Archimede®
PUMP - INVERTER

Archimede is a new revolutionary concept of Pump Inverter for single-phase or three-phase asynchronous moto pump.
This Inverter is suitable for all types of pumps because the operation of Archimede does not depend on the water flow, but its due to a perfect pump control thanks to the automatic measurement of the working curve of the pump, during the initial self-regulation check, and thanks to an accurate pressure control feedback measured by a stainless steel IP67 pressure transducer. This advanced system guarantees a substantial energy saving, up to 40% on respect to the standard on-off traditional systems, especially in conditions of medium flow, the most common use of the pump, as well as various security functions that are not possible in traditional applications. Archimede replaces all traditional systems such as pressure switch or flow switch and big tank are not longer necessary. Soft starts and stops in ramp, guarantee a low current absorption, a long-lasting of the mechanical and electric parts of the pumps, silent working and an absence of water hammer.
Archimede is available also on the Blue Connect version for the automatic wireless radio connection in group between two or more Pump Inverters, up to 15 meters maximum distance. Such an advanced system makes it possible to control the pressure on booster sets pumps with the maximum simplicity of installation and use. It's also possible to set two or more Blue Connect Archimede inverters working separately in the same room, only by setting a specific parameter.

MAIN FEATURES:

- Minimum flow protection
- Dry working protection
- Over-voltage Inverter protection
- Over-current Motor protection
- Maximum Motor speed setting till +/-10% than rated value
- Vertical wall fixing with four holes 7 mm diameter
- Quick motor connection
- Quick voltage supply connection with electrical plug
- Stainless steel Pressure transducer IP67 – ¼" GAS cable with M8 connector
- Rugged frame, with high protection grade
- Blue Connect series with automatic wireless radio connection

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AVAILABLE VERSIONS

IMMP1.1W	Single-Phase Input 230V, for Single-Phase Pump 230V-50Hz, 1.1kW (1.5Hp), 9 Ampere, 10 Bar, IP65
ITTP1.5W-BC	Three-Phase Input 400V, for Three-Phase Pump 3x400V-50Hz, 1.5kW (2Hp), 4 Ampere, 10 Bar, BlueConnect wireless communication System, IP65
IMMP1.5W	Single-Phase Input 230V, for Three-Phase Pump 230V-50Hz, 1.5kW (2Hp), 11 Ampere, 10 Bar, servo-ventilation, IP55
IMTP1.5W	Single-Phase Input 230V, for Three-Phase Pump 3x230V-50Hz, 1.5kW (2Hp), 7 Ampere, 10 Bar, servo-ventilation, IP55
IMMP1.5W-BC	Single-Phase Input 230V, for Single-Phase Pump 230V-50Hz, 1.5kW (2Hp), 11 Ampere, 10 Bar, BlueConnect wireless communication System, servo-ventilation, IP55
IMTP1.5W-BC	Single-Phase Input 230V, for Three-Phase Pump 3x230V-50Hz, 1.5kW (2Hp), 7 Ampere, 10 Bar, BlueConnect wireless communication System, servo-ventilation, IP55
IMMP1.1W-BC	Single-Phase Input 1x(100-244)V, for Single-Phase Pump 1x(100-244)V, 50/60Hz, 1.1kW (1.5Hp), 9 Ampere, 16 Bar, Display LCD 16x2, servo-ventilation, BlueConnect wireless communication System
IMMP1.8W-BC	Single-Phase Input 1x(100-244)V, for Single-Phase Pump 1x(100-244)V, 50/60Hz, 1.8kW (2.5Hp), 13 Ampere, 16 Bar, Display LCD 16x2, servo-ventilation, BlueConnect wireless communication System, IP55
IMTP2.2W-BC	Single-Phase Input 1x(100-244)V, for Three-Phase Pump 3x(100-244)V, 50/60Hz, 2.2KW (3Hp), 9.5 Ampere, 16 Bar, Display LCD 16x2, servo-ventilation, BlueConnect wireless communication System, IP55
ITTP2.2W-BC	Three-Phase Input 3x(200-440)V, for Three-Phase Pump 3x(200-440)V, 50/60Hz, 2.2KW (3Hp), 5.5 Ampere, 16 Bar, Display LCD 16x2, servo-ventilation, BlueConnect wireless communication System, IP55
ITTP3.0W-BC	Three-Phase Input 3x(200-440)V, for Three-Phase Pump 3x(200-440)V, 50/60Hz, 3KW (4Hp), 7.5 Ampere, 16 Bar, Display LCD 16x2, servo-ventilation (internal and external), BlueConnect wireless communication System, IP55

