

Micra®

Pompa • Yangın Söndürme Sistemleri • Hidrofor

MICRA POMPA VE MAKİNA İMALAT LTD. ŞTİ.



MICRA
— POMPA —

FIRE PUMP SYSTEMS

PRODUCT CATALOG

NFPA 20
COMPLIANT

NFPA® 20
CERTIFIED



NFPA 20
CERTIFIED



HIGH
PERFORMANCE



RELIABLE
PROTECTION



EASY
MAINTENANCE



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**RELIABLE. POWERFUL.
BUILT FOR SAFETY.**

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ABOUT US

Micra Pompa, founded with the vision of providing reliable, high performance and long lasting pump solutions, is a leading manufacturer of fire pump systems in accordance with NFPA 20 standard.

With our experienced engineering team, modern production facility and customer-oriented approach, we design and manufacture fire pump systems that ensure safety in every project.

Our mission is to protect lives and property by delivering the right solutions with high quality, on-time delivery and continuous support.



20+
YEARS OF
EXPERIENCE



100+
EXPERT
EMPLOYEES



MODERN
PRODUCTION
FACILITY



NFPA 20
COMPLIANT
PRODUCTS

Our Solutions

We offer a wide range of fire pump systems and accessories for various applications. All products are manufactured in accordance with NFPA 20 standard and tested to ensure maximum reliability and performance.

- Horizontal Split Case Fire Pumps
- Vertical Turbine Fire Pumps
- Jockey Pumps
- Control Panels
- Accessories



Our Commitment



Quality

We are committed to the highest quality standards in every stage from design to production.



Reliability

Our systems are designed for maximum reliability and continuous operation in critical conditions.



Support

We provide fast and effective after-sales support with our experienced technical service team.

NFPA 20 STANDARD

NFPA 20 is the most widely accepted and most detailed standard for the installation, performance, inspection, testing and maintenance of stationary fire pumps for fire protection systems.

All Micra Pompa fire pump systems are designed, manufactured and tested in accordance with NFPA 20 requirements to ensure maximum reliability, safety and performance.



NFPA® 20
CERTIFIED



Our fire pump systems are NFPA 20 CERTIFIED and built to perform when it matters most.



SAFETY
COMPLIANCE



RELIABLE
PERFORMANCE



QUALITY
ASSURANCE



LIFE & PROPERTY
PROTECTION

Key Requirements of NFPA 20



Performance Requirements

Fire pumps must meet specific performance criteria including rated flow, rated pressure and maximum working pressure.



System Components

Requirements for pump types, drivers, controllers, accessories and their installation.



Testing & Inspection

Hydrostatic tests, performance tests and periodic inspections to ensure system readiness.



Installation & Operation

Guidelines for proper installation, operation and maintenance to ensure long term reliability.



Maintenance

Regular maintenance and testing to keep the fire pump system in full operational condition.



Documentation

Proper documentation, record keeping and tagging as per NFPA 20 standard.

FIRE PUMP SYSTEMS

ENGINEERED FOR SAFETY.
BUILT FOR RELIABILITY.

Micra Pompa offers a wide range of fire pump systems designed to provide reliable protection in accordance with NFPA 20 standards.

Our systems are engineered for high performance and long lasting operation in critical conditions.



COMPLETE FIRE PUMP SOLUTIONS



HORIZONTAL SPLIT CASE FIRE PUMPS

High efficiency pumps for reliable and continuous performance.



VERTICAL TURBINE FIRE PUMPS

Ideal for large capacity applications with compact installation.



JOCKEY PUMPS

Maintain system pressure and prevent unnecessary main pump starts.



CONTROL PANELS

Advanced control panels for automatic operation and system monitoring.



ACCESSORIES

A wide range of accessories to complete your fire pump system.



TESTING & QUALITY

All systems are tested to ensure maximum reliability and compliance.



APPLICATIONS



COMMERCIAL BUILDINGS



INDUSTRIAL FACILITIES



SHOPPING MALLS & RETAIL CENTERS



HOSPITALS



WAREHOUSES



AIRPORTS



MARINE & OFFSHORE APPLICATIONS

HORIZONTAL SPLIT CASE FIRE PUMPS

Horizontal split case fire pumps are designed for high efficiency and reliable performance in fire protection systems. They are widely used in industrial and municipal applications where high capacity and stable operation are required.



