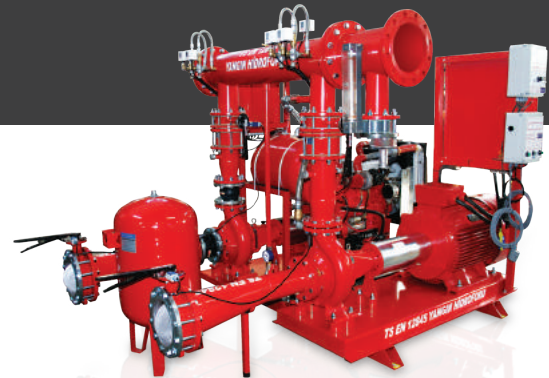


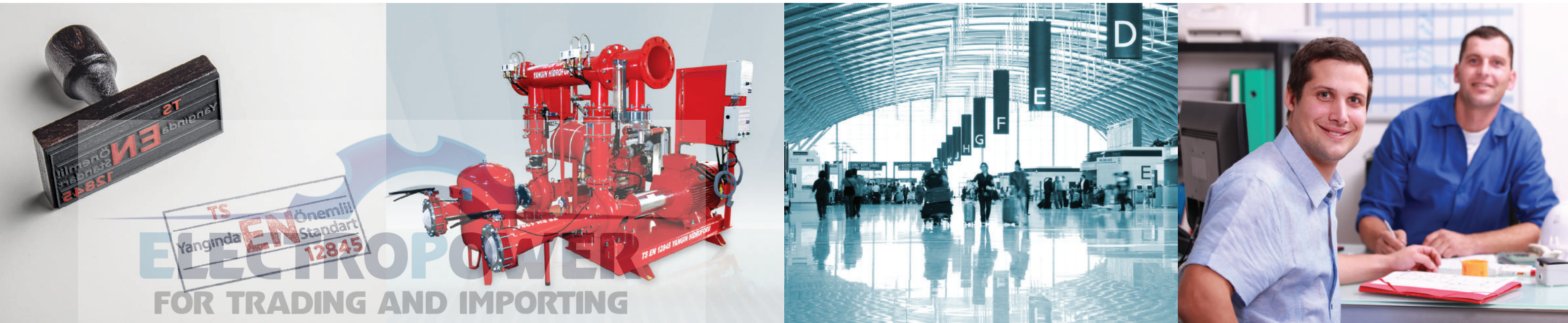


Fire Pump Systems In Accordance With TS EN 12845 + A2 Standard

✓ ETN YE Series



ETNA Fire Pump Systems



What is the most important standard for fire?

The answer is already in the question, it is the TS EN 12845 + A2 Turkey Firefighting Standard. And ETNA is the first Turkish brand to produce fire pump systems in accordance with TS EN 12845.

About TS EN Standard

TS EN 12845 + A2 (2012) standard is exactly the same as the EN 12845 + A2 (2009) standard, and it is the first **"Turkish Fire Standard"** to be established by the Turkish Standards Institute (TSE) with the permission of the European Committee for Standardization (CEN). This standard was established based on the EN 12845 + A2 (2009) standard that is accepted by CEN, prepared by the TSE Engineering Services Expertise Group, and accepted and issued as a "Turkish Standard" at the TSE Technical Council meeting on July 19, 2012.

Why should we use a fire pump in accordance with TS EN 12845 + A2?

Based on the "Regulation on Fire Protection of Buildings" and the provisions of TS EN 12845 + A2 Fire Pump standard;

- The firefighting measures to be taken and the "Fire Pump" to be installed should be in accordance with the provisions of the regulation. In the case of non-compliance to the regulation provisions, the building **cannot get an occupancy permit (residential usage license)**.
- The employer, the employer representatives, the architect, and engineers who took roles in design and construction, the building inspection organizations, the contractor, the manufacturer, and the consultants **are conjointly responsible for** fire damage that may arise due to non-compliance to the regulation provisions.
- The systems containing sprinklers should be designed according to TS EN 12845 + A2 and their fire pumps should be in accordance with the Turkish fire standard TS EN 12845 + A2.

