

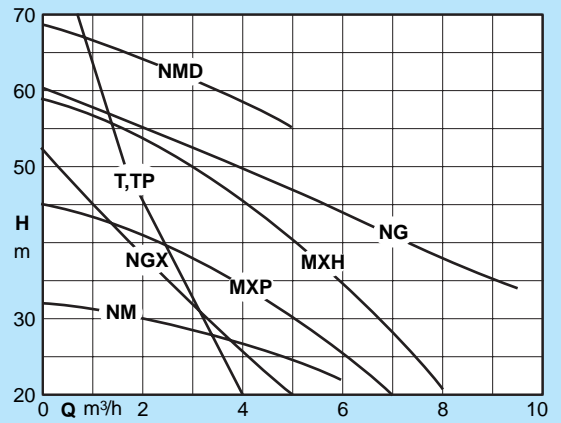
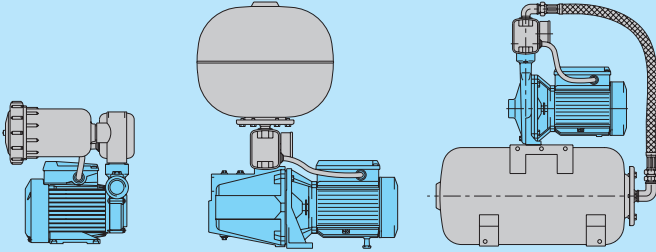
INTEROBIZ

www.interobiz.ro

PRESSURE BOOSTING PLANTS

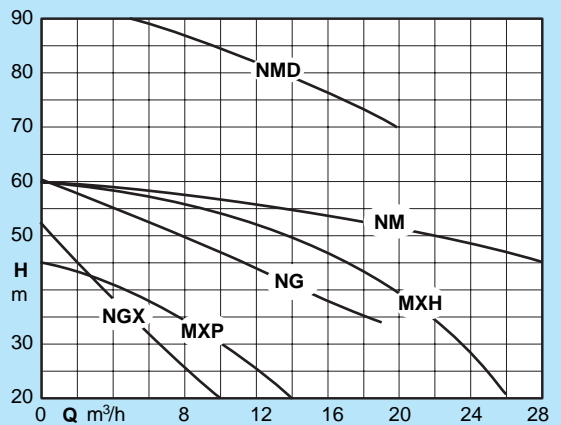
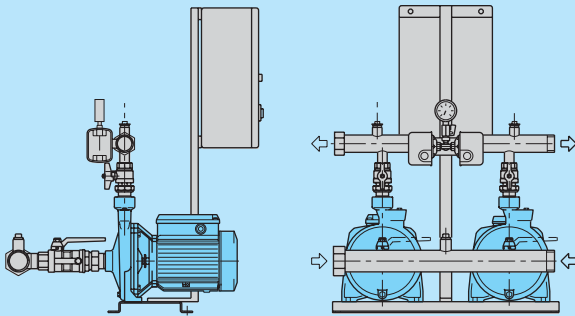
MINIMAT, TURBOMAT CENTRIMAT, GETTOMAT

Small automatic water system with one electric pump



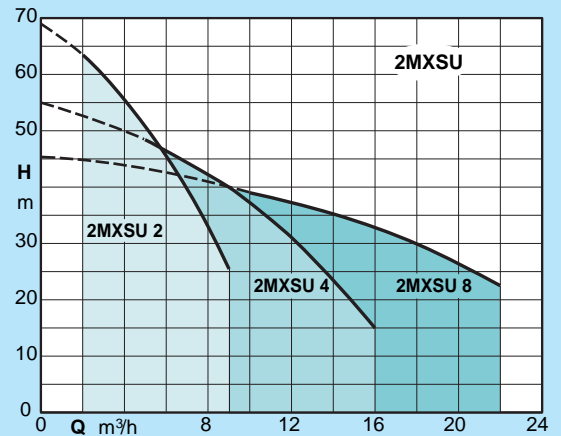
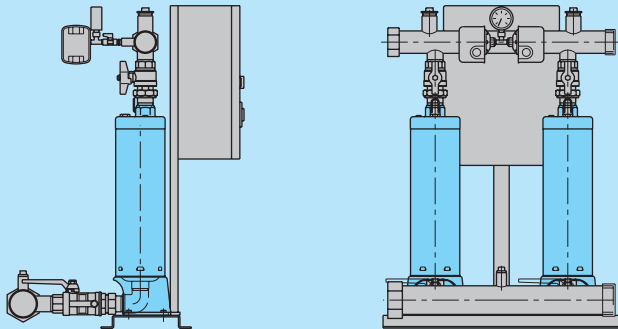
2MXH, 2MXP, 2NM, 2NMD, 2NG, 2NGX

