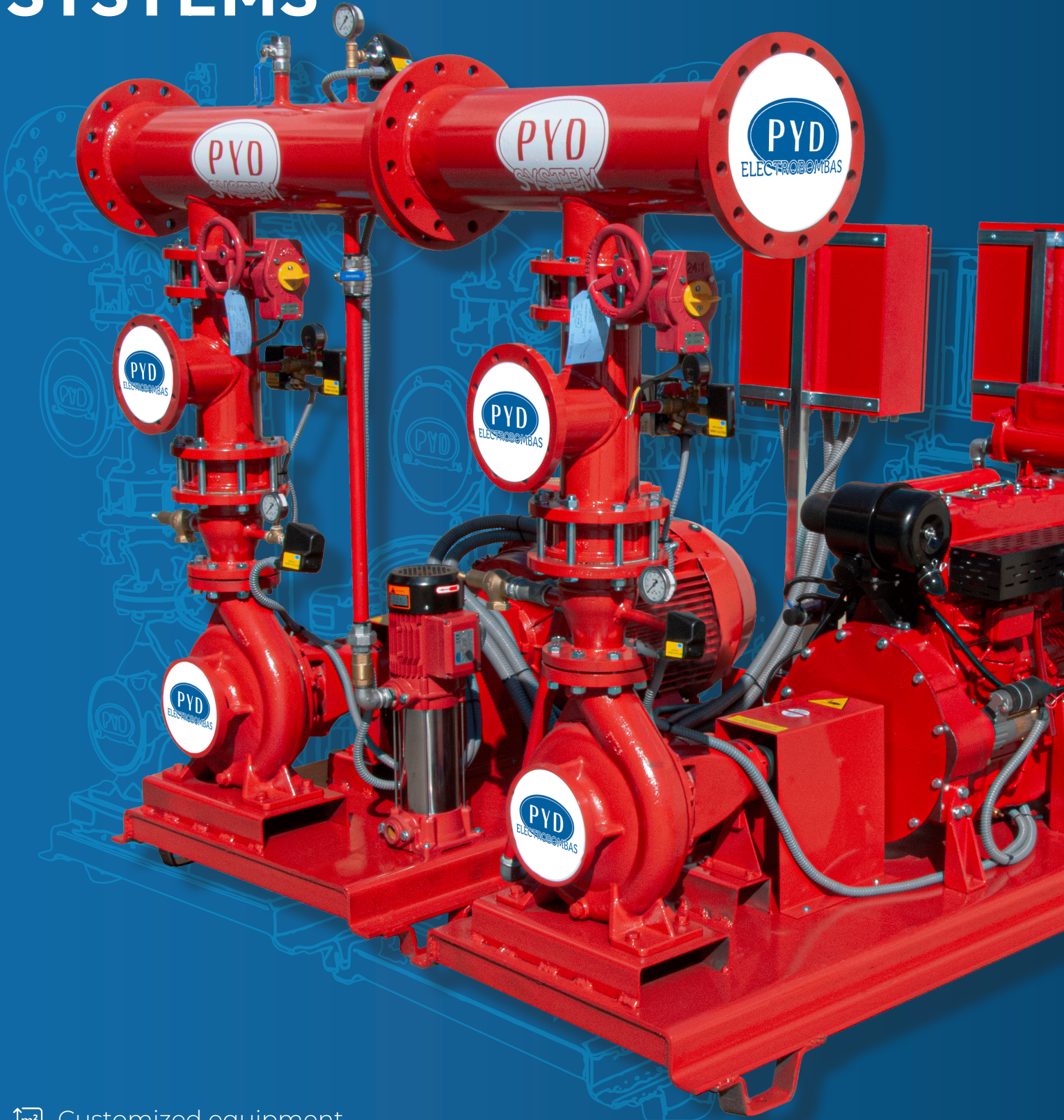


PRESSURE GROUPS FIRE FIGHTING SYSTEMS



 Customized equipment

 Personalized technical assistance



2026 CATALOGUE



Proindecsa was founded in 1975, and since then, we have been closely linked to the hydraulic pump sector, specializing in the management of fluids for residential pressurization, fire protection systems, irrigation, industry, etc. Our specialty is providing comprehensive pumping solutions, driven by the desire to continuously improve our services and offer products that always meet the demands of our customers.