HIGH EFFICIENCY

Optimized hydraulic design for high efficiency and low energy consumption.



RELIABLE PERFORMANCE

Robust construction ensures long service life and continuous operation.



EASY MAINTENANCE

Back pull-out design allows easy inspection and maintenance without disturbing piping.



GENERAL FEATURES

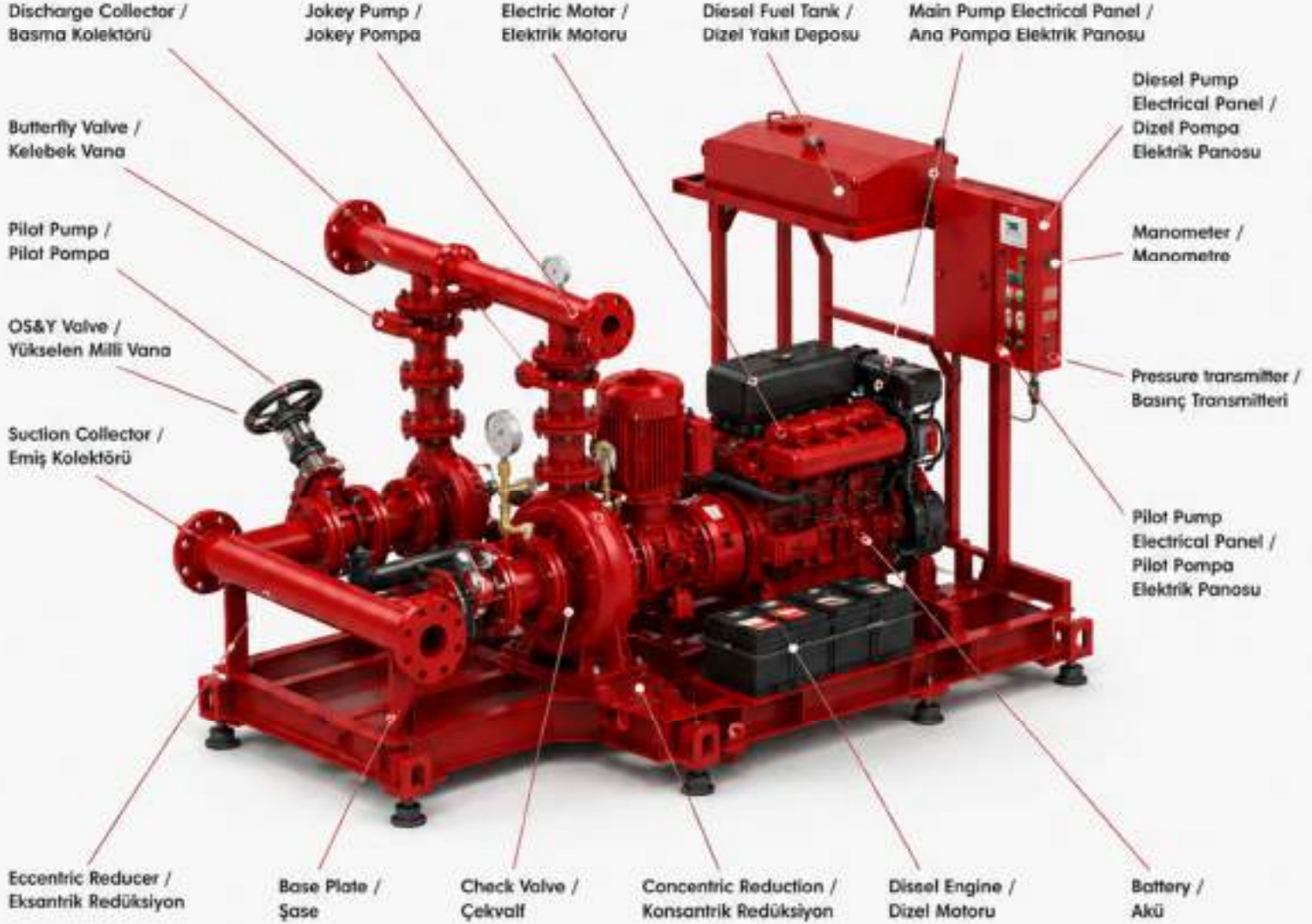
- Designed according to NFPA 20 standard
- Capacities up to 5000 GPM (1136 m³/h)
- Pressures up to 250 PSI (17 bar)
- Back pull-out design for easy maintenance
- High efficiency and low NPSH values
- Available with electric motor or diesel engine drive
- Horizontal shaft, split case design
- Various material options
- Suitable for 50 Hz and 60 Hz applications
- Factory tested to NFPA 20