Small pressure boosting plants for domestic use with two electric pumps



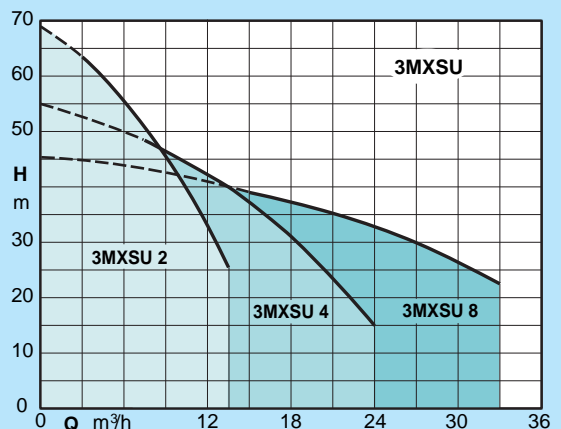
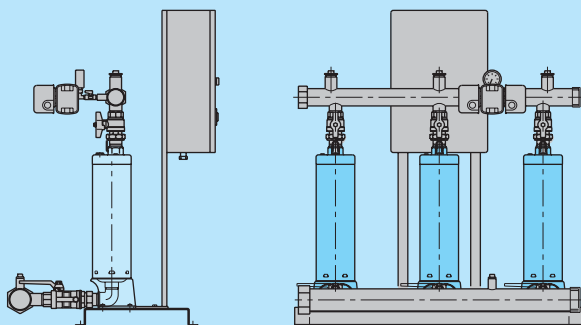
2MXSU

Pressure boosting plants for domestic use with two MXSU
Fixed speed or Variable speed with frequency converter



3MXSU

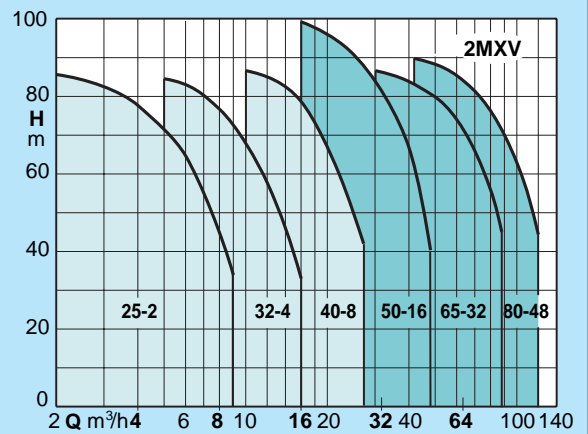
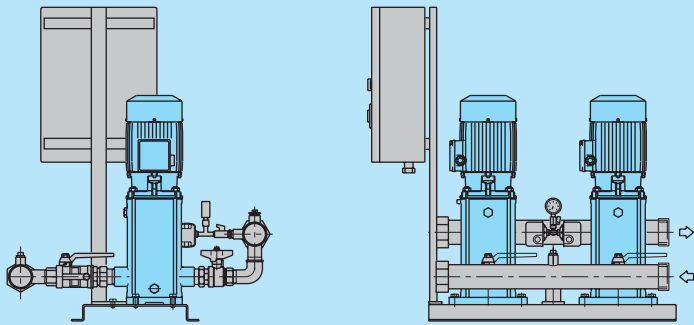
Pressure boosting plants for domestic use with three MXSU
Fixed speed or Variable speed with frequency converter