As manufacturers of fire-fighting groups, we offer a complete range of products in accordance with the latest changes in current regulations, adapting to the specific needs of your installation. We can guarantee product development that meets the most demanding standards. From engineering design studies to subsequent assembly and manufacturing, our highly qualified team ensures that each fire-fighting group provides a specific solution to combat and contain fire in your facilities.



MISSION

To establish our brand as a benchmark, offering the most suitable and avant-garde range of products for every application, with only one final result in mind: total customer satisfaction.



VALUES

Guided by respect, commitment, trust, and motivation, with a clear focus on the Customer and the achievement of results. We work as a team with dynamism, initiative, and creativity.



We work under the ISO 9001:2015 Certification. We are manufacturers of pressure groups and fire-fighting sets under current regulations, or adapted to the specific needs of our customers.



We meet our objectives by advising each client personally, thanks to our specialized departments and staff.

With more than **5.000m²** spread across two industrial warehouses, in addition to our main storage center located in the "Transport City," we are able to provide an immediate response for the majority of our products with a single goal: to strive for, and always achieve, the best possible service. This is further supported by our extensive sales network and technical services present throughout the peninsula, as well as in the Balearic and Canary Islands.

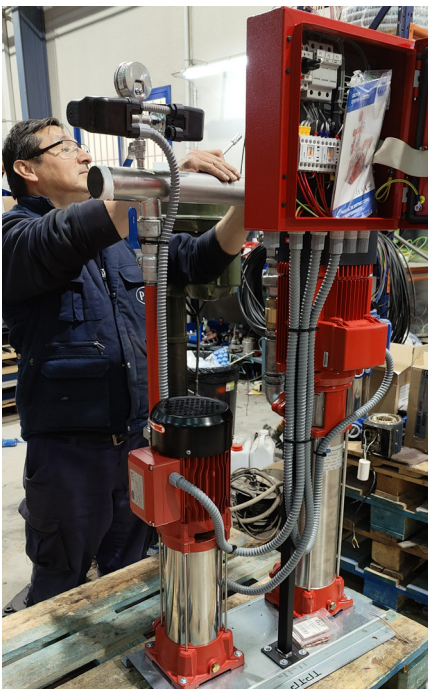
At PYD Electrobombas, we are committed to innovation, quality, and excellence. For this reason, we actively participate in the country's most important industry trade fairs, such as SICUR (the International Security Exhibition), where besides showcasing our products and latest developments, we demonstrate our know-how and expertise in the field of fire-fighting pump systems.





HUMAN TEAM

Following a rigorous and efficient process, from its study in our engineering department to its subsequent manufacturing in the workshop, our highly qualified human team guarantees that each Fire-Fighting Group provides a solution to combat and contain fire.