PERFORMANCE RANGE

 CAPACITY	 HEAD	 PRESSURE	 TEMPERATURE	 SPEED
up to 5000 GPM (1136 m³/h)	up to 500 m (1640 ft)	up to 250 PSI (17 bar)	up to 80 °C	1450 – 3600 RPM

SYSTEM PERSPECTIVE

SİSTEM PERSPEKTİFİ



Integrated & Reliable Design

All components of Micra fire pump systems are carefully selected and integrated to provide maximum reliability, easy maintenance and long service life in accordance with NFPA 20 standards.



**SAFETY
COMPLIANT**



**HIGH
PERFORMANCE**



**EASY
MAINTENANCE**

JOCKEY PUMP SYSTEMS

Jockey pumps are small capacity pumps designed to maintain system pressure and compensate for minor leakages in the fire protection system. They prevent unnecessary starts of the main fire pump and ensure that the system is always ready for operation.

Micra Pompa jockey pump systems are designed and built in accordance with NFPA 20 standards to provide reliable and continuous pressure maintenance.



PRESSURE MAINTENANCE

Maintains system pressure and compensates for minor leakages.



SYSTEM PROTECTION

Prevents pressure drops and keeps the system ready at all times.



MAIN PUMP PROTECTION

Reduces the number of main pump starts and extends system life.



ENERGY EFFICIENT

Low power consumption with efficient and reliable operation.



NFPA 20 COMPLIANT

Designed, tested and manufactured in accordance with NFPA 20.

GENERAL FEATURES

- Designed according to NFPA 20 standard
- Capacities up to 250 GPM (57 m³/h)
- Pressures up to 250 PSI (17 bar)
- Electric motor driven
- Compact and space saving design
- Automatic start/stop control with pressure switch
- Factory tested to NFPA 20

TYPICAL APPLICATIONS



Sprinkler systems



Industrial facilities



Commercial and residential buildings



Warehouses and storage facilities



Marine and offshore applications

PERFORMANCE RANGE



CAPACITY

up to
250 GPM
(57 m³/h)



HEAD

up to
250 m
(820 ft)



PRESSURE

up to
250 PSI
(17 bar)