PRESSURE BOOSTING PLANTS

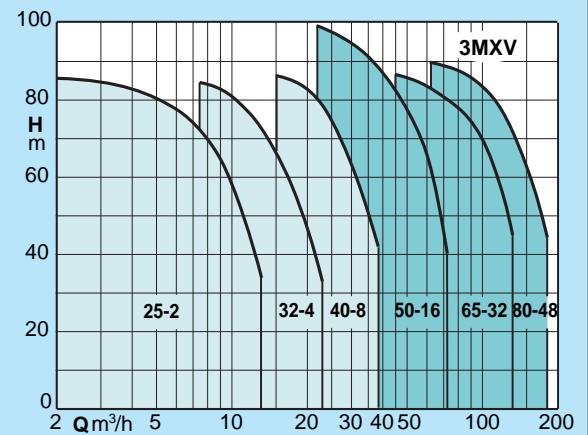
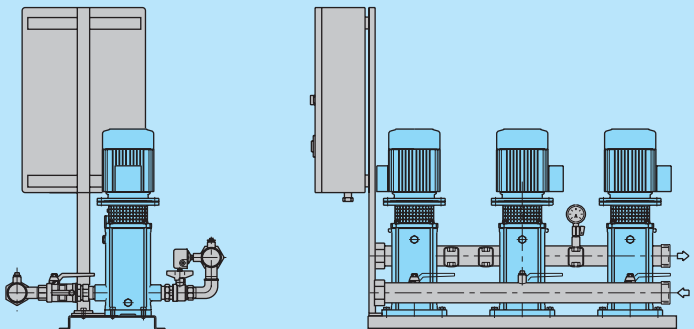
2MXV-B, 2MXV

Pressure boosting plants for civil use with two MXV-B, MXV
 Fixed speed or Variable speed with frequency converter



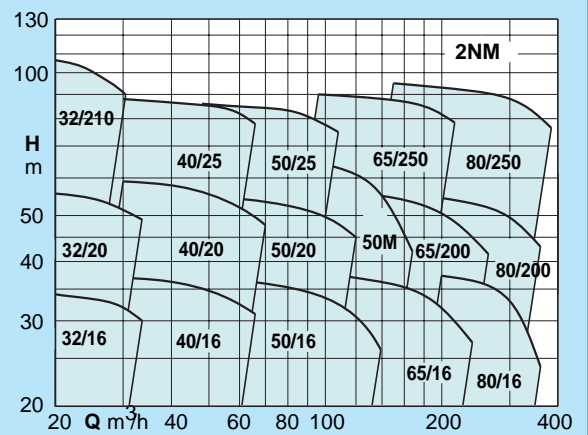
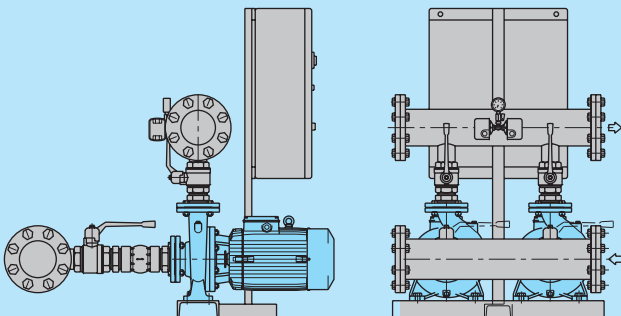
3MXV-B, 3MXV

Pressure boosting plants for civil use with three MXV-B, MXV
 Fixed speed or Variable speed with frequency converter



