made in Italy

Price List

ELECTROMECHANICAL PANELS

Ed. 02.25

elentek®

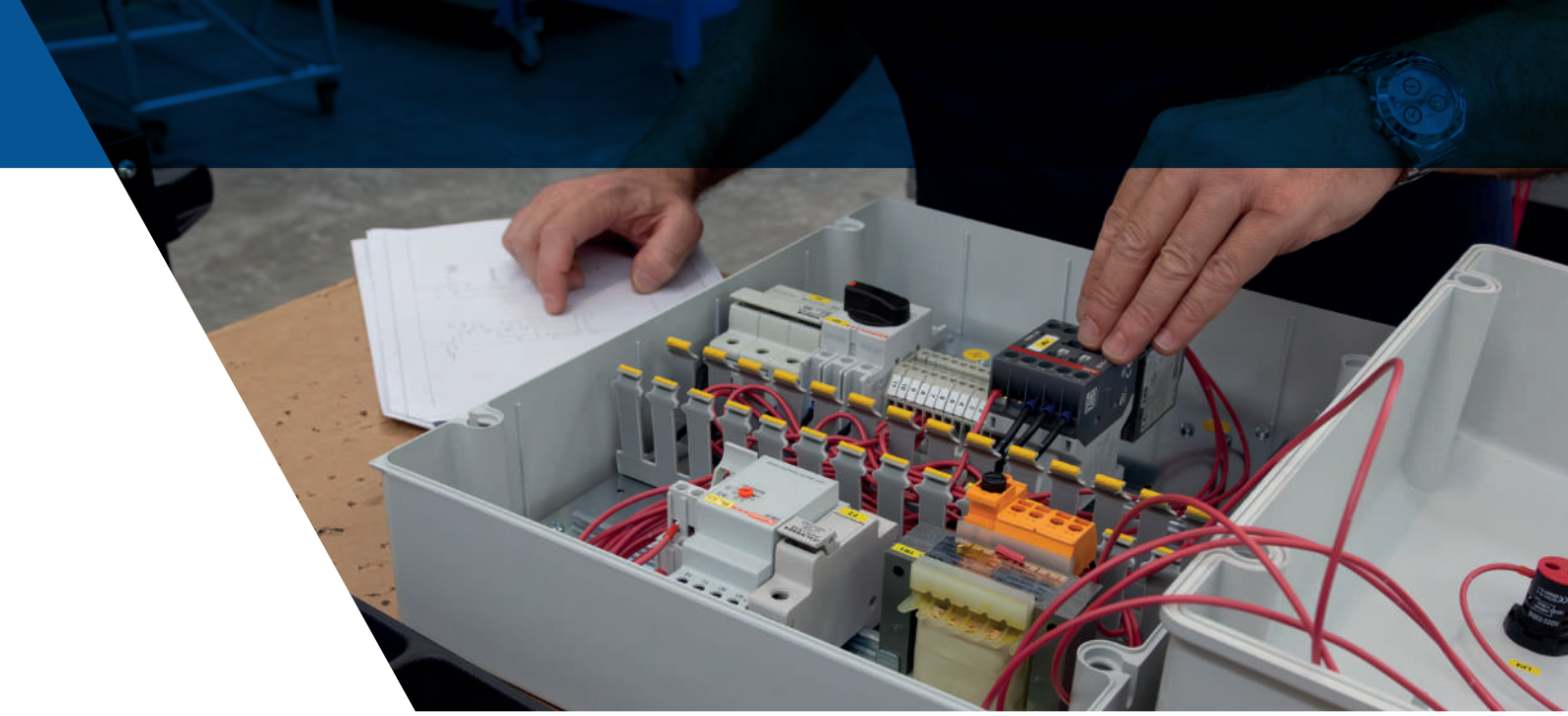
One Step Forward

elentek®

DESIGN & INNOVATION

in energy production and control.

“One step forward” as inspiration, as a guide. “One step forward” that turns into constant innovation, continuous research for excellence and the most advanced components, attention to detail and customization of solutions and projects.



OUR COMPANY

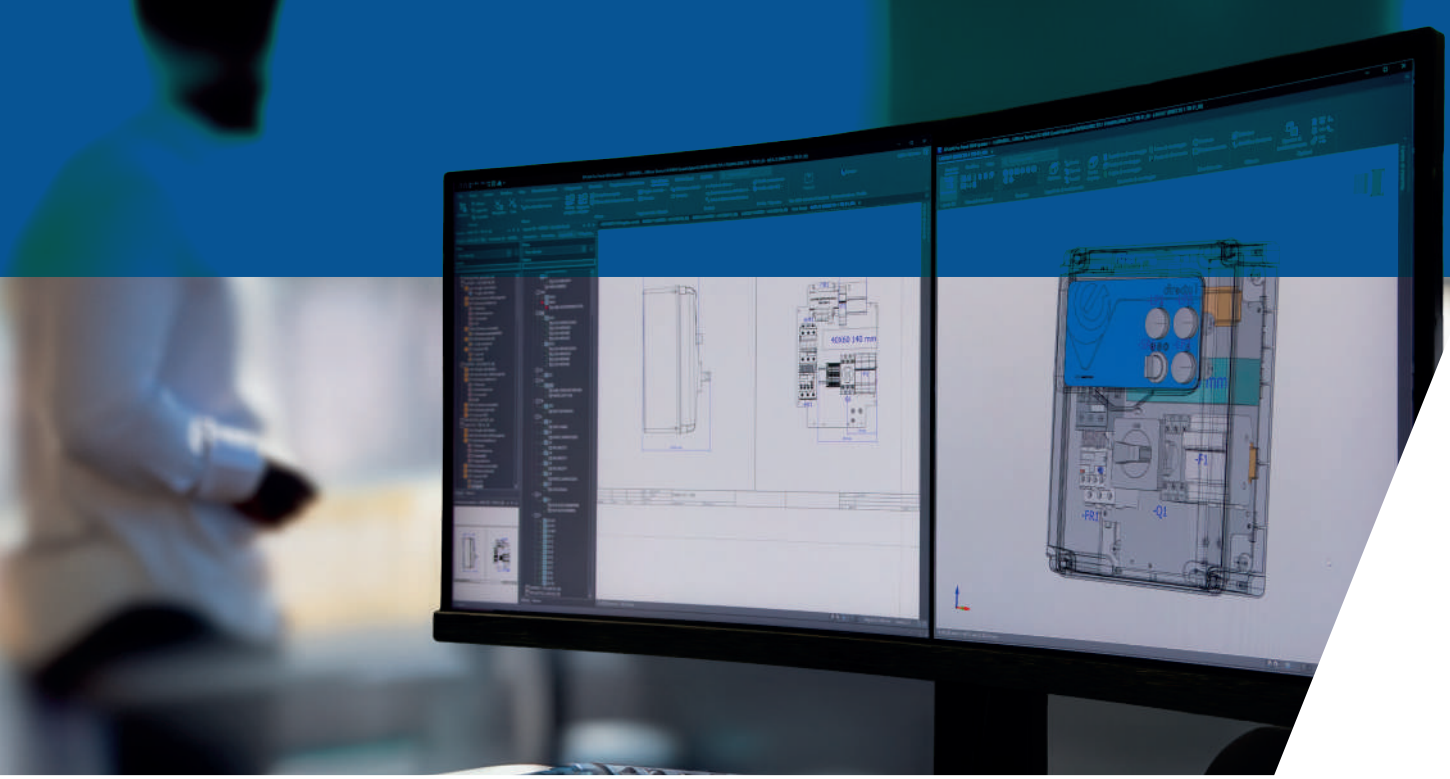
The solution that comes from analysing the problem, the experience that supports the analysis, the continuous comparison with those who use the products on a daily basis: these are the foundations on which Elentek was born twenty years ago. Supporting pillars that every day make the company evolve, constantly implementing new technologies to stay one step forward.
With a totally Made in Italy production and a highly qualified technical department, Elentek is present on the national and international market with expandable, modular and fully customisable Electrical Panels. The control, management and protection of pump systems are assured.

The certified value of a company

Human resource enhancement, product quality, production process control: Elentek is ISO 9001 certified to grow virtuously every day.

CERTIFIED ISO 9001 COMPANY

MADE IN ITALY



RESEARCH & DEVELOPMENT

Looking to the future without neglecting the past.
Elentek combines its knowledge with the most recent discoveries and designs the next generation of control panels that increasingly improve plant performance.
Never before can pump control, management, and protection become of the highest quality: new Elentek control panels are easy to install, expandable, versatile, equipped with a multifunction display or LED signaling. The result is the full reliability of the system.

RESEARCH > PLANNING > DESIGN

TECHNICAL DEPARTMENT

The technicians who design and test Elentek panels are the same ones who provide after-sales service: an additional guarantee for every installer, who can turn directly to our experts if the instruction manual is not sufficient.

Every day, thanks to constant comparison, know-how is enriched and every requirement is translated into a new, even better performing product.

TEAM

All the technical information to make Elentek heald frames goes directly from the technical department to the production department: the continuous comparison between the various sectors and the exchange of information makes each frame an excellent team result.

The Made in Italy synergy between materials, craftsmanship and experience gives added value to each product, from start to finish, even after sale.

*"La forza del gruppo è ogni singolo membro. La forza di ogni membro è il gruppo. Insieme, facciamo **un passo avanti**."*

*"The strength of the team is each individual member. The strength of each member is the team. Together, we take **one step forward**."*

CHECK

The check is the phase in which a series of activities are carried out to establish the suitability of the product before it is put on the market. Elentek has adopted a complete testing procedure that allows for 100% testing of the functionality of the switchboards, where every single part is fully tested to verify its correct functioning and safety.

METICULOUS CONTROL

AFTER-SALES SERVICE

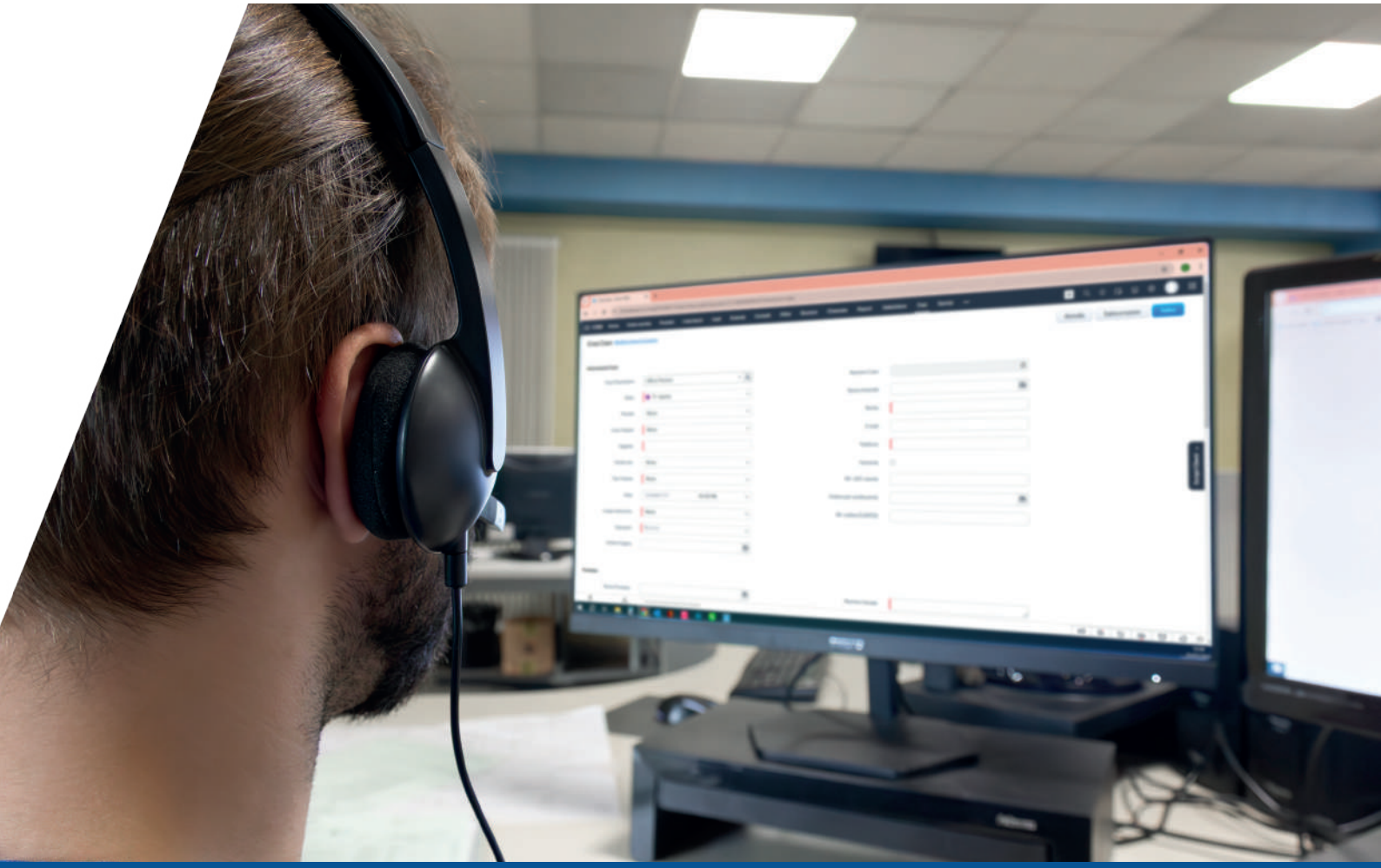
CUSTOMER SATISFACTION

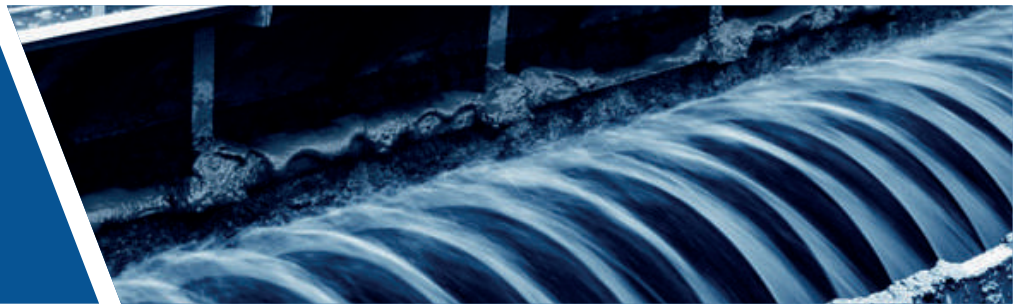
SUPPORT

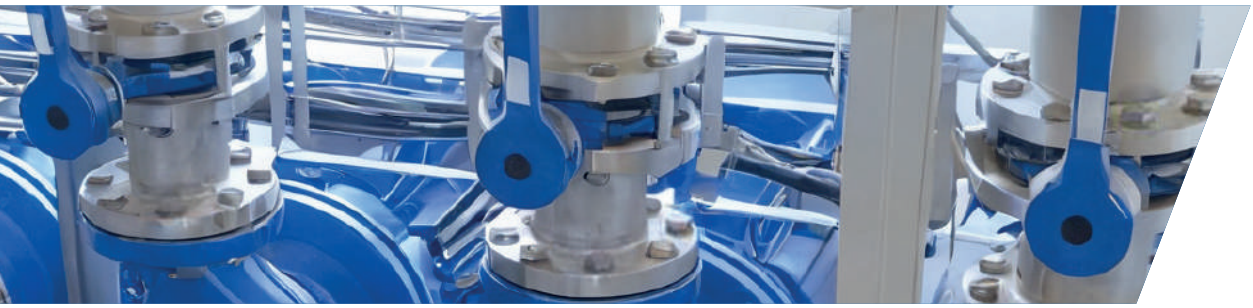
Elentek is proud of its after-sales support service, which provides full technical assistance for products under warranty or the supply of spare parts.

In the event of a malfunction of any component, Elentek will replace it quickly.

Our support services are constantly available to our customers.







APPLICATIONS

Elentek switchboards are suitable for a wide range of water handling systems and installations. From agriculture to industry and waterworks, Elentek provides solutions to numerous companies of different sizes, from micro to large enterprises. Thanks to a direct relationship with installers and after-sales service, the functionality of its products is guaranteed, offering applications that allow continuous control, which is fundamental in the sector. Elentek offers a variety of switchboards that meet all requirements, both technical and economic.

Specialisation in certain sectors has enabled Elentek to create unique products to meet specific needs. These include Pluvio, the switchboard for first rain systems and rainwater management, and the EN series of switchboards, designed to comply with the current EN12845 standard.

FILLING

Switchgear suitable for filling can be configured with float and dry run protection without a probe; with probes and dry run protection with floats; or with floats and dry run protection with probes. The wide range of options allows you to choose according to budget, start-up type and specific plant requirements.

PRESSURISATION

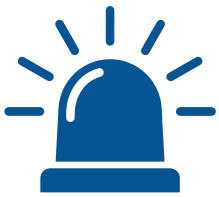
Switchgear for precise and reliable control of pressure boosting and irrigation systems. The range of integrated solutions designed meets various requirements: with pressure switch and level probes; with pressure switch and dry-running protection without probes; with pressure switches and dry-running protection with floats; or with four sensors and dry-running protection without probes.

DRENAGE

Boards that optimise the control of water recovery systems, ensuring optimal efficiency in the management of water resources, both rainwater and waste water. Discover switchboards for wastewater drainage with floats or with 4-20mA electronic level sensor.

EMPTYING

Elentek switchgear integrates with the pump pit system (with floats, with bell sensor, with 4-20mA electronic level sensor or for first rain) monitoring and optimally regulating the emptying process.



FIRE FIGHTING

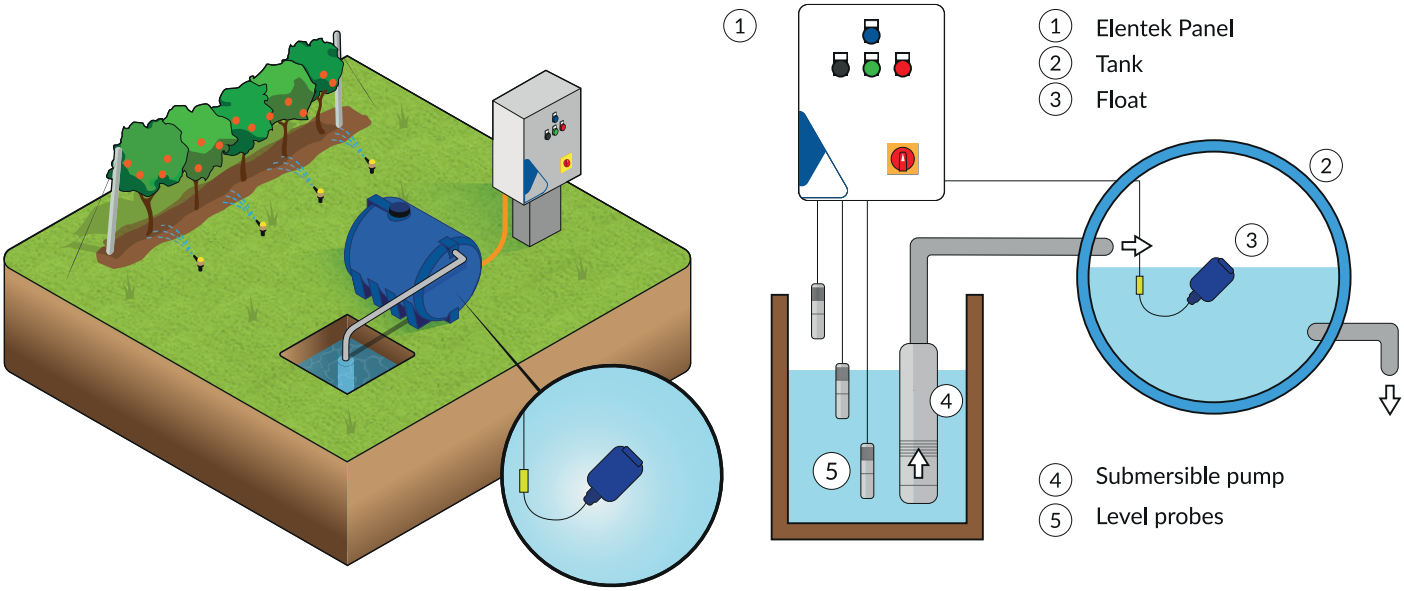
In order to control and monitor the operation of fire-fighting systems, it is necessary to install a control panel. Elentek partners with many companies that install EN12845 fire-fighting units and is chosen for its quality and safety guarantee.

FILLING

Elentek is an ideal partner for rainwater or groundwater recovery systems to be stored in tanks or reservoirs. Elentek switchboards allow control of systems equipped with floats, probes and dry-running protection.