QUALITY

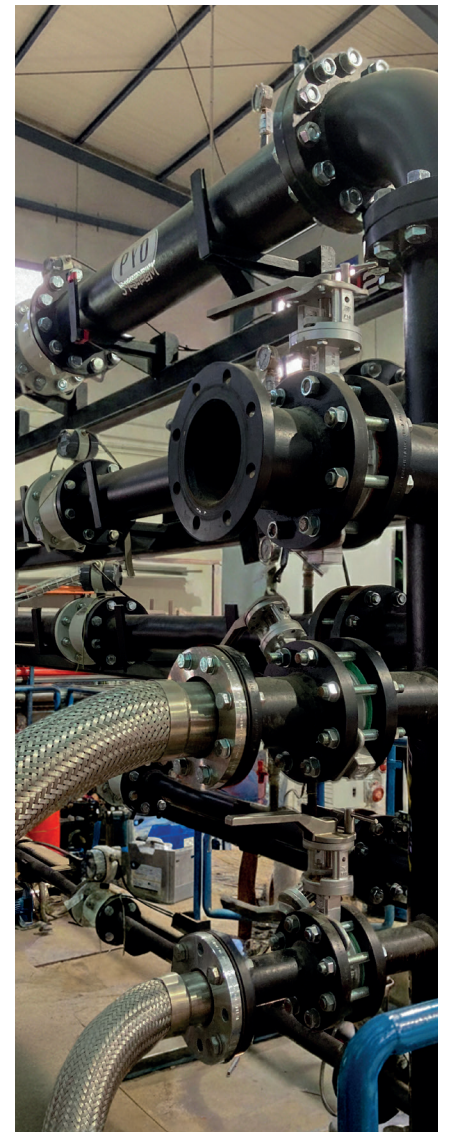
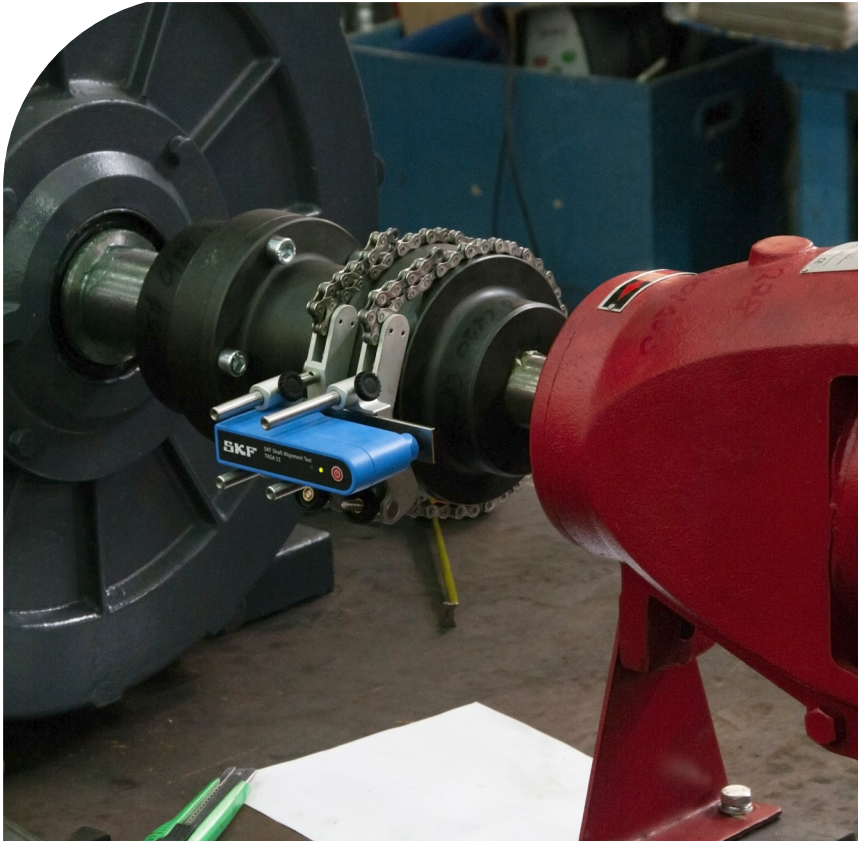
One of our core values, which is why we apply the highest quality standards throughout the entire manufacturing process of our fire-fighting pressure groups. We have a qualified and experienced human team that uses the best raw materials and the most advanced equipment.

Furthermore, we carry out exhaustive quality controls and performance tests on each of our products to ensure their reliability and performance.



TESTING

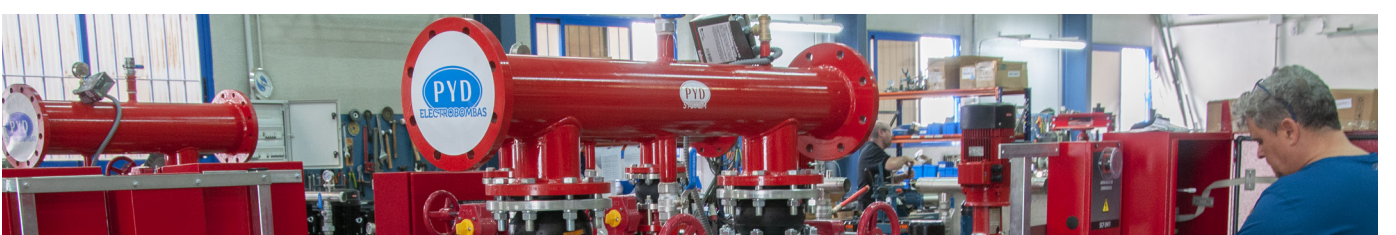
Various tests are carried out during the manufacturing process, both on individual components and on the complete unit once assembled. This guarantees that the product not only meets the standards of each current regulation but also offers the total confidence of a custom-made fire-fighting set, hydraulically and electrically tested and ready for operation.



REGULATIONS

Our fire-fighting pressure groups comply with current national and international regulations, such as UNE 23500-2021, which regulates fire protection water supply systems.

