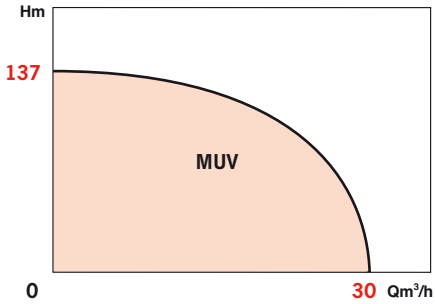
OPERATING LIMITS

Flow rates up to:	**14 m³/hr**
Manometric head up to:	**137 m CE**
Maximum operating pressure:	**10 bar**
Max.suction pressure:	**6 bar**
Temperature range:	**– 15° to + 40°C**
Max. ambient temperature:	**+ 40°C**
DN ports:	**G1" to G1"1/2**

MUV

MULTISTAGE VERTICAL PUMPS
2 poles - 50 Hz



APPLICATIONS

Pumping of clear liquids, free of particulate matter, in housing, agriculture and industry:
- Water supply - Boosting
- Sprinkling - Irrigation
- High pressure washing
- Heating – Air-conditioning

And incorporation in all modular systems. Catching from a well, a source, a river, a pond...

ADVANTAGES

- **Its lengthened shaft design provides optimal alignment**
- **Stainless steel impellers and stages, pump casing made of cast iron**
- **Thick impeller sealing rings between stages for insensitivity to thermal expansion and elimination of risk of seizing up**
- **Standardized mechanical seal + 110°C**

• MUV

N.T. N° 141-13/ENG. - Éd.1/01-07

MUV

DESIGN

• Hydraulic part

- Vertical centrifugal multistage, from 2 to 12 stage.
- Vertical axis, suction/in-line discharge ports at bottom in line
- Impellers mounted directly on the lengthened shaft of the motor.
- Shaft sealing by standardized mechanical seal.

• Motor

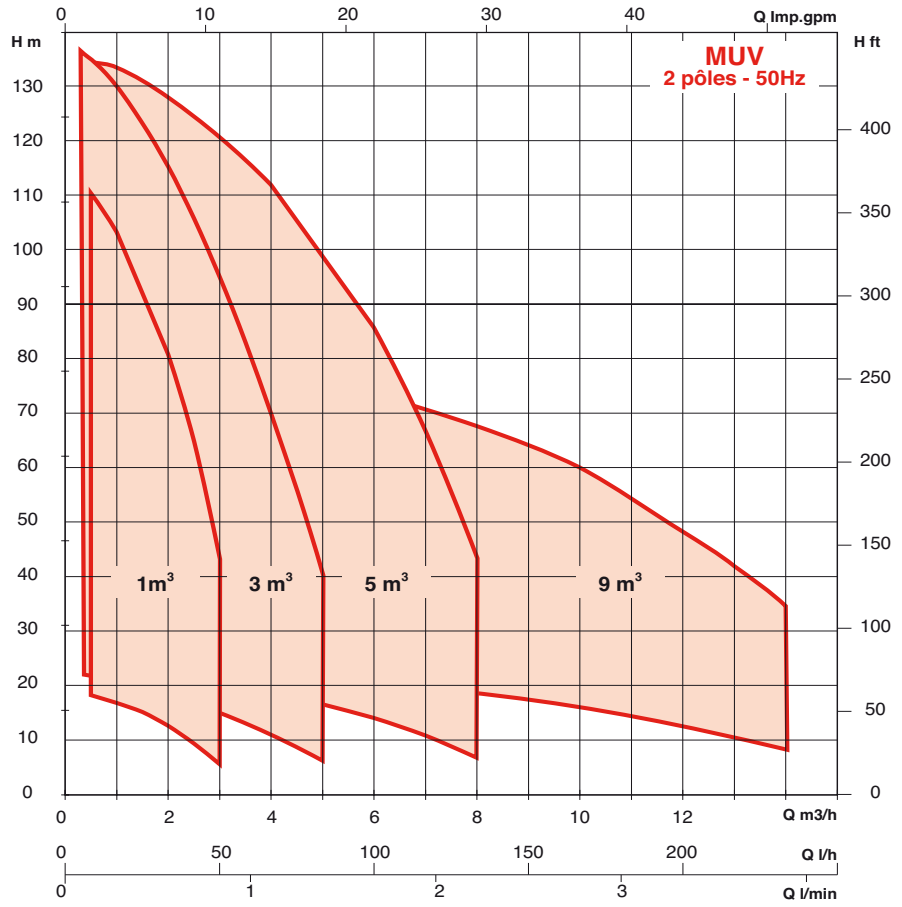
- Standard ventilated
- With lengthened shaft end
- Rotor shaft guidage bearings sealed to last.