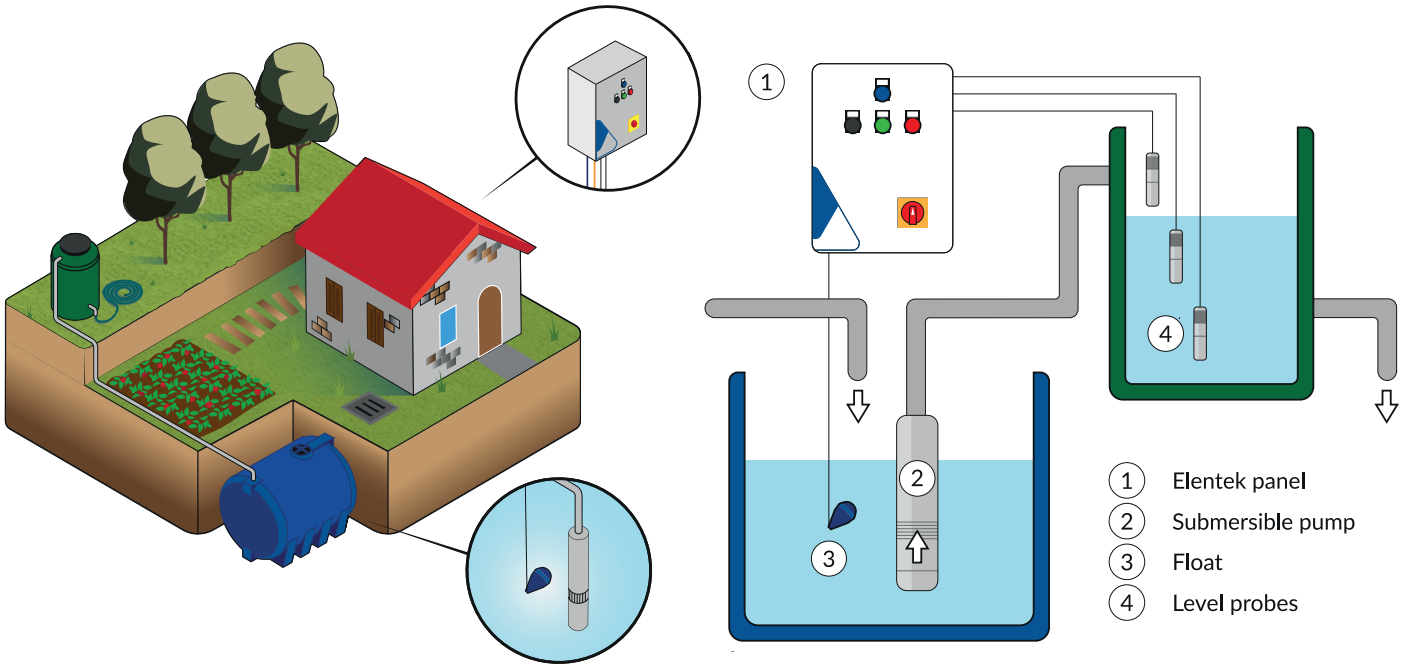
TANK FILLING WITH FLOATS AND DRY RUNNING WITH PROBES

If the filling system includes a float on the tank to be filled and a probe level control, Elentek switchgear provides efficient control. The float, connected to the Elentek switchgear, enables the pump to be activated for filling, while the probe level control signals the presence or absence of water.



TANK FILLING WITH PROBES AND DRY RUNNING WITH FLOAT

Does the system include a small cistern to collect water for later reuse? Elentek suggests switchboards that interface with level probes to manage the filling of the cistern and that provide a float, placed in the collection basin, to protect the pump against running dry.



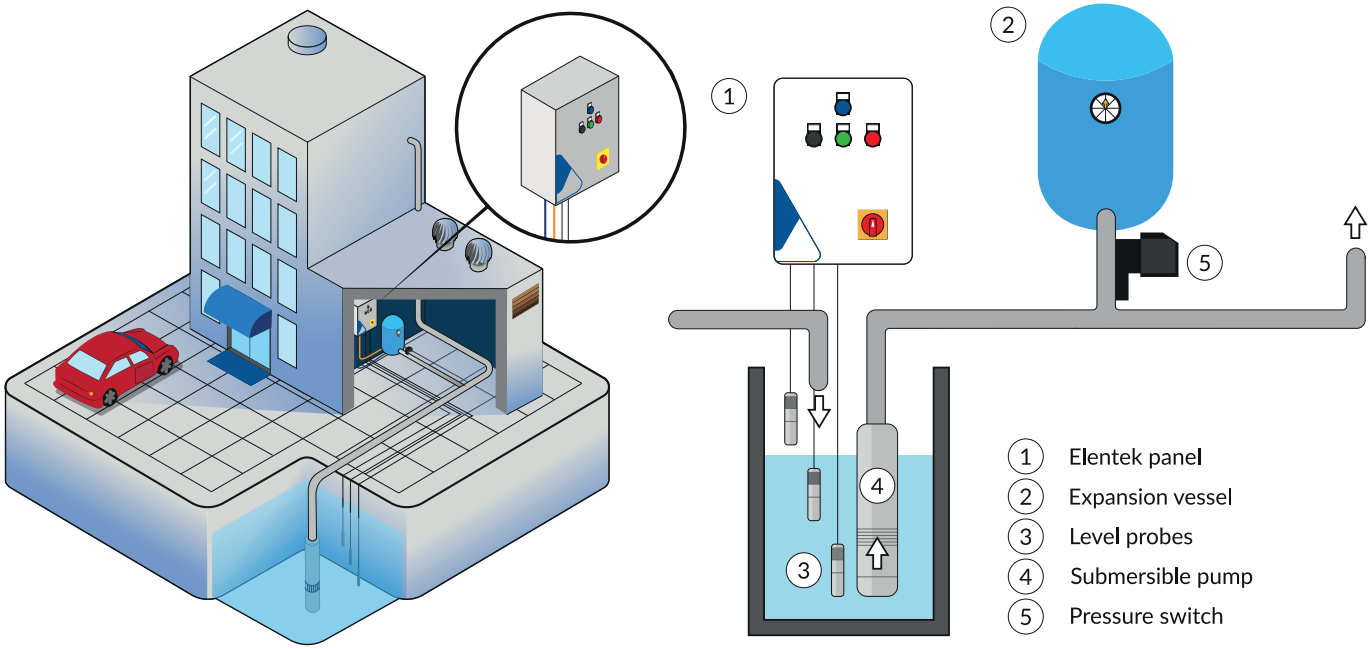
PRESSURISATION

Pressurisation systems increase water pressure, ensuring supply to all water consumers when mains pressure is insufficient. Designed with one or more electric pumps, as required, these systems supply water at a predetermined pressure, reducing the number of pump starts.

Many irrigation systems, both civil and industrial, are equipped with a pressure switch for start and stop control and include an expansion tank. Elentek switchboards integrate perfectly into these systems, offering control and safety.

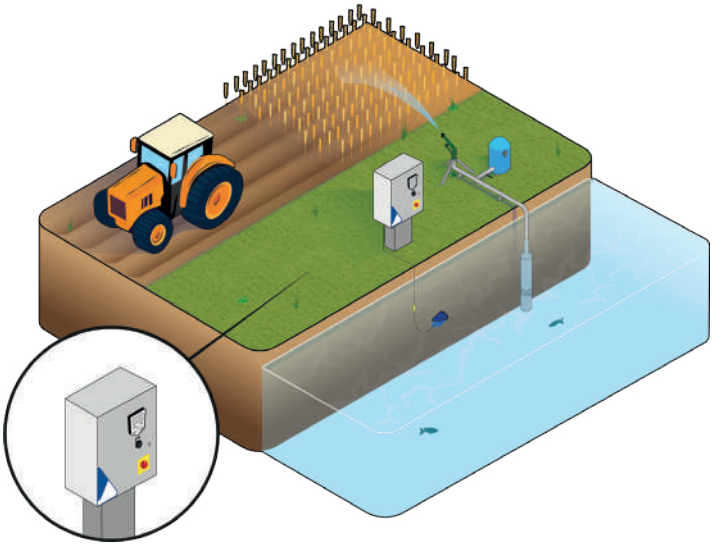
PRESSURE UNITS AND IRRIGATION SYSTEMS WITH PRESSURE SWITCH AND LEVEL PROBES

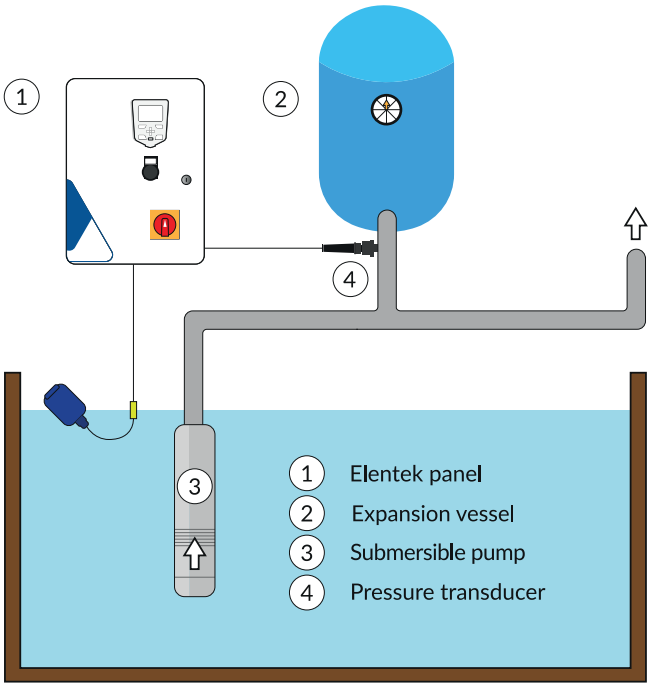
Does the pressurisation or irrigation system have a pressure switch on the system supply line and a probe level control in the reservoir? Elentek switchboards, communicating with these two elements, activate or deactivate the pump according to the signal received on the presence or absence of water.



PRESSURE RELIEF/IRRIGATION WITH 4-20mA SENSOR

Elentek switchboards integrate perfectly with pressure boosting and irrigation systems equipped with sensor and dry running without probes. After programming the panel with the parameters and thresholds, the electronic pressure sensor, located on the system's delivery side, sends the signal to activate or deactivate the pump.





PRESSURISATION WITH PRESSURE SWITCHES AND DRY-RUNNING PROTECTION WITH FLOATS

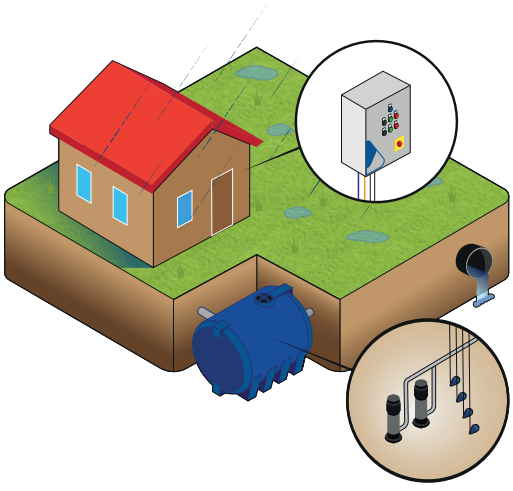
If the water pressurisation system has a pressure switch on the delivery side and a float switch inside the reservoir, Elentek switchgear switches the pump on or off according to the signals received. This configuration allows precise control of the system, ensuring that the pump only runs when needed, thereby optimising the efficiency and lifetime of the system.

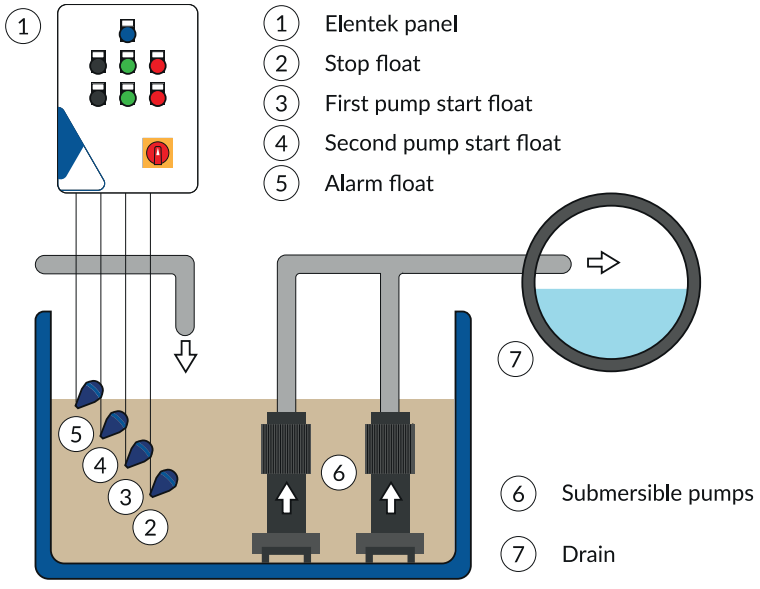
DRENAGE

Water drainage systems are used to maintain or regulate rainwater and groundwater, with the aim of ensuring soil stability and supporting the water cycle. Consisting of two or more submersible electric pumps, these systems control the operation of the pump and stop its activation when necessary.

DRAINAGE OF WASTE WATER WITH FLOATS

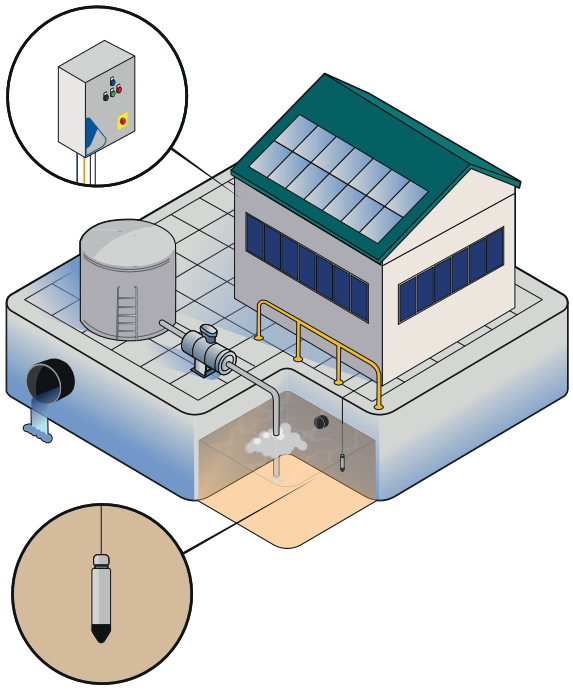
Drainage systems with floats, designed to empty dirty water collection tanks to be fed into the sewage system, require basic functionality: pump activation and stop, and alarm in the event of malfunction. Elentek switchgear meets these requirements, offering a high level of safety.

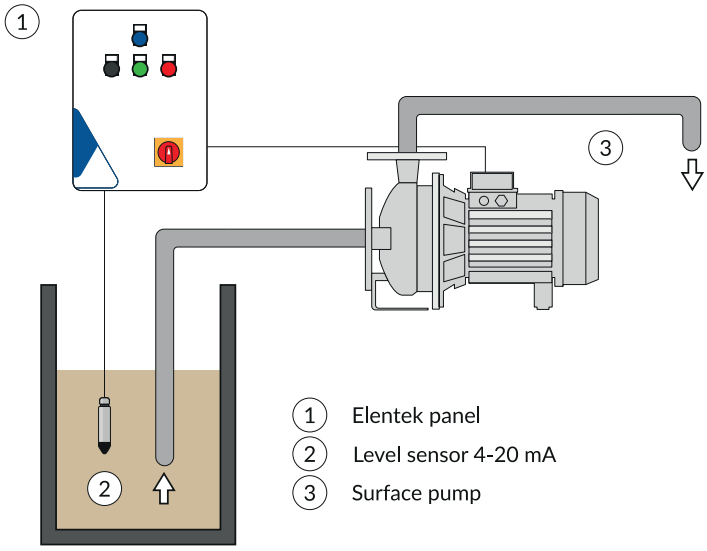




WASTE WATER DRAINAGE WITH ELECTRONIC LEVEL SENSOR 4-20mA

If the emptying of the dirty water collection tank to be fed into the sewerage system is managed by a drainage system using an electronic or piezometric level sensor, Elentek switchboards allow one or more thresholds to be set, enabling the activation and deactivation of the installed electric pumps.



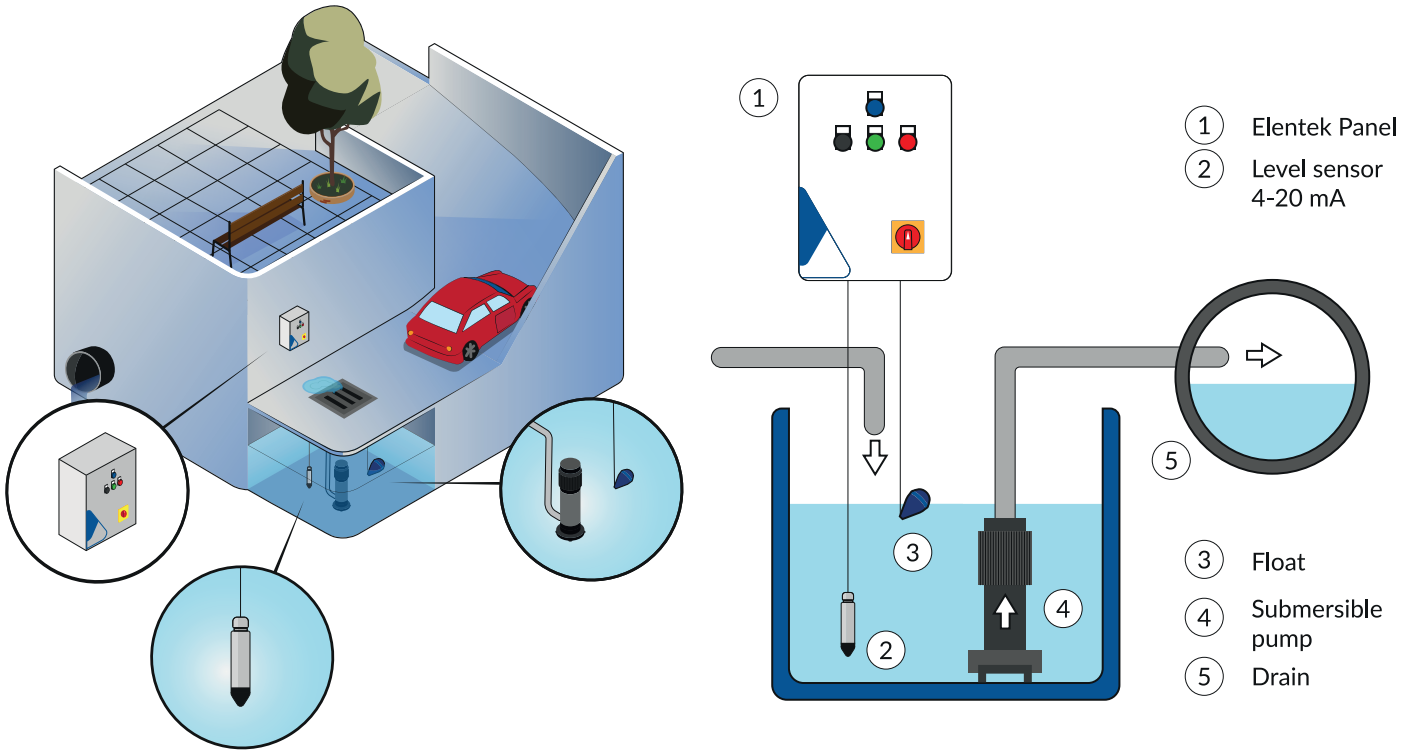


EMPTYING

The emptying of clear water tanks is a critical process, where the efficient transfer of clean liquids to the sewer system or other downstream destinations is essential to protect the environment and ensure regulatory compliance.
Elentek panels integrate seamlessly with pump well systems (using float switches, bell sensors, 4-20mA electronic level sensors, or first-rain sensors), ensuring optimal monitoring and regulation of the emptying process.

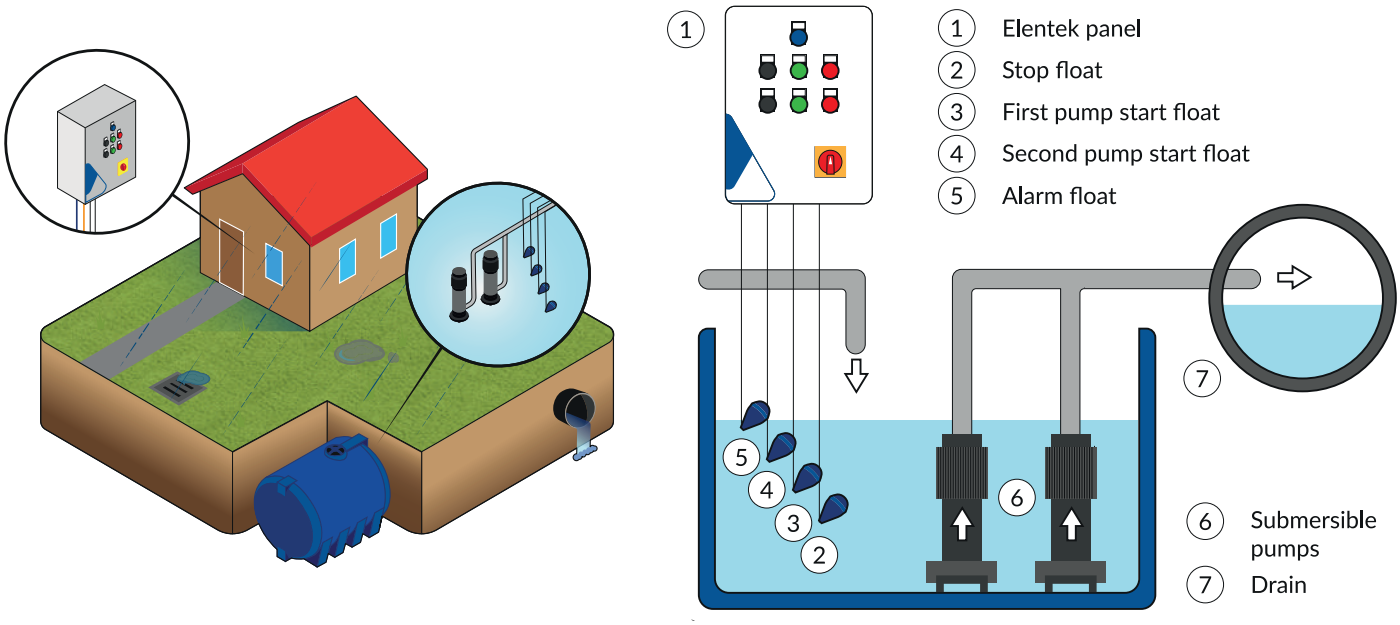
EMPTYING WITH 4-20mA ELECTRONIC LEVEL SENSOR

For emptying systems that use an electronic (piezometric) level sensor, Elentek offers the ability to set precise thresholds down to the centimeter for pump activation and deactivation. This solution replaces traditional float switches, which can cause malfunctions in small-sized wells.