Additionally, we offer a professional and personalized advisory service to help our clients choose the most suitable fire-fighting pressure group for their building or facility. We analyze the characteristics and risks of each project and propose the most efficient and economical solution, adapted to the needs and expectations of each client.



HYDROPNEUMATIC TANK OR ACCUMULATOR

It is a pressurized water tank designed to prevent the jockey pump from repeatedly starting and stopping in situations of leakage or low water demand. Additionally, it serves as a buffer for the installation, mitigating abrupt pressure fluctuations. This not only facilitates the regulation of pressure switches but also reduces undesirable effects such as "water hammer."

COMMON DISCHARGE MANIFOLD

RELIEF VALVE

PRESSURE SWITCHES

They are automatic devices that respond to changes in pressure and provide the command to start the pumps. Adjusted according to the specific duty point of the installation, these automatic switches manage the startup process efficiently.

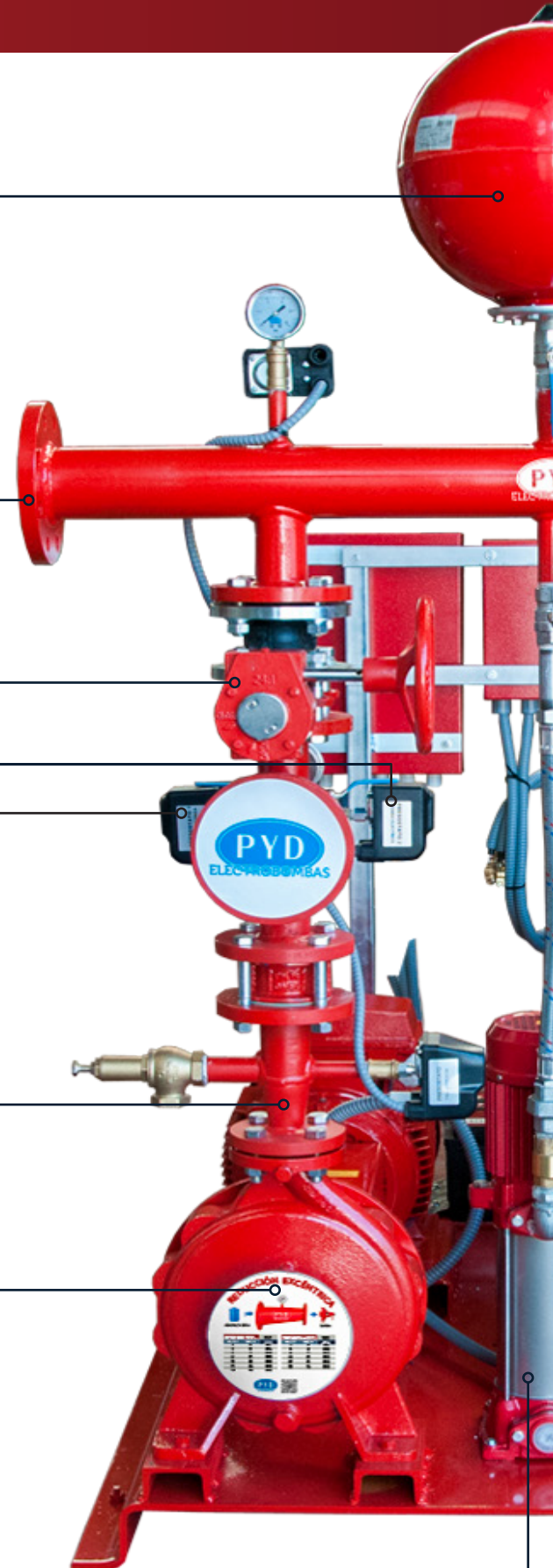
DISCHARGE REDUCTION CONE

MAIN ELECTRIC PUMP

Ofrece un volumen considerable de agua para abastecer mangueras, hidrantes, sprinklers, entre otros. En caso de un incendio importante, cuando se activan estos sistemas o se utilizan las mangueras, la presión en la red disminuirá. Si la bomba jockey no puede mantener la presión por sí sola, esta seguirá disminuyendo hasta que el presostato asociado a la bomba principal la active.

AUXILIARY OR "JOCKEY" PUMP

Its main function is to maintain pressure throughout the fire-fighting piping network and to compensate for any potential leakage in the system or minimum water demand. Its starting and stopping are automatic, controlled by a pressure switch that detects pressure variations.