Rotation speed:	2900 tr/mn
Winding TRI:	230-400 V
MONO:	230 V
Frequency:	50 Hz (option 60 Hz)
Insulation class:	155 (F)
Protection index:	IP 54

STANDARD CONSTRUCTION

Main parts	Material
Suc.-discharge casing	cast iron EN GJL250
Impellers	Stainless steel 304
Stages (casings)	Stainless steel 304
Pump shaft	Stainless steel
Outside jack tube	Stainless steel 304
Mechanical seal	carbide Si./Carbon
O-rings	EPDM
Motor support bearing	EN GJL250 cast iron

HYDRAULIC SELECTION CHART

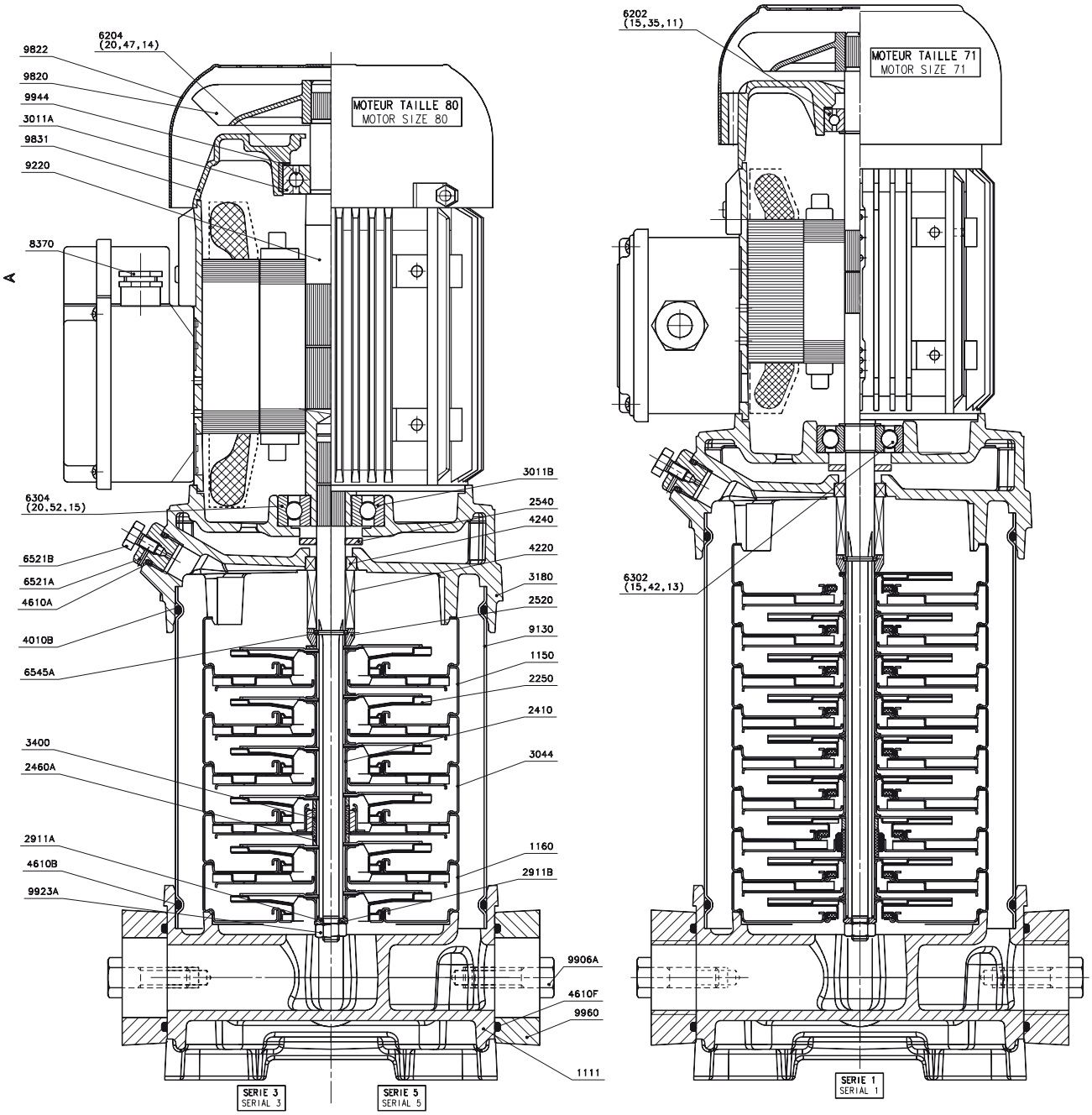


IDENTIFICATION

MUV 10 2 - O E - T / 2 / 6 / OEM / XX / B

- Pump family
- Nominal flow in m^3/hr (at 50 hz / 2 poles)
- Number of impellers
- O = Oval flanges PN16
- E = EPDM standard pump KTW/WRC
- M = Single-phase
  T = Three-phase
- 2 = 2 poles