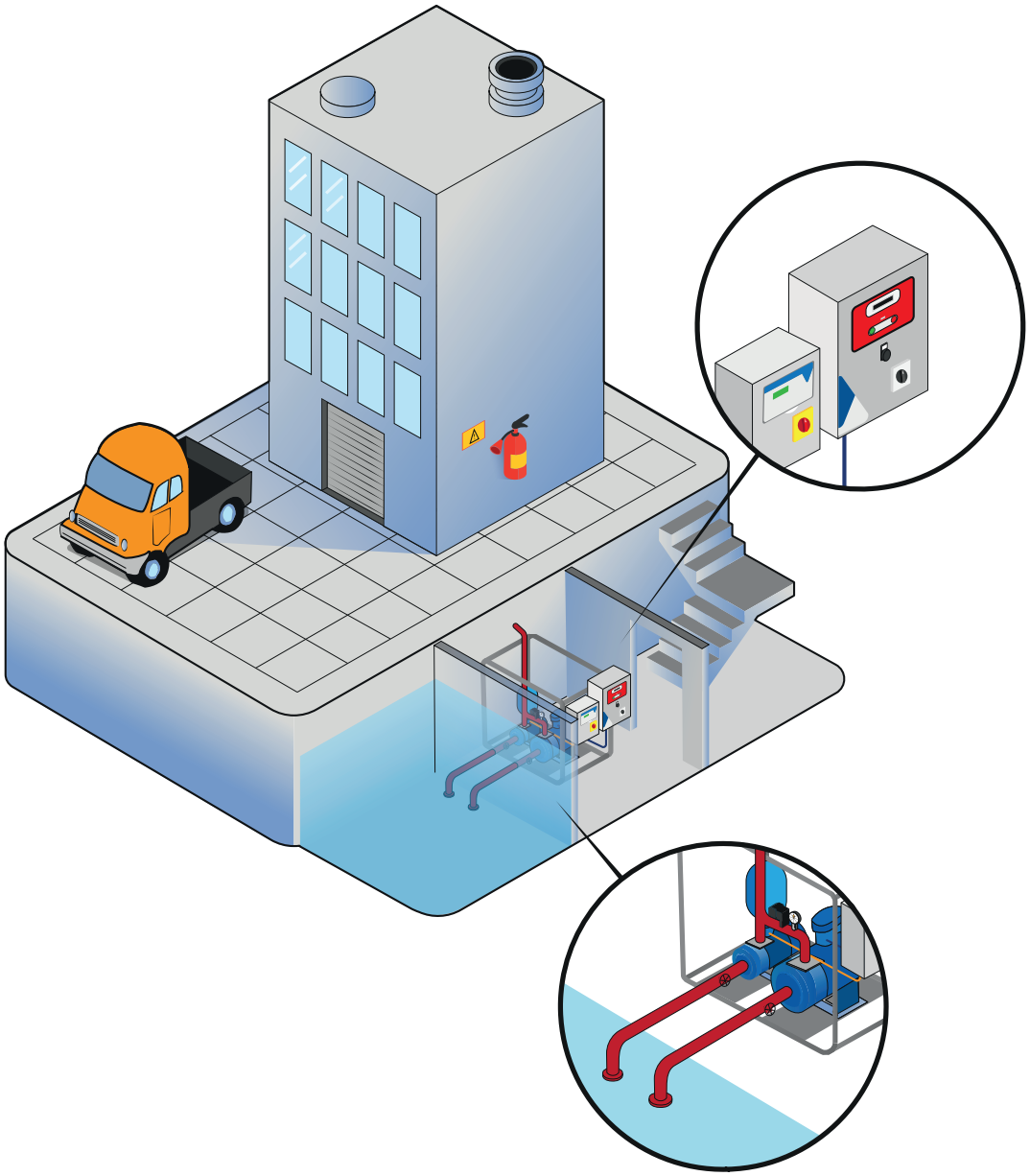
EMPTYING OF CLEAR WATER WITH FLOAT SWITCHES

The float switches installed in the water collection system send a signal to the Elentek control panel: when the water in the tank reaches the preset level, the Elentek panel activates the pump, enabling the tank to be emptied.



FIRE-FIGHTING

A fire-fighting system compliant with the EN 12845 standard, designed to meet European requirements and guidelines, utilizes sprinkler devices to detect and suppress fires in residential, commercial, and industrial buildings. To control and monitor the operation of these fire-fighting systems, an electrical control panel is essential. Elentek is the trusted partner of many companies installing EN 12845 fire-fighting units, thanks to the quality and safety guaranteed by its products.



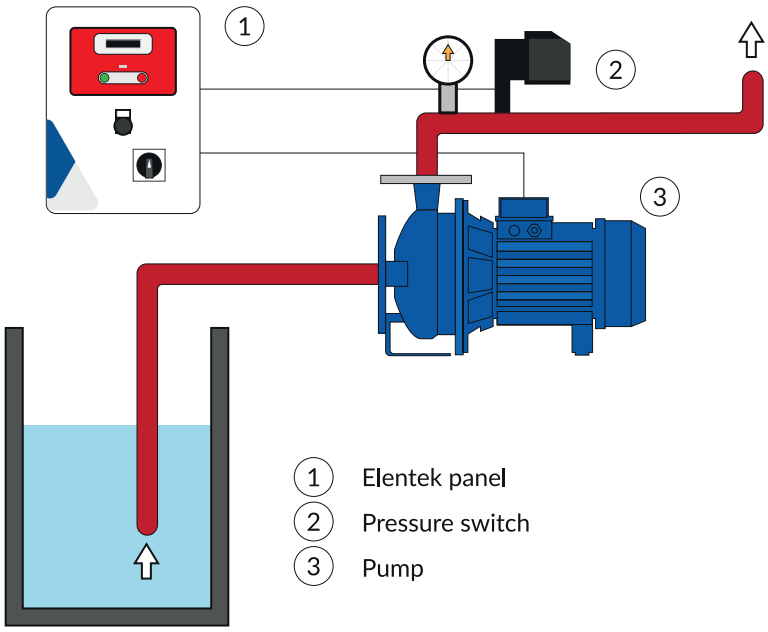
Suppressing fires in residential, commercial, and industrial buildings is achievable with a fire-fighting system that requires constant monitoring and control. Elentek presents its range of fire-fighting control panels designed to manage electric pumps and motor pumps in compliance with the EN 12845 European standard. This range includes: control panels for motor pumps; control panels for main electric pumps with direct start, star-delta start, or soft-start systems; electromechanical control panels with direct start for jockey pumps
With guaranteed safety and quality, Elentek electrical panels provide added value in the control and management of fire-fighting systems.

EUROPEAN STANDARD EN 12845

The European standard UNI EN 12845 focuses on fixed fire-fighting installations and the design, installation, and maintenance of automatic sprinkler systems.

Primarily, this standard provides guidelines and rules for the sizing of fire-fighting systems and the types of pumps to be used, specifying both general and specific requirements for particular types of pumps.

Each pump must be installed with its own control panel in the same room, except for submersible pumps.



Electromechanical Panels

Related Products

directo

EASE OF INSTALLATION

●●●●○

USER INTERFACE

●●●●●

VERSATILITY

●●●●●

The most commonly used panel **with direct start**

The direct start system, one of the simplest and most traditional methods, involves connecting the motor directly to the power supply, allowing for full voltage starting (**Direct On Line**).

This approach is particularly suitable for starting small submersible pumps, submerged pumps, or pressure-boosting systems with surface pumps.

The electrical panel, designed for direct connection to the power supply network, offers the following advantages:

- Full voltage starting with constant frequency
- High starting torque
- Generally very short acceleration times

PROTECTED

Made of plastic or metal enclosure with a minimum protection rating of IP55

SAFE

It integrates indicator lights, manual or automatic selector, and a disconnect switch with a door locking system.

MAXIMUM CONTROL

Connected to the loads and external controls via a terminal block.

directo 1

- Normally open input for start command;
- Normally open input for minimum level/ pressure command;
- Automatic-0-Manual selector (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Blue LED for power supply presence;
- Green LED for motor active;
- Red LED for motor overload alarm;
- AC3 line contactor;
- Resettable thermal overload relay internally;
- ABS box up to 11 kW, metallic from 15 kW, IP55.

directo 2

- 2 Normally open inputs for start command;
- 2 Normally open inputs for minimum level/ pressure command;
- 2 Automatic-0-Manual selectors (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Blue LED for power supply presence;
- 2 Green LEDs for motor active;
- Red LED for motor overload alarm;
- 2 AC3 line contactors;
- 2 Resettable thermal overload relays internally;
- ABS box up to 11 kW, metallic from 15 kW, IP55.

directo 3

- 3 Normally open inputs for start command;
- 3 Normally open inputs for minimum level/ pressure command;
- 3 Automatic-0-Manual selectors (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Blue LED for power supply presence;
- 3 Green LEDs for motor active;
- Red LED for motor overload alarm;
- 3 AC3 line contactors;
- 3 Resettable thermal overload relays internally;
- ABS box up to 11 kW, metallic from 15 kW, IP55.

MAIN FEATURES

FUNCTIONS

- Automatic-0-Manual selector (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Blue LED for power supply presence;
- Green LED for motor active;
- Red LED for motor overload alarm.

POWER SUPPLIES

- Power supply 1 ~ 50/60Hz 230V±10% (DIRECTO-Mono);
- Power supply 3 ~ 50/60Hz 400V±10% (DIRECTO-Tri).

CONTROLS

- Resettable thermal overload relay internally;
- AC3 line contactor.

PROTECTIONS

- 24 Vac transformer for auxiliary circuit;
- Low voltage command inputs and circuits;
- Protection of auxiliaries and motor with fuses;
- Main disconnect switch with door lock.

MODELS

directo 1

			Max power		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
01020	DIRECTO 1-Mono/0.37	1~230 V	0.37	0.5	4.2-5.7	5.7	320	240	190	ABS	4	331,00
01021	DIRECTO 1-Mono/0.55	1~230 V	0.55	0.75	5.7-7.6	7.6	320	240	190	ABS	4	331,00
01022	DIRECTO 1-Mono/0.75	1~230 V	0.75	1	7.6-9	9	320	240	190	ABS	4	331,00
01023	DIRECTO 1-Mono/1.1	1~230 V	1.1	1.5	10-12	12	320	240	190	ABS	4	339,00
01024	DIRECTO 1-Mono/1.5	1~230 V	1.5	2	13-16	16	320	240	190	ABS	4	353,00
01025	DIRECTO 1-Mono/2.2	1~230 V	2.2	3	16-20	20	320	240	190	ABS	4	379,00
01026	DIRECTO 1-Tri/0.37	3~400 V	0.37	0.5	1.0-1.3	1.3	320	240	190	ABS	4	339,00
01027	DIRECTO 1-Tri/0.55	3~400 V	0.55	0.75	1.7-2.3	2.3	320	240	190	ABS	4	339,00
01028	DIRECTO 1-Tri/1.1	3~400 V	1.1	1.5	2.3-3.1	3.1	320	240	190	ABS	4	339,00
01029	DIRECTO 1-Tri/1.5	3~400 V	1.5	2	3.1-4.2	4.2	320	240	190	ABS	4	339,00
01030	DIRECTO 1-Tri/2.2	3~400 V	2.2	3	5.7-7.6	7.6	320	240	190	ABS	4	339,00
01031	DIRECTO 1-Tri/4	3~400 V	4	5.5	7.6-9	9	320	240	190	ABS	4	339,00
01032	DIRECTO 1-Tri/5.5	3~400 V	5.5	7.5	10-12	12	320	240	190	ABS	4,5	350,00
01033	DIRECTO 1-Tri/7.5	3~400 V	7.5	10	13-16	16	320	240	190	ABS	4,5	361,00
01034	DIRECTO 1-Tri/9.2	3~400 V	9.2	12.5	16-20	20	320	240	190	ABS	4,5	379,00
01035	DIRECTO 1-Tri/11	3~400 V	11	15	20-24	24	320	240	190	ABS	5,5	386,00
01036	DIRECTO 1-Tri/15	3~400 V	15	20	29-32	32	390	310	230	ABS	9	588,00
01037	DIRECTO 1-Tri/18.5	3~400 V	18.5	25	35-38	38	390	310	230	ABS	9	644,00
01038	DIRECTO 1-Tri/22	3~400 V	22	30	44-50	50	500	400	240	Metallic	15	907,00
01039	DIRECTO 1-Tri/30	3~400 V	30	40	57-63	63	500	400	240	Metallic	15	1.006,00
01040	DIRECTO 1-Tri/37	3~400 V	37	50	65-78	78	500	400	240	Metallic	15	1.135,00

directo 2

			Max power		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
02020	DIRECTO 2-Mono/0.37	1~230 V	0.37	0.5	4.2-5.7	5.7	390	310	230	ABS	7	587,00
02021	DIRECTO 2-Mono/0.55	1~230 V	0.55	0.75	5.7-7.6	7.6	390	310	230	ABS	7	587,00
02022	DIRECTO 2-Mono/0.75	1~230 V	0.75	1	7.6-9	9	390	310	230	ABS	7	587,00
02023	DIRECTO 2-Mono/1.1	1~230 V	1.1	1.5	10-12	12	390	310	230	ABS	7	613,00
02024	DIRECTO 2-Mono/1.5	1~230 V	1.5	2	13-16	16	390	310	230	ABS	7	625,00
02025	DIRECTO 2-Mono/2.2	1~230 V	2.2	3	16-20	20	390	310	230	ABS	7	711,00
02026	DIRECTO 2-Tri/0.37	3~400 V	0.37	0.5	1.0-1.3	1.3	390	310	230	ABS	7	554,00
02027	DIRECTO 2-Tri/0.55	3~400 V	0.55	0.75	1.7-2.3	2.3	390	310	230	ABS	7	554,00
02028	DIRECTO 2-Tri/1.1	3~400 V	1.1	1.5	2.3-3.1	3.1	390	310	230	ABS	7	554,00
02029	DIRECTO 2-Tri/1.5	3~400 V	1.5	2	3.1-4.2	4.2	390	310	230	ABS	7	554,00
02030	DIRECTO 2-Tri/2.2	3~400 V	2.2	3	5.7-7.6	7.6	390	310	230	ABS	7	554,00
02031	DIRECTO 2-Tri/4	3~400 V	4	5.5	7.6-9	9	390	310	230	ABS	7	554,00
02032	DIRECTO 2-Tri/5.5	3~400 V	5.5	7.5	10-12	12	390	310	230	ABS	7	581,00
02033	DIRECTO 2-Tri/7.5	3~400 V	7.5	10	13-16	16	390	310	230	ABS	8	601,00
02034	DIRECTO 2-Tri/9.2	3~400 V	9.2	12.5	16-20	20	390	310	230	ABS	8	711,00
02035	DIRECTO 2-Tri/11	3~400 V	11	15	20-24	24	390	310	230	ABS	9	751,00
02036	DIRECTO 2-Tri/15	3~400 V	15	20	29-32	32	500	400	240	Metallic	9,5	1.087,00
02037	DIRECTO 2-Tri/18.5	3~400 V	18.5	25	35-38	38	500	400	240	Metallic	10	1.195,00
02038	DIRECTO 2-Tri/22	3~400 V	22	30	44-50	50	500	400	240	Metallic	15,5	1.474,00

directo 3

			Max power		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
03020	DIRECTO 3-Mono/0.37	1~230 V	0.37	0.5	4.2-5.7	5.7	500	400	240	Metallic	7	891,00
03021	DIRECTO 3-Mono/0.55	1~230 V	0.55	0.75	5.7-7.6	7.6	500	400	240	Metallic	7	891,00
03022	DIRECTO 3-Mono/0.75	1~230 V	0.75	1	7.6-9	9	500	400	240	Metallic	7	891,00
03033	DIRECTO 3-Mono/1.1	1~230 V	1.1	1.5	10-12	12	500	400	240	Metallic	8	946,00
03034	DIRECTO 3-Mono/1.5	1~230 V	1.5	2	13-16	16	500	400	240	Metallic	8,5	980,00
03035	DIRECTO 3-Mono/2.2	1~230 V	2.2	3	16-20	20	500	400	240	Metallic	9	1.067,00
03023	DIRECTO 3-Tri/0.37	3~400 V	0.37	0.5	1.0-1.3	1.3	500	400	240	Metallic	14	933,00
03024	DIRECTO 3-Tri/0.55	3~400 V	0.55	0.75	1.7-2.3	2.3	500	400	240	Metallic	14	933,00
03025	DIRECTO 3-Tri/1.1	3~400 V	1.1	1.5	2.3-3.1	3.1	500	400	240	Metallic	14	933,00
03026	DIRECTO 3-Tri/1.5	3~400 V	1.5	2	3.1-4.2	4.2	500	400	240	Metallic	14	933,00
03027	DIRECTO 3-Tri/2.2	3~400 V	2.2	3	5.7-7.6	7.6	500	400	240	Metallic	14	933,00
03028	DIRECTO 3-Tri/4	3~400 V	4	5.5	7.6-9	9	500	400	240	Metallic	14	933,00
03029	DIRECTO 3-Tri/5.5	3~400 V	5.5	7.5	10-12	12	600	400	240	Metallic	14	973,00
03030	DIRECTO 3-Tri/7.5	3~400 V	7.5	10	13-16	16	500	400	240	Metallic	15	1.036,00
03036	DIRECTO 3-Tri/9.2	3~400 V	9.2	12.5	16-20	20	500	400	240	Metallic	15	1.107,00
03031	DIRECTO 3-Tri/11	3~400 V	11	15	20-24	24	500	400	240	Metallic	15	1.141,00
03032	DIRECTO 3-Tri/15	3~400 V	15	20	29-32	32	500	400	240	Metallic	15	1.597,00

ACCESSORIES

Code	Model	Description	€
98001	SC-2P	Motor alternation relay (2 motors)	89,00
98002	SC-3P	Motor alternation relay (3 motors)	214,00
98003*	AA-...V	90 dB acoustic alarm	57,00
98004*	LL-...V	Flashing light alarm	97,00
98005	DBT	Alarm device with backup battery	146,00
98006*	RL-...	Level relay for automation	89,00
98007	K3SL	Kit of 3 level probes (electrodes)	34,00
98008	VOLT	Analog voltmeter 0-500V	57,00
98009	COM	Voltmetric selector 4 positions 0-L1/L2-L2/L3-L1/L3 (0-R/S-S/T-R/T)	54,00
98010	AMP-25	Max 25A ammeter with direct insertion	57,00
98011*	AMP-50÷100A	Analog ammeter with transformer	88,00
98013*	COM-...A	Ammeter switch with 3 CTs	136,00
98015*	RLOG-....	Relay for automation logic	33,00
98016	RA	Generic alarm relay	33,00
98017	2GMA	Circuit for control from 2 external contacts (ON and STOP)	26,00
98018	CEV24	Control for solenoid valve 24V, controlled by float switch/pressure switch	41,00
98019	CSF 380	Phase sequence and phase loss control	82,00
98020	CMMT	Phase sequence, phase loss, min and max voltage, phase reversal control	204,00
98021	PSS	Start/stop button	45,00
98022	FE	Emergency stop button	37,00
98029	DT	Daily timer with toggles	110,00
98030	WT	Weekly digital timer	159,00
98031*	TMF	Multifunction timer for logic	89,00
98032	TPL	Pause/work timer	106,00
98033	CI24V	External control in 24Vac for activation/deactivation of load	34,00
98033A	CI230V	External control in 230Vac for activation/deactivation of load	34,00
98062	CP	Clean contact	34,00
98120	AMP-10	Max 10A ammeter with direct insertion	57,00

*Select the specific function of the component from the list on pages 76-77

startbox

SIMPLICITY

●●●●○

COMPACTNESS

●●●●○

COST-EFFECTIVENESS

●●●●●

The compact panel **with direct start**

This Elentek panel features an integrated running capacitor and a thermal protection, perfectly suitable for starting and protecting a single-phase motor.

The direct start system is perhaps the simplest and most traditional. It involves connecting the motor directly to the power supply, thus performing a full-voltage start. It is often abbreviated as DOL (Direct On Line).

The STARTBOX electrical panel provides direct connection to the power network, which implies:

- Full-voltage start with constant frequency
- High starting torque
- Very short acceleration times.

The STARTBOX electrical panels are made of plastic enclosures with an IP55 protection rating.

COMPACT

Made of plastic or metal enclosure
with a minimum protection rating of IP55

SIMPLE

The first step for the protection and
starting of a single-phase motor.

COST-EFFECTIVE

Simple, cost-effective, and functional.

MAIN FEATURES

FUNCTIONS

- Normally open input for start command;
- Running capacitor;
- Resettable thermal overload relay externally;
- Main switch with indicator 0 – 1;
- Thermoplastic enclosure, IP55;
- Output with strain-relief cable glands;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing).

POWER SUPPLIES

- Power supply 1 ~ 50/60Hz 230V±10%

MODELS

startbox

			Max power			Box				W	Price
Code	Model	Voltage	Kw	Hp	Max	H	L	W	Materiale	Kg.	€
01200	STARTBOX/0.37-16	230 V	0.37	0.5	4	210	120	85	ABS	0,6	43,00
01201	STARTBOX/0.37-20	230 V	0.37	0.5	4	210	120	85	ABS	0,6	43,00
01202	STARTBOX/0.37-25	230 V	0.37	0.5	4	210	120	85	ABS	0,6	43,00
01203	STARTBOX/0.55-20	230 V	0.55	0.75	6	210	120	85	ABS	0,6	43,00
01204	STARTBOX/0.55-25	230 V	0.55	0.75	6	210	120	85	ABS	0,6	43,00
01205	STARTBOX/0.55-30	230 V	0.55	0.75	6	210	120	85	ABS	0,6	43,00
01206	STARTBOX/0.75-25	230 V	0.75	1	8	210	120	85	ABS	0,6	44,00
01207	STARTBOX/0.75-30	230 V	0.75	1	8	210	120	85	ABS	0,6	44,00
01208	STARTBOX/0.75-35	230 V	0.75	1	8	210	120	85	ABS	0,6	44,00
01209	STARTBOX/1.1-35	230 V	1.1	1.5	10	210	120	85	ABS	0,6	45,00
01210	STARTBOX/1.1-40	230 V	1.1	1.5	10	210	120	85	ABS	0,6	45,00
01211	STARTBOX/1.1-45	230 V	1.1	1.5	10	210	120	85	ABS	0,6	45,00
01212	STARTBOX/1.5-40	230 V	1.5	2	16	210	120	85	ABS	0,6	47,00
01213	STARTBOX/1.5-45	230 V	1.5	2	16	210	120	85	ABS	0,6	47,00
01214	STARTBOX/1.5-50	230 V	1.5	2	16	210	120	85	ABS	0,6	47,00
01215	STARTBOX/2.2-70	230 V	2.2	3	18	210	120	85	ABS	0,6	72,00
01216	STARTBOX/2.2-75	230 V	2.2	3	18	210	120	85	ABS	0,6	72,00
01217	STARTBOX/2.2-80	230 V	2.2	3	18	210	120	85	ABS	0,6	72,00

stardelta

CUSTOMIZATION

EASE OF INSTALLATION

VERSATILITY

The versatile panel with **star-delta start**

Electrical panels suitable for starting centrifugal pumps or pumping systems for pressure boosting with surface pumps (booster).