ELECTRICAL CONTROL PANELS

It is responsible for supervising, operating, and safeguarding the various components that make up the fire-fighting set. The panel's composition may vary depending on the specific characteristics of the unit, but it essentially consists of a terminal block, protection fuses, contactors, circuit breakers, a transformer, a battery, a battery charger, and a siren, among other elements.

ACTUATOR CONTROL PANEL

BALL VALVE

TEST MANIFOLD BYPASS

RELIEF VALVE

JOCKEY CHECK VALVE

JOCKEY DISCHARGE ELBOW

GENERAL BASEPLATE

MAIN DIESEL PUMP

It has the same function as the main pump. It will start operating when the network pressure falls below the start threshold of the main electric pump, indicating that the main pump has failed to operate for any reason (power outage, failure, etc.).



CUADRO DE PROTECCIÓN Y ARRANQUE DIÉSEL



BATERÍAS



MANÓMETRO



NUDO DE ENLACE BOMBA CON MOTOR



VÁLVULA DE RETENCIÓN



JOCKEY PUMP: VERTI-P series

Construction materials

Suction and discharge casing in cast iron. Sleeve and rotor shaft in stainless steel. Impellers and diffusers in PP (polypropylene).

OPERATING RANGE	
Continuous duty	
Maximum liquid temperature	35°C
Insulation class	F
Protection degree	IP55



JOCKEY PUMP: ULTRA series

Construction materials

Suction and discharge casing in cast iron. Sleeve and rotor shaft in stainless steel. Impellers and diffusers in Noryl.

OPERATING RANGE	
Continuous duty	
Maximum liquid temperature	35°C
Insulation class	F
Protection degree	IP44



MAIN PUMP: CTV series

Construction materials

Suction and discharge casing in cast iron. Sleeve, tie rods, and screws/bolts in AISI 304 stainless steel. Impellers and diffusers in glass-fiber reinforced Noryl.

OPERATING RANGE	
Continuous duty	
Maximum liquid temperature	20
Temperatura máxima del líquido:	de 0° a 80°C
Insulation class	F
Protection degree	IP58



MAIN PUMP: NW series

Construction materials

Pump body, bracket, and coupling in cast iron. Shaft and impeller in stainless steel.

OPERATING RANGE	
Maximum head:	100 m
Maximum liquid temperature:	105°C
Working pressure:	10 bar



MAIN PUMP: CM series

Construction materials

Pump body, bracket, and coupling in cast iron. Shaft and impeller in stainless steel.

OPERATING RANGE	
Maximum head	100 m
Maximum liquid temperature	105°C
Working pressure	10 bar

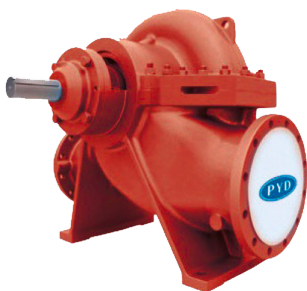


MAIN PUMP: CX series

Construction materials

Hydraulic components entirely manufactured in AISI 304 stainless steel. Graphite/ceramic mechanical seal.

OPERATING RANGE	
Continuous duty	
Maximum liquid temperature	de 0° a 70°C
Max. working pressure	10 bar
Insulation class	F
Protection degree	IP55



MAIN PUMP: Split case

Construction materials

Cast iron casing, standard bronze/cast iron/optional stainless steel impeller, ASTM1045 standard shaft.

OPERATING RANGE	
Max. head	170 m
Maximum liquid temperature	105°C
Working pressure	25 bar



MAIN PUMP: CBS series

Construction materials

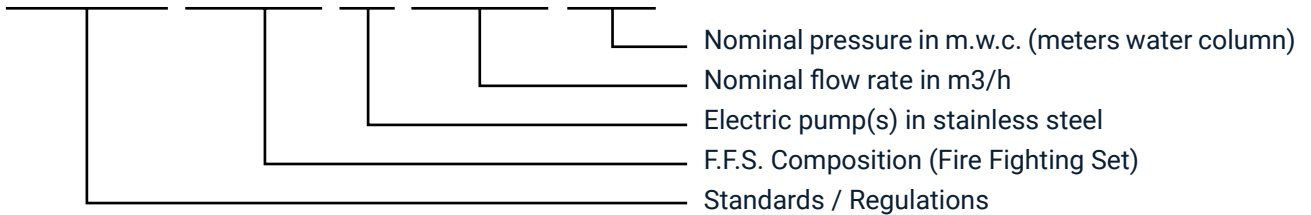
Cast iron casing, ASTM1045 standard shaft, and standard bronze/cast iron/optional stainless steel impeller.