- Nothing = 50 hz
  6 = 60 hz
- Original Equipment Manufacturer
- Technical Definition Code
- Version index

STANDARD SECTIONAL VIEW



Parts list

Suction housing	1130
Stage housing with return channel	1150
Stage housing without return channel	1160
Impeller	2250
Impeller spacer	2410
Shaft jacket spacer	2460a
Mechnical seal thrust bushing	2460b
Thrust washer spacer impeller	2460d
Thrust ring	2520
Deflecteur	2540
Bottom shaft end washer	2911a/b

Parts list

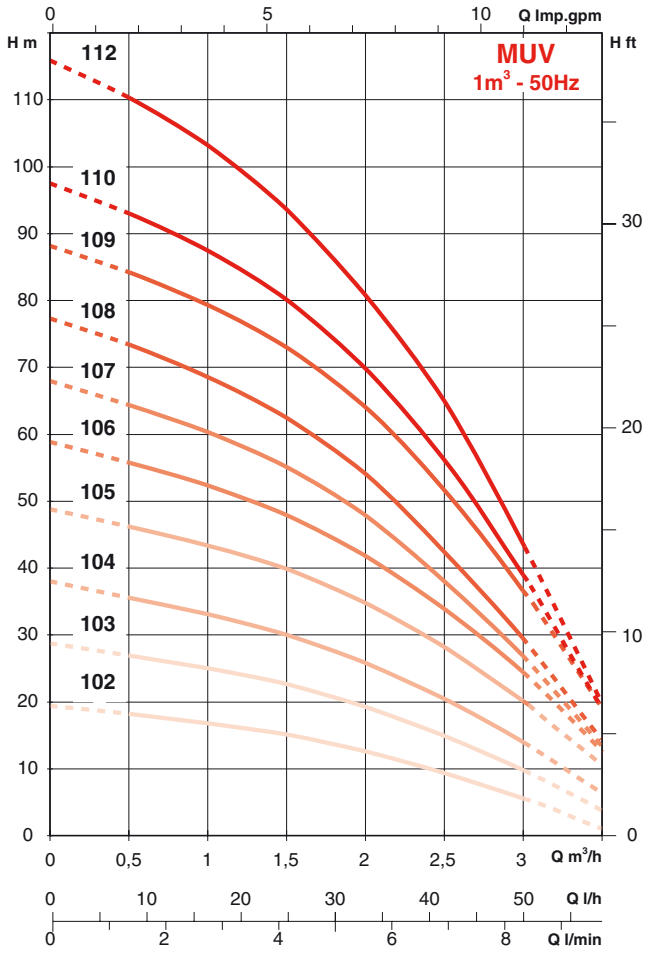
Stage casing with intermediate bearing	3044
Lantern support	3180
Shaft jacket for intermediate bearing	3400
Mechanical seal	4220/4240
.frictions	
.membrane	
.sping	
O-rings	4610a/b/c
Drain and priming plugs	6515/6521
1/2 keeper	6545
Screw m8 (motor tie rods)	6571