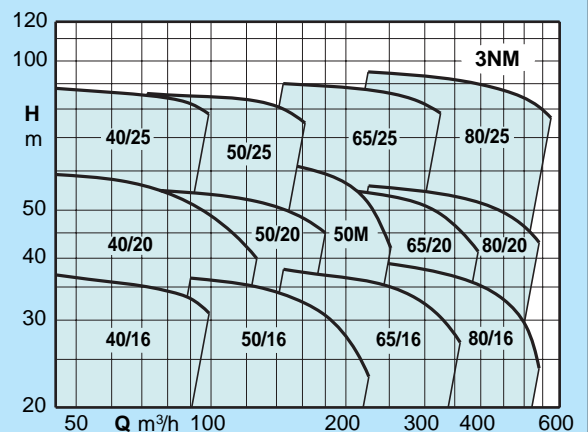
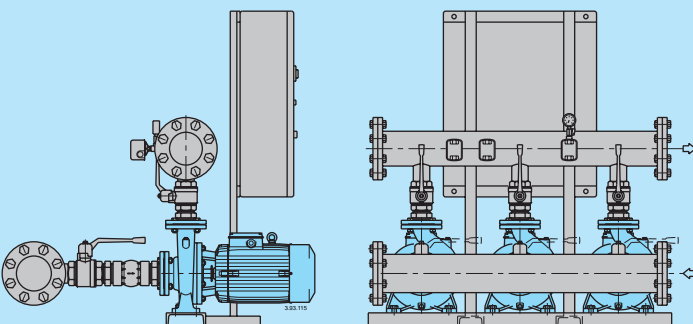
2NM, 2NMD

Pressure boosting plants for civil use with two NM, NMD
 Fixed speed or Variable speed with frequency converter



3NM

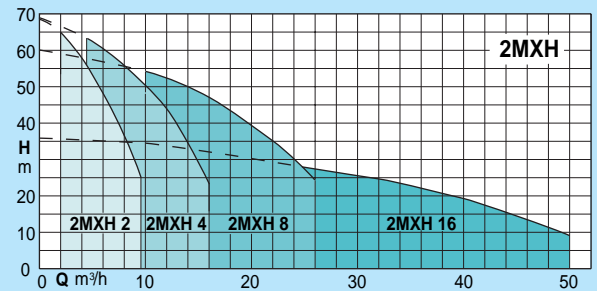
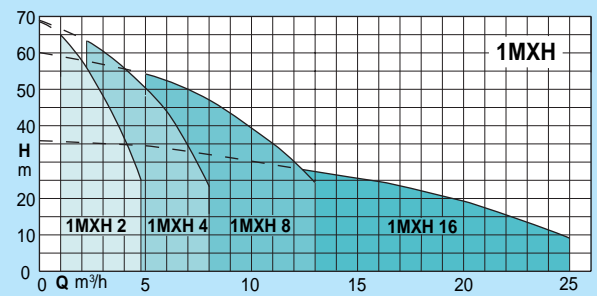
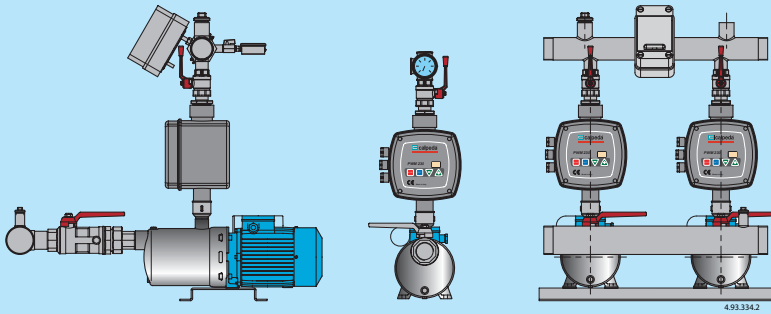
Pressure boosting plants for civil use with three NM
 Fixed speed or Variable speed with frequency converter