The *star-delta start* reduces the starting current and torque to values equal to 33% (1/3) of those encountered in a direct start.
During the starting phases, the components are exposed to currents lower than the nominal current of the motor.

This helps start the pump motor by reducing mechanical stresses and limiting currents during the start-up, all through a timed system that enables the switching of the control contactors installed within the panel.

COMPLETE

Each panel features indicator lights for power presence, thermal intervention, and motor operation, a manual or automatic selector, and a disconnect switch with a door locking system.

VERSATILE

A terminal block allows connection to the loads and external controls such as pressure switches, float switches, probes, etc.

RELIABLE

It integrates precise protection systems for motor safeguarding, thanks to the many implementable accessories.

stardelta 1

- Normally open input for start command;
- Normally open input for minimum level/ pressure command;
- Automatic-0-Manual selector (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Green LED for motor active;
- Red LED for motor overload alarm;
- AC3 star-delta line contactors;
- Resettable thermal overload relay internally;
- Adjustable star-delta timer.

stardelta 2

- 2 Normally open inputs for start command;
- 2 Normally open inputs for minimum level/ pressure command;
- 2 Automatic-0-Manual selectors (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- 2 Green LEDs for motor active;
- 2 Red LEDs for motor overload alarm;
- 2 AC3 star-delta line contactors;
- 2 Resettable thermal overload relays internally;
- 2 Adjustable star-delta timers.

stardelta 3

- 3 Normally open inputs for start command;
- 3 Normally open inputs for minimum level/ pressure command;
- 3 Automatic-0-Manual selectors (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- 3 Green LEDs for motor active;
- 3 Red LEDs for motor overload alarm;
- 3 AC3 star-delta line contactors;
- 3 Resettable thermal overload relays internally;
- 3 Adjustable star-delta timers.

MAIN FEATURES

FUNCTIONS

- 24 Vac transformer for auxiliary circuit;
- Low voltage command inputs and circuits;
- Protection for auxiliaries and motor with fuses;
- Main disconnect switch with door lock;
- ABS box up to 11 kW, metallic from 15 kW, IP55;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing);
- Normally open input for start command;
- Normally open input for minimum level/pressure command;
- Automatic-0-Manual selector (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Blue LED for power supply presence;
- Green LED for motor active;
- Red LED for motor overload alarm;
- AC3 star-delta line contactors;
- Resettable thermal overload relay internally;
- Adjustable star-delta timer.

POWER SUPPLIES

- Power supply 3 ~ 50/60Hz 400V±10%

MODEL

stardelta 1

			Max power		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
01052	STARDELTA 1/5.5	3~400 V	5.5	7.5	7.6-9	15	390	310	230	ABS	6	718,00
01053	STARDELTA 1/7.5	3~400 V	7.5	10	7.6-10	17	390	310	230	ABS	6	718,00
01054	STARDELTA 1/11	3~400 V	11	15	13-16	24	390	310	230	ABS	6	779,00
01055	STARDELTA 1/15	3~400 V	15	20	16-20	31	500	400	240	Metallic	16	933,00
01056	STARDELTA 1/18.5	3~400 V	18.5	25	20-24	38	500	400	240	Metallic	16	986,00
01057	STARDELTA 1/22	3~400 V	22	30	24-29	50	500	400	240	Metallic	16	1.113,00
01058	STARDELTA 1/30	3~400 V	30	40	29-35	60	500	400	240	Metallic	20	1.303,00
01059	STARDELTA 1/37	3~400 V	37	50	36-47	75	600	400	240	Metallic	30	1.542,00
01060	STARDELTA 1/45	3~400 V	45	60	50-60	100	600	400	240	Metallic	30	1.736,00
01061	STARDELTA 1/55	3~400 V	55	75	65-78	124	700	500	290	Metallic	40	2.119,00
01062	STARDELTA 1/75	3~400 V	75	100	75-87	140	700	500	290	Metallic	40	2.495,00
01063	STARDELTA 1/90	3~400 V	90	125	84-96	160	800	600	380	Metallic	65	2.970,00
01064	STARDELTA 1/110	3~400 V	110	150	100-135	200	1000	800	380	Metallic	65	3.957,00
01065	STARDELTA 1/132	3~400 V	132	180	110-142	241	1000	800	380	Metallic	70	4.232,00
01066	STARDELTA 1/162	3~400 V	162	220	150-200	300	1000	800	380	Metallic	80	5.164,00
01067	STARDELTA 1/220	3~400 V	220	300	115-380	410	1200	800	380	Metallic	100	6.638,00

stardelta 2

			Max power		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
02052	STARDELTA 2/5.5	3~400 V	5.5	7.5	7.6-9	15	600	400	240	Metallic	12	1.396,00
02053	STARDELTA 2/7.5	3~400 V	7.5	10	7.6-10	17	600	400	240	Metallic	12	1.396,00
02054	STARDELTA 2/11	3~400 V	11	15	13-16	24	600	400	240	Metallic	12	1.462,00
02055	STARDELTA 2/15	3~400 V	15	20	16-20	31	600	400	240	Metallic	32	1.636,00
02056	STARDELTA 2/18.5	3~400 V	18.5	25	20-24	38	700	500	290	Metallic	40	1.825,00
02057	STARDELTA 2/22	3~400 V	22	30	24-29	50	700	500	290	Metallic	40	2.146,00
02058	STARDELTA 2/30	3~400 V	30	40	29-35	60	800	600	380	Metallic	60	2.482,00
02059	STARDELTA 2/37	3~400 V	37	50	36-47	75	800	600	380	Metallic	60	2.950,00
02060	STARDELTA 2/45	3~400 V	45	60	50-60	100	1000	800	380	Metallic	80	3.621,00
02061	STARDELTA 2/55	3~400 V	55	75	65-78	124	1200	800	380	Metallic	240	4.158,00
02062	STARDELTA 2/75	3~400 V	75	100	75-87	140	1400	800	380	Metallic	260	4.961,00
02063	STARDELTA 2/90	3~400 V	90	125	84-96	160	1400	800	380	Metallic	300	6.476,00
02064	STARDELTA 2/110	3~400 V	110	150	100-135	200	1600	1000	480	Metallic	335	7.637,00
02065	STARDELTA 2/132	3~400 V	132	180	110-142	241	1800	1000	480	Metallic	360	8.031,00
02066	STARDELTA 2/162	3~400 V	162	220	150-200	300	2000	1600	580	Metallic	390	10.458,00
02067	STARDELTA 2/220	3~400 V	220	300	115-380	410	2000	1600	580	Metallic	450	13.140,00

stardelta 3

			Max power		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
03052	STARDELTA 3/5.5	3~400 V	5.5	7.5	7.6-9	15	700	500	290	Metallic	12	2.080,00
03053	STARDELTA 3/7.5	3~400 V	7.5	10	7.6-10	17	700	500	290	Metallic	12	2.080,00
03054	STARDELTA 3/11	3~400 V	11	15	13-16	24	700	500	290	Metallic	12	2.134,00
03055	STARDELTA 3/15	3~400 V	15	20	16-20	31	700	500	290	Metallic	32	2.395,00
03056	STARDELTA 3/18.5	3~400 V	18.5	25	20-24	38	800	600	380	Metallic	40	2.831,00
03057	STARDELTA 3/22	3~400 V	22	30	24-29	50	800	600	380	Metallic	40	3.487,00
03058	STARDELTA 3/30	3~400 V	30	40	29-35	60	1000	800	380	Metallic	60	4.158,00
03059	STARDELTA 3/37	3~400 V	37	50	36-47	75	1000	800	380	Metallic	70	5.230,00
03060	STARDELTA 3/45	3~400 V	45	60	50-60	100	1200	800	380	Metallic	80	6.169,00
03061	STARDELTA 3/55	3~400 V	55	75	65-78	124	1800	1000	480	Metallic	240	7.509,00
03062	STARDELTA 3/75	3~400 V	75	100	75-87	140	1800	1000	480	Metallic	260	8.085,00
03063	STARDELTA 3/90	3-400 V	90	125	84-96	160	2000	1400	580	Metallic	320	10.432,00
03064	STARDELTA 3/110	3~400 V	110	150	100-135	200	2000	1400	580	Metallic	335	12.203,00
03065	STARDELTA 3/132	3~400 V	132	180	110-142	241	2000	1600	580	Metallic	360	13.045,00
03066	STARDELTA 3/162	3~400 V	162	220	150-200	300	2000	1600	580	Metallic	390	14.883,00
03067	STARDELTA 3/220	3~400 V	220	300	115-380	410	2000	1600	580	Metallic	450	18.905,00

ACCESSORIES

Code	Model	Description	€
98001	SC-2P	Motor alternation relay (2 motors)	89,00
98002	SC-3P	Motor alternation relay (3 motors)	214,00
98003*	AA-...V	90 dB acoustic alarm	57,00
98004*	LL-...V	Flashing light alarm	97,00
98005	DBT	Alarm device with backup battery	146,00
98006*	RL-...	Level relay for automation	89,00
98007	K3SL	Kit of 3 level probes (electrodes)	34,00
98008	VOLT	Analog voltmeter 0-500V	57,00
98009	COM	Voltmetric selector 4 positions 0-L1/L2-L2/L3-L1/L3 (0-R/S-S/T-R/T)	54,00
98010	AMP-25	Max 25A ammeter with direct insertion	57,00
98011*	AMP-50÷100A	Analog ammeter with transformer	88,00
98013*	COM-...A	Ammeter switch with 3 CTs	136,00
98015*	RLOG-....	Relay for automation logic	33,00
98016	RA	Generic alarm relay	33,00
98017	2GMA	Circuit for control from 2 external contacts (ON and STOP)	26,00
98018	CEV24	Control for solenoid valve 24V, controlled by float switch/pressure switch	41,00
98019	CSF 380	Phase sequence and phase loss control	82,00
98020	CMMT	Phase sequence, phase loss, min and max voltage, phase reversal control	204,00
98021	PSS	Start/stop button	45,00
98022	FE	Emergency stop button	37,00
98029	DT	Daily timer with toggles	110,00
98030	WT	Weekly digital timer	159,00
98031*	TMF	Multifunction timer for logic	89,00
98032	TPL	Pause/work timer	106,00
98033	CI24V	External control in 24Vac for activation/deactivation of load	34,00
98033A	CI230V	External control in 230Vac for activation/deactivation of load	34,00
98062	CP	Clean contact	34,00
98120	AMP-10	Max 10A ammeter with direct insertion	57,00

*Select the specific function of the component from the list on pages 76-77

reacto

CUSTOMIZATION

EASE OF INSTALLATION

VERSATILITY

The robust panel with **impedance start**

Electrical panels suitable for starting submersible pumps, even high-power ones, or pumping systems for irrigation with water extraction from deep wells.

COMPLETE

Each panel features indicator lights for power presence, thermal intervention, and motor operation, a manual or automatic selector, and a disconnect switch with a door locking system.

VERSATILE

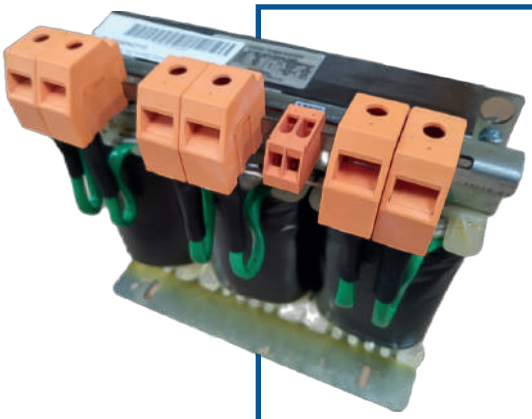
A terminal block allows connection to the loads and external controls such as pressure switches, float switches, probes, etc.

RELIABLE

It integrates precise protection systems for motor safeguarding, thanks to the many implementable accessories.

EXTRA REACTO

The entire REACTO series is offered with a standard IP55 metallic box, and a range of accessories and options are available, including double-door boxes and fiberglass enclosures.



IMPEDANCE START

Starting with stator reactors is suitable for electric pumps with squirrel-cage motors, where the voltage drop is produced by reactors placed in series with the stator during the start-up phase.

The inrush current is limited to about half of what it would be with full-voltage starting. Once the acceleration phase is complete, the reactors are bypassed (controlled by a timer), and the motor returns to full-voltage parameters.

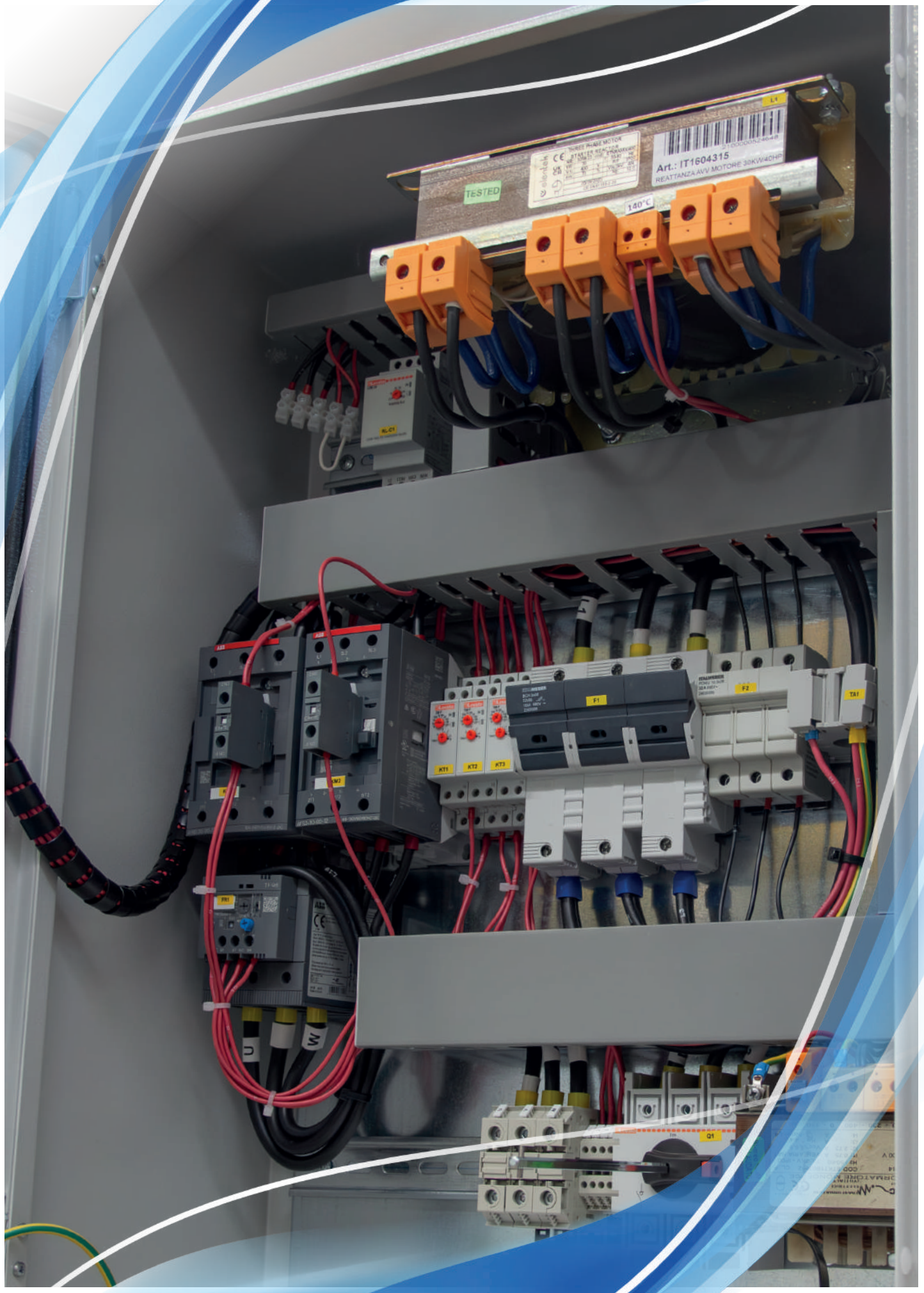
MAIN FEATURES

FUNCTIONS

- 24 Vac transformer for auxiliary circuit;
- Low voltage command inputs and circuits;
- Normally open input for start command;
- Normally open input for minimum level/pressure command;
- Automatic-0-Manual selector (stable manual):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Blue LED for power supply presence;
- Green LED for motor active;
- Red LED for motor overload alarm;
- Stator reactance 4 starts per hour, with 2 consecutive starts;
- Resettable thermal overload relay internally;
- Adjustable reactance timer;
- AC3 line contactors and impedance start;
- Protection for auxiliaries and motor with fuses;
- Main disconnect switch with door lock;
- Metal enclosure, IP55;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing).

POWER SUPPLIES

- Power supply 3 ~ 50/60Hz 400V±10%


TESTED
Art.: IT1604315
REATTANZA AVV MOTORE 30KW/40HP
140°C
KL-C1
F1
F2
TA1
KT1
KT2
KT3
Q1

MODELS

reacto

			Max power		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
01071	REACTO 1/5.5	3~400 V	5.5	7.5	13-16	16	500	400	240	Metallic	19	1.216,00
01072	REACTO 1/7.5	3~400 V	7.5	10	16-20	20	500	400	240	Metallic	21	1.260,00
01073	REACTO 1/11	3~400 V	11	15	29-32	32	600	400	240	Metallic	22	1.433,00
01074	REACTO 1/15	3~400 V	15	20	35-38	38	600	400	240	Metallic	36	1.577,00
01075	REACTO 1/18.5	3~400 V	18.5	25	44-50	50	700	500	290	Metallic	36	1.879,00
01076	REACTO 1/22	3~400 V	22	30	50-60	60	700	500	290	Metallic	41	2.041,00
01077	REACTO 1/30	3~400 V	30	40	65-78	78	800	600	380	Metallic	41	2.199,00
01078	REACTO 1/37	3~400 V	37	50	84-96	96	800	600	380	Metallic	52	2.577,00
01079	REACTO 1/45	3~400 V	45	60	80-110	110	800	600	380	Metallic	78	2.835,00
01080	REACTO 1/55	3~400 V	55	75	100-135	135	900	600	380	Metallic	78	3.457,00
01081	REACTO 1/66	3~400 V	66	90	110-150	150	1000	800	380	Metallic	114	3.978,00
01082	REACTO 1/75	3~400 V	75	100	130-175	175	1000	800	380	Metallic	120	4.482,00
01083	REACTO 1/90	3~400 V	90	125	150-200	200	1200	800	380	Metallic	120	5.394,00
01084	REACTO 1/110	3~400 V	110	150	115-235	235	1400	800	480	Metallic	140	5.929,00
01085	REACTO 1/132	3~400 V	132	180	115-285	285	1600	1000	480	Metallic	150	8.821,00
01086	REACTO 1/162	3~400 V	162	220	115-380	380	1600	1000	480	Metallic	250	9.833,00
01087	REACTO 1/220	3~400 V	220	300	150-410	410	1800	1000	480	Metallic	290	11.280,00

ACCESSORIES

Code	Model	Description	€
98003*	AA-...V	90 dB acoustic alarm	57,00
98004*	LL-...V	Flashing light alarm	97,00
98005	DBT	Alarm device with backup battery	146,00
98006*	RL-...	Level relay for automation	89,00
98007	K3SL	Kit of 3 level probes (electrodes)	34,00
98008	VOLT	Analog voltmeter 0-500V	57,00
98009	COM	Voltmetric selector 4 positions 0-L1/L2-L2/L3-L1/L3 (0-R/S-S/T-R/T)	54,00
98010	AMP-25	Max 25A ammeter with direct insertion	57,00
98011*	AMP-50÷100A	Analog ammeter with transformer	88,00
98013*	COM-...A	Ammeter switch with 3 CTs	136,00
98015*	RLOG-....	Relay for automation logic	33,00
98016	RA	Generic alarm relay	33,00
98017	2GMA	Circuit for control from 2 external contacts (ON and STOP)	26,00
98018	CEV24	Control for solenoid valve 24V, controlled by float switch/pressure switch	41,00
98019	CSF 380	Phase sequence and phase loss control	82,00
98021	PSS	Start/stop button	45,00
98022	FE	Emergency stop button	37,00
98029	DT	Daily timer with toggles	110,00
98030	WT	Weekly digital timer	159,00
98031*	TMF	Multifunction timer for logic	89,00
98032	TPL	Pause/work timer	106,00
98033	CI24V	External control in 24Vac for activation/deactivation of load	34,00
98033A	CI230V	External control in 230Vac for activation/deactivation of load	34,00
98062	CP	Clean contact	34,00
98120	AMP-10	Max 10A ammeter with direct insertion	57,00

*Select the specific function of the component from the list on pages 76-77

minivar

CUSTOMIZATION

EASE OF INSTALLATION

VERSATILITY

The compact panel with **inverter start**

Inverter start in a minimalist panel. With Elentek's Minivar series, optimization takes precedence, from energy savings to performance.

Compactness made into an electrical panel.