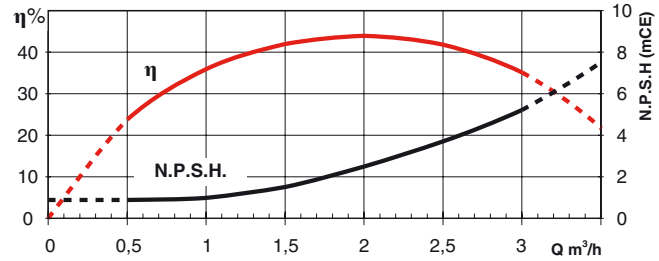
Parts list

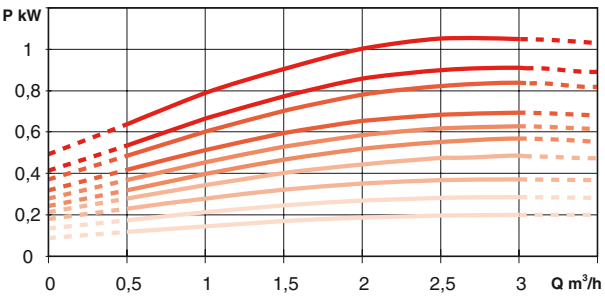
Equiped motor caracass	8110
Rotor shaft	9220
Terminal box cover	9460
Ventilator	9820
Ventilator cover	9822
Terminal box cover	9825
Flanged back stage	9831
Capacitor	9860
Shaft end nut	9923a
Spring washer	9944
Spring pin	9966