OPERATING RANGE	
Max. head	170 m
Maximum liquid temperature	105°C
Working pressure	25 bar



NOMENCLATURE

UEC JED X 120 70



STANDARDS



- U90: UNE 23500:1990
- UEC: UNE 23500:2012
- U12C: UNE 23500:2012 - Anex C
- U21: UNE 23500:2021
- U21S: UNE 23500:2021 – Single supply
- CEPREVEN RT2-ABA
- EN 12845



F.F.S. COMPOSITION:

- JE: Jockey + Main Electric Pump
- JD: Jockey + Main Diesel Pump
- JEE: Jockey + Main Electric + Auxiliary Electric Pump
- JDD: Jockey + Main Diesel + Auxiliary Diesel Pump
- JED: Jockey + Main Electric + Auxiliary Diesel Pump
- *JEDD: Jockey + Main Electric + 2 Diesel Pumps
- * JDDD: Jockey + 3 Diesel Pumps

*(With 50% of the nominal flow rate)



DOCUMENTATION:



Main Control Panel Manual: Jockey + Electric Pumps



Jockey Pump Control Panel Manual



Diesel Control Panel Manuals



Enclosure Control Panel Manual



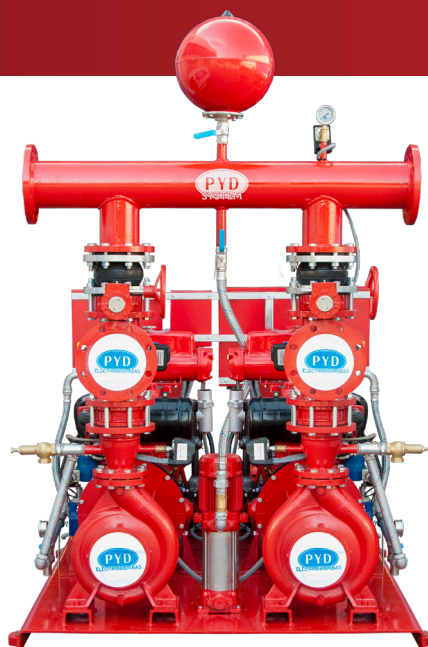
Instruction and Maintenance Manual for the Fire Pump Set