TEMPERATURE

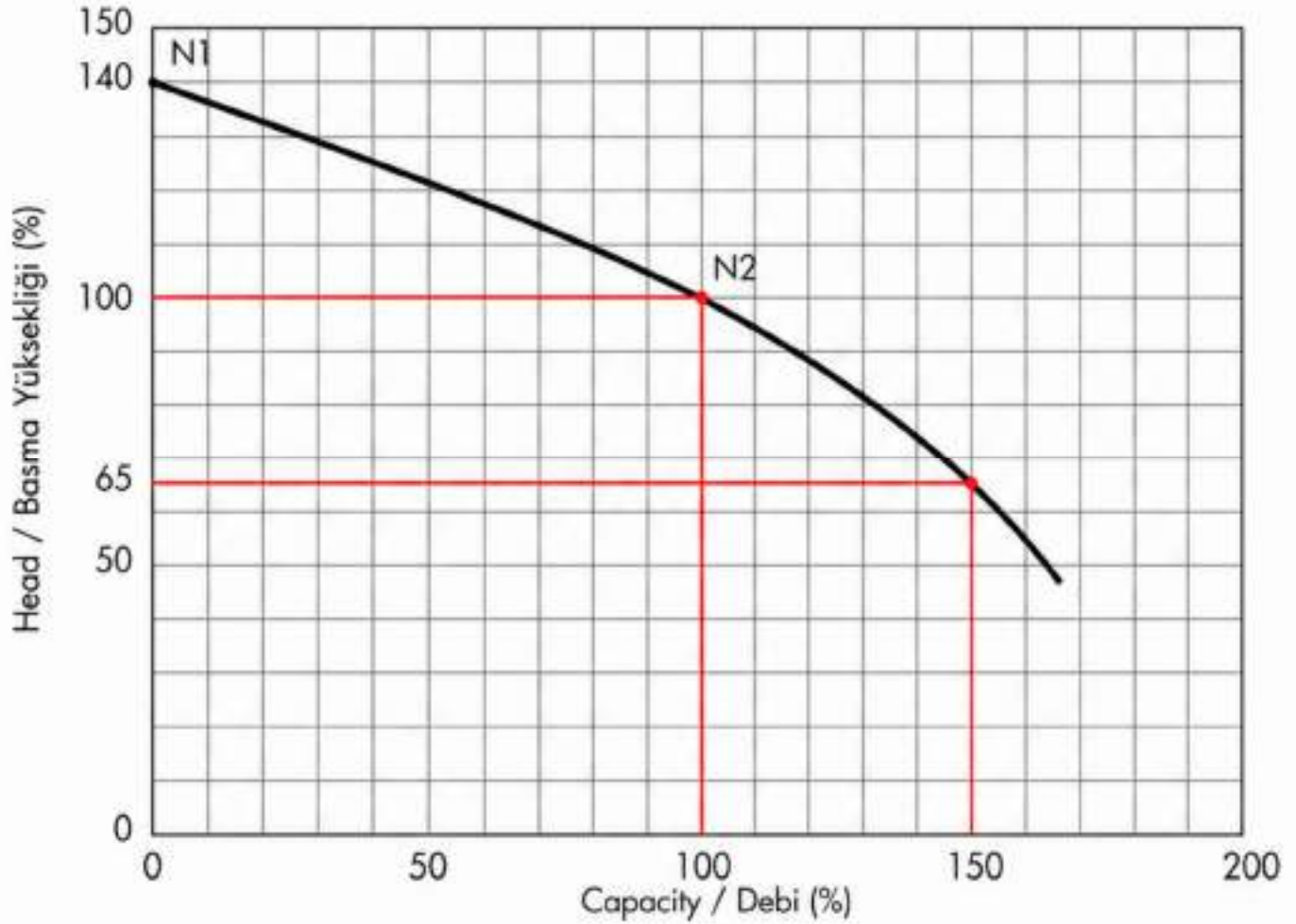
up to
80 °C



SPEED

2900 – 3600
RPM

PERFORMANCE CURVES



N1: Fully Closed / Tam Kapalı

N2: Rated Pressure and Rated Flow / Anma Basıncı ve Anma Debisi

Curve 1: Characteristic Limit Value Curve

Eğri 1: Karakteristik Limit Değer Eğrisi

■ TECHNICAL SPECIFICATIONS



Design Standard

NFPA 20 – Standard for the Installation of Stationary Pumps for Fire Protection



Capacity

Up to 10000 GPM (22710 m³/h)



Head

Up to 2000 m (6562 ft)



Pressure

Up to 350 PSI (24 bar)



Temperature

Up to 80 °C



Speed

1450 – 3600 RPM



Drive

Electric Motor or Diesel Engine



Testing

Factory tested to NFPA 20



MATERIAL SPECIFICATIONS

PART NAME	MATERIAL	STANDARD	OPTIONAL MATERIALS
Pump Casing	Cast Iron	ASTM A48 CL.30	Ductile Iron, Bronze, Stainless Steel
Impeller	Bronze	ASTM B62	Stainless Steel 304 / 316, Ductile Iron
Shaft	Stainless Steel	AISI 420	AISI 304 / 316, AISI 431
Shaft Sleeve	Stainless Steel	AISI 304	AISI 316
Wear Ring	Bronze	ASTM B62	Stainless Steel 304 / 316
Mechanical Seal	Carbon / Ceramic / NBR	EN 12756	SiC / SiC / Viton, Tungsten Carbide
Base Frame	Carbon Steel	ASTM A36	Stainless Steel (Optional)



Note:

Material options may vary depending on application requirements. Please contact Micra Pompa for special material requests.