PRESSURE BOOSTING PLANTS

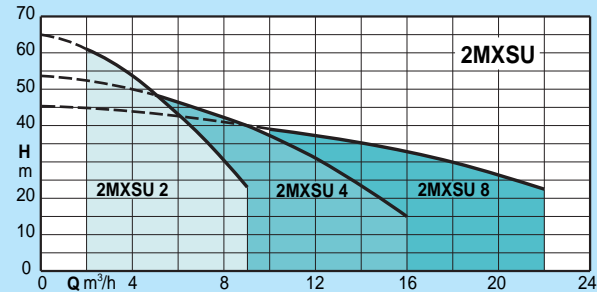
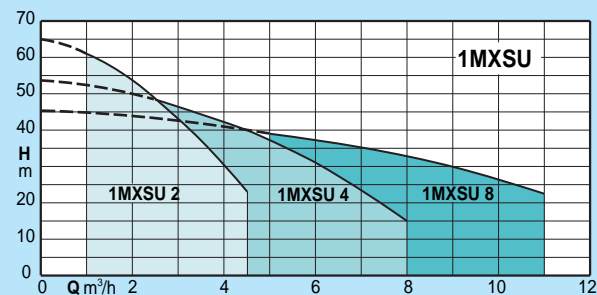
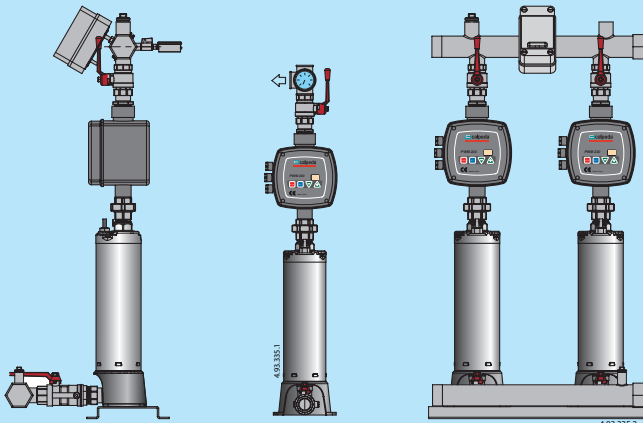
1MXH, 2MXH

Constant pressure boosting plants with one or two pumps
with VARIOMAT frequency converter



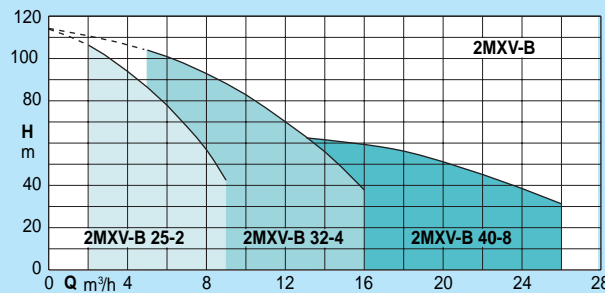
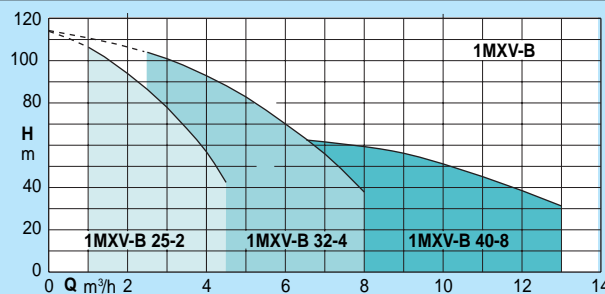
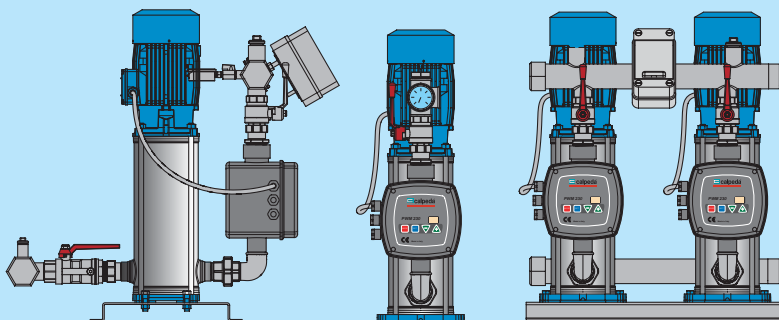
1MXSU, 2MXSU

Constant pressure boosting plants with one or two pumps
with VARIOMAT frequency converter



1MXV-B, 2MXV-B

Constant pressure boosting plants with one or two pumps
with VARIOMAT frequency converter



PRESSURE BOOSTING PLANTS

Fixed speed pump units

New electrical control panels for fixed speed pump units.