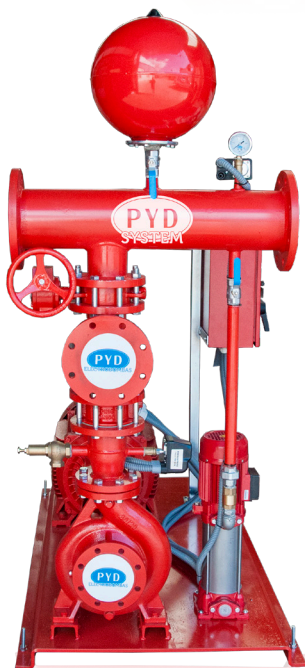
CE Certificate



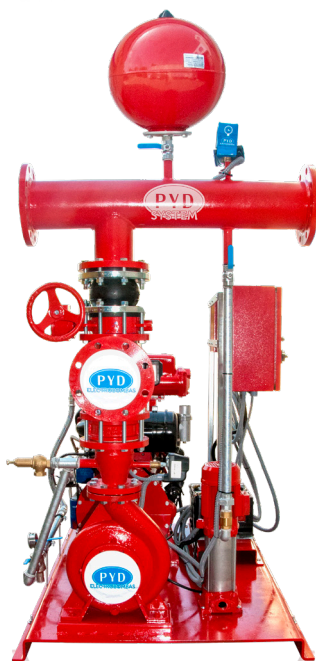
UEC JED 23 500



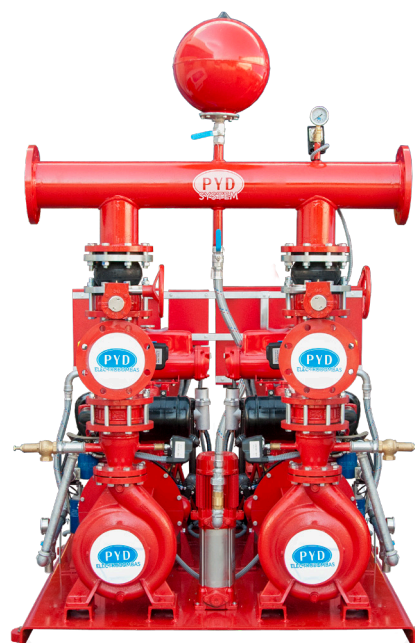
UEC JDD 120 70



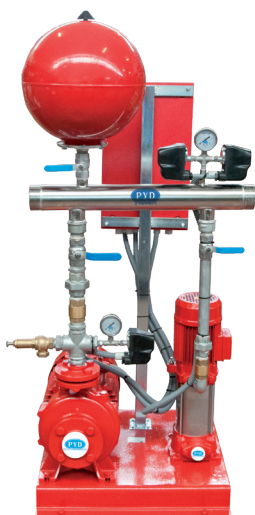
UEC JE 120 60



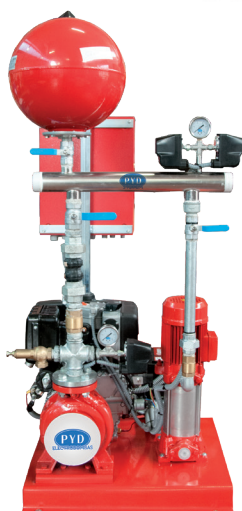
UEC JD 120 70



UEC JED 120 70



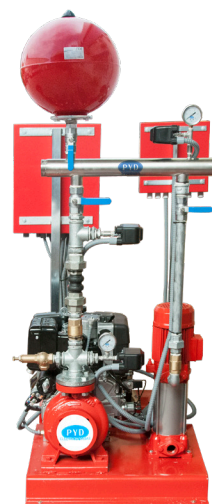
U90 JE 24 60



U90 JD 12 60



U90 JED 12 65



U18 JD 12 60

UNE 23-500/12

The 2012 version has been the fundamental pillar for the design of fire protection water supplies in Spain. However, it is vital to understand its current status:

- **Transitional Validity:** Although it was the standard required by the RIPCI until May 2022, it is currently considered a phase-out standard. Its application today is strictly limited to the maintenance of existing installations or projects whose licenses were linked to its period of validity.
- **Limitations:** As a standard from over a decade ago, it does not account for current technological advancements or technical harmonization with the rest of Europe.

UNE 23-500/21

The 2021 version is not just an update; it is the new regulatory framework that ensures maximum system reliability. It is the standard that must govern any new project or equipment retrofit for several critical reasons:

- **Enhanced Safety and Control:** It introduces stricter requirements, such as dual battery chargers and 6 mandatory start attempts for diesel sets.
- **Total Traceability:** It requires control panels with event logging (Annex H), allowing for a real-world audit of the unit's performance.
- **European Unification:** It aligns our installations with European Union safety standards, increasing power margins and the robustness of electrical components.

Choosing UNE 23500:2021 is not optional if you are looking for a cutting-edge installation. It is the version that addresses the shortcomings of previous editions and ensures that the protection system is prepared for both current and future inspection requirements. Its main pillars are:

- **Guaranteed Start-up:** This regulation eliminates any uncertainty during the critical ignition moment. It mandates the installation of independent dual battery chargers and the configuration of 6 start attempts for all diesel units. This ensures the engine responds successfully even under adverse environmental conditions or after long periods of inactivity.
- **Intelligent Traceability:** The control panel now acts as the system's "black box." In compliance with Annex H, it is mandatory to integrate an event log that allows for a real-world audit of the history of faults, alarms, and functional tests. This greatly facilitates preventive maintenance tasks and official inspections.
- **Electrical Robustness:** The endurance standard for the entire installation has been raised. The regulation increases the requirements for the sizing and rating of electrical components and expands the nominal power margins of the engines, guaranteeing that the equipment can operate at full capacity continuously without suffering from mechanical fatigue or overheating.
- **Unification and Clarity:** The 2021 version seeks full harmonization with European Union safety standards. This includes the strict unification of color codes for indicator lights—a vital measure for emergency or maintenance personnel to identify the status of the unit at a glance, eliminating any margin of error in signal interpretation.

