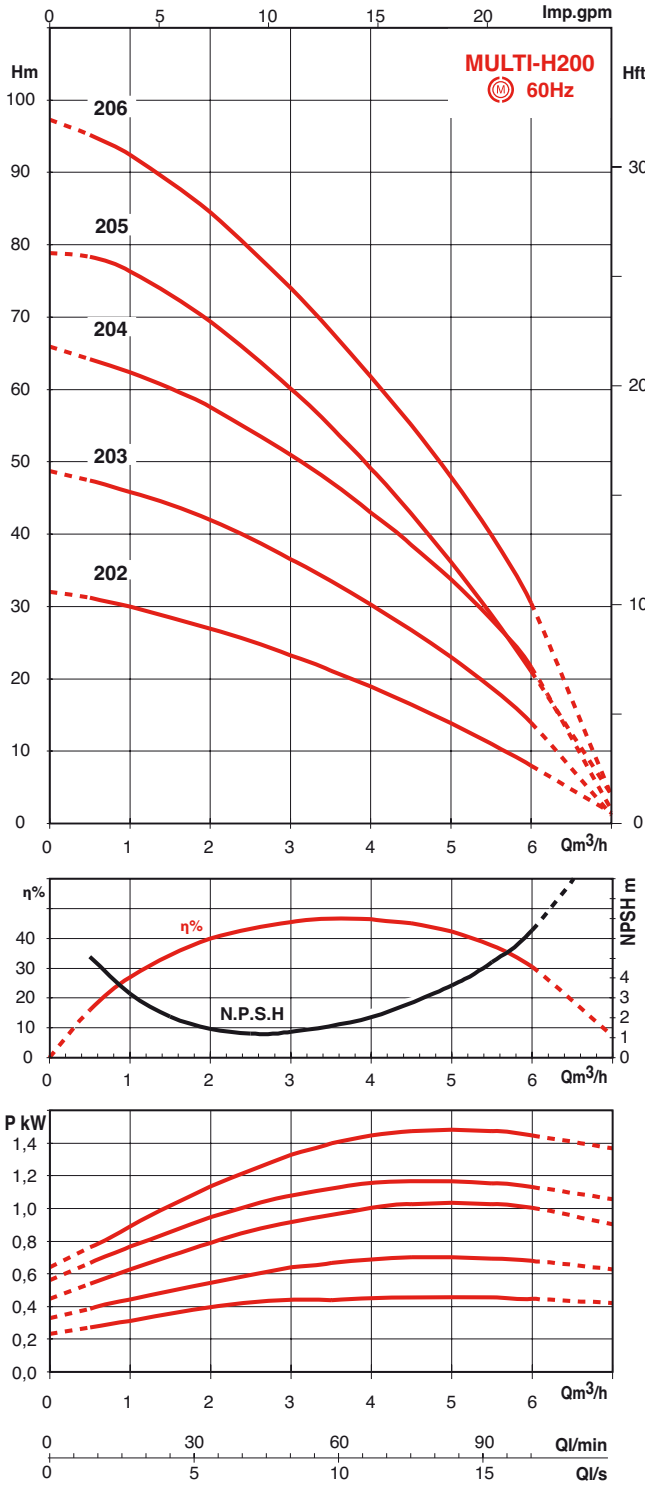
PART LIST

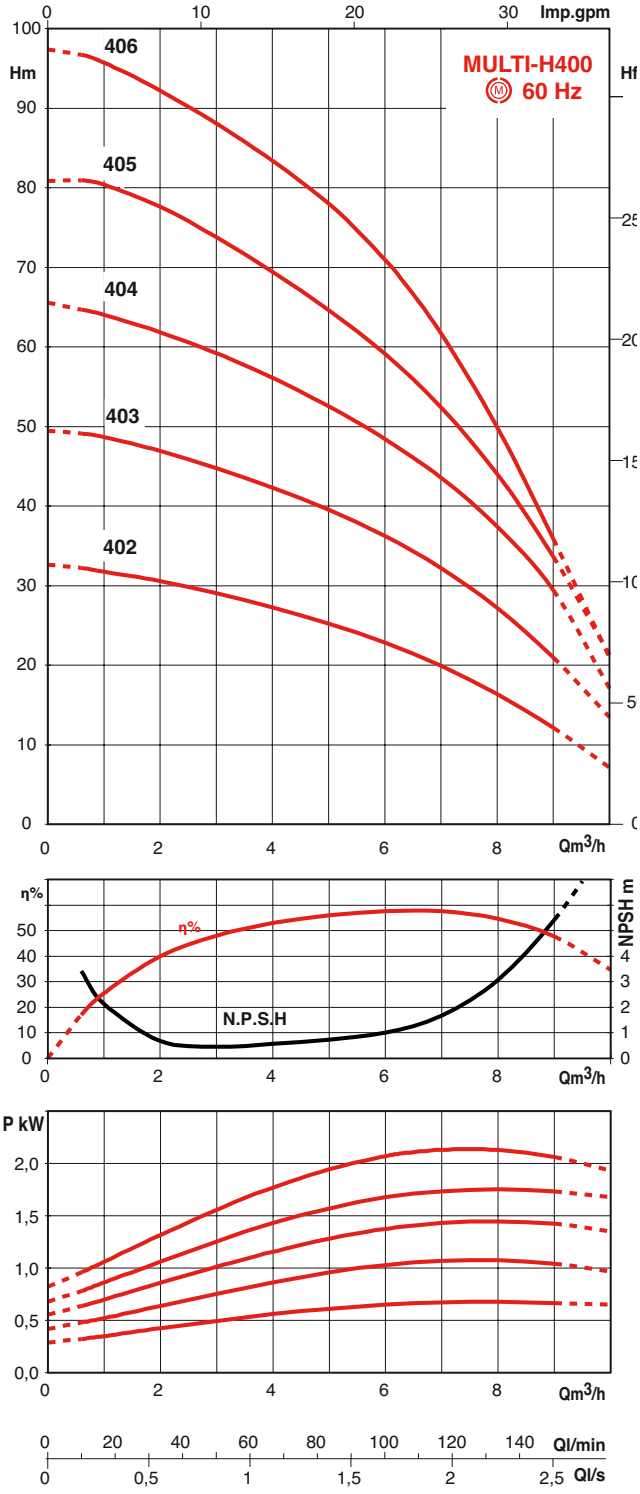
- 1111 - Pump casing
- • 1150 - Stage casing with return vane
- • 1154 - Stage centring
- • 1160 - Stage casing without return vane
- • 2250 - Impeller
- 2410 - Impeller spacer
- 2460 A - Impeller adjusting washer
- 2460 B - Mechanical seal tapered ring
- 2520 - Impeller back-up ring
- 2540 - Thrower
- 2911 - Shaft end washer
- • 3011 A - Rolling bearing l fan side
- • 3011 B - Rolling bearing l pump side
- • 3134 - Motor support foot
- 3180 - Lantern bracket
- 4213 - Ring casing
- • 4220 - Rotating part Mechanical
- • 4240 - Stationary part seal
- • 4610 A - Round section joint ring (filling cap)
- • 4610 B - Round section joint ring (draining cap)
- • 4610 C - Round section joint ring (lantern casing bracket)
- 6515 - Draining cap
- 6521 - Purging and filling cap
- • 6545 - Circlip (back-up ring)
- 6571 - Motor tie bolt
- • 8110 - Electric motor casing
- • 9220 - Impeller shaft
- • 9460 - Terminal cover seal
- • 9820 - Fan
- 9822 - Fan cover
- • 9825 - Motor terminal cover
- • 9831 - Motor rear bearing
- • 9860 - Capacitor
- 9902 A - Lantern casing bracket screw
- 9902 B - Shaft end screw
- 9902 C - Cle aning screw
- 9942 - Fan-type washer
- 9944 - Spring washer
- 9966 - Elastic pin