COMPETITIVE

Optimized in every detail to achieve the goal

FUNCTIONAL

The supply voltages vary, even with a single-phase input, based on the requirements

SIMPLE

Simple, yet refined and minimalist to ensure top performance

COMPONENTS AND APPLICATIONS

The MINIVAR electrical panels feature a multifunction display, a manual or automatic selector, and a disconnect switch with a door locking system. A terminal block allows connection to the loads and external controls such as pressure switches, float switches, etc.

MINIVAR electrical panels are ideal for a variety of applications, including:

- Industrial water pumps, booster pumps
- Rainwater lifting pumps, irrigation pumps (submersible or surface)
- Submersible pumps, wastewater pumps

MAIN FEATURES

FUNCTIONS

- Low voltage command inputs and circuits;
- Normally open input for start command with selector in manual position;
- Normally open input for minimum level/pressure command;
- Automatic-0-Manual selector (stable manual):
  - Manual: operation at 50 Hz constant with pressure switch control;
  - Automatic: modulation operation with analog sensor; Analog input 4-20mA (0-10V on request);
- Frequency Inverter with:
  - Bright display with keyboard;
  - Internal ventilation;
  - "PID" regulation;
  - RS232/485 communication;
  - EMC filter for 2nd environment;
  - Maximum motor distance 50 meters;
- Protection for auxiliaries and motor with fuses;
- ABS box IP54;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing).

VERSIONS

- SINGLE-PHASE INPUT 230V - THREE-PHASE OUTPUT 230V
- THREE-PHASE INPUT 230V - THREE-PHASE OUTPUT 230V
- THREE-PHASE INPUT 400V - THREE-PHASE OUTPUT 400V

POWER SUPPLIES

- Power supply 1 ~ 50/60Hz 230V±10% - output 3 ~ 230V;
- Power supply 3 ~ 50/60Hz 230V±10% - output 3 ~ 230V;
- Power supply 3 ~ 50/60Hz 400V±10% - output 3 ~ 400V.

MODELS

minivar

		Voltage		Max power		Current	Box				W	Price
Code	Model	V-IN	V-OUT	Kw	Hp	Max	H	L	W	Material	Kg.	€
INGRESSO MONOFASE 230V - USCITA TRIFASE 230V												
01150	MINIVAR-MT230/0.37	1~230 V	3~230 V	0.37	0.5	2.4	320	240	190	ABS	3.5	771,00
01151	MINIVAR-MT230/0.75	1~230 V	3~230 V	0.75	1	4.7	320	240	190	ABS	3.5	818,00
01152	MINIVAR-MT230/1.1	1~230 V	3~230 V	1.1	1.5	6.7	320	240	190	ABS	3.5	1.009,00
01153	MINIVAR-MT230/1.5	1~230 V	3~230 V	1.5	2	7.5	320	240	190	ABS	4	1.089,00
01154	MINIVAR-MT230/2.2	1~230 V	3~230 V	2.2	3	9.8	320	240	190	ABS	4	1.157,00
INGRESSO TRIFASE 230V - USCITA TRIFASE 230V												
01155	MINIVAR-TT230/0.37	3~230 V	3~230 V	0.37	0.5	2.6	320	240	190	ABS	3.5	905,00
01156	MINIVAR-TT230/0.55	3~230 V	3~230 V	0.55	0.75	3.9	320	240	190	ABS	3.5	944,00
01157	MINIVAR-TT230/0.75	3~230 V	3~230 V	0.75	1	5.2	320	240	190	ABS	3.5	1.077,00
01158	MINIVAR-TT230/1.1	3~230 V	3~230 V	1.1	1.5	7.4	320	240	190	ABS	3.5	1.104,00
01159	MINIVAR-TT230/1.5	3~230 V	3~230 V	1.5	2	8.3	320	240	190	ABS	3.5	1.129,00
01160	MINIVAR-TT230/2.2	3~230 V	3~230 V	2.2	3	10.8	320	240	190	ABS	4	1.272,00
01161	MINIVAR-TT230/3	3~230 V	3~230 V	3	4	14.6	320	240	190	ABS	4	1.461,00
01162	MINIVAR-TT230/4	3~230 V	3~230 V	4	5.5	19.4	320	240	190	ABS	4	1.582,00
INGRESSO TRIFASE 400V - USCITA TRIFASE 400V												
01163	MINIVAR-TT400/0.75	3~400 V	3~400 V	0.75	1	2.6	320	240	190	ABS	3.5	982,00
01164	MINIVAR-TT400/1.1	3~400 V	3~400 V	1.1	1.5	3.6	320	240	190	ABS	3.5	1.075,00
01165	MINIVAR-TT400/1.5	3~400 V	3~400 V	1.5	2	4.5	320	240	190	ABS	3.5	1.103,00
01166	MINIVAR-TT400/2.2	3~400 V	3~400 V	2.2	3	6.2	320	240	190	ABS	3.5	1.234,00
01167	MINIVAR-TT400/3	3~400 V	3~400 V	3	4	8	320	240	190	ABS	3.5	1.316,00
01168	MINIVAR-TT400/4	3~400 V	3~400 V	4	5.5	9.7	320	240	190	ABS	3.5	1.442,00

ACCESSORIES

Code	Model	Description	€
98063	98063	Low pressure stop device	125,00
98006*	98006*	Level relay for automation	89,00
98007	98007	Kit of 3 level probes (electrodes)	34,00
98033	98033	External control in 24Vac for activation/deactivation of load	34,00
98033A	98033A	External control in 230Vac for activation/deactivation of load	34,00
98044	98044	Pressure sensor 0-10BAR 4-20mA	129,00
98045	98045	Pressure sensor 0-16BAR 4-20mA	129,00
98045_IP67	98045_IP67	Pressure sensor 0-16BAR 4-20mA IP67 VERSION	178,00
98046	98046	Pressure sensor 0-25BAR 4-20mA	114,00
98047	98047	Potentiometer for inverter frequency adjustment 0-50Hz	79,00
98048	98048	Activation of 2nd set-point via normally open clean contact	68,00

Filters and inductors for inverters on page 71

*Select the specific function of the component from the list on pages 76-77

NOTE:
For different executions, please contact our technical/commercial service.
Some optional combinations may require a change of the box.

vartek

CUSTOMIZATION

EASE OF INSTALLATION

VERSATILITY

The intuitive panel with **inverter start**

Frequency converters are equipped with various customized functions for controlling single-pump and multi-pump systems. These pump-specific functions help reduce operational and maintenance costs throughout the entire life cycle of the pumping system.

Frequency converters achieve these results through:

- Reduction of start-up stress for the pumping system
- Optimal speed based on current demand
- Energy consumption optimization in parallel pump systems (boosters)
- Prevention of cavitation and dry running of pumps
- Monitoring and protection of pump motors

INTUITIVE

After entering the basic parameters of the system, the system is already ready for use

VERSATILE

From single to triple electric pumps, including the dual version, the options are numerous and come with a wide range of accessories.

PRACTICAL

The terminal block makes the connections simple and secure.

vartek 1

- Normally open input for minimum level/ pressure command;
- Automatic-0-Manual selector (stable manual):
  - Manual: operation at a constant 50Hz with pressure switch control;
  - Automatic: operation in modulation with analog sensor.

vartek 2

- 2 Normally open inputs for minimum level/pressure command;
  2 Automatic-0-Manual selectors (stable manual):
  - Manual: operation at a constant 50Hz with pressure switch control;
  - Automatic: operation in modulation with analog sensor.
- Direct start for 2nd motor up to 7.5 kW, star-delta beyond that.
- AC3 contactors for 2nd motor;
- Resettable thermal relay for 2nd motor internally.

vartek 3

- 3 Normally open inputs for minimum level/pressure command;
  3 Automatic-0-Manual selectors (stable manual):
  - Manual: operation at a constant 50Hz with pressure switch control;
  - Automatic: operation in modulation with analog sensor.
- Direct start for 2nd and 3rd motors up to 7.5 kW, star-delta beyond that.
- AC3 contactors for 2nd and 3rd motors;
- Resettable thermal relay for 2nd and 3rd motors internally.

MAIN FEATURES

FUNCTIONS

- Low voltage command inputs and circuits;
- Normally open input for start command with selector in manual position;
- Analog input 4-20mA (0-10V on request);
- Frequency inverter with:
  - Multifunction LCD display
  - Internal ventilation
  - “PID” regulation
  - RS232/485 converter connection
  - EMC filter for 2nd environment
  - Maximum motor distance 50 meters
- Protection for auxiliaries and motor with fuses;
- Main disconnect switch with door lock;
- Forced ventilation kit;
- Metal enclosure, IP54;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing).

POWER SUPPLIES

- Power supply 3 ~ 50/60Hz 400V±10%

MODELS

vartek 1

		Voltage		Max power		Current	Box				W	Price
Code	Model	V-IN	V-OUT	Kw	Hp	Max	H	L	W	Material	Kg.	€
01120	VARTEK 1/1.1	3~400 V	3~400 V	1.1	1.5	3.6	500	410	240	Metallic	16	1.567,00
01121	VARTEK 1/1.5	3~400 V	3~400 V	1.5	2	4.5	500	410	240	Metallic	16	1.616,00
01122	VARTEK 1/2.2	3~400 V	3~400 V	2.2	3	6.2	500	410	240	Metallic	16	1.661,00
01123	VERTEK 1/3	3~400 V	3~400 V	3	4	8	500	410	240	Metallic	16	1.748,00
01124	VARTEK 1/4	3~400 V	3~400 V	4	5.5	9.7	500	410	240	Metallic	16	1.834,00
01125	VARTEK 1/5.5	3~400 V	3~400 V	5.5	7.7	13.8	500	410	240	Metallic	18	2.345,00
01126	VARTEK 1/7.5	3~400 V	3~400 V	7.5	10	17.2	500	410	240	Metallic	18	2.651,00
01127	VARTEK 1/11	3~400 V	3~400 V	11	15	25.4	500	410	240	Metallic	20	3.208,00
01128	VARTEK 1/15	3~400 V	3~400 V	15	20	34.1	700	510	290	Metallic	25	3.756,00
01129	VARTEK 1/18.5	3~400 V	3~400 V	18.5	25	41.8	700	510	290	Metallic	25	4.310,00
01130	VARTEK 1/22	3~400 V	3~400 V	22	30	48.4	700	510	290	Metallic	30	5.019,00

vartek 2

			Max power		Current	Box				W	Price
Code	Model	Voltage	Kw	Hp	Max	H	L	W	Material	Kg.	€
02120	VARTEK2/1.1	400	1.1	1.5	3.6	500	400	230	Metallic	18	1.680,00
02121	VARTEK2/1.5	400	1.5	2	4.5	500	400	230	Metallic	18	1.760,00
02122	VARTEK2/2.2	400	2.2	3	6.2	500	400	230	Metallic	18	1.863,00
02123	VARTEK2/3	400	3	4	8	500	400	230	Metallic	18	2.111,00
02124	VARTEK2/4	400	4	5.5	9.7	500	400	230	Metallic	18	2.313,00
02125	VARTEK2/5.5	400	5.5	7.5	13.8	500	400	230	Metallic	18	2.789,00
02126	VARTEK2/7.5	400	7.5	10	17.2	700	500	280	Metallic	27	3.102,00
02127	VARTEK2/11	400	11	15	25.4	700	500	280	Metallic	27	4.032,00
02128	VARTEK2/15	400	15	20	34.1	800	600	330	Metallic	29	4.603,00
02129	VARTEK2/18.5	400	18.5	25	41.8	800	600	330	Metallic	31	5.599,00
02130	VARTEK2/22	400	22	30	48.4	800	600	330	Metallic	33	5.599,00

vartek 3

			Max power		Current	Box				W	Price
Code	Model	Voltage	Kw	Hp	Max	H	L	W	Material	Kg.	€
03120	VARTEK 3/1.1	400	1.1	1.5	3.6	700	500	280	Metallic	22	2.629,00
03121	VARTEK 3/1.5	400	1.5	2	4.5	700	500	280	Metallic	22	2.655,00
03122	VARTEK 3/2.2	400	2.2	3	6.2	700	500	280	Metallic	22	2.763,00
03123	VARTEK 3/3	400	3	4	8	700	500	280	Metallic	22	2.909,00
03124	VARTEK 3/4	400	4	5.5	9.7	700	500	280	Metallic	22	3.054,00
03125	VARTEK 3/5.5	400	5.5	7.5	13.8	700	500	280	Metallic	22	3.719,00
03126	VARTEK 3/7.5	400	7.5	10	17.2	700	500	280	Metallic	30	4.116,00
03127	VARTEK 3/11	400	11	15	25.4	700	500	280	Metallic	30	5.180,00
03128	VARTEK 3/15	400	15	20	34.1	800	600	330	Metallic	35	6.003,00
03129	VARTEK 3/18.5	400	18.5	25	41.8	800	600	330	Metallic	35	6.773,00
03130	VARTEK 3/22	400	22	30	48.4	800	600	330	Metallic	35	7.569,00

ACCESSORIES

Code	Model	Description	€
98063	DA-B PRESS	Low pressure stop device	125,00
98006*	RL-...	Level relay for automation	89,00
98007	K3SL	Kit of 3 level probes (electrodes)	34,00
98014*	CON-O...V	Analog hour meter timer	44,00
98015*	RLOG-...	Relay for automation logic	33,00
98016	RA	Generic alarm relay	33,00
98021	PSS	Start/stop button	45,00
98022	FE	Emergency stop button	37,00
98029	DT	Daily timer with toggles	110,00
98030	WT	Weekly digital timer	159,00
98031*	TMF	Multifunction timer for logic	89,00
98032	TPL	Pause/work timer	106,00
98033	CI24V	External control in 24Vac for activation/deactivation of load	34,00
98033A	CI230	External control in 230Vac for activation/deactivation of load	34,00
98062	CP	Clean contact	34,00
98044	TP010B	Pressure sensor 0-10BAR 4-20mA	129,00
98045	TP016B	Pressure sensor 0-16BAR 4-20mA	129,00
98045_IP67	TP016B-IP67	Pressure sensor 0-16BAR 4-20mA IP67 VERSION	178,00
98046	TP025B	Pressure sensor 0-25BAR 4-20mA	114,00
98047	POT	Potentiometer for inverter frequency adjustment 0-50Hz	79,00
98048	A2SP	Activation of 2nd set-point via normally open clean contact	68,00
98049	RPI2P-4	Inverter pump rotation up to 4kW (for 2 pumps)	664,00
98050	RPI2P-7.5	Inverter pump rotation up to 7.5kW (for 2 pumps)	729,00
98051	RPI2P-11	Inverter pump rotation up to 11kW (for 2 pumps)	1.007,00
98052	RPI3P-4	Inverter pump rotation up to 4kW (for 3 pumps)	1.044,00
98053	RPI3P-7.5	Inverter pump rotation up to 7.5kW (for 3 pumps)	1.164,00
98054	RPI3P-11	Inverter pump rotation up to 11kW (for 3 pumps)	1.474,00
98055	BPI-5.5	Inverter fault bypass with direct start from 0.37kW to 5.5kW	304,00
98056	BPI-11	Inverter fault bypass with direct start from 7.5kW to 11kW	444,00
98057	BPI-18.5	Inverter fault bypass with direct start from 15kW to 18.5kW	641,00
98058	BPI-30	Inverter fault bypass with direct start from 22kW to 30kW	983,00
98059	BPI-55	Inverter fault bypass with direct start from 37kW to 55kW	1.518,00
Filters and inductors for inverters on page 71			

*Select the specific function of the component from the list on pages 76-77

NOTE:
For different executions, please contact our technical/commercial service.
Some optional combinations may require a change of the box.

vartek plus

CUSTOMIZATION

EASE OF INSTALLATION

VERSATILITY

The high-performing panel with **Inverter start+**

Optimize energy consumption, eliminate mechanical stresses, prevent annoying water hammer, and control everything with a display. All of this is now possible with Vartek Plus, the Elentek panel with top-tier performance.

COMPLETE

With the large display and integrated manual, every solution is within reach of the parameter.

EFFICIENT

The highest efficiency you can achieve with a panel, guaranteeing top performance.

HIGH-PERFORMING

The most complex situations are solved with the integrated EMC filters.

vartek plus 1

- Normally open input for start command;
- Normally open input for minimum level/pressure command;
- Automatic-0-Manual selector (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Green LED for motor active;
- Red LED for motor overload alarm;
- AC3 star-delta line contactors;
- Resettable thermal overload relay internally;
- Adjustable star-delta timer.

vartek plus 2

- 2 Normally open inputs for start command;
- 2 Normally open inputs for minimum level/pressure command;
- 2 Automatic-0-Manual selectors (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- 2 Green LEDs for motor active;
- 2 Red LEDs for motor overload alarm;
- 2 AC3 star-delta line contactors;
- 2 Resettable thermal overload relays internally;
- 2 Adjustable star-delta timers.

vartek plus 3

- 3 Normally open inputs for start command;
- 3 Normally open inputs for minimum level/pressure command;
- 3 Automatic-0-Manual selectors (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- 3 Green LEDs for motor active;
- 3 Red LEDs for motor overload alarm;
- 3 AC3 star-delta line contactors;
- 3 Resettable thermal overload relays internally;
- 3 Adjustable star-delta timers.

MAIN FEATURES

FUNCTIONS

- Low voltage command inputs and circuits;
- Normally open input for start command with selector in manual position;
- Normally open input for minimum level/pressure command;
- Analog input 4-20mA (0-10V on request);
- Automatic-0-Manual selector (stable manual)
  - Manual: operation at a constant 50Hz with pressure switch control;
  - Automatic: operation in modulation with analog sensor.
- Frequency inverter with:
  - Multifunction LCD display
  - Internal ventilation
  - “PID” regulation
  - RS232/485 converter connection
  - EMC filter for 1st and 2nd environment
  - Maximum motor distance up to 5.5 kW: 100 meters
  - Maximum motor distance up to 37 kW: 200 meters
  - Maximum motor distance up to 220 kW: 300 meters
- Protection for auxiliaries and motor with fuses;
- Main disconnect switch with door lock;
- Forced ventilation kit;
- Metal enclosure, IP54;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing).

POWER SUPPLIES

- Power supply 3 ~ 50/60Hz 400V±10%

MODELS

vartek plus 1

		Voltage		Max power		Current	Box				W	Price
Code	Model	V-IN	V-OUT	Kw	Hp	Max	H	L	W	Material	Kg.	€
01120P	VARTEK P. 1/1.1	3~400 V	3~400 V	1.1	1.5	3.3	700	510	290	Metallic	16	2.285,00
01121P	VARTEK P. 1/1.5	3~400 V	3~400 V	1.5	2	4.0	700	510	290	Metallic	16	2.378,00
01122P	VARTEKP. 1/2.2	3~400 V	3~400 V	2.2	3	5.6	700	510	290	Metallic	16	2.445,00
01123P	VERTEK P. 1/3	3~400 V	3~400 V	3	4	7.2	700	510	290	Metallic	16	2.724,00
01124P	VARTEK P. 1/4	3~400 V	3~400 V	4	5.5	9.4	700	510	290	Metallic	16	2.802,00
01125P	VARTEK P. 1/5.5	3~400 V	3~400 V	5.5	7.7	12.6	700	510	290	Metallic	18	3.201,00
01126P	VARTEK P. 1/7.5	3~400 V	3~400 V	7.5	10	17	700	510	290	Metallic	18	3.625,00
01127P	VARTEK P. 1/11	3~400 V	3~400 V	11	15	25	700	510	290	Metallic	20	3.970,00
01128P	VARTEK P. 1/15	3~400 V	3~400 V	15	20	32	800	610	290	Metallic	25	4.635,00
01129P	VARTEK P. 1/18.5	3~400 V	3~400 V	18.5	25	38	800	610	340	Metallic	25	5.419,00
01130P	VARTEK P. 1/22	3~400 V	3~400 V	22	30	45	800	610	340	Metallic	30	5.911,00
01131	VARTEK P. 1/30	3~400 V	3~400 V	30	40	62	1000	810	340	Metallic	50	7.013,00
01132	VARTEK P. 1/37	3~400 V	3~400 V	37	50	73	1000	810	340	Metallic	50	8.432,00
01133	VARTEK P. 1/45	3~400 V	3~400 V	45	60	88	1000	810	340	Metallic	55	11.686,00
01134	VARTEK P. 1/55	3~400 V	3~400 V	55	75	106	1200	1010	340	Metallic	80	13.544,00
01135	VARTEK P. 1/75	3~400 V	3~400 V	75	100	145	1800	1010	580	Metallic	85	16.799,00
01136	VARTEK P. 1/90	3~400 V	3~400 V	90	125	169	1800	1010	580	Metallic	90	19.254,00
01137	VARTEK P. 1/110	3~400 V	3~400 V	110	150	206	1800	1010	580	Metallic	100	24.567,00
01138	VARTEK P. 1/132	3~400 V	3~400 V	132	180	246	2000	1610	580	Metallic	150	27.886,00
01139	VARTEK P. 1/160	3~400 V	3~400 V	160	220	293	2000	1610	580	Metallic	180	33.861,00

vartek plus 2

		Voltage		Max power		Current	Box				W	Price
Code	Model	V-IN	V-OUT	Kw	Hp	Max	H	L	W	Material	Kg.	€
02131	VARTEK P. 2/30	3~400 V	3~400 V	30	40	62	1000	810	340	Metallic	52	8.367,00
02132	VARTEK P. 2/37	3~400 V	3~400 V	37	50	73	1000	810	340	Metallic	70	9.959,00
02133	VARTEK P. 2/45	3~400 V	3~400 V	45	60	88	1000	810	340	Metallic	90	13.544,00
02134	VARTEK P. 2/55	3~400 V	3~400 V	55	75	106	1200	810	340	Metallic	100	15.936,00
02135	VARTEK P. 2/75	3~400 V	3~400 V	75	100	145	1800	1010	580	Metallic	110	18.988,00
02136	VARTEK P. 2/90	3~400 V	3~400 V	90	125	169	1800	1010	580	Metallic	115	22.042,00
02137	VARTEK P. 2/110	3~400 V	3~400 V	110	150	206	1800	1010	580	Metallic	120	28.018,00
02138	VARTEK P. 2/132	3~400 V	3~400 V	132	180	246	2000	1610	580	Metallic	150	30.940,00
02139	VARTEK P. 2/160	3~400 V	3~400 V	160	220	293	2000	1610	580	Metallic	160	37.179,00

vartek plus 3

		Tensione		Potenza massima cad.		Corrente	Box				Peso	Prezzo
Code	Model	V-IN	V-OUT	Kw	Hp	Max	H	L	W	Material	Kg.	€
03131	VARTEK P. 3/30	3~400 V	3~400 V	30	40	62	1000	810	340	Metallic	40	9.560,00
03132	VARTEK P. 3/37	3~400 V	3~400 V	37	50	73	1000	810	340	Metallic	40	10.956,00
03133	VARTEK P. 3/45	3~400 V	3~400 V	45	60	88	1800	1010	580	Metallic	100	15.138,00
03134	VARTEK P. 3/55	3~400 V	3~400 V	55	75	106	1800	1010	580	Metallic	120	17.926,00
03135	VARTEK P. 3/75	3~400 V	3~400 V	75	100	145	1800	1010	580	Metallic	130	19.920,00
03136	VARTEK P. 3/90	3~400 V	3~400 V	90	125	169	2000	1610	580	Metallic	145	24.567,00
03137	VARTEK P. 3/110	3~400 V	3~400 V	110	150	206	2000	1610	580	Metallic	150	30.010,00
03138	VARTEK P. 3/132	3~400 V	3~400 V	132	180	246	2000	1610	580	Metallic	190	34.174,00
03139	VARTEK P. 3/160	3~400 V	3~400 V	160	220	293	2000	1610	580	Metallic	210	41.289,00

