

# Save yourself everything but the pleasure

**Tecnoplus:** maximum comfort  
in pressure at a minimum cost



 **ESPA**  
*Innovative Water Solutions*

# Tecnoplus: the savings you've been...



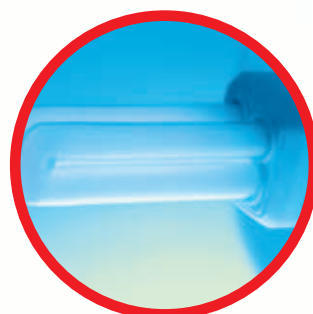
## ❖ Savings in water pressure fluctuations

Tecnoplus eliminates those annoying falls in pressure that occur when two taps are turned on at the same time.



## ❖ Savings in complications

Tecnoplus is easy to install, and requires no maintenance.



## ❖ Savings in electricity

Tecnoplus reduces energy-consumption thanks to its electronic variable speed driver.

# ...looking for the comfort you need.

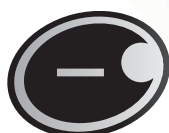
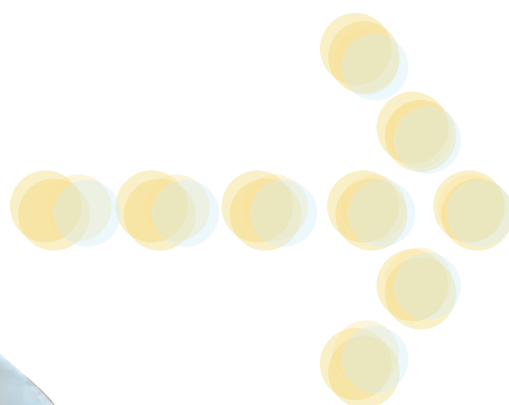


## ❖ You want **comfort***plus*

Tecnoplus guarantees constant, simultaneous pressure throughout the whole home.

## ❖ You want **economy***plus*

Tecnoplus offers you triple savings: savings in cost, maintenance and electricity consumption.



## ❖ You want **functionality***plus*

Tecnoplus is small, silent, easy to install and regulate: the pressure can be increased or reduced at the touch of just two buttons.



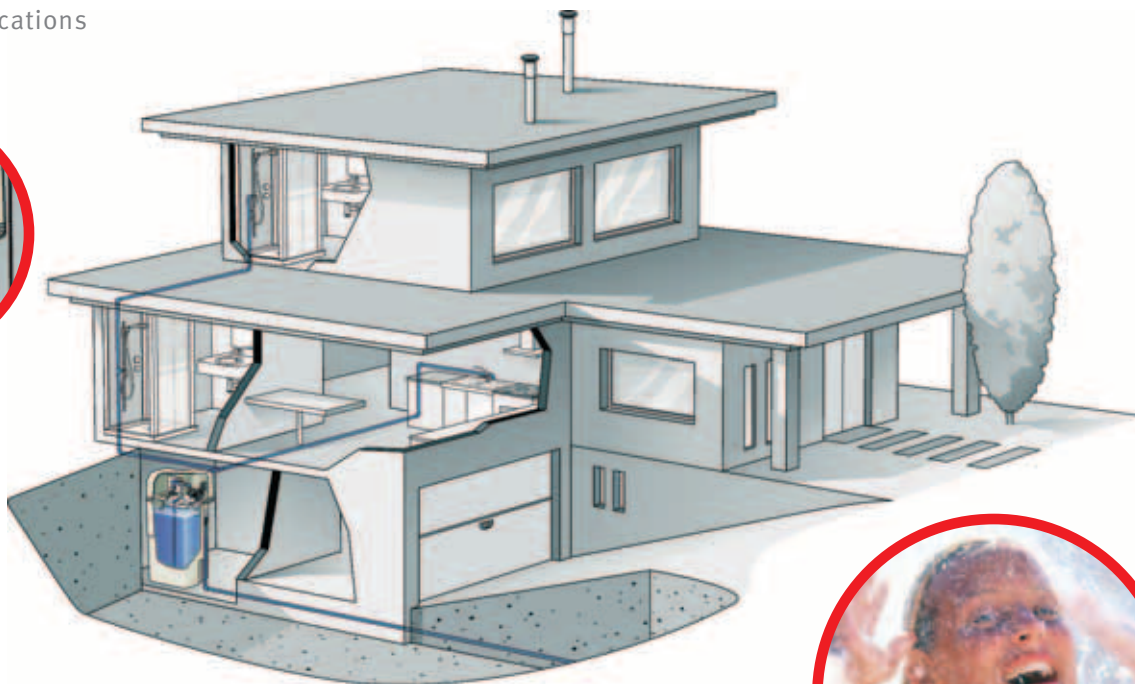
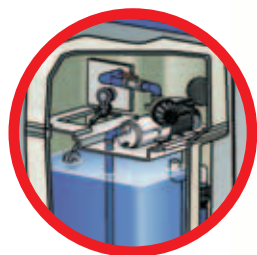
# Simplicity. Efficiency. Savings. With TecnoPlus

...❖ **TecnoPlus** is a new range of household pumps for the latest generation of consumers: all those who are looking for comfort, functionality and excellent performance. Thanks to its advanced variable speed technology, **TecnoPlus** ensures fixed, constant water pressure throughout the whole home, with no fluctuations, even with two taps turned on at the same time.