(•) Recommended spare parts

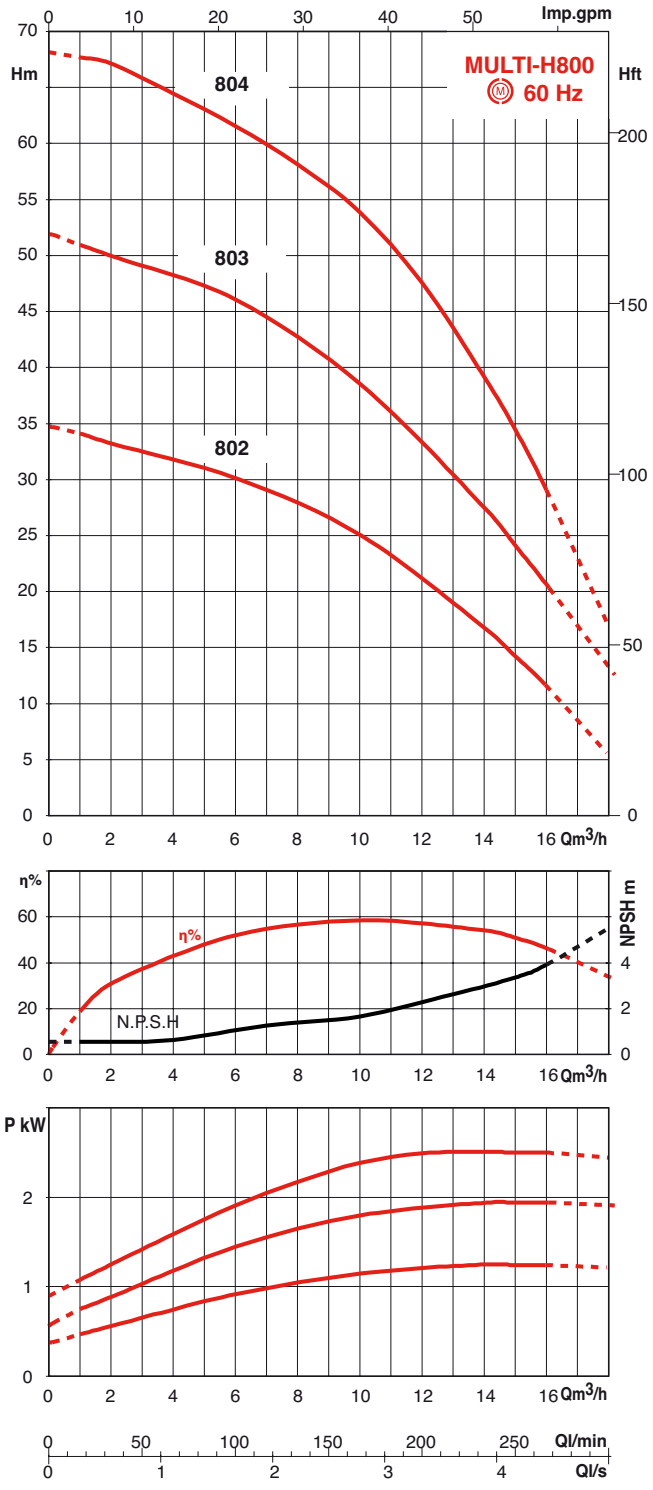
MULTI-H

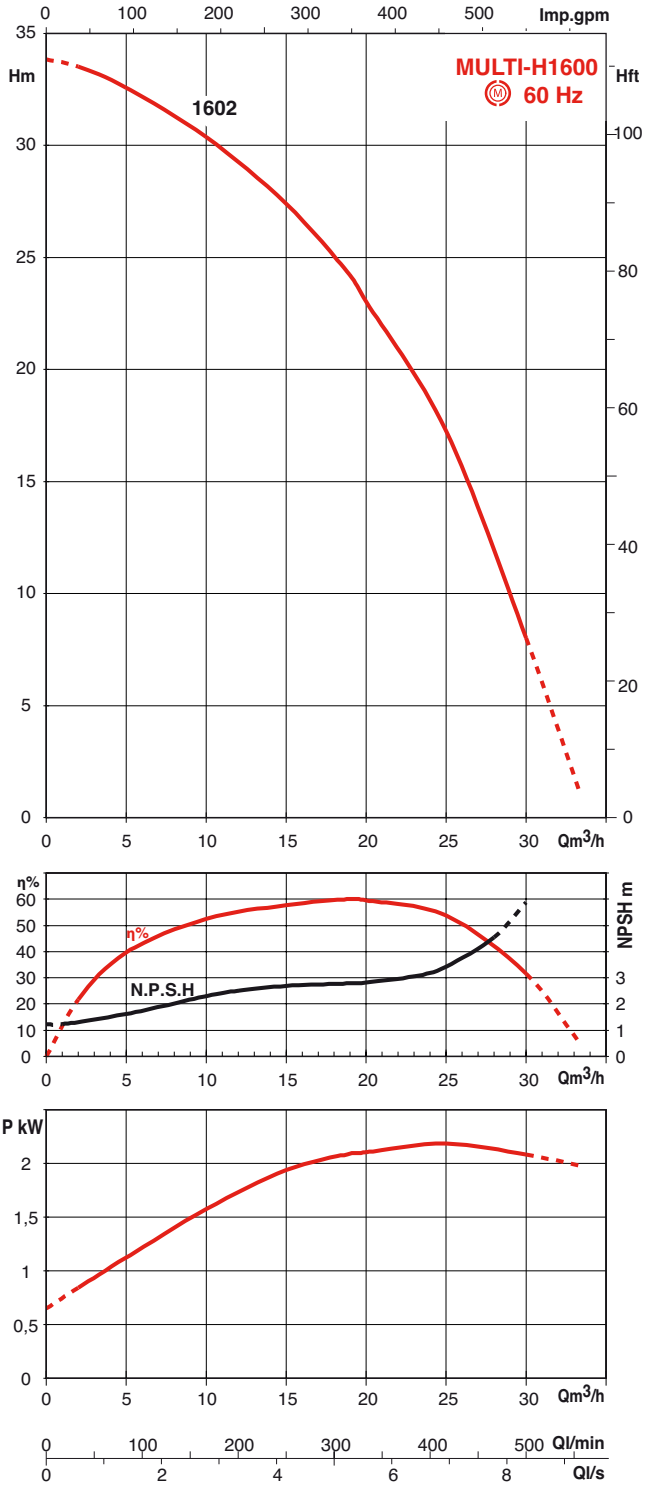
HYDRAULIC PERFORMANCE – 200 AND 400 SERIES – 2 POLE





HYDRAULIC PERFORMANCE – 800 AND 1600 SERIES – 2 POLE

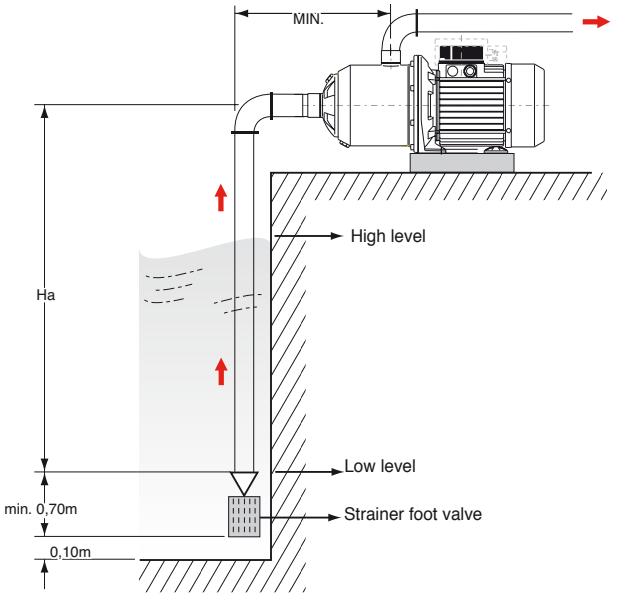




MULTI-H