New electrical control panels for pressurisation units, all with electronic card with microprocessors, for managing pump operation.

The **microprocessor** carries out continuous secure checks during all the various work phases of the pumps and incorporates all necessary functions, thus reducing electrical and electronic components inside the panel.

In particular:

- pumps starting in a cascade sequence according to water demand.
- changeover of pump starting sequence.
- pumps stop when there is no water in the suction.
- delay start-up of the 2nd/3rd pump in case of breakdown of pressure switch 1 or after a power cut.
- avoid pump starting in case of water hammering.
- activate the alarm when pressure 1 fails.
- activate the alarm when air cushion in the vessel drops.
- stop the pump when air cushion is over*.

* Patent pending

Maximum clarity for all signals

The status of the unit can easily be identified on the front of the electronic card with the following signals:

- Power on led.
- No water led.
- Failure led.
- Pump running led (1 for each pump).
- Thermal block led (1 for each pump).
- Pump automatic operation led (1 for each pump).
- Pump stop led (1 for each pump).

Maximum simplicity of control

The front of electronic card features the following signals and controls:

- AUT-STOP push-button (1 for each pump)
- MAN push-button (1 for each pump)
- RESET push-button.

Optional remote control

The new panels have been designed to remotely reproduce all the electronic card signals (excluding the buttons), using RC 100 - RC 200 - RC 300 panels, connected with a simple two-pole cable.

The RA 100 panel enables a remote warning light and acoustic signal.

Control panel for units up to 6 pumps

Using the MPS 6000 (Multi Pumps System) electronic card it is possible to control pressure units up to a maximum of 6 fixed speed pumps with a single pressure calibration.

Automatic air supply systems

The pump control panels are completed by microprocessor controlled systems for automatic air supply in the pressure vessels by means of a compressor or solenoid valve.

Operation

Depending on the reduction of the pressure in the system, the pressure switches determine the starting up of the pumps in sequence and the microprocessor alternates the starts.



PRESSURE BOOSTING PLANTS

Variable speed pump units with frequency converter

New electrical control panels for variable speed pump units.

New electrical control panels for pressurisation units with variable speed pumps.

These are indispensable in all those cases where constant pressure is required and when high pressure pumps are being controlled. All the various working phases are managed and controlled by the MPS 6000 (Multi Pumps System) electronic card with microprocessor, which can operate up to 6 pumps working simultaneously.

Maximum clarity of signals

All the various calibration parameters appear as messages on the display of the MPS 6000 electronic card.

If there are any faults or defects a message appears on the display giving details of the problem.

Possibility of remote control

The pump status can be displayed and the unit can be controlled by means of a special computer program.

It is possible to obtain a remote warning light and acoustic signal on the RA 100 panel.

Constant or increased pressure

All the pumps can work with the same pressure value (set point), or, for systems with high head losses, the pressure can be increased depending on the number of pumps operating.

Silent operation

Motors working at reduced speed and check valves that close gradually mean that operation is particularly quiet.

Long life for pumps

All the mechanical components of the pumps and motors are stressed to a minimum, due to the variable speed operation.

Energy savings

The motors consume only the precise level of power necessary moment to moment, in order to supply the quantity of water required by the system.

No more high capacity vessels

The use of inverters means that high capacity pressure vessels and membrane vessels are no longer necessary. Even units with high flowrate pumps only require a small number of 20 litre membrane vessels.

Great versatility

The great versatility of the MPS 6000 electronic card enables the construction of special units with operational logics different from those of normal pressurisation units, depending on the requirements and characteristics of the systems.

Operation

Depending on water consumption, one or more pumps are activated, all at variable speed, in order to guarantee the quantity of water required at the set pressure.