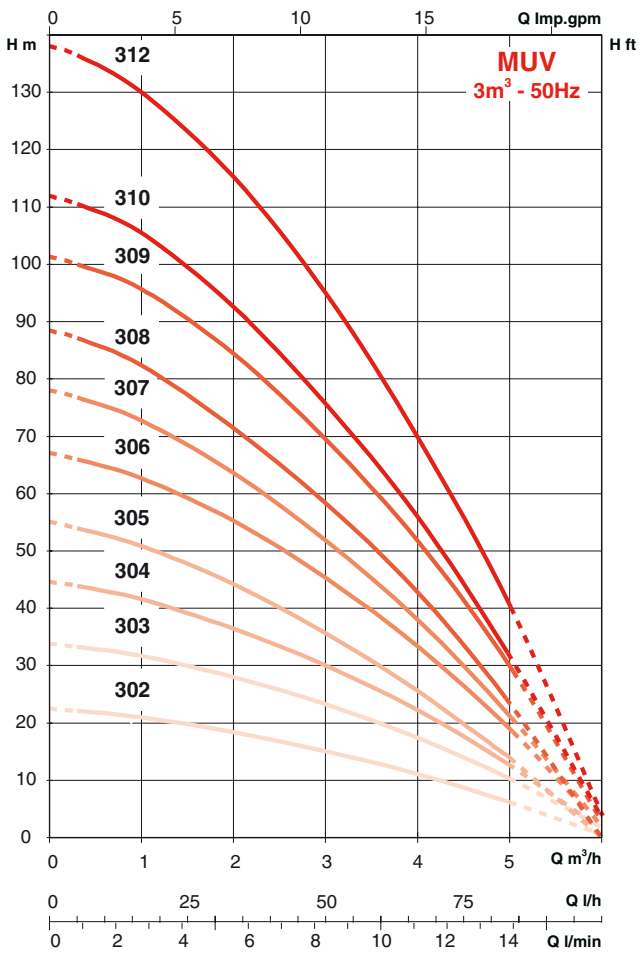
MUV

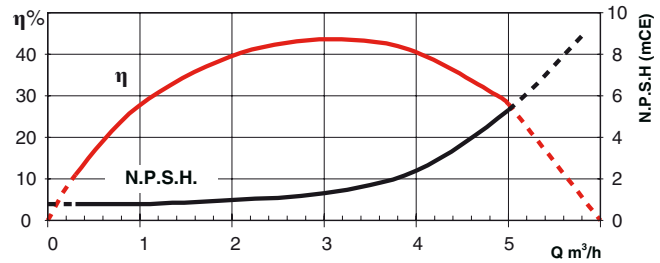
HYDRAULIC PERFORMANCES

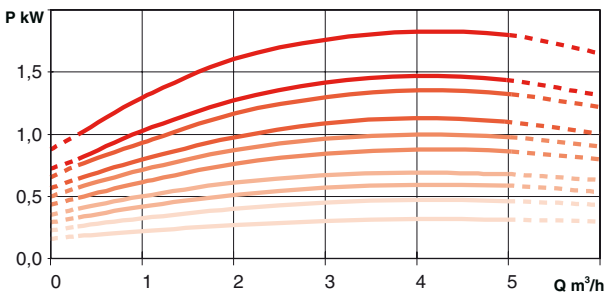