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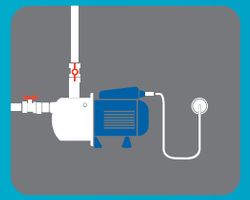
ENG

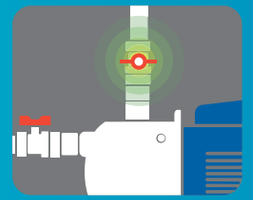
Archimede®
PUMP - INVERTER

SIMPLE PRESSURE CONTROL FOR SINGLE-PHASE AND THREE-PHASE MOTOR PUMPS

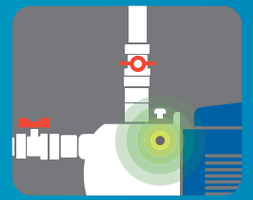
INSTALLATION IN A NEW GENERATION WATERWORKS SYSTEM:



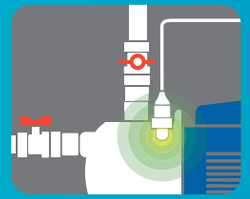
MOTOR PUMP INSTALLED



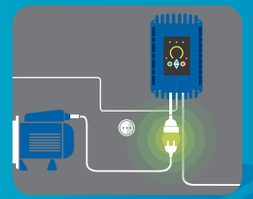
1) CLOSE THE DELIVERY SIDE OF THE PUMP



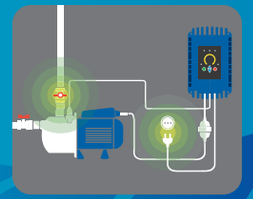
2) REMOVE THE PRIMING PLUG - BE SURE IT'S AT THE DELIVERY PRESSURE



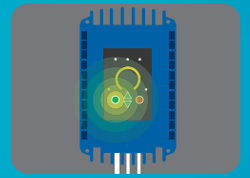
3) CONNECT THE PRESSURE TRANSDUCER TO THE TO THE FILLING HOLE (OR OTHER HOLE ON THE DELIVERY SIDE)



4) CONNECT ARCHIMEDE TO THE ELECTRIC MOTOR PLUG OF THE PUMP



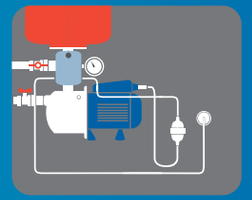
5) CONNECT ARCHIMEDE TO THE VOLTAGE SUPPLY



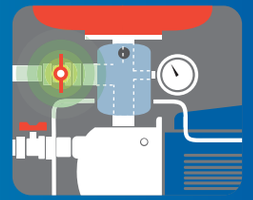
6) PRESS START, WAIT THE END OF THE SELF-REGULATION CHECK, RE-OPEN THE DELIVERY AND WORK NORMALLY

Archimede®
PUMP-INVERTER BlueConnect

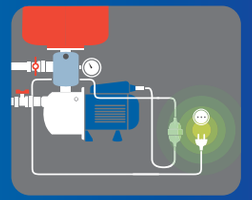
INSTALLATION IN A TRADITIONAL SYSTEM WITH PUMP DRIVEN BY A PRESSURE SWITCH:



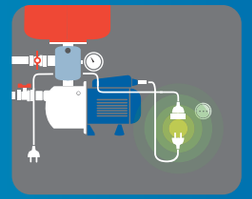
OLD SYSTEM DRIVEN BY PRESSURE SWITCH



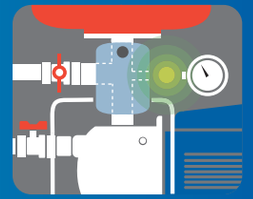
1) CLOSE THE DELIVERY SIDE OF THE SYSTEM