NFPA 20
COMPLIANT

FIRE PUMP CONTROL PANELS ACCORDING TO NFPA 20

Electric Driven Pump Pressure Controlled

- Suitable for pressure range and motor size (up to 250 kW)
- 7" HMI screen
- 3-Phase Short Circuit (SCCR)
- Units process water stability for Phase sequencing
- Voltmeter / Phase Control
- Ammeter (Switch select)
- Main contactor (Dual Power) + Contactor (Bypass Type)
- Start / Stop / Auto
- Motor protection
- Fault, Warning and run (Trip after the motor build in a fire pump system)



Diesel Driven Pump Pressure Controlled

- Suitable for pressure range and motor size (up to 250 kW)
- 7" HMI screen
- 3-Phase Short Circuit (SCCR)
- Units process water stability
- Digital meter (voltmeter)
- Oil pressure indicator
- Coolant temperature indicator
- Fuel level indicator
- DC battery voltage
- Run hour meter
- Start / Stop / Auto
- Manual / Automatic
- Engine pre-heating
- Engine stop
- 7 days test program
- Weekly test program
- Engine Charge Alternator
- Low fuel / High fuel alarm
- High coolant temperature / low oil press alarm
- Fail to start during crank (start can be limited 3 times)
- Fault, Warning and run (Trip after the motor build in a fire pump system)



Reliable Protection, Total Control

Micra fire pump control panels are designed in accordance with NFPA 20 to ensure reliable operation and maximum safety for your fire protection systems.



NFPA 20
COMPLIANT



ADVANCED
PROTECTION



RELIABLE
OPERATION

■ FIRE PUMP CONTROL PANELS ACCORDING TO NFPA 20

■ NFPA 20'YE UYGUN YANGIN POMPA KONTROL PANOLARI



Figure 6: NFPA 20 Electrical Front Panel Interior View
Şekil 6: NFPA 20 Elektrikli Yangın Pompa İç Görünüm

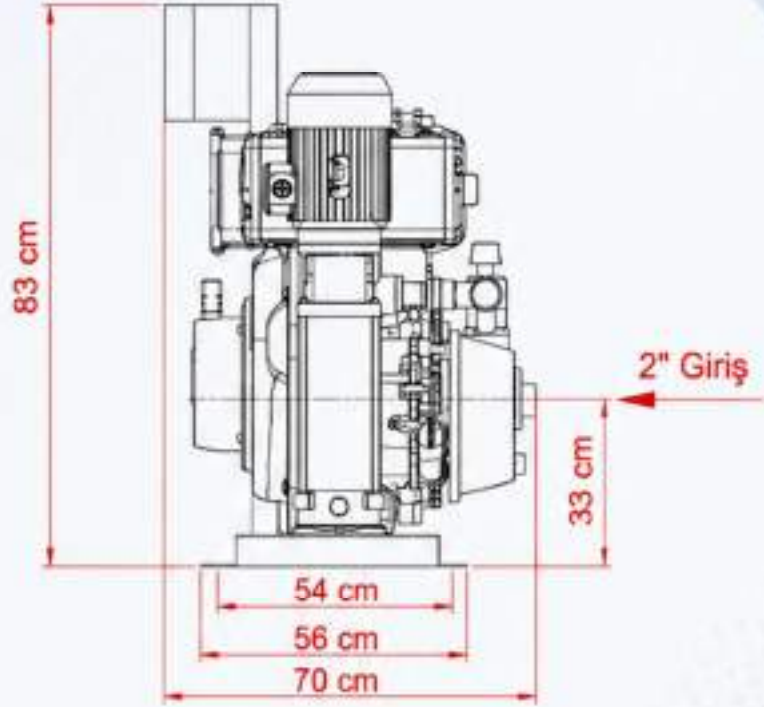


Figure 7: NFPA 20 Diesel Fire Panel Interior View
Şekil 7: NFPA 20 Dizel Yangın Pompa İç Görünüm