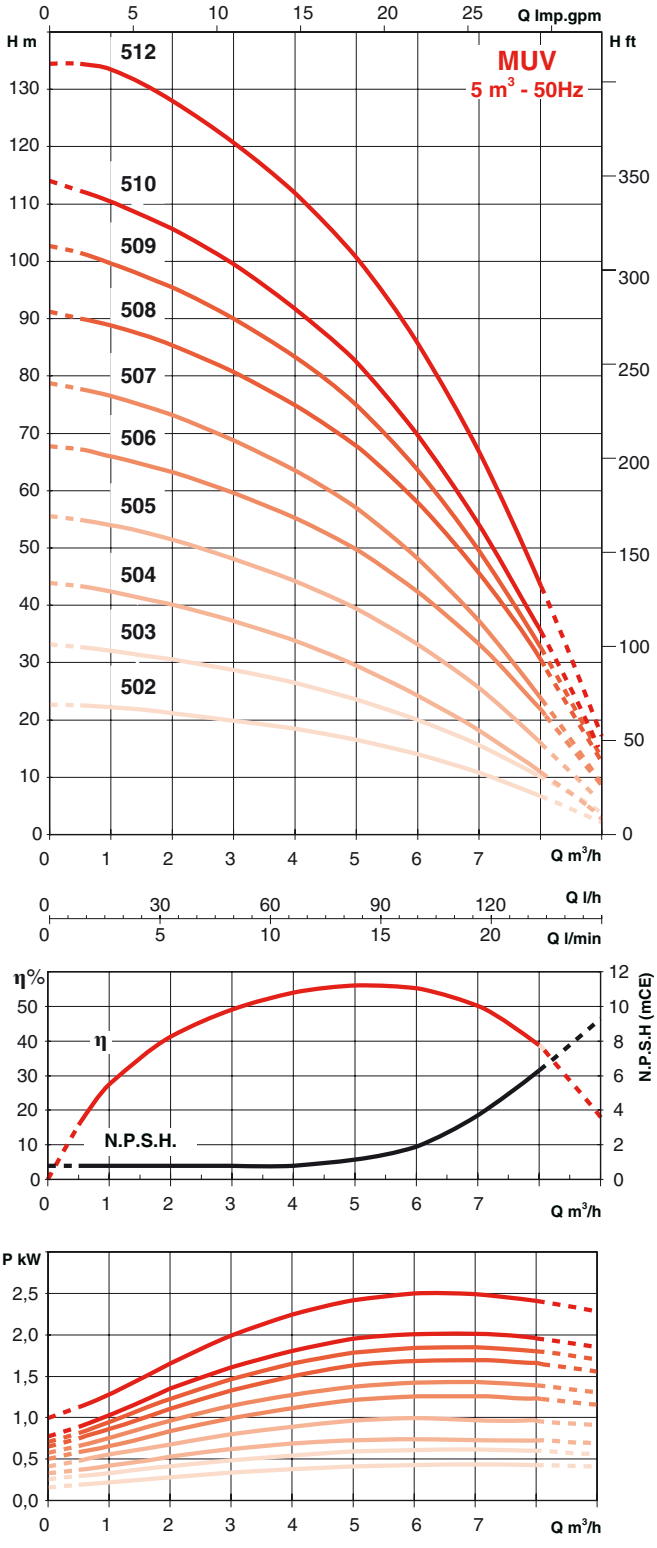


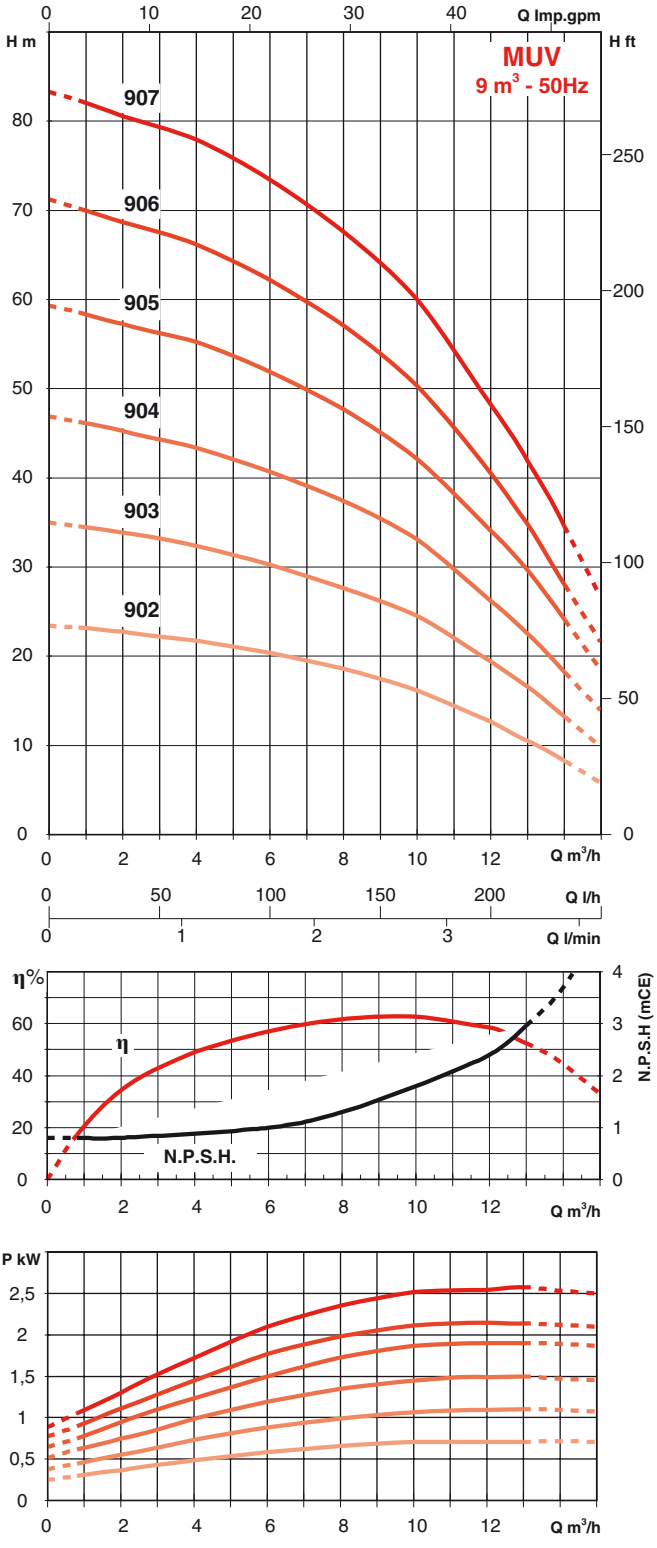






HYDRAULIC PERFORMANCES

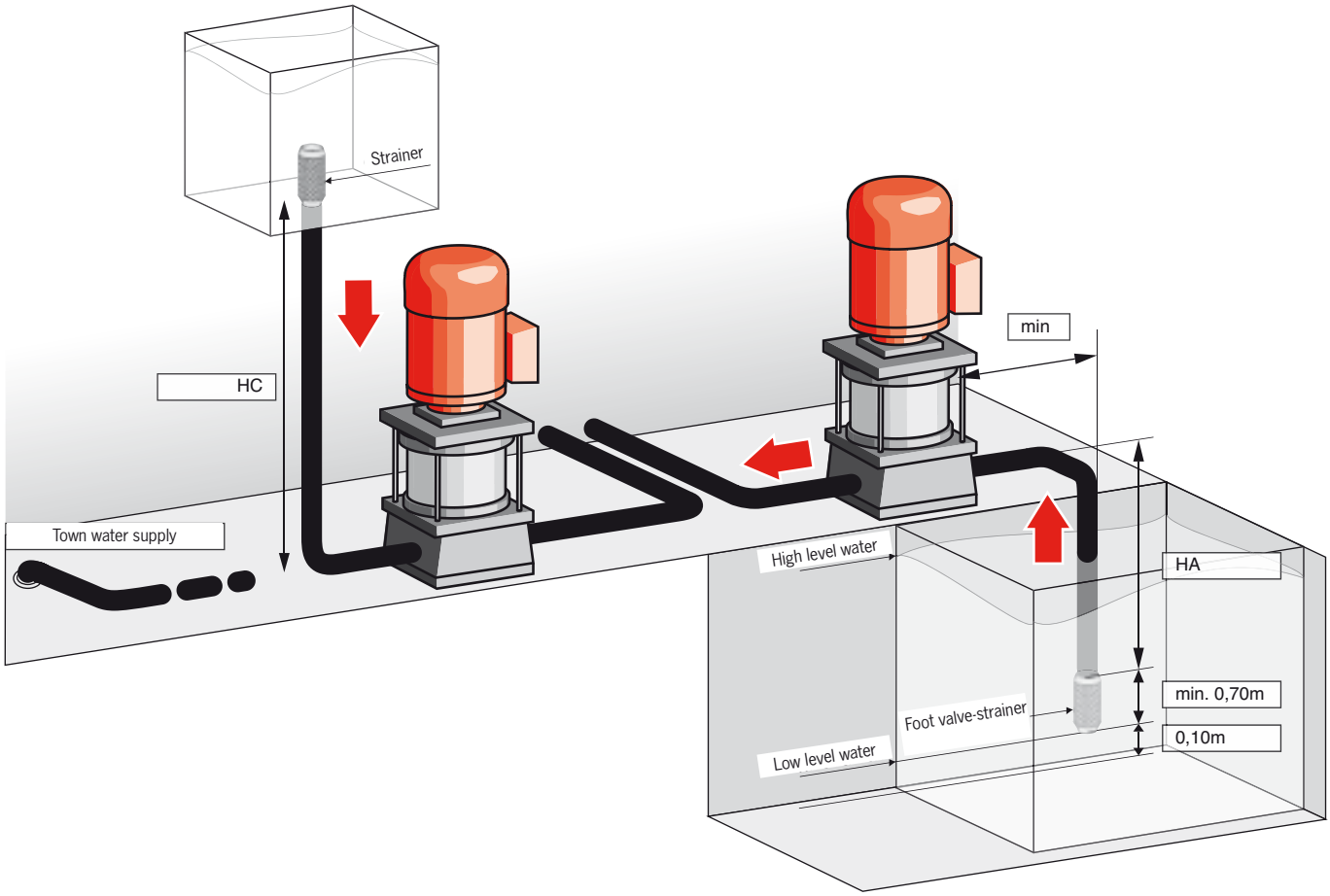




MUV