...❖ **TecnoPlus** is eco-efficient: it reduces electricity consumption. **TecnoPlus** is small, compact and has an all-in-one design. It is easy to install and requires no maintenance, silent and extremely easy to regulate: the nearest thing to a small household appliance.

...❖ **TecnoPlus** offers you excellent performance, professional performance in the home. **TecnoPlus**, the most advanced option in household water pressure appliances, with ESPA guarantee of reliability.





## Constant pressure under simultaneous demand

ESPA's variable speed technology offers a twofold advantage: on the one hand it guarantees constant, even water pressure throughout the entire home, preventing the pressure from falling even when two or more taps are used at the same time; and on the other, it reduces electricity consumption by minimising the continuous starting and stopping of conventional pressure units. This makes **Tecnoplus** an advanced eco-efficient system, which is ideal for use in new eco-friendly sustainable construction trends.

Tecnoplus → Savings

## Ensures up to 40% savings in energy for sustainable homes

**Tecnoplus** reduces electricity consumption by almost 40%, as compared to traditional pressure pumps, and is compatible with the parameters set by the new Technical Construction Code. These savings, multiplied by thousands of users and homes, make a great contribution to creating a more sustainable society and ensuring a planet with improved environmental balance.

### Example of energy savings

With pump operating at a delivery pressure of 2 bars

| Flow     | Traditional pump consumption | Tecnoplus consumption | Tecnoplus savings | Saving over a 6-month period |
|----------|------------------------------|-----------------------|-------------------|------------------------------|
| 500 l/h  | 650 W                        | 400 W                 | 38 %              | 1095 kW                      |
| 1000 l/h | 700 W                        | 460 W                 | 34 %              | 1050 kW                      |
| 1500 l/h | 720 W                        | 520 W                 | 28 %              | 876 kW                       |
| 2000 l/h | 755 W                        | 600 W                 | 20 %              | 657 kW                       |



# Plug & Pump

**Tecnoplus** eliminates all the complications involved in installing a traditional pressure set.

Its “All-in-One-design” integrates all the components (pump, hydraulic sensors and variable speed driver) in one small product, which requires no consumables and no exterior pressure gauge or external parts that are subject to wear and tear.

All this means the appliance is easy and quick to install, and can immediately be put into operation (“Plug & Pump”) with zero maintenance requirements.

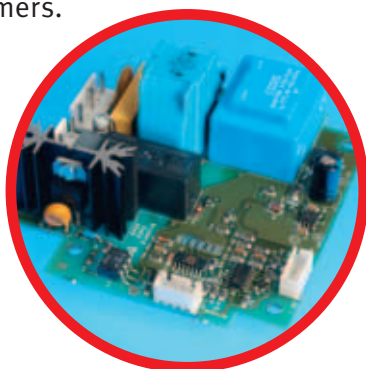
The reduced weight and size of Tecnoplus and its all-in-one design make it easy to handle, saving installation time and space.



# Efficient ESPA Engineering

**Tecnoplus** is the result of the strictest research performed by ESPA's R+D department. ESPA's *efficient engineering* concept (innovative products that are simple to use and based on an all-in-one, robust, energy-effective design) is perfectly evident in this new generation of household pumps.

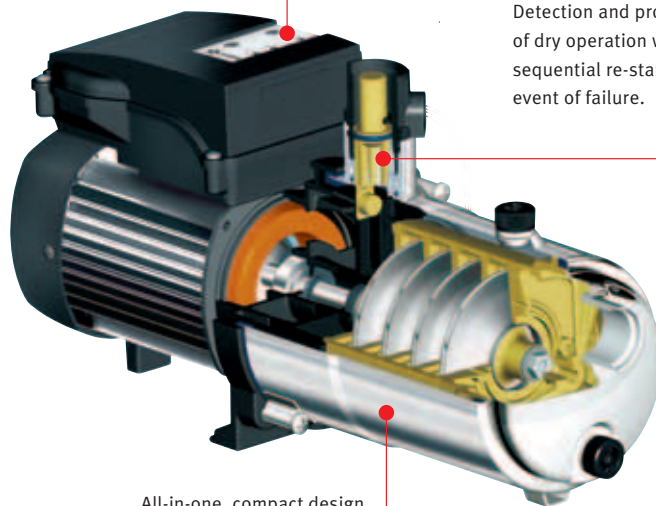
**Tecnoplus** is powerful, reliable, safe, and offers industrial technology and reliability for individual customers.



ESPA Speed Driver, a simple, electronic all-in-one device.

Electronics (ESD) regulating the motor rotating speed for maintaining the pressure constant.

Detection and protection of dry operation with sequential re-start in the event of failure.



All-in-one, compact design with no external elements.