ETNA Fire Pump Systems

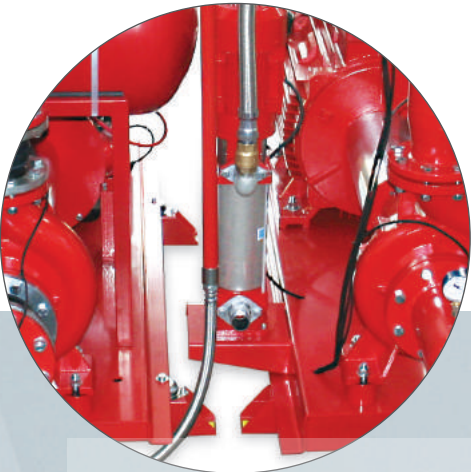
The fire pump systems in accordance with TS EN 12845 + A2 are designed and manufactured in accordance with the requirements of the TS EN 12845 + A2 (Design, Installation and Maintenance of Fixed Fire Extinguishing Systems and Automatic Sprinkler Systems) standard that is in force.

- Each set uses ETNA EA Series end-suction (norm) pumps.
- **Fire pump systems in accordance with NFPA 20 are manufactured upon request.**

Exact Answer to Your Need

Our expert engineer team helps you determine the right pump system for your project. Our products are delivered as full sets including electric- or diesel-driven pumps, jockey pumps, electric or diesel control board, individual modular chassis for each pump or connectors on a common chassis, and all accessories.

ETNA Pump Details
(in accordance with the TS EN 12845 + A2 Standard)

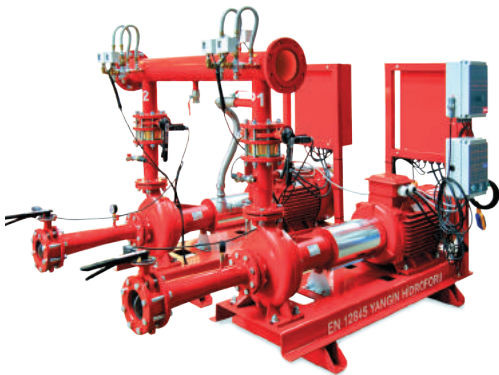


Jockey pump



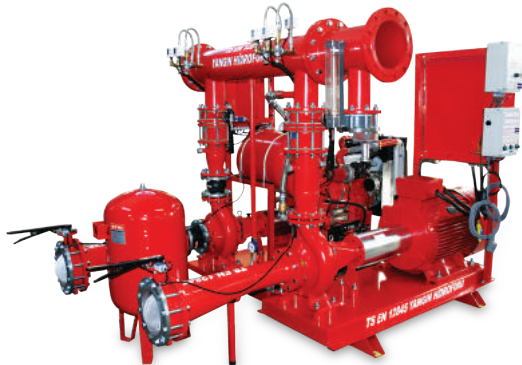
Electric-Driven
Vertical Shaft Multistage Fire Pump

Number of Main Pumps	: 1 to 3
Number of Jockey Pumps	: 1
Maximum Capacity - Flow Rate	: 3 x 140 m ³ /h
Maximum Pressure	: 200 mSS
Max. Electric Pump Power	: 90 kW
External Control Voltage	: 24 V
Panel Control Class	: IP 54



Electric-Driven
Fire Pump

Number of Main Pumps	: 1 to 3
Number of Jockey Pumps	: 1
Maximum Capacity - Flow Rate	: 3 x 500 m ³ /h
Maximum Pressure	: 120 mSS
Max. Electric Pump Power	: 200 kW
External Control Voltage	: 24 V
Panel Control Class	: IP 54



Electric- / Diesel-Driven
Fire Pump

Number of Main Electrical Pumps	: 1
Number of Main Diesel Engine Pumps	: 1
Number of Jockey Pumps	: 1
Maximum Capacity - Flow Rate	: 2 x 500 m ³ /h
Maximum Pressure	: 120 mSS
Max. Electric Pump Power	: 200 kW
Max. Diesel Pump Power	: 225 kW
External Control Voltage	: 12 - 24 V
Panel Control Class	: IP 54