ACCESSORIES

Code	Model	Description	€
98006*	RL-...	Level relay for automation	89,00
98007	K3SL	Kit of 3 level probes (electrodes)	34,00
98015*	RLOG-...	Relay for automation logic	33,00
98016	RA	Generic alarm relay	33,00
98021	PSS	Start/stop button	45,00
98022	FE	Emergency stop button	37,00
98029	DT	Daily timer with toggles	110,00
98030	WT	Weekly digital timer	159,00
98031*	TMF	Multifunction timer for logic	89,00
98032	TPL	Pause/work timer	106,00
98033	CI24V	External control in 24Vac for activation/deactivation of load	34,00
98033A	CI230	External control in 230Vac for activation/deactivation of load	34,00
98062	CP	Clean contact	34,00
98044	TP010B	Pressure sensor 0-10BAR 4-20mA	129,00
98045	TP016B	Pressure sensor 0-16BAR 4-20mA	129,00
98045_IP67	TP016B-IP67	Pressure sensor 0-16BAR 4-20mA IP67 VERSION	178,00
98046	TP025B	Pressure sensor 0-25BAR 4-20mA	114,00
98047	POT	Potentiometer for inverter frequency adjustment 0-50Hz	79,00
98048	A2SP	Activation of 2nd set-point via normally open clean contact	68,00
98049	RPI2P-4	Inverter pump rotation up to 4kW (for 2 pumps)	664,00
98050	RPI2P-7.5	Inverter pump rotation up to 7.5kW (for 2 pumps)	729,00
98051	RPI2P-11	Inverter pump rotation up to 11kW (for 2 pumps)	1.007,00
98052	RPI3P-4	Inverter pump rotation up to 4kW (for 3 pumps)	1.044,00
98053	RPI3P-7.5	Inverter pump rotation up to 7.5kW (for 3 pumps)	1.164,00
98054	RPI3P-11	Inverter pump rotation up to 11kW (for 3 pumps)	1.474,00
98055	BPI-5.5	Inverter fault bypass with direct start from 0.37kW to 5.5kW	304,00
98056	BPI-11	Inverter fault bypass with direct start from 7.5kW to 11kW	444,00
98057	BPI-18.5	Inverter fault bypass with direct start from 15kW to 18.5kW	641,00
98058	BPI-30	Inverter fault bypass with direct start from 22kW to 30kW	983,00
98059	BPI-55	Inverter fault bypass with direct start from 37kW to 55kW	1518,00
Filters and inductors for inverters on page 71			

*Select the specific function of the component from the list on pages 76-77

NOTE:
For different executions, please contact our technical/commercial service.
Some optional combinations may require a change of the box.

static

CUSTOMIZATION

EASE OF INSTALLATION

VERSATILITY

The simple panel with **soft-starter start**

The electrical panel with soft starter and trim adjustment, easy to use and adjust.

Simple and intuitive adjustments provide maximum control, while the gradual motor start reduces mechanical and hydraulic stresses.

ACCURATE

Reduces mechanical stresses on the motor and water hammer

FUNCTIONAL

Complete start-up solution with overload and short-circuit protection

ADJUSTABLE

Trimmer for easy adjustment of ramp settings and motor torque

STATIC SERIES

The entire STATIC line is offered as standard with a metallic IP54 enclosure. Additionally, various accessories and options are available, including double-door boxes and fiberglass enclosures

SOFT-STARTER START

A soft starter for pump start-up mainly consists of two parts: a power unit and a control and monitoring unit.

The typical connection scheme used is the “in-line” configuration. Additionally, when the soft starter does not include internal thermal protection, the use of an external thermal relay installed upstream of the bypass node is required.

MAIN FEATURES

FUNCTIONS

- Low voltage command inputs and circuits;
- Normally open input for start command;
- Normally open input for minimum level command;
- Automatic-0-Manual selector (stable):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Blue LED for power supply presence;
- Green LED for motor active;
- Red LED for motor overload;
- Soft starter with the following control functions:
  - Integrated by-pass;
  - Phase control (R-S);
  - Start ramp trimmer (0...20 s);
  - Stop ramp trimmer (0...20 s);
  - Initial voltage trimmer (40...70 %);
  - Fieldbus communication;
- Resettable thermal overload relay internally;
- Protection for auxiliaries and motor with fuses;
- Main disconnect switch with door lock;
- Metal enclosure IP54;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing).

POWER SUPPLIES

- Power supply 3 ~ 50/60Hz 400V±10%


MARCIA
(RUNNING)
I ON

MODELS

static

			Max power.		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
01090	STATIC 1/2.2	3~400 V	2.2	3	5,7-6,8	6,8	400	300	240	Metallic	15	1.027,00
01091	STATIC 1/5.5	3~400 V	5.5	7.5	10-12	12	400	300	240	Metallic	16	1.103,00
01092	STATIC 1/7.5	3~400 V	7.5	10	13-16	16	400	300	240	Metallic	18	1.200,00
01093	STATIC 1/11	3~400 V	11	15	20-24	24	400	300	240	Metallic	22	1.234,00
010931	STATIC 1/15	3~400 V	15	20	24-29	29	400	300	240	Metallic	24	1.542,00
01094	STATIC 1/18.5	3~400 V	18.5	25	35-37	37	500	400	240	Metallic	27	1.950,00
01095	STATIC 1/22	3~400 V	22	30	36-45	45	500	400	240	Metallic	30	2.141,00

ACCESSORIES

Code	Model	Description	€
98003*	AA-...V	90 dB acoustic alarm	57,00
98004*	LL-...V	Flashing light alarm	97,00
98005	DBT	Alarm device with backup battery	146,00
98006*	RL-...	Level relay for automation	89,00
98007	K3SL	Kit of 3 level probes (electrodes)	34,00
98008	VOLT	Analog voltmeter 0-500V	57,00
98009	COM	Voltmetric selector 4 positions 0-L1/L2-L2/L3-L1/L3 (0-R/S-S/T-R/T)	54,00
98010	AMP-25	Max 25A ammeter with direct insertion	57,00
98011*	AMP-50÷100A	Analog ammeter with transformer	88,00
98013*	COM-...A	Ammeter switch with 3 CTs	136,00
98015*	RLOG-....	Relay for automation logic	33,00
98016	RA	Generic alarm relay	33,00
98017	2GMA	Circuit for control from 2 external contacts (ON and STOP)	26,00
98018	CEV24	Control for solenoid valve 24V, controlled by float switch/pressure switch	41,00
98019	CSF 380	Phase sequence and phase loss control	82,00
98020	CMMT	Phase sequence, phase loss, min and max voltage, phase reversal control	204,00
98021	PSS	Start/stop button	45,00
98022	FE	Emergency stop button	37,00
98029	DT	Daily timer with toggles	110,00
98030	WT	Weekly digital timer	159,00
98031*	TMF	Multifunction timer for logic	89,00
98032	TPL	Pause/work timer	106,00
98033	CI24V	External control in 24Vac for activation/deactivation of load	34,00
98033A	CI230V	External control in 230Vac for activation/deactivation of load	34,00
98062	CP	Clean contact	34,00
98120	AMP-10	Max 10A ammeter with direct insertion	57,00

*Select the specific function of the component from the list on pages 76-77

static plus

CUSTOMIZATION

EASE OF INSTALLATION

VERSATILITY

The accurate panel with **soft-starter start+**

A simple and intuitive display to configure and view parameters. High performance to eliminate mechanical stresses and water hammer. Static Plus is the Elentek panel that allows for safe management of a wide range of situations.

ADVANCED

Includes the most important protections for managing various situations.

HIGH-PERFORMING

Torque control and current limit to eliminate water hammer.

ACCURATE

The backlit icon keyboard makes visualization and configuration easier.

STATIC SERIES

The entire STATIC line is offered as standard with a metallic IP54 enclosure. Additionally, various accessories and options are available, including double-door boxes and fiberglass enclosures

SOFT-STARTER START

A soft starter for pump start-up mainly consists of two parts: a power unit and a control and monitoring unit.

The typical connection scheme used is the “in-line” configuration. Additionally, when the soft starter does not include internal thermal protection, the use of an external thermal relay installed upstream of the bypass node is required.

MAIN FEATURES

FUNCTIONS

- Low voltage command inputs and circuits;
- Normally open input for start command;
- Normally open input for minimum command;
- Soft-starter with advanced control functions:
  - Bright display with keyboard;
  - Integrated by-pass;
  - Phase control (R-S);
  - Motor nominal current;
  - Start ramp time (1...30 s);
  - Stop ramp time (Off, 1...30 s);
  - Initial/final voltage (30...70 %);
  - Current limit;
  - Torque control during start ramp;
  - Torque control during stop ramp;
  - Kick start;
  - Electronic motor overload protection;
  - Low load protection;
  - Rotor lock protection;
  - Fieldbus communication.
- Automatic-0-Manual selector (stable manual);
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Blue LED for power supply presence;
- Green LED for motor active;
- Red LED for motor overload;
- Protection for auxiliaries and motor with fuses;
- Main disconnect switch with door lock;
- Forced ventilation kit;
- Metal enclosure IP54;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing).

POWER SUPPLIES

- Power supply 3 ~ 50/60Hz 400V±10%

Completely customizable

MODELS

static plus

			Max power.		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
01100	STATIC PLUS 1/7.5	3~400 V	7.5	10	5.4-18	18	600	410	240	Metallic	18	1.663,00
01101	STATIC PLUS 1/11	3~400 V	11	15	7.5-25	25	600	410	240	Metallic	22	1.764,00
01102	STATIC PLUS 1/15	3~400 V	15	20	9-30	30	600	410	240	Metallic	25	1.951,00
01103	STATIC PLUS 1/18.5	3~400 V	18.5	25	11.1-37	37	600	410	240	Metallic	27	2.241,00
01104	STATIC PLUS 1/22	3~400 V	22	30	13.5-45	45	600	410	240	Metallic	30	2.454,00
01105	STATIC PLUS 1/30	3~400 V	30	40	18-60	60	600	410	240	Metallic	35	2.731,00
01106	STATIC PLUS 1/37	3~400 V	37	50	21.6-72	72	600	410	240	Metallic	45	3.277,00
01107	STATIC PLUS 1/45	3~400 V	45	60	25.5-85	85	600	410	240	Metallic	45	3.513,00
01108	STATIC PLUS 1/55	3~400 V	55	75	31.5-105	105	600	410	240	Metallic	47	3.720,00
01109	STATIC PLUS 1/59	3~400 V	59	80	42.6-125	125	800	610	380	Metallic	58	4.147,00
01110	STATIC PLUS 1/75	3~400 V	75	100	42.6-142	142	800	610	380	Metallic	66	4.555,00
01111	STATIC PLUS 1/90	3~400 V	90	125	51-170	170	800	610	380	Metallic	72	5.802,00
01112	STATIC PLUS 1/110	3~400 V	110	150	63-210	210	1000	810	380	Metallic	85	7.276,00
01113	STATIC PLUS 1/132	3~400 V	132	180	75-250	250	1000	810	380	Metallic	170	7.785,00
01114	STATIC PLUS 1/162	3~400 V	162	220	90-300	300	1000	810	380	Metallic	220	8.475,00
01115	STATIC PLUS 1/220	3~400 V	220	300	111-370	370	1200	810	380	Metallic	350	10.089,00

ACCESSORIES

Code	Model	Description	€
98003*	AA-...V	90 dB acoustic alarm	57,00
98004*	LL-...V	Flashing light alarm	97,00
98005	DBT	Alarm device with backup battery	146,00
98006*	RL-...	Level relay for automation	89,00
98007	K3SL	Kit of 3 level probes (electrodes)	34,00
98008	VOLT	Analog voltmeter 0-500V	57,00
98009	COM	Voltmetric selector 4 positions 0-L1/L2-L2/L3-L1/L3 (0-R/S-S/T-R/T)	54,00
98010	AMP-25	Max 25A ammeter with direct insertion	57,00
98011*	AMP-50÷100A	Analog ammeter with transformer	88,00
98013*	COM-...A	Ammeter switch with 3 CTs	136,00
98015*	RLOG-....	Relay for automation logic	33,00
98016	RA	Generic alarm relay	33,00
98017	2GMA	Circuit for control from 2 external contacts (ON and STOP)	26,00
98018	CEV24	Control for solenoid valve 24V, controlled by float switch/pressure switch	41,00
98019	CSF 380	Phase sequence and phase loss control	82,00
98020	CMMT	Phase sequence, phase loss, min and max voltage, phase reversal control	204,00
98021	PSS	Start/stop button	45,00
98022	FE	Emergency stop button	37,00
98029	DT	Daily timer with toggles	110,00
98030	WT	Weekly digital timer	159,00
98031*	TMF	Multifunction timer for logic	89,00
98032	TPL	Pause/work timer	106,00
98033	CI24V	External control in 24Vac for activation/deactivation of load	34,00
98033A	CI230V	External control in 230Vac for activation/deactivation of load	34,00
98062	CP	Clean contact	34,00

*Select the specific function of the component from the list on pages 76-77

jockey

SIMPLICITY

COMPACTNESS

COST-EFFECTIVENESS

The fire-fighting panel **for jockey pumps**

Electromechanical panel for jockey pumps in fire-fighting systems compliant with the European standard UNI EN 12845.

The European standard UNI EN 12845 deals with fixed fire-fighting installations and the design, installation, and maintenance of automatic sprinkler systems.

It primarily provides rules and guidelines for the sizing of fire-fighting systems and the types of pumps, prescribing general requirements as well as specific ones for particular pumps.

Each pump must be installed with its own control panel in the same room, except for submersible pumps.

SIMPLE

The first step for the safety of your building.

MAIN FEATURES

FUNCTIONS

- Low voltage command inputs and circuits;
- Normally open input for start command;
- Normally open input for minimum level command;
- Automatic-0-Manual selector (stable manual):
  - Manual: direct operation without controls;
  - Automatic: operation with control from minimum and start inputs;
- Blue LED for power supply presence;
- Green LED for motor active;
- Red LED for motor overload alarm;
- AC3 line contactor;
- Resettable thermal overload relay internally;
- Protection for auxiliaries and motor with fuses;
- Main disconnect switch with door lock;
- Metal enclosure IP55 (ABS version P);
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing).

POWER SUPPLIES

- Power supply 3 ~ 50/60Hz 400V±10%

MODELS

jockey - metallic box

			Max power.		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
01400	JOCKEY-EN 0.55	3~400 V	0.55	0.75	1.7-2.3	2.3	400	300	240	Metallic	5	490,00
01402	JOCKEY-EN 1.1	3~400 V	1.1	1.5	2.3-3.1	3.1	400	300	240	Metallic	5	490,00
01403	JOCKEY-EN 1.5	3~400 V	1.5	2	3.1-4.2	4.2	400	300	240	Metallic	5	490,00
01404	JOCKEY-EN 2.2	3~400 V	2.2	3	5.7-7.6	7.6	400	300	240	Metallic	5	490,00
01405	JOCKEY-EN 4	3~400 V	4	5.5	7.6-9	9	400	300	240	Metallic	5	490,00
01406	JOCKEY-EN 5.5	3~400 V	5.5	7.5	10-12	12	400	300	240	Metallic	5	503,00
01407	JOCKEY-EN 7.5	3~400 V	7.5	10	13-16	16	400	300	240	Metallic	5	524,00
01408	JOCKEY-EN 9.2	3~400 V	9.2	12.5	16-20	20	400	300	240	Metallic	7	536,00
01409	JOCKEY-EN 11	3~400 V	11	15	20-24	24	400	300	240	Metallic	7	544,00
01410	JOCKEY-EN 15	3~400 V	15	20	29-32	32	400	300	240	Metallic	7	558,00

jockey - ABS box

			Max power.		Current		Box				W	Price
Code	Model	Voltage	Kw	Hp	Range	Max	H	L	W	Material	Kg.	€
01400P	JOCKEY-EN-P/0.55	3~400	0.55	1.15	1.7-2.3	2.3	320	240	190	ABS	4	339,00
01402P	JOCKEY-EN-P/1.1	3~400	1.1	1.5	2.3-3.1	3.1	320	240	190	ABS	4	339,00
01403P	JOCKEY-EN-P/1.5	3~400	1.5	2	3.1-4.2	4.2	320	240	190	ABS	4	301,00
01404P	JOCKEY-EN-P/2.2	3~400	2.2	3	5.7-7.6	7.6	320	240	190	ABS	4	339,00
01405P	JOCKEY-EN-P/4	3~400	4	5.5	7.6-9	9	320	240	190	ABS	4	339,00
01406P	JOCKEY-EN-P/5.5	3~400	5.5	7.5	10-12	12	320	240	190	ABS	4,5	350,00
01407P	JOCKEY-EN-P/7.5	3~400	7.5	10	13-16	16	320	240	190	ABS	4,5	361,00
01408P	JOCKEY-EN-P/9.2	3~400	9.2	12.5	16-20	20	320	240	190	ABS	4,5	386,00
01409P	JOCKEY-EN-P/11	3~400	11	15	20-24	24	320	240	190	ABS	4,5	386,00

panels-EN
For main pumps

SIMPLICITY

●●●○○

EASE OF INSTALLATION

●●●●○

VERSATILITY

●●●●○

The fire-fighting panel **for main pumps**

Electrical panels for main electric pumps with Direct Start, Star-Delta start, or start with stator reactance according to the European standard **EN12845**.

PROTECTED

Made of plastic or metal enclosure with a minimum protection rating of **IP55**

SAFE

It integrates indicator lights, a manual or automatic selector, and a disconnect switch with a door locking system

MAXIMUM CONTROL

Connected to the loads and external controls via a terminal block.

MAIN FEATURES

FUNCTIONS

- Low voltage command inputs and circuits;
- 2 Normally closed inputs for start pressure switches;
- Input for start-up tank command; Input for signal from pressure switch (system under pressure/pump off);
- Key selector Auto-0-Emergency;
- Start/Stop buttons for manual test;
- LED test button for control panel;
- LCD display for showing network Voltage and Current on 3 phases, Hz, Var, Watt, Volt-Ampere, Power Factor (Cos-Φ), Total and Partial hour meter, event history;
- Display with 5 languages: Italian, English, French, Spanish, German;
- Indicator LEDs;
- Option for operation according to UNI10779;
- Adjustable delay and alarm functions;
- Event history; Adjustable timer from control panel;
- Alarm outputs with clean contacts for: electrical power availability, electric pump start request, pump running, failed start;
- AC3 contactors;
- RS-485 serial connection for remote signaling;
- Protection for auxiliaries and motor with fuses;
- Main disconnect switch with door lock;
- Metal enclosure IP55;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing).