SECTIONAL VIEW OF THE INSTALLATION

• **Suction pumpp**

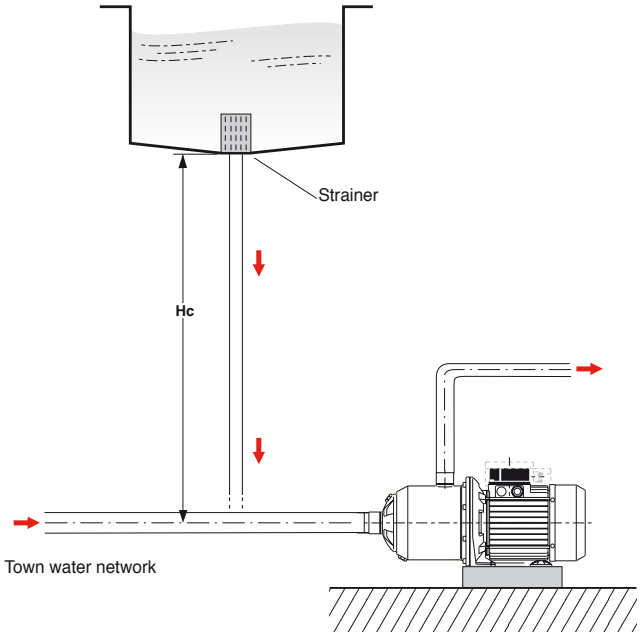


Maximum suction head (Ha) and minimum pump head (Hc) at nominal pump flow rate.

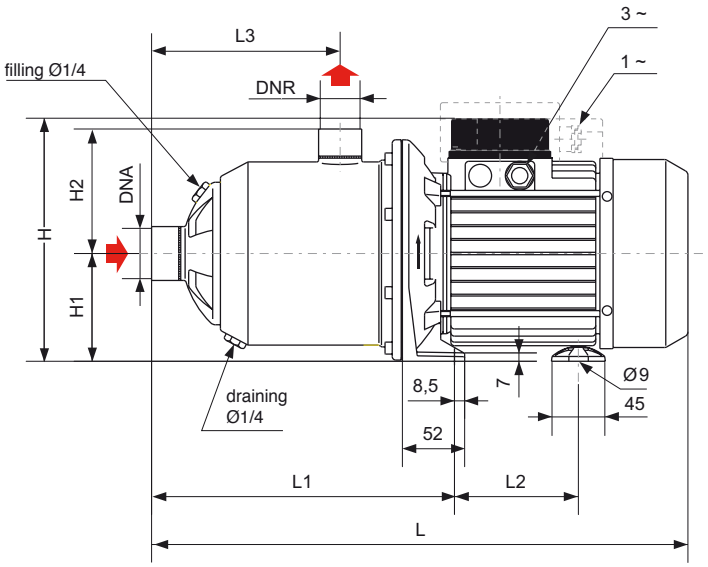
Fluid temperature	MULTi-H 200		MULTi-H 400/800/1600	
	Ha mCL	Hc mCL	Ha mCL	Hc mCL
+ 20°C	7	---	7	---
+ 50°C	6	---	6	---
+ 80°C	2,2	---	3	---
+110°C	---	8,1	---	7

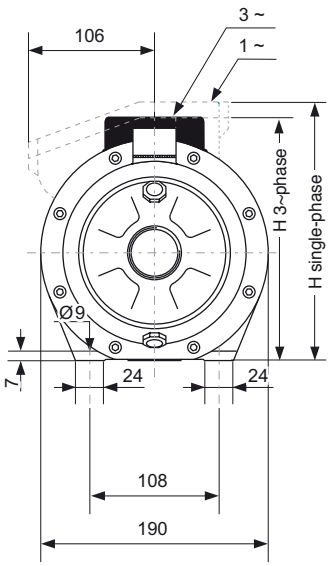
These figures do not take into account pressure loss in the suction duct.

• **On-load pump on storage tank or town water network**
(with dry running protection kit)