## Tecnoplus Data sheet

### Description

A horizontal, multiphase, centrifugal pump with ESD (*ESPA Speed Driver*) electronic regulation for changing speed and built-in pressure sensor. It contains a device for detecting and protecting against dry operation, with sequential re-starts in the case of failure. Hydraulic ram shock absorption provided in the installation. No maintenance required.

### Applications

Pressurising of domestic water for houses, semi-detached homes, apartments, chalets and rural homes...

### Electronics

ESPA advanced *Speed Driver* technology, enabling variable-speed operation, with automatic self-regulation that maintains a constant pressure required at all times in the home, thanks to its pressure sensor.

### Materials

Pump body and impellers in stainless steel AISI 304.  
Diffusors in thermoplastic.  
Mechanical seal in graphite and ceramic O'rings in NBR.

### Motor

Asynchronous two poles. IP55 protection. Insulation class F. Built in with thermal protector inside the windings. Continuous operation. With two meter cable H07 RNF 3 x 1 mm<sup>2</sup> and Schuko plug. Display whit push button to increase or decrease the working pressure (150 kPa - 350 kPa).

### Maximum operating pressure

6 bar

### Inlet charge

maximum 0,5 bars lower than the adjusted starting pressure of the set.

### Water temperature

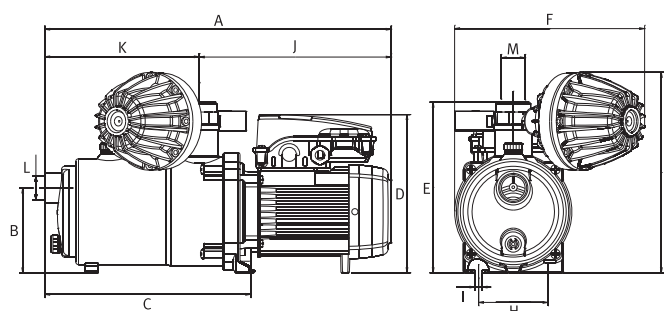
between 4° C and 35° C

### Room temperature

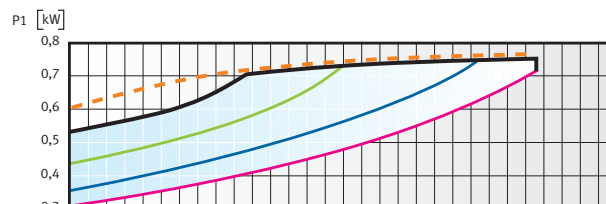
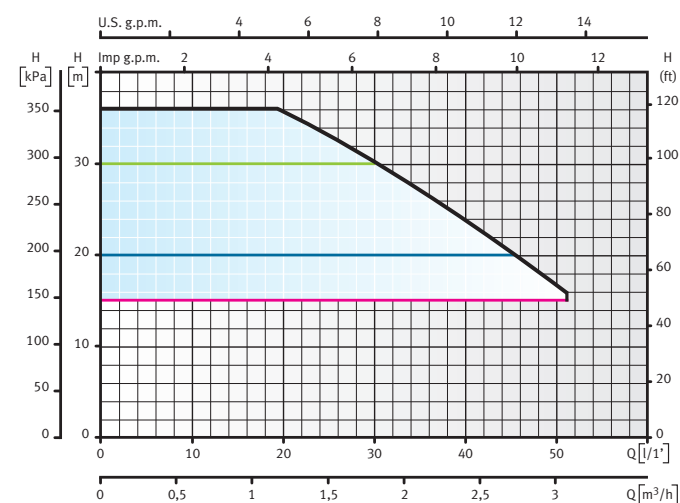
between -10° C and 50° C

### Motor characteristics

230 V / 50 Hz



| A   | B   | C   | D   | E   | F   | G     | H  | I | J   | K   | L   | M   | Kg.  |
|-----|-----|-----|-----|-----|-----|-------|----|---|-----|-----|-----|-----|------|
| 439 | 108 | 261 | 200 | 216 | 241 | 253,8 | 88 | 9 | 243 | 196 | G1" | G1" | 10,5 |



- The pump can operate at any point inside the indicated area. The characteristic curves depend on the delivery pressure.
- By way of example, the curves are shown for delivery pressures of 150, 200 and 300 kPa.
- The operating limit curve corresponds to the maximum rotating speed.

### Electrical characteristics

| A        |       |          | P1 (kW) |    | kW   | HP   | μF |
|----------|-------|----------|---------|----|------|------|----|
| 1~ 230 V | 230 V | 3~ 400 V | 1~      | 3~ |      |      |    |
| 3.6      | —     | —        | 0.75    | —  | 0.55 | 0.75 | 12 |

Pump body made entirely of stainless steel



Delivery or operating pressure can be easily regulated by the user, with the use of a simple keypad (+ -) and a LED indicator lamp.



View of the *Pres Air* kit and pressure gauge.



COLLECTING  
MAKING POTABLE  
PRESSURISING  
RECIRCULATING  
REUSING  
EVACUATING  
CLEANING

ESPA GROUP supporting you  
with all the technology,  
products and service you need.