POWER SUPPLIES

- Power supply 3 ~ 50/60Hz 400V±10%

VERSIONS

- DIRECTO-EN
- STARDELTA-EN
- REACTO-EN

MODELS

directo-EN

			Max power		Current	Box				Peso	Price
Code	Model	Voltage	Kw	Hp	Max	H	L	W	Material	Kg.	€
01423	DIRECTO-EN/4	3~400 V	4	5.5	9	500	400	240	Metallic	15	1.239,00
01424	DIRECTO-EN/5.5	3~400 V	5.5	7.5	12	500	400	240	Metallic	15	1.247,00
01425	DIRECTO-EN/7.5	3~400 V	7.5	10	16	500	400	240	Metallic	15	1.257,00
01426	DIRECTO-EN/9.2	3~400 V	9.2	12.5	20	500	400	240	Metallic	17	1.271,00
01427	DIRECTO-EN/11	3~400 V	11	15	25	500	400	240	Metallic	17	1.290,00
01428	DIRECTO-EN/15	3~400 V	15	20	32	500	400	240	Metallic	20	1.378,00
01429	DIRECTO-EN/18.5	3~400 V	18.5	25	40	600	400	240	Metallic	22	1.504,00
01430	DIRECTO-EN/22	3~400 V	22	30	50	600	400	240	Metallic	24	1.541,00

stardelta-EN

			Max power		Current	Box				Peso	Price
Code	Model	Voltage	Kw	Hp	Max	H	L	W	Material	Kg.	€
01441	STARDELTA-EN/5.5	3~400 V	5.5	7.5	15	500	400	240	Metallic	14	1.322,00
01442	STARDELTA-EN/7.5	3~400 V	7.5	10	17	500	400	240	Metallic	15	1.322,00
01443	STARDELTA-EN/11	3~400 V	11	15	24	600	400	240	Metallic	17	1.333,00
01444	STARDELTA-EN/15	3~400 V	15	20	31	600	500	290	Metallic	18	1.454,00
01445	STARDELTA-EN/18.5	3~400 V	18.5	25	38	600	400	240	Metallic	18	1.619,00
01446	STARDELTA-EN/22	3~400 V	22	30	50	600	400	240	Metallic	18	1.731,00
01447	STARDELTA-EN/30	3~400 V	30	40	60	700	500	240	Metallic	32	1.947,00
01448	STARDELTA-EN/37	3~400 V	37	50	75	700	500	240	Metallic	36	2.085,00
01449	STARDELTA-EN/45	3~400 V	45	60	100	700	500	240	Metallic	36	2.312,00
01450	STARDELTA-EN/55	3~400 V	55	75	124	700	500	240	Metallic	46	2.552,00
01451	STARDELTA-EN/75	3~400 V	75	100	140	800	600	380	Metallic	46	2.768,00
01452	STARDELTA-EN/90	3-400 V	90	125	160	800	600	380	Metallic	75	3.285,00
01453	STARDELTA-EN/110	3~400 V	110	150	200	900	800	380	Metallic	75	4.044,00
01454	STARDELTA-EN/132	3~400 V	132	180	241	1000	800	340	Metallic	80	4.422,00

reacto-EN

			Max power		Current	Box				Peso	Price
Code	Model	Voltage	Kw	Hp	Max	H	L	W	Material	Kg.	€
01461	REACTO-EN/5.5	3~400 V	5.5	7.5	16	500	400	240	Metallic	21	1.729,00
01462	REACTO-EN/7.5	3~400 V	7.5	10	20	500	400	240	Metallic	23	1.742,00
01463	REACTO-EN/11	3~400 V	11	15	32	500	400	240	Metallic	25	1.809,00
01464	REACTO-EN/15	3~400 V	15	20	38	600	400	240	Metallic	38	2.065,00
01465	REACTO-EN/18.5	3~400 V	18.5	25	50	700	500	240	Metallic	38	2.148,00
01466	REACTO-EN/22	3~400 V	22	30	60	700	500	240	Metallic	43	2.322,00
01467	REACTO-EN/30	3~400 V	30	40	78	800	600	380	Metallic	43	2.551,00
01468	REACTO-EN/37	3~400 V	37	50	96	800	600	380	Metallic	54	2.700,00
01469	REACTO-EN/45	3~400 V	45	60	110	800	600	380	Metallic	82	2.930,00
01470	REACTO-EN/55	3~400 V	55	75	135	1000	800	340	Metallic	124	3.686,00
01471	REACTO-EN/75	3~400 V	75	100	175	1000	800	380	Metallic	128	4.455,00
01472	REACTO-EN/90	3~400 V	90	125	200	1200	800	380	Metallic	128	5.334,00
01473	REACTO-EN/110	3~400 V	110	150	235	1400	800	480	Metallic	230	7.290,00
01474	REACTO-EN/132	3~400 V	132	180	285	1600	1000	480	Metallic	270	8.369,00

THE STANDARD IN BRIEF

The **UNI EN 12845** standard of 2020 regulates the design, installation, and maintenance of fixed fire-fighting sprinkler systems, with the goal of protecting buildings and people in the event of a fire. The standard is applicable to buildings of various types, including industrial ones, and covers all aspects necessary to ensure the reliability of automatic fire-fighting systems. The document establishes specifications for selecting components, including pumps, pipes, and tanks, and defines the requirements for pressure and water flow needed for the effective operation of the systems.

One key point of the standard is the classification of building risk into low, medium, or high-risk categories, which determines the project specifications in terms of the number of sprinklers required, water flow, and duration of discharge. For example, buildings with high risk require systems with higher flow and pressure to ensure effective coverage of the area in the event of a fire. UNI EN 12845 also provides for the use of pumps, including vertical turbine pumps, in installations with submerged suction, to ensure a constant flow even in complex situations.

Additionally, the standard defines the initial testing procedures and the methods for periodic inspection of the system, including checks to ensure the proper functionality of all components and compliance with safety requirements. Complete documentation for the system is required, which is useful for maintenance and future inspections. Finally, emergency measures are provided to intervene quickly in case of system failure, ensuring that the risk of unforeseen failures is minimized and that the system can operate reliably throughout its lifespan.

diesel-EN
for motor pumps

SIMPLICITY

●●●○○

EASE OF INSTALLATION

●●●●○

VERSATILITY

●●●●○

The fire-fighting panel for **diesel engine-driven pumps**

Fire-fighting electrical panels compliant with the European standard UNI EN 12845, specific and complete for diesel engine-driven pumps.

PROTECTED

Made of plastic or metal enclosure with a minimum protection rating of **IP55**

SAFE

It integrates indicator lights, a manual or automatic selector, and a disconnect switch with a door locking system

MAXIMUM CONTROL

Connected to the loads and external controls via a terminal block.

MAIN FEATURES

FUNCTIONS

- Low voltage command inputs and circuits;
- 2 Normally closed inputs for start-up pressure switches;
- 2 Inputs from external batteries for starter motor and auxiliary circuit power;
- Input for command from priming tank;
- Input for signal from pressure switch (system under pressure/ diesel pump off);
- Key selector AUT-EMERGENCY;
- Manual start and stop buttons for diesel pump;
  Fault reset button;
- Manual start test button (active in case of failed automatic start);
- LED test button for control panel;
- Emergency Manual start buttons protected by “Safe crash”;
- Backlit LCD display for showing:
  - 2 battery voltmeters
  - 2 battery ammeters
  - Tachometer
  - Total and partial hour meters
  - Fuel level indicator
  - Water thermometer
  - Oil thermometer
  - Oil pressure gauge
  - Battery count and event history;
- Indicator LEDs;
- Option for operation according to UNI10779;
- Display with 5 languages: Italian, English, French, Spanish, German;
- Adjustable delay and alarm functions;
- Alarm outputs for:
  - Automatic mode excluded
  - Control panel failure
  - Diesel pump running
  - Failed start;
- 2 12Vdc 3A chargers (24Vdc 3A for 24V version);
- Protection for auxiliaries and motor with fuses;
- Main disconnect switch with door lock;
- Metal enclosure, IP55;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (non-condensing).

POWER SUPPLIES

- Power supply 3 ~ 50/60Hz 230V±10%

VERSIONS

- DIESEL-EN
- DIESEI-EN PLUS 500
- DIESEL-EN PLUS 800

diesel-EN

			Max power		Current	Box				Peso	Price
Code	Model	Voltage	Kw	Hp	Max	H	L	W	Material	Kg.	€
01475	DIESEL-EN	3~230 V	4	5.5	9	500	400	240	Metallic	15	2.073,00
01476	DIESEL-EN PLUS 500*	3~230 V	5.5	7.5	12	500	400	240	Metallic	15	2.401,00
01478	DIESEL-EN PLUS 800*	3~230 V	7.5	10	16	500	400	240	Metallic	15	2.515,00

*With wired power relays

alarm panels

SIMPLICITY

EASE OF INSTALLATION

SAFETY

Panels for alarm status indication

The need to monitor anomalies is met with Elentek Alarm Panels, which manage system anomalies through acoustic-visual signals or via GSM notifications.

UNIT ALARM

UNIT ALARM is a device applicable to any system where alarm signaling is needed, even in the absence of network power supply. It is available in the version with a sound alarm (model Unit Alarm 1), with both sound and flashing visual alarm (model Unit Alarm 2), and in the version with acoustic, visual, and GSM signaling (model Unit Alarm GSM), which comes with a kit including an antenna and a programmable transmitter for sending alarm activation notifications to mobile phones.

TECHNICAL SPECIFICATIONS

- **Version:** single-phase 210-250Vac 50/60Hz
- **Alarm status monitoring**
- **LED on the front of the panel for operation status and alarm signaling**
- **Operation buttons:** TEST - RESET - SILENCING
- **Up to 2 command inputs:** float switches/pressure switches
- **Signaling:** acoustic (90dB) - visual (LED) - GSM (SIM not included)
- **Automatic alarm reset setting (optional)**
- **Programmable alarm deactivation delay timer**
- **Reported alarms:** voltage status and input status
- **General alarm output contacts**
- **Autonomy:** 24h in case of power failure
- **Protection fuses**
- **Enclosure material:** ABS, IP54

Code	Model	Flashing light	Sound pressure	Voltage	Autonomy	Box	Material	W	€
01500	UNIT ALARM 1	-	90 dB	12 Vdc	24h	P1	Plastic	1 Kg	160,00
01501	UNIT ALARM 2	Red	90 dB	12 Vdc	24h	P1	Plastic	1 Kg	250,00
01502	UNIT ALARM GSM	Red	90 dB	12 Vdc	24h	P2	Plastic	1,5 Kg	707,00

Panels applicable to any system where alarm signals are required even in the absence of a network power supply, compatible with our electrical panels: simple, compact, and economical. Available in versions with audible alarm, audible and flashing visual alarm, and with acoustic, visual, and GSM notification.

FLASH

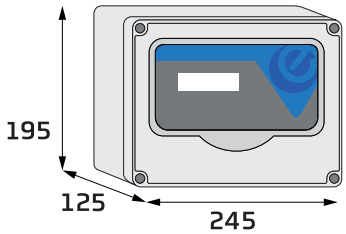
Electrical device for **acoustic and visual alarm** to be paired with our electrical panels: simple, compact, and cost-effective.

TECHNICAL SPECIFICATIONS

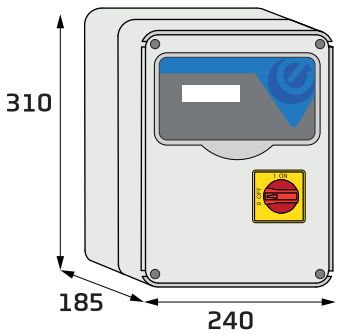
- **Power supply:** 230/24 Vac
- **Flashing light:** red
- **Sound alarm:** 90 dB
- **1 normally open input for alarm command from clean contacts**
- **1 normally closed input for alarm command from clean contacts**
- **Enclosure material:** ABS, IP54

Code	Model	Power supply	Sound pressure	Voltage	Box	Material	W	€
01503	FLASH 24	24V	90 dB	24 Vdc	P3	Plastic	1Kg	125,00
01505	FLASH 230	12V	90 dB	230 Vdc	P3	Plastic	1Kg	125,00

DIMENSIONS



P1



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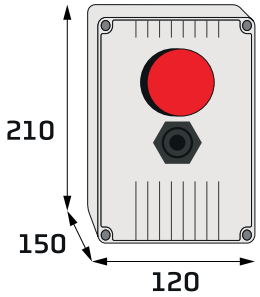
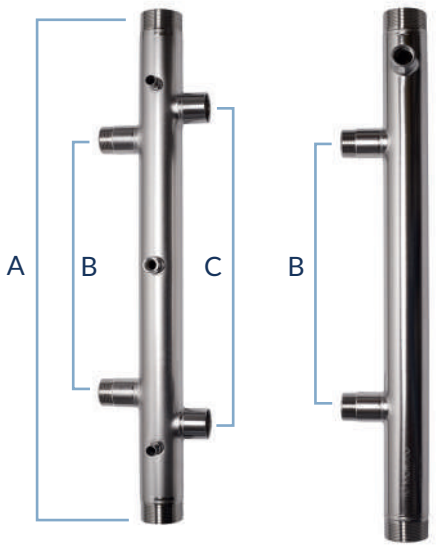


P3

STAINLESS STEEL MANIFOLDS

Stainless steel manifolds to connect **two electric pumps** in order to achieve higher water flow. Thanks to the thin thickness and TIG welding of the threaded parts, pressure losses are minimized. Ideal for use in **pumping groups** with two pumps, along with our complete *support base* with an electrical panel mounting rod.



TECHNICAL SPECIFICATIONS

- **Material:** AISI 304 stainless steel (316 on request)
- **Nominal operating pressure:** 16 bar
- **Threaded connections:** Cylindrical Gas UNI ISO 228/1
- **Welding:** TIG with or without filler material
- **Plastic deformation:** Cold working for a better surface finish
- **Surface treatment:**
  - » **Degreasing**
  - » **Pickling:** recommended for items with welds that reduce the material's rust resistance and corrosion resistance.
  - » **Electropolishing:** a process of material removal that involves controlled metal removal from the surface.

STAINLESS STEEL DISCHARGE MANIFOLDS

Code	Model	DNM	DNP	A	B	C	W (Kg)	€
99020	INOX.MAN 150/100	1" ½	1"	600	300	370	2,4	202,00
99021	INOX.MAN 200/125	2"	1" ¼	600	300	370	3	219,00
99022	INOX.MAN 250/150	2" ½	1" ½	600	300	370	3,6	242,00

STAINLESS STEEL SUCTION MANIFOLDS

Codice	Model	DNM	DNP	A	B	C	W (Kg)	€
99024	INOX.ASP 200/125	2"	1" ¼	600	300	-	2,4	163,00
99025	INOX.ASP 250/150	2" ½	1" ½	600	300	-	3,6	188,00
99026	INOX.ASP 300/200	3"	2"	700	360	-	5,5	237,00

PRESSURE SWITCHES

Pressure switches for water installations

TECHNICAL SPECIFICATIONS

- **Nominal pressure adjustment screw**
- **Differential pressure adjustment screw**
- **Normally closed electrical contacts made of brass with Ag-Ni plating**
- **Membrane: white NBR with PA (nylon) insert**
- **Hydraulic connection: ¼"F in galvanized steel**
- **Strain-relief cable glands**
- **Terminal block with inaccessible electrical contacts**

Code	Model	Adjustment range	Factory calibration	Minimum differential	Nominal current	€	€ x 10pcs	€ x 100pcs
99050	PM/5	1 - 5 bar	1,4-2,8 bar	0,6 bar	16 A	18,00	17,00*	16,00*
99051	PM/12	3 - 12 bar	5-7 bar	1,5 bar	16 A	22,00	20,00*	19,00*

*Prezzo unitario

BOOSTER BASE

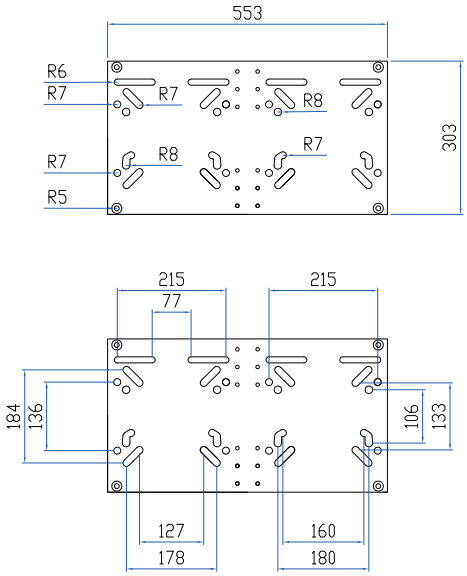
The base and column are made of pickled sheet metal in matte gray, with a thickness of 3 mm. What makes it particularly suitable for various applications is the favorable mix of its specific characteristics; in particular, it is appreciated for its high hardness and mechanical properties.
After pickling, the metal surface is cleaned of oxide residues and scale, or mill scale. Once the process is complete, the base is coated with a special coloring powder made of synthetic resin and subjected to polymerization: the powder melts and is evenly distributed over the sheet, giving it the selected color.
It is supplied complete with a rod and mounting plate for the electrical panel.

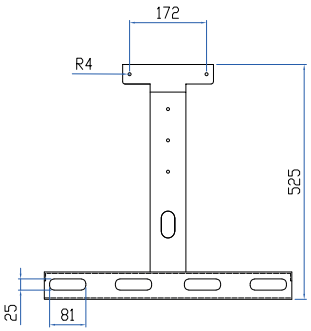
TECHNICAL SPECIFICATIONS

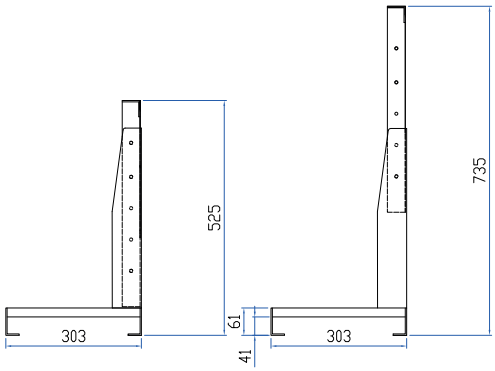
- **Material:** epoxy powder-coated steel
- **Weight:** 7.00 kg
- **Dimensions:** 553x303x525 (min) - 735 (max) mm

Code	Model	H (mm)	L (mm)	W (mm)	W (Kg)	€
99009	BASE FULL	525-735	553	303	7	164,00

DIMENSIONS







DROP FLOAT SWITCHES

DROP is a special level regulator, suitable for both industrial and civil applications, designed to optimize the level control of wastewater and sewage.
It is built with three sealed chambers with adjustable positions. Unlike traditional float switches that remain on the water surface, Drop, thanks to its special construction with an integrated counterweight, stays submerged underwater.

FILLING

EMPTYING

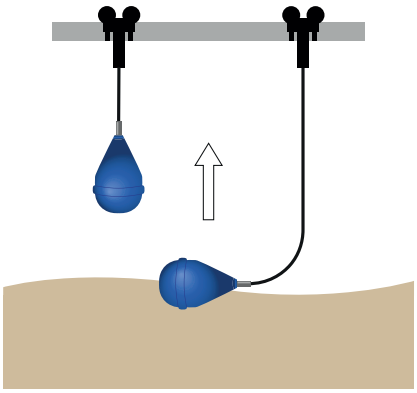
1. First sealed chamber
2. Second sealed chamber
3. Third sealed chamber
4. Plastic spherical gasket: increases the structural strength of the float and weighs on the cap of the underlying crown, creating the third sealed chamber
5. Final thermoplastic sealing: melts the various plastic parts into a single piece
6. Polystyrene foam crown cap: compresses the metal granules
7. Metal granules
8. Cable gland
9. Rubber tested to 5 bar

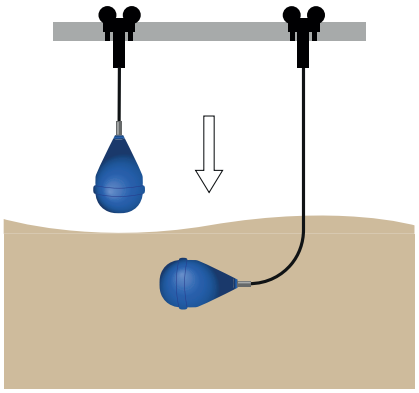
TECHNICAL SPECIFICATIONS

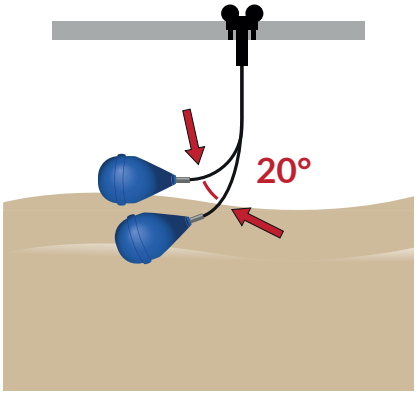
- Float switch
- Cable type: 05VV-F 3x1 mm²
- Operating voltage: 230V/50 Hz
- Nominal voltage: 250 V
- Switching current (Max): 10(8) A
- Cable connection with terminals, no connectors
- Temperature (Min): 0 °C
- Temperature (Max): 50 °C
- Protection rating: IP68
- Contact type: 1 changeover
- Material: plastic
- Cable: neoprene, IMQ certified

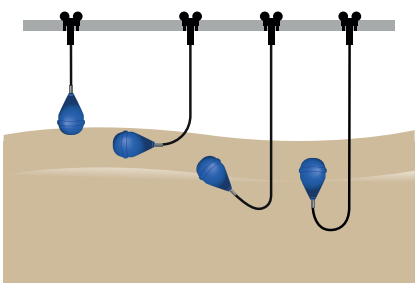
Code	Model	Cable	Length (m)	Weight (Kg)	€	€ x 10pcs	€ x 30pcs
99036	DROP 10	Neoprene	10	2	73,00	65,00*	62,00*
99037	DROP 20	Neoprene	20	3	105,00	99,00*	91,00*
99038	DROP EX	Explosion-proof	10	2,5	148,00	130,00*	127,00*

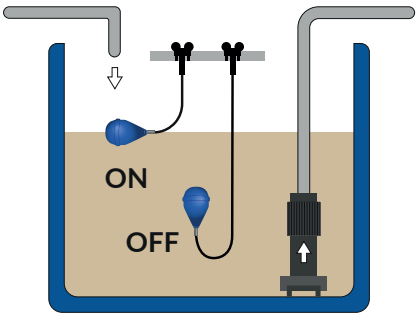
*Unit price

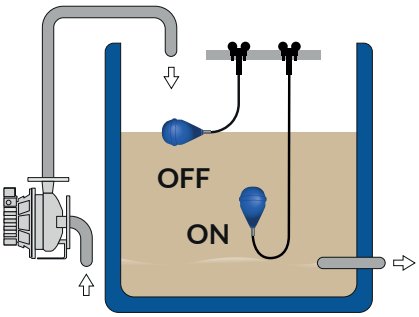












FLO FLOAT SWITCHES

FLO is a special level regulator, suitable for both industrial and civil applications, designed to regulate the level control of **clean water**. The FLO float switch has various applications, such as: filling or emptying tanks, pump activation, minimum level control, and much more.