ECO SGT SERIES'S DIMENSIONS

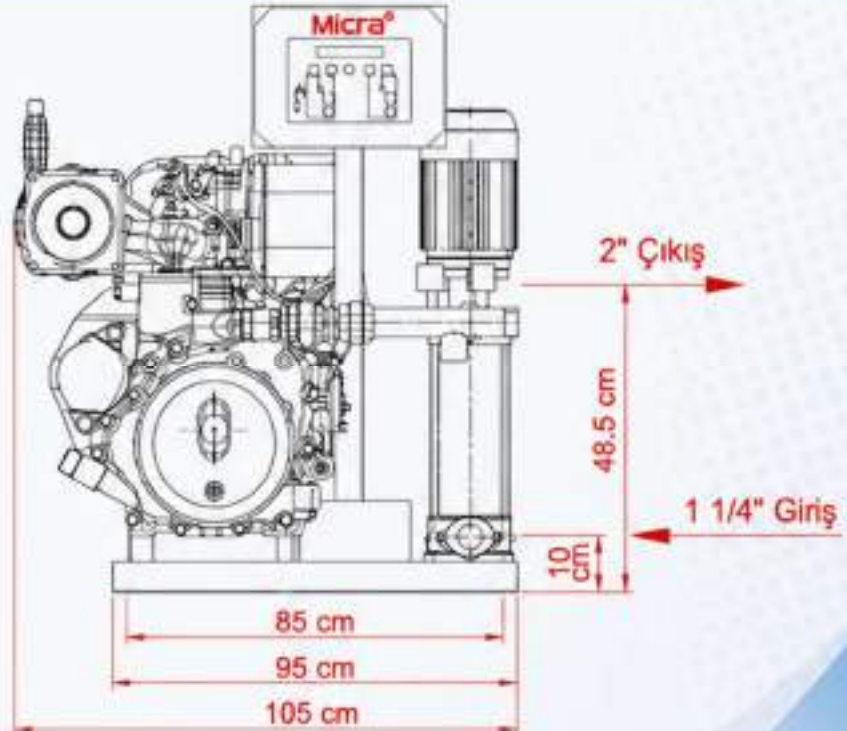
FRONT VIEW

Compact and robust design with optimum performance and easy installation.



SIDE VIEW

Reliable structure with high quality components for long lasting service and maximum efficiency.