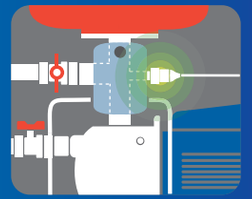
2) DISCONNECT THE ELECTRIC - PLUG OF THE PRESSURE SWITCH



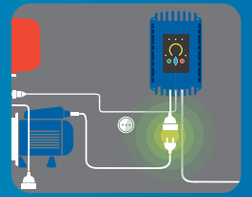
3) DISCONNECT THE MOTOR - PUMP FROM THE PRESSURE SWITCH



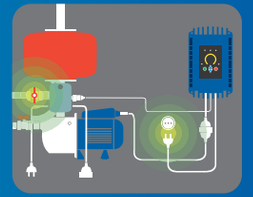
4) UNSCREW THE PRESSURE GAUGE ON THE DELIVERY



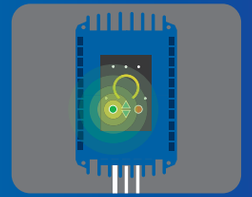
5) CONNECT THE PRESSURE TRANSDUCER ON THE PRESSURE GAUGE HOLE



6) CONNECT ARCHIMEDE TO THE ELECTRIC MOTOR PLUG OF THE PUMP

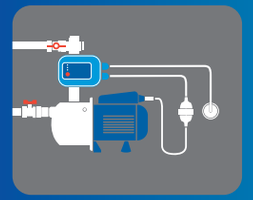


7) CONNECT ARCHIMEDE TO THE VOLTAGE SUPPLY

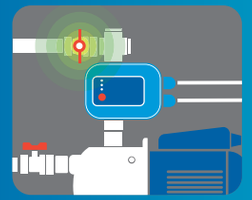


8) PRESS START, WAIT THE END OF THE SELF-REGULATION CHECK, RE-OPEN THE DELIVERY AND WORK NORMALLY

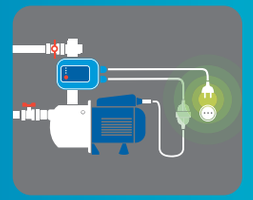
INSTALLATION IN A TRADITIONAL SYSTEM WITH PUMP DRIVEN BY A FLOW SWITCH



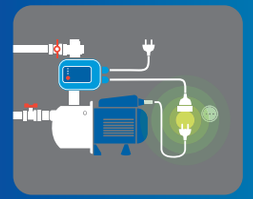
OLD SYSTEM DRIVEN BY FLOW SWITCH



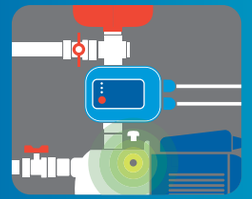
1) CLOSE THE DELIVERY SIDE OF THE SYSTEM



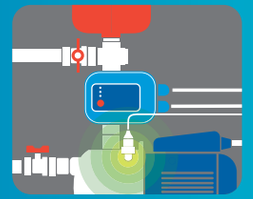
2) DISCONNECT THE SYSTEM FROM THE VOLTAGE SUPPLY



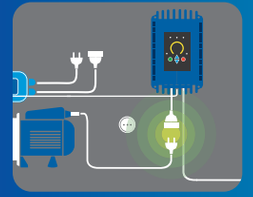
3) DISCONNECT THE MOTOR - PUMP FROM THE FLOW SWITCH PLUG



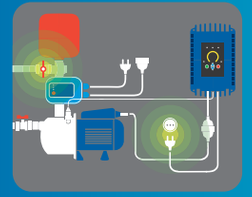
4) REMOVE THE PRIMING PLUG AND ADD A SMALL MEMBRANE TANK ON THE DELIVERY OF THE PUMP



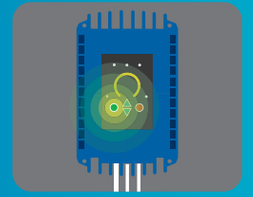
5) CONNECT THE PRESSURE TRANSDUCER TO THE FILLING HOLE (OR OTHER HOLE ON THE DELIVERY SIDE)



6) CONNECT ARCHIMEDE TO THE ELECTRIC MOTOR PLUG OF THE PUMP



7) CONNECT ARCHIMEDE TO THE VOLTAGE SUPPLY



8) PRESS START, WAIT THE END OF THE SELF-REGULATION CHECK, RE-OPEN THE DELIVERY AND WORK NORMALLY