ELECTRICAL DATA AND DIMENSIONS





ORDER REFERENCE	MOTOR						PUMP							Mass
	P2	I Maxi A 220V	I Maxi A 380V	capacitor	suction	discharge	L	H	H1	H2	L1	L2	L3	
	kW	(A)	(A)	µF			mm	mm	mm	mm	mm	mm	mm	kg
MULTI-H202-XV-M/6	0,55	3,7	-	12	G1	G1	375	216	90	104	204	95	109,5	11,3
MULTI-H202-SE-M/6	0,55	3,7	-	12	G1	G1	375	216	90	104	204	95	109,5	11,3
MULTI-H202-XV-T/6	0,55	2,6	1,5	-	G1	G1	375	192	90	104	204	95	109,5	10,4
MULTI-H202-SE-T/6	0,55	2,6	1,5	-	G1	G1	375	192	90	104	204	95	109,5	10,4
MULTI-H203-XV-M/6	0,75	5,2	-	16	G1	G1	375	216	90	104	204	95	109,5	12,3
MULTI-H203-SE-M/6	0,75	5,2	-	16	G1	G1	375	216	90	104	204	95	109,5	12,3
MULTI-H203-XV-T/6	0,75	3,3	1,9	-	G1	G1	375	192	90	104	204	95	109,5	11,4
MULTI-H203-SE-T/6	0,75	3,2	1,9	-	G1	G1	375	192	90	104	204	95	109,5	11,4
MULTI-H204-XV-M/6	1,1	9	-	30	G1	G1	448	224	90	104	252	103,5	157,5	14,3
MULTI-H204-SE-M/6	1,1	9	-	30	G1	G1	448	224	90	104	252	103,5	157,5	14,3
MULTI-H204-XV-T/6	1,1	4,6	2,7	-	G1	G1	423	192	90	104	252	95	157,5	13,4
MULTI-H204-SE-T/6	1,1	4,6	2,7	-	G1	G1	423	192	90	104	252	95	157,5	13,4
MULTI-H204-SV-T/6	1,1	4,6	2,7	-	G1	G1	423	192	90	104	252	95	157,5	13,4
MULTI-H205-XV-M/6	1,1	9	-	30	G1	G1	448	224	90	104	252	103,5	157,5	14,8
MULTI-H205-SE-M/6	1,1	9	-	30	G1	G1	448	224	90	104	252	103,5	157,5	14,8
MULTI-H205-XV-T/6	1,1	4,6	2,7	-	G1	G1	423	192	90	104	252	95	157,5	14
MULTI-H205-SE-T/6	1,1	4,6	2,7	-	G1	G1	423	192	90	104	252	95	157,5	14
MULTI-H206-XV-M/6	1,5	10,8	-	40	G1	G1	472	224	90	104	276	103,5	181,5	16
MULTI-H206-SE-M/6	1,5	10,8	-	40	G1	G1	472	224	90	104	276	103,5	181,5	16
MULTI-H206-XV-T/6	1,5	6,9	4	-	G1	G1	472	206	90	104	276	103,5	181,5	16
MULTI-H206-SE-T/6	1,5	6,9	4	-	G1	G1	472	206	90	104	276	103,5	181,5	16
MULTI-H402-XV-M/6	0,75	5,2	-	16	G1 1/4	G1	375	216	90	104	204	95	109,5	12,3
MULTI-H402-SE-M/6	0,75	5,2	-	16	G1 1/4	G1	375	216	90	104	204	95	109,5	12,3
MULTI-H402-XV-T/6	0,75	3,3	1,9	-	G1 1/4	G1	375	192	90	104	204	95	109,5	11,4
MULTI-H402-SE-T/6	0,75	3,3	1,9		G1 1/4	G1	375	192	90	104	204	95	109,5	11,4
MULTI-H403-XV-M/6	1,1	9	-	30	G1 1/4	G1	400	224	90	104	204	103,5	109,5	14,4
MULTI-H403-SE-M/6	1,1	9	-	30	G1 1/4	G1	400	224	90	104	204	103,5	109,5	14,4
MULTI-H403-XV-T/6	1,1	4,6	2,7	-	G1 1/4	G1	375	192	90	104	204	95	109,5	13,5
MULTI-H403-SE-T/6	1,1	4,6	2,7	-	G1 1/4	G1	375	192	90	104	204	95	109,5	13,5
MULTI-H404-XV-M/6	1,5	10,8	-	40	G1 1/4	G1	448	224	90	104	252	103,5	157,5	16,5
MULTI-H404-SE-M/6	1,5	10,8	-	40	G1 1/4	G1	448	224	90	104	252	103,5	157,5	16,5
MULTI-H404-XV-T/6	1,5	6,9	4	-	G1 1/4	G1	448	206	90	104	252	103,5	157,5	15,6
MULTI-H404-SE-T/6	1,5	6,9	4	-	G1 1/4	G1	448	206	90	104	252	103,5	157,5	15,6
MULTI-H404-SV-T/6	1,5	6,9	4	-	G1 1/4	G1	448	206	90	104	252	103,5	157,5	15,6
MULTI-H405-XV-T/6	1,85	8	4,6	-	G1 1/4	G1	448	206	90	104	252	103,5	157,5	16,2
MULTI-H405-SE-T/6	1,85	8	4,6	-	G1 1/4	G1	448	206	90	104	252	103,5	157,5	16,2
MULTI-H406-XV-T/6	2,2	8,9	5,15	-	G1 1/4	G1	511	221	100	104	276	136,5	181,5	21,8
MULTI-H406-SE-T/6	2,2	8,9	5,15	-	G1 1/4	G1	511	221	100	104	276	136,5	181,5	21,8
MULTI-H406-SV-T/6	2,2	8,9	5,15	-	G1 1/4	G1	511	221	100	104	276	136,5	181,5	21,8
MULTI-H802-XV-M/6	1,5	10,8	-	40	G1 1/2	G1 1/4	412	224	90	104	216	103,5	121,5	20,1
MULTI-H802-SE-M/6	1,5	10,8	-	40	G1 1/2	G1 1/4	412	224	90	104	216	103,5	121,5	20,1
MULTI-H802-XV-T/6	1,5	6,9	4	-	G1 1/2	G1 1/4	412	206	90	104	216	103,5	121,5	14,9
MULTI-H802-SE-T/6	1,5	6,9	4	-	G1 1/2	G1 1/4	412	206	90	104	216	103,5	121,5	14,9
MULTI-H803-XV-T/6	1,85	8	4,6	-	G1 1/2	G1 1/4	412	206	90	104	216	103,5	121,5	15,5
MULTI-H803-SE-T/6	1,85	8	4,6	-	G1 1/2	G1 1/4	412	206	90	104	216	103,5	121,5	15,5
MULTI-H803-SV-T/6	1,85	8	4,6	-	G1 1/2	G1 1/4	412	206	90	104	216	103,5	121,5	15,5
MULTI-H804-XV-T/6	2,5	9,7	5,6	-	G1 1/2	G1 1/4	511	221	100	104	276	136,5	181,5	24,75
MULTI-H804-SE-T/6	2,5	9,7	5,6	-	G1 1/2	G1 1/4	511	221	100	104	276	136,5	181,5	24,75
MULTI-H1602-SE-T/6	2,2	8,9	5,15	-	G2	G1 1/2	470,5	221	100	105	235,5	136,5	138	22,35