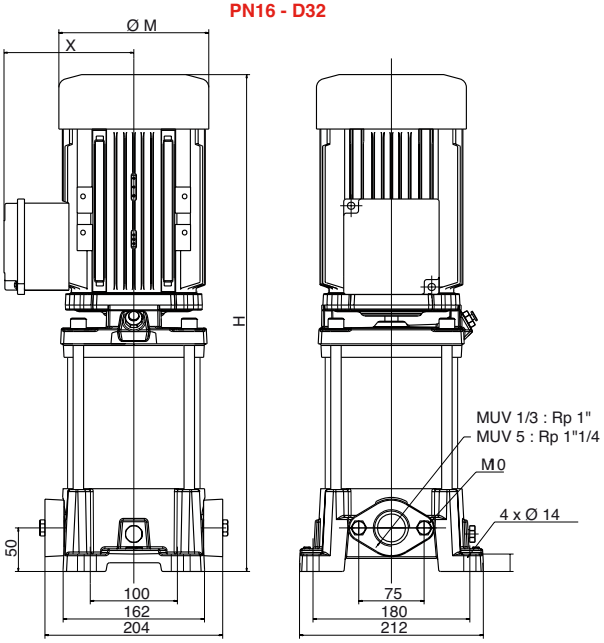
INSTALLATION DIAGRAM

- Pump under pressure from storage tank or town water supply (with dry up protection system)
- Pump in suction