**Electric-Driven Pump
Protection-Control Board**

- Except for the engine, all outlet connections are low voltage (12/24 Vdc)
- 3 Voltmeters
- 3 Ammeters (max.1000 A)
- Grid phase meter 50/60 Hz
- Phase sequence
- Wattmeter (Active power)
- Varmeter (Reactive power)
- Voltammeter (Current power)
- Cosine meter (Power factor)
- Total operating time
- Partial operating time
- Automatic - Manual switch, manual start and stop in manual mode



**Diesel-Driven Pump
Protection-Control Board**

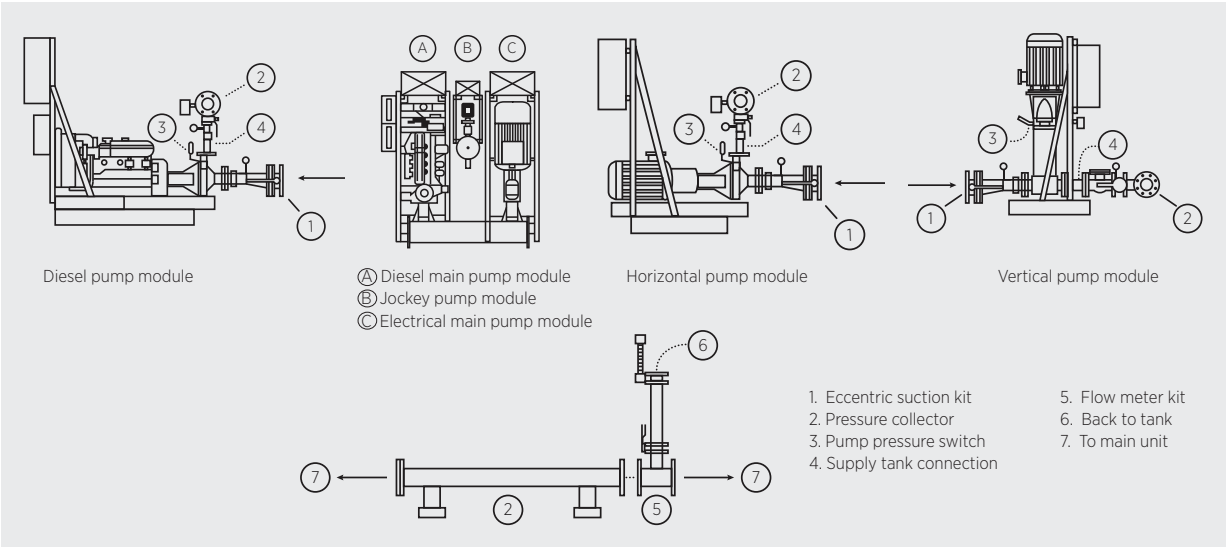
- Except for the engine, all outlet connections are low voltage (12/24 Vdc)
- 2 Batteries
- 2 Voltmeters
- 2 Battery ammeters
- Tachometer
- Temperature gauge
- Oil temperature gauge
- Oil pressure gauge
- Fuel level gauge
- 2 Battery charging rectifiers
- Battery efficiency control
- Operation error report
- Manual operation buttons
- Warning lamp test button
- Test commissioning
- Monitoring individual charging of batteries
- 6 automatic start-up attempts for batteries (3+3)
- Automatic - Manual switch, manual start and stop in manual mode

**TS EN 12845 + A2
Booster Versions**

Series	Description	
ETNDI	Diesel engine pump	
ETN01D	Diesel engine pump and jockey pump booster set	
ETN10D	Booster set with diesel engine pump and electrical engine	
ETN11D	Booster set with diesel engine, electrical engine, and jockey pump	

Series	Description	Horizontal pump series	Vertical shaft series
ETN10	Booster set with electrical engine pump		
ETN11	Booster set with electrical engine pump and jockey pump		
ETN20	Booster set with two main electrical pumps		
ETN21	Booster set with two main electrical engine pumps and jockey pump		

Modular System





After-Sales Services

With our more than 35 years sector experience, 104 service points all around Turkey, and customer-oriented after-sales approach to service, we are always with you (commissioning, maintenance and repair, spare part supply).

ELECTROPOL

FOR TRADING AND IMPORTING



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