MULTI-H

ACCESSORIES

•ACSON: ON/OFF control device and protection against lack of water

• Three-phase motor protection overload cut-out

• Water hammer tank

• Bladder tank

• Shut-off valve

• Strainer foot valve

• Check valve

• Anti-vibratory sleeves

FEATURES

a) Electrical

- "T" types: Three-phase 220-380 V - 60 Hz
- "M" types: Single-phase 220 V - 60 Hz with capacitor integrated in terminal box.
- Motor protection by overload cut-out essential for three-phase motor.
- Connections to the motor terminal by packing gland.

b) Installation

- On the solid base with fixing by foundation bolts.
- Suction pump assembly with compulsory strainer foot valve, or on-load pump on storage tank or on town water network with protection system against lack of water.
- Pump connection through flexible or rigid piping.

c) Packaging

Pump supplied in cardboard packaging, without connection accessories.

d) Maintenance

Replacement of recommended spare parts (•) subject to wear and tear.

OPTIONS & ACCESSORIES

- Shut-off valves
- Check valves
- Strainer foot valve
- Anti-vibratory sleeves
- Suction kit
- Bladder or galvanized tanks
- Water hammer tanks
- Dry running protection kit
- ACSON: ON/OFF control device and protection against lack of water
- 3-phase overload cut-out motor protection, etc.