FILLING

EMPTYING

TECHNICAL SPECIFICATIONS

- **Float switch**
- **Functions: Filling/Emptying**
- **Operating voltage: 230V/50 Hz**
- **Nominal voltage: 250 V**
- **Switching current (Max): 10(8) A**
- **Cable connection with terminals, no connectors**
- **Temperature (Min): 0 °C**
- **Temperature (Max): 50 °C**
- **Protection rating: IP68**
- **Contact type: 1 changeover**
- **Material: plastic**
- **Cable: neoprene, IMQ certified**

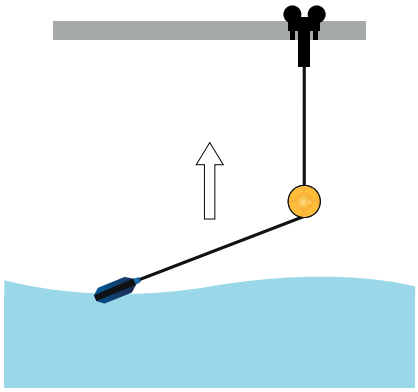
SHELL counterweight

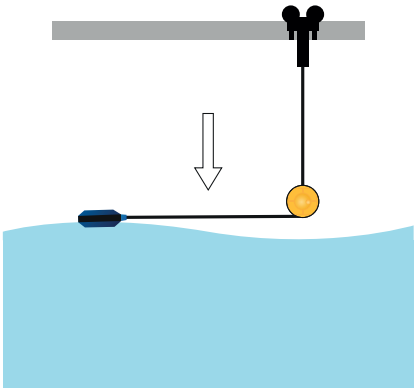
Material: Polypropylene
Weight: 230g

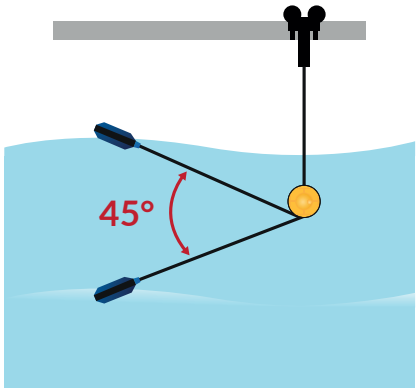
It allows the float switch to always operate with the same cable length, even in turbulent waters, preventing damage to the cable itself

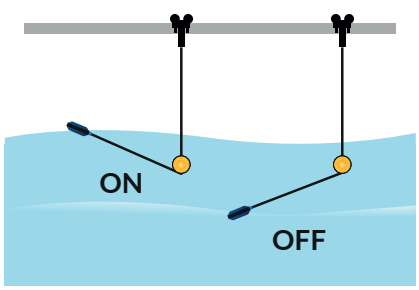
Code	Model	Cable	Length (m)	Weight (Kg)	€	€ x 10pcs	€ x 30pcs
99033	FLO 5	Neoprene	5	0,6	27,00	25,00*	23,00*
99034	FLO 10	Neoprene	10	1	41,00	39,00*	37,00*
99035	FLO 20	Neoprene	20	2	68,00	66,00*	62,00*
99039	SHELL	-	-	0,2	5,00	4,50*	4,00*

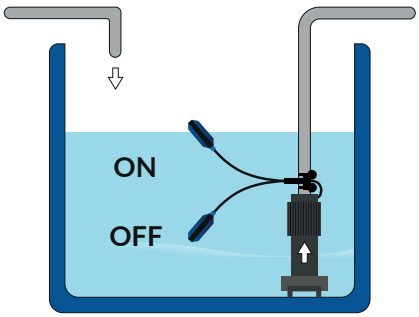
*Unit price

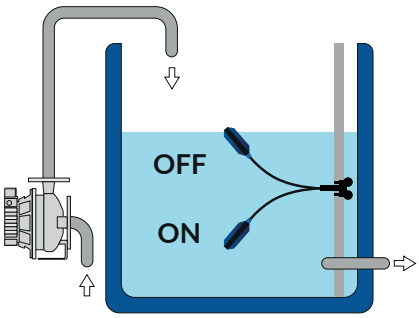












BALL VALVES

Code	Model	DN	PN	H	W (Kg)	€
99110	PAL 125	1" ¼	10	133	2,1	88,00
99111	PAL 150	1" ½	10	150	2,3	100,00
99112	PAL 200	2"	10	175	3,1	113,00
99113	PAL 250	2" ½	10	205	6,7	204,00

FLANGED BALL VALVES

Code	Model	DN (mm)	€
99120	PAL-FLA DN50	50	on request
99121	PAL-FLA DN65	65	on request
99122	PAL-FLA DN80	80	on request
99123	PAL-FLA DN100	100	on request
99124	PAL-FLA DN125	125	on request
99125	PAL-FLA DN150	150	on request
99126	PAL-FLA DN200	200	on request
99127	PAL-FLA DN250	250	on request

QUICK COUPLING DEVICES

Code	Model	DN (Ø /mm)	€
99140	DAR 125	1" ¼	on request
99141	DAR 150	1" ½	on request
99142	DAR 200	2"	on request
99143	DAR DN65	65	on request
99144	DAR DN80	80	on request
99145	DAR DN100	100	on request

PRESSURE TRANSDUCER

TECHNICAL SPECIFICATIONS

- **Standard pressure connection: ISO**
- **Ambient temperature range (Max): 85 °C**
- **Ambient temperature range (Min): -40 °C**
- **Fluid temperature range (Max): 80 °C**
- **Fluid temperature range (Min): -20 °C**
- **Standard electrical connection: IEC60947-5-2 (1997)**
- **Pressure connection dimensions: G 1/4 A**
- **Protection rating IP: IP67**
- **Output signal (mA) (Max): 20 mA**
- **Output signal (mA) (Min): 4 mA**
- **Pressure connection HEX: 27mm**
- **Electrical connection: M12 x 1**
- **Enclosure material: 304L**
- **Wetted part material: 304L/316L**

Code	Model	Minimum pressure range (bar)	Maximum pressure range (bar)	W (Kg)	€
98044	TP010B	0	10	0,1	129,00
98045	TP016B	0	16	0,1	129,00

EMC filter coordination for the first environment for VARTEK up to 22kW

Code	Description	€
98801	Three-phase EMC filter 400V - three-phase 220V up to 7.5kW 17.2A	248,00
98802	Three-phase EMC filter 400V - three-phase 220V up to 22kW 48.4A	358,00

Output inductor coordination for MINIVAR and VARTEK up to 22kW

Code	Description	€
98803	Output inductor DV/DT maximum distance between electrical panel and pump 100 meters and max 3.6A	456,00
98804	Output inductor DV/DT maximum distance between electrical panel and pump 100 meters and max 6.2A	530,00
98805	Output inductor DV/DT maximum distance between electrical panel and pump 100 meters and max 16A	1.006,00
98806	Output inductor DV/DT maximum distance between electrical panel and pump 100 meters and max 30A	1.240,00
98807	Output inductor DV/DT maximum distance between electrical panel and pump 100 meters and max 70A	1.489,00

Output inductor coordination for VARTEK PLUS

Code	Description	€
98808	Output inductor DV/DT maximum distance between electrical panel and pump 150 meters and max 16A	1.006,00
98809	Output inductor DV/DT maximum distance between electrical panel and pump 250 meters and max 30A	1.240,00
98810	Output inductor DV/DT maximum distance between electrical panel and pump 300 meters and max 70A	1.489,00
98811	Output inductor DV/DT maximum distance between electrical panel and pump 300 meters and max 120A	4.356,00
98812	Output inductor DV/DT maximum distance between electrical panel and pump 300 meters and max 260A	4.624,00
98813	Output inductor DV/DT maximum distance between electrical panel and pump 300 meters and max 320A	5.627,00

Sine wave filter coordination for VARTEK - VARTEK PLUS

Code	Description	€
98827	Sine wave filter maximum distance between electrical panel and pump over 150 meters and max 4A	1.087,00
98814	Sine wave filter maximum distance between electrical panel and pump over 150 meters and max 6A	1.286,00
98815	Sine wave filter maximum distance between electrical panel and pump over 150 meters and max 11A	1.401,00
98816	Sine wave filter maximum distance between electrical panel and pump over 150 meters and max 16A	1.642,00
98817	Sine wave filter maximum distance between electrical panel and pump over 250 meters and max 25A	2.353,00
98818	Sine wave filter maximum distance between electrical panel and pump over 250 meters and max 33A	2.754,00
98819	Sine wave filter maximum distance between electrical panel and pump over 300 meters and max 50A	3.893,00
98820	Sine wave filter maximum distance between electrical panel and pump over 300 meters and max 66A	4.416,00
98821	Sine wave filter maximum distance between electrical panel and pump over 300 meters and max 75A	5.750,00
98822	Sine wave filter maximum distance between electrical panel and pump over 300 meters and max 95A	6.882,00
98823	Sine wave filter maximum distance between electrical panel and pump over 300 meters and max 130A	9.582,00
98824	Sine wave filter maximum distance between electrical panel and pump over 300 meters and max 162A	9.682,00
98825	Sine wave filter maximum distance between electrical panel and pump over 300 meters and max 230A	14.708,00
98826	Sine wave filter maximum distance between electrical panel and pump over 300 meters and max 390A	24.390,00

Plastic enclosure IP55 with single door (plate excluded)

Code	Model	H	L	W	Material	€
97001	INV1P	240	190	90	ABS	25,00
97002	INV2P ELENTEK BOX	320	240	150	ABS	39,00
97003	INV3P	380	300	120	ABS	59,00

Metal enclosure IP55 with single blind door RAL 7035 (plate included)

Code	Model	H	L	W	Material	€
97040	INV1M*	400	300	200	Metallic	129,00
97041	INV2M*	500	400	200	Metallic	138,00
97042	INV3M*	600	400	200	Metallic	165,00
97043	INV4M*	700	500	250	Metallic	225,00
97044	INV5M	800	600	300	Metallic	264,00
97045	INV6M	1000	800	300	Metallic	460,00
97046	INV7M	1200	800	300	Metallic	592,00
97008	BASE	Base for floor mounting 100mm (specify enclosure dimensions when ordering).				204,00
97009	COLUMN (for only*)	Hollow column with floor mounting, base 350x165xh800mm, cable passage 50mm.				490,00

Fiberglass enclosure IP65 with single door (plate included)

Code	Model	H	L	W	Material	€
97010	INV1V-SP*	425	325	180	VTR	238,00
97011	INV2V-SP*	500	430	210	VTR	355,00
97012	INV3V-SP*	650	430	210	VTR	435,00
97013	INV4V-SP*	650	540	260	VTR	553,00
97014	INV5V-SP	805	615	315	VTR	764,00
97015	INV6V-SP	1060	810	355	VTR	204,00
97009	COLUMN (for only*)	Hollow column with floor mounting, base 350x165xh800mm, cable passage 50mm.				490,00

Fiberglass enclosure IP65 with double blind door (plate included)

Code	Model	H	L	W	Material	€
97030 *	INV1V-DPC	425	325	180	VTR	289,00
97031 *	INV2V-DPC	500	430	210	VTR	421,00
97032 *	INV3V-DPC	650	430	210	VTR	508,00
97033 *	INV4V-DPC	650	540	260	VTR	620,00
97034	INV5V-DPC	805	615	315	VTR	851,00
97035	INV6V-DPC	1060	810	355	VTR	1.730,00
97009	COLUMN (for only*)	Hollow column with floor mounting, base 350x165xh800mm, cable passage 50mm.				490,00

Fiberglass enclosure IP65 with double transparent door (plate included)

Code	Model	H	L	W	Material	€
97020	INV1V-DPT	425	325	180	VTR	343,00
97021	INV2V-DPT	500	430	210	VTR	468,00
97022	INV3V-DPT	650	430	210	VTR	553,00
97023	INV4V-DPT	650	540	260	VTR	718,00
97024	INV5V-DPT	805	615	315	VTR	987,00
97025	INV6V-DPT	1060	810	355	VTR	1.876,00
97009	COLUMN (for only*)	Hollow column with floor mounting, base 350x165xh800mm, cable passage 50mm.				490,00

Metal enclosure IP65 with double blind door (plate included)

Code	Model	H	L	W	Material	€
97050	INV1M-DPC*	500	400	200	Metallic	311,00
97051	INV2M-DPC*	600	400	200	Metallic	376,00
97052	INV3M-DPC*	700	500	250	Metallic	468,00
97053	INV4M-DPC	800	600	300	Metallic	627,00
97054	INV5M-DPC	1000	800	300	Metallic	940,00
97055	INV6M-DPC	1200	800	300	Metallic	1.105,00
97008	BASE	Base for floor mounting 100mm (specify enclosure dimensions when ordering).				204,00
97009	COLUMN (for only*)	Hollow column with floor mounting, base 350x165xh800mm, cable passage 50mm.				490,00

Metal enclosure IP65 with double transparent door

Code	Model	H	L	W	Material	€
97060	INV1M-DPT*	500	400	200	Metallic	513,00
97061	INV2M-DPT*	600	400	200	Metallic	620,00
97062	INV3M-DPT*	700	500	250	Metallic	802,00
97063	INV4M-DPT*	800	600	300	Metallic	1.073,00
97064	INV5M-DPT	1000	800	300	Metallic	1.500,00
97065	INV6M-DPT	1200	800	300	Metallic	1.690,00
97008	BASE	Base for floor mounting 100mm (specify enclosure dimensions when ordering).				204,00
97009	COLUMN (for only*)	Hollow column with floor mounting, base 350x165xh800mm, cable passage 50mm.				490,00

Enclosures with anchoring base

		Overall dimensions			Useful dimensions				
Code	Model	H	L	W	H	L	W	Material	€
97370	CSZ-1	1000	610	300	750	550	250	Metallic	1.251,00
97371	CSZ-2	1200	810	300	950	750	250	Metallic	1.711,00
97372	CSZ-3	1400	810	300	1150	750	250	Metallic	1.983,00
97373	CSZ-4	1660	800	463	1290	675	350	Metallic	4.605,00
97374	CSZ-5	1860	800	463	1490	675	350	Metallic	5.000,00
97375	CSZ-6	2060	800	463	1690	675	350	Metallic	5.262,00

STARTING CAPACITORS and RUN CAPACITORS

Code	Model	Description	€
97260	CA-10	10uF 450V - Run capacitor, double faston	4,50
97261	CA-12.5	12.5uF 450V - Run capacitor, double faston	4,50
97262	CA-16	16uF 450V - Run capacitor, double faston	5,50
97263	CA-20	20uF 450V - Run capacitor, double faston	6,50
97264	CA-25	25uF 450V - Run capacitor, double faston	6,50
97265	CA-30	30uF 450V - Run capacitor, double faston	7,50
97266	CA-35	35uF 450V - Run capacitor, double faston	8,50
97267	CA-40	40uF 450V - Run capacitor, double faston	11,50
97268	CA-45	45uF 450V - Run capacitor, double faston	12,50
97269	CA-50	50uF 450V - Run capacitor, double faston	12,50
97270	CA-60	60uF 450V - Run capacitor, double faston	15,50
97271	CA-70	70uF 450V - Run capacitor, double faston	17,50
97272	CA-75	75uF 450V - Run capacitor, double faston	19,50
97273	CA-80	80uF 450V - Run capacitor, double faston	47,00
97274	CD-30	30uF 450V - Disconnect capacitor 2 wires	47,00
97275	CD-40	40uF 450V - Disconnect capacitor 2 wires	47,00
97276	CD-50	50uF 450V - Disconnect capacitor 2 wires	47,00
97277	CD-60	60uF 450V - Disconnect capacitor 2 wires	47,00
97278	CD-80	80uF 450V - Disconnect capacitor 2 wires	47,00

GSM MODEM

Code	Model	Description	€
98165	GSM ECO	2 digital inputs - 1 digital output + external antenna	379,00
98166	GSM PLUS	4 digital inputs - 2 digital outputs + ... + internal antenna + software • Integrated modem: GSM / GPRS quadband • USB interface: 2.0 mini B • Expandable memory: Micro SD slot (up to 32 GB) • Integrated memory: Flash (2 MB) • Integrated temperature sensor: NTC • Digital inputs: 4 channels • Counters: 4 (@32 bit, max 30 Hz) • Totalizers: 4 (@32 bit, max 30 Hz) • Digital outputs: 2 SPST relay 3 A (optional) • Analog inputs: 2 analog channels (mA, V), 16-bit resolution • Power supply: Via USB cable or 230V AC power adapter (both included)	774,00
98167	GSM plus external antenna	GSM plus external antenna	64,00

cod. 98165

cod. 98166

cod. 98167

ACCESSORIES FOR PANELS WITH SPECIFIC FUNCTIONS

Code	Model	Description	€
98015	RLOG-...	Relay for automation logic to specify:	33,00
98015.001	RLOG-TER	Relay for thermal trip signal circuit	33,00
98015.002	RLOG-0/1	Relay for motor status signal circuit	33,00
98015.003	RLOG-PWR	Relay for power supply or voltage presence signal to auxiliary circuits	33,00
98015.004	RLOG-SP	Relay for level alarm signal circuit (light, audible alarm, or other device not included)	33,00
98006	RL-...	Level relay for automation to specify:	89,00
98006.001	RL-S	Level relay for emptying (= OFF at minimum level)	89,00
98006.002	RL-R	Level relay for filling (= OFF at maximum level)	89,00
98006.003	RL-H20	Level relay for water infiltration detection in oil chamber (indicator included)	109,00
98006.004	RL-H2O-STOP	Level relay for motor stop and water infiltration detection in oil chamber (indicator included)	139,00
98031	TMF-...	Multifunction timer for logic to specify:	89,00
98031.001	TMF-RR	Timer for delayed start upon power return	89,00
98031.002	TMF-RS	Timer for delayed shutdown from an external command	89,00
98031.003	TMF-RA	Timer for delayed start from an external command	89,00
98070	SDS-400	Surge protector kit	371,00
97354	HEATER 30W	Anti-condensation kit (resistor + thermostat)	136,00
97352	FAN	Kit (forced ventilation + thermostat)	173,00

INSTRUMENTATION AND SIGNALING ACCESSORIES FOR PANEL FRONT

Code	Model	Description	€
98014	CON-O-...V	Analog timer counter to specify the voltage:	44,00
98014.024	CON-O 24V	Analog timer counter 24V	44,00
98014.110	CON-O 110V	Analog timer counter 110V	44,00
98014.230	CON-O 230V	Analog timer counter 230V	44,00
98008	VOLT	Analog voltmeter 0-500V	57,00
98009	COM	Voltmetric selector 4 positions 0-L1/L2-L2/L3-L1/L3 (0-R/S-S/T-R/T)	54,00
98120	AMP-10	Ammeter max 10A direct insertion	57,00
98010	AMP-25	Ammeter max 25A direct insertion	57,00
98011	AMP-50+100A	Analog ammeter with transformer to specify the current:	88,00
98011.050	AMP-50	Ammeter max 50A with ammeter transformer 50/5A	88,00
98011.060	AMP-60	Ammeter max 50A with ammeter transformer 60/5A	88,00
98011.080	AMP-80	Ammeter max 50A with ammeter transformer 80/5A	88,00
98011.100	AMP-100	Ammeter max 100A with ammeter transformer 100/5A	88,00
98012	AMP-150+500A	Analog ammeter with transformer to specify the current:	92,00
98012.150	AMP-150	Ammeter max 150A with ammeter transformer 150/5A	92,00
98012.200	AMP-200	Ammeter max 200A with ammeter transformer 60/5A	92,00
98012.250	AMP-250	Ammeter max 250A with ammeter transformer 80/5A	92,00
98012.300	AMP-300	Ammeter max 300A with ammeter transformer 100/5A	92,00
98012.400	AMP-400	Ammeter max 400A with ammeter transformer 100/5A	92,00
98012.500	AMP-500	Ammeter max 500A with ammeter transformer 100/5A	92,00

Code	Model	Description	€
98013	COM-...A	Ammeter switch with 3 CTs to specify the current:	136,00
98013.050	COM-50A	Switch with 3 CTs 50/5A	222,00
98013.060	COM-60A	Ammeter + switch with 3 CTs 60/5A	222,00
98013.0.80	COM-80A	Ammeter + switch with 3 CTs 80/5A	222,00
98013.100	COM-100A	Ammeter + switch with 3 CTs 100/5A	222,00
98013.150	COM-150A	Ammeter + switch with 3 CTs 150/5A	241,00
98013.200	COM-200A	Ammeter + switch with 3 CTs 200/5A	241,00
98013.250	COM-250A	Ammeter + switch with 3 CTs 250/5A	241,00
98013.300	COM-300A	Ammeter + switch with 3 CTs 300/5A	241,00
98013.400	COM-400A	Ammeter + switch with 3 CTs 400/5A	241,00
98013.500	COM-500A	Ammeter + switch with 3 CTs 500/5A	241,00
98160	PR-VISUAL	Digital pressure display 4-20mA 0-10V	570,00
98161	LVL-VISUAL	Digital level display 4-20mA 0-10V	570,00
98162	HZ	Analog frequency meter 50/60Hz	64,00
98163	MF-DMK15R1	Digital multifunction panel multimeter 96x48	335,00
98034	SP...-A	Red alarm indicator Ø22 - voltage to be specified	22,00
98034R012	SPR-12	Red alarm indicator Ø22 12V	22,00
98034R024	SPR-24	Red alarm indicator Ø22 24V	22,00
98034R110	SPR-110	Red alarm indicator Ø22 110V	22,00
98034R230	SPR-230	Red alarm indicator Ø22 230V	22,00
98034G012	SPG-12	Yellow alarm indicator Ø22 12V	22,00
98034G024	SPG-24	Yellow alarm indicator Ø22 24V	22,00
98034G110	SPG-110	Yellow alarm indicator Ø22 110V	22,00
98034G230	SPG-230	Yellow alarm indicator Ø22 230V	22,00
98003	AA-...V	90 dB acoustic alarm - voltage to be specified:	57,00
98003.012	AA-12 VDC	90 dB acoustic alarm 12V DC	57,00
98003.230	AA-230 VAC	90 dB acoustic alarm 230V AC	57,00
98003.024	AA-24 VAC	90 dB acoustic alarm 24V AC	57,00
98004	LL-...V	Flashing light alarm - voltage to be specified:	97,00
98004.012	LL-12 V AC/DC	Flashing alarm lamp 12V AC/DC	97,00
98004.230	LL-230 VAC	Flashing alarm lamp 230V AC	97,00
98004.024	LL-24 V AC/DC	Flashing alarm lamp 24V AC/DC	97,00

NOTES

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