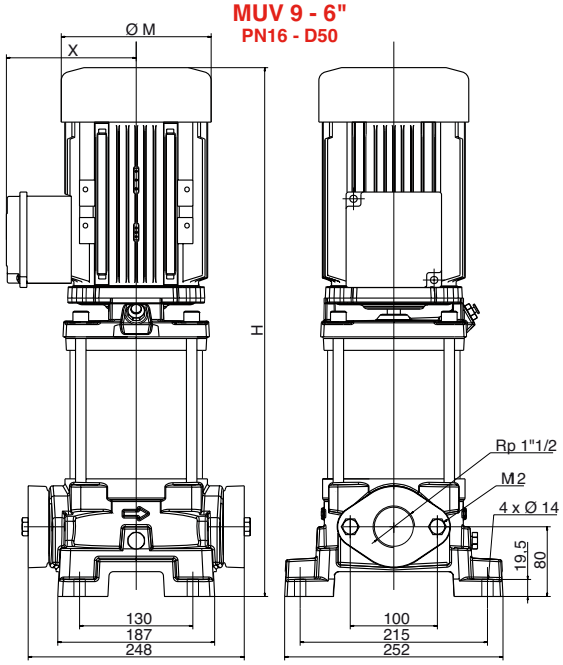


ELECTRICAL DATA AND DIMENSIONS

MUV 1/3/5 - 6"
PN16 - D32



MUV 9 - 6"
PN16 - D50



TYPE	P2	1x 230	3x230	3x400	Pmax	H	M	X	Weight	µF	DN
	kW	A	A	A		mm	mm	mm	kg	(1-phase)	
MUV102	0,37	4	1,7	1	10	418	121	110	17,5	15	32
MUV103	0,37	4	1,7	1	10	418	121	110	17,8	15	32
MUV104	0,37	4	1,7	1	10	418	121	110	18,1	15	32
MUV105	0,55	4	3,1	1,8	10	438	121	110	18,4	15	32
MUV106	0,55	4	3,1	1,8	16	458	121	110	18,7	15	32
MUV107	0,75	4,7	3,1	1,8	16	485	136	118	21,9	20	32
MUV108	0,75	4,7	3,1	1,8	16	525	136	118	22,2	20	32
MUV109	1,1	7,5	4,2	2,4	16	525	136	118	22,5	25	32
MUV110	1,1	7,5	4,2	2,4	16	545	136	118	22,8	25	32
MUV112	1,1	7,5	4,2	2,4	16	585	136	118	23,3	25	32
MUV302	0,37	4	1,7	1	10	410	121	110	17,6	15	32
MUV303	0,55	4	3,1	1,8	10	410	121	110	17,9	15	32
MUV304	0,75	4,7	3,1	1,8	10	441	136	118	21,3	20	32
MUV305	0,75	4,7	3,1	1,8	16	465	136	118	21,7	20	32
MUV306	1,1	7,5	4,2	2,4	16	489	136	118	20,4	25	32
MUV307	1,1	7,5	4,2	2,4	16	513	136	118	22,4	25	32
MUV308	1,5	9,6	5,6	3,3	16	544	156	126	25,7	40	32
MUV309	1,5	9,6	5,6	3,3	16	592	156	126	26,1	40	32
MUV310	1,5	9,6	5,6	3,3	16	592	156	126	26,5	40	32
MUV312	1,85		7	4,1	16	640	156	126	27,2		32
MUV502	0,55	4	3,1	1,8	10	410	121	110	17,7	15	32
MUV503	0,75	4,7	3,1	1,8	10	417	136	118	21,1	20	32
MUV504	1,1	7,5	4,2	2,4	10	441	136	118	21,5	25	32
MUV505	1,1	7,5	4,2	2,4	16	465	136	118	21,8	25	32
MUV506	1,5	9,6	5,6	3,3	16	496	156	126	25,2	40	32
MUV507	1,5	9,6	5,6	3,3	16	520	156	126	25,6	40	32
MUV508	1,85		7	4,1	16	544	156	126	26,0		32
MUV509	1,85		7	4,1	16	592	156	126	26,3		32
MUV510	2,5		10	5,85	16	639	193	148	28,3		32
MUV512	2,5		10	5,85	16	687	193	148	29,0		32
MUV902	0,75	4,7	3,1	1,8	10	463	136	118	23,5	20	50
MUV903	1,1	7,5	4,2	2,4	10	463	136	118	23,9	25	50
MUV904	1,5	9,6	5,6	3,3	10	500	156	126	27,3	40	50
MUV905	1,85		7	4,1	16	530	156	126	27,8		50
MUV906	2,5		10	5,85	16	607	193	148	29,8		50
MUV907	2,5		10	5,85	16	637	193	148	30,2		50

MUV

ACCESSORIES

• ACSON : on-off control and dry-running protection device.

• Discontactor for TRI motor protection

• Foot valve strainer

• Check valve

• Isolation valve

• Anti-vibration sleeves

• Anti-vibration sleeves

• Bladder tank

• Water hammer tank

FEATURES

a) Electrical

- "T" Type: TRI 230-400 V - 50 Hz
- "M" Type: MONO 230 V - 50 Hz with built-in condenser in terminal box.
- Motor protection with discontactor indispensible for a three phase motor.
- Connection to terminal motor using a cartridge-seal.

b) Installation

- In a cluster fixed using bolts.
- Installation pump in suction with obligatory foot valve strainer, or pump under pressure from storage tank or town water supply with dry-running protection system.
- Connection to the pump using flexible or rigid piping

c) Packaging

Pump delivered in cardboard packaging, without
connection accessories.

OPTIONS AND ACCESSORIES

- Isolation valves
- Check valves
- Foot valve strainers
- Anti-vibration sleeves
- Suction Kit
- Bladder or galvanised tanks
- Anti-water hammer tanks
- ME dry-running protection kit
- ACSON : on-off control and dry-running protection device
- Discontacter for TRI motor protection…

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