UNE RT2-ABA CEPREVEN

The **CEPREVEN RT2-ABA** Technical Rule is the reference framework in Spain and Latin America for ensuring maximum reliability in fire protection systems. This regulation establishes strict requirements for the design and assembly of pump sets:

- **Pumping Configuration:** Systems must feature a main pump with automatic start and exclusively manual stop, alongside an auxiliary (jockey) pump to maintain network pressure.
- **High-Resistance Components:** The use of corrosion-resistant materials is mandatory, with impellers manufactured in bronze or stainless steel to ensure durability.
- **Efficient Hydraulic Design:** The installation must include eccentric reducers at the suction inlet and concentric reducers at the discharge outlet, guaranteeing optimal available NPSH and preventing the formation of air pockets
- **Safety and Maintenance:** The design must allow for maintenance without dismantling the motor, featuring forced recirculation systems to prevent overheating and supervised isolation valves.

This regulation ensures the equipment's redundancy and power independence, certifying to insurance companies that the system will respond with full effectiveness until the emergency is under control.

To guarantee compliance with these rigorous standards, we subject every unit to an exhaustive validation process at our facilities. Our Test Bench is not merely a control stage, but the setting where we certify the real-world response capacity of each pump set against the requirements of the CEPREVEN regulation.

TEST BENCH

Our testing facility ensures that each pump set complies with the highest reliability standards and the demanding CEPREVEN (RT2-ABA) technical rules. Within this controlled environment, we subject the units to critical validations to ensure their response during an emergency:

- **Operational Verification:** We verify the automatic start and exclusively manual stop, ensuring an uninterrupted water supply.
- **Hydraulic Performance:** We test the parallel operation of the main pumps and the effectiveness of the jockey pump in maintaining network pressure.
- **Mechanical Safety:** We validate the resistance of materials (bronze/stainless steel) and the absence of water hammer or overheating through forced recirculation.
- **Design Certification:** We ensure that the suction and discharge configuration optimizes the NPSH, guaranteeing the equipment's robustness for insurance purposes.

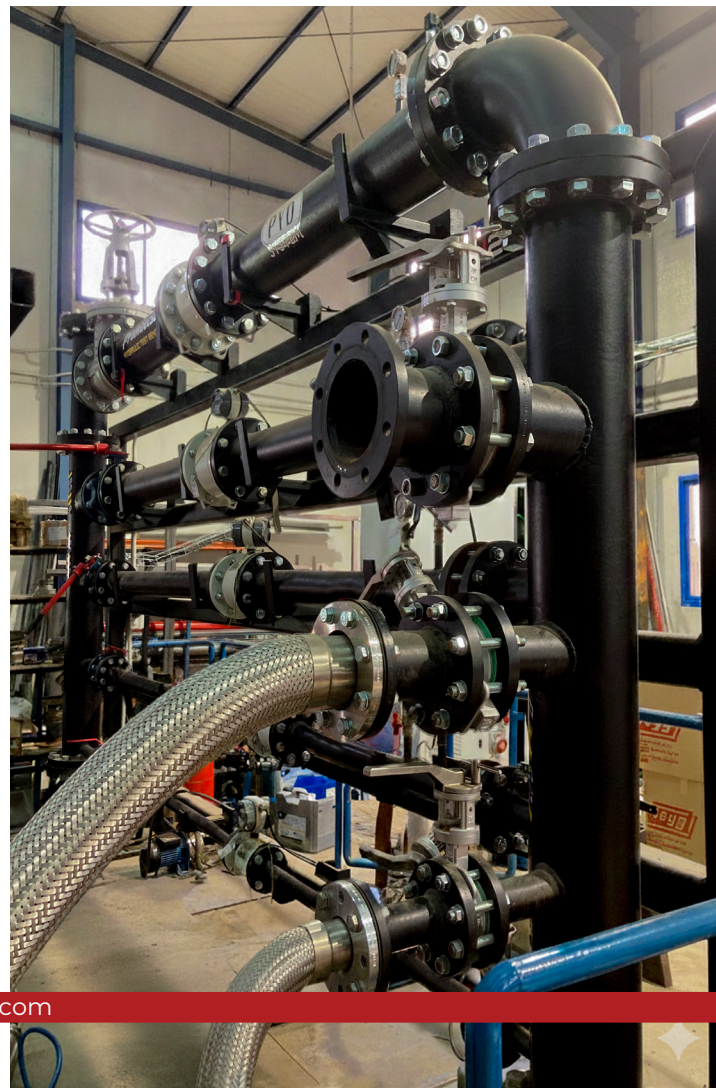


PHOTO GALLERY





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