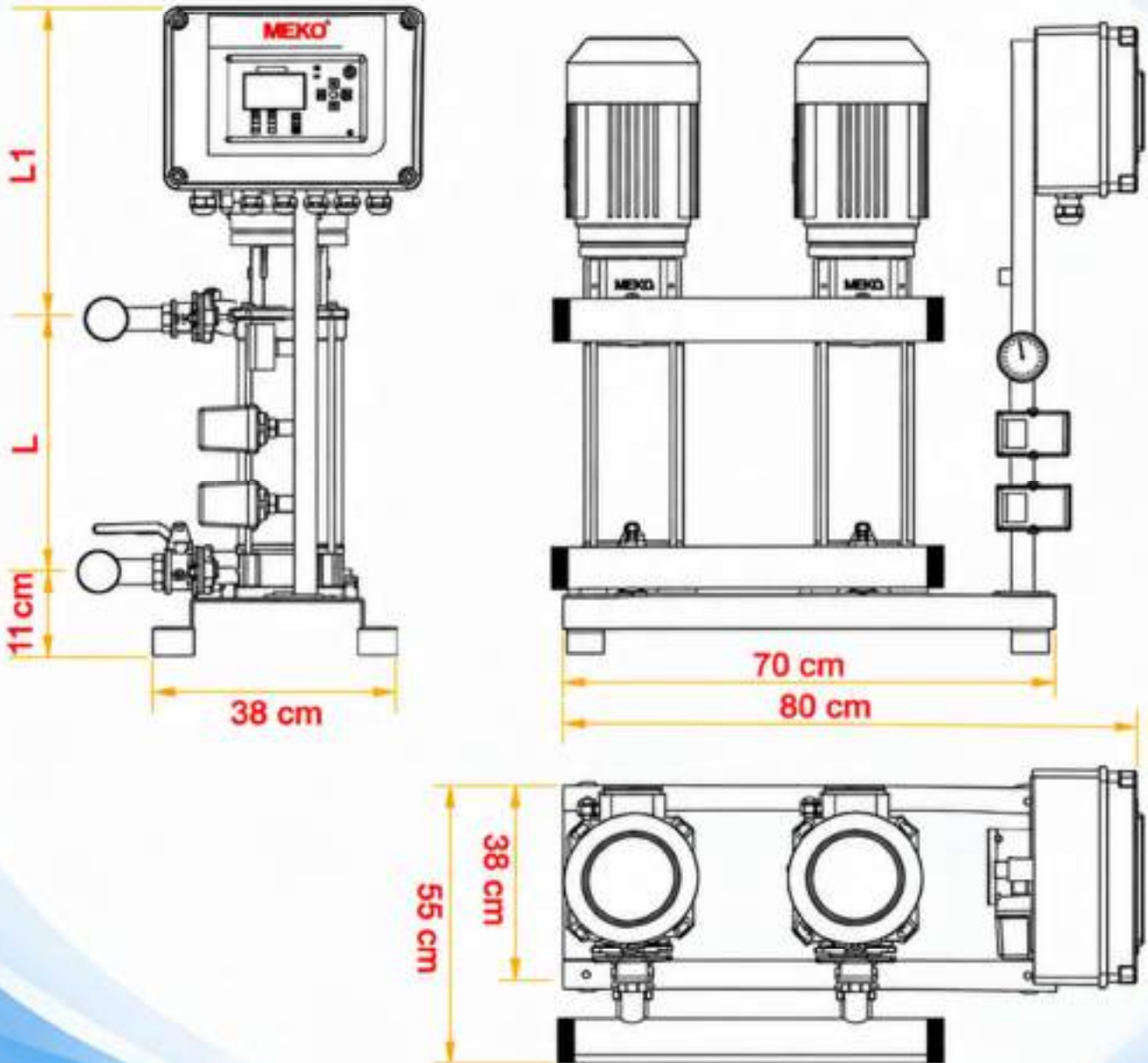


ENGINEERED FOR EXCELLENCE

ECO SGT Series booster systems are designed to deliver reliable performance, easy operation and long service life.



MEKO FIRE SERIES'S DIMENSIONS



COMPACT & RELIABLE DESIGN

MEKO Fire Series booster systems offer high performance, easy installation and long service life with optimized dimensions.

FIRE PUMP SYSTEMS

Reliable Protection, Powerful Performance

Our fire pump systems are designed to provide reliable and continuous water supply for fire protection systems in all conditions. Built with high quality components and advanced engineering, they ensure maximum safety for people and property.



NFPA 20 COMPLIANT

Designed and manufactured in accordance with NFPA 20 standard.



HIGH PERFORMANCE

Robust construction and efficient hydraulic design ensure superior performance.



ADVANCED CONTROL

Intelligent control panel options for automatic operation and monitoring.



EASY MAINTENANCE

User friendly design for easy installation and maintenance.



APPLICATION AREAS

- ✓ Industrial Facilities
- ✓ Commercial Buildings
- ✓ Residential Complexes
- ✓ Hospitals & Schools
- ✓ Warehouses

KEY FEATURES



Electric or Diesel Driven Options



Horizontal Split Case Pump Design



Jockey Pump Options Available



Automatic Start / Stop Function



Low Fuel Consumption (Diesel Model)



Long Service Life & Low Maintenance



Your safety is our mission. Micra Fire Pump Systems always stand ready to protect.

FIRE PUMP SYSTEMS

Engineered for Safety. Built to Perform.

Micra fire pump systems are engineered to deliver reliable performance and maximum protection in fire fighting applications. Our pump systems are manufactured in accordance with international standards and are ready to perform in the most demanding conditions.

SYSTEM COMPONENTS

-  Fire Pump (Main Pump)
-  Diesel Engine / Electric Motor
-  Control Panel (NFPA 20 Compliant)
-  Base Frame & Skid
-  Battery & Charger (Diesel Model)
-  Connecting Piping & Valves
-  Accessories & Instruments



MAXIMUM SAFETY
Reliable fire protection for life and property.



HIGH EFFICIENCY
Powerful performance with low energy consumption.



DURABLE DESIGN
Robust structure for long service life in tough conditions.



EASY SERVICE
User friendly maintenance and service access.

TECHNICAL SPECIFICATIONS

Flow Rate (Q)	Up to 2500 GPM (568 m ³ /h)
Head (H)	Up to 200 m
Power	Electric: Up to 250 kW Diesel: Up to 400 HP
Speed	1450 – 2900 RPM
Suction / Discharge	2" – 8" (DN50 – DN200)
Standard	NFPA 20
Type	Horizontal / Split Case / End Suction
Driver Options	Electric Motor / Diesel Engine / Jockey Pump
Application	Fire Protection Systems
Operating Pressure	Up to 16 bar
Temperature Range	0 °C to +80 °C

WHY CHOOSE MICRA?

- ✓ NFPA 20 compliant systems
- ✓ High quality materials and workmanship
- ✓ Tested and ready to install
- ✓ Global standards, local support
- ✓ Reliable solutions for every project



INTERNATIONAL
STANDARDS



TESTED QUALITY
ASSURED



AFTER SALES
SUPPORT



TURKISH
MANUFACTURER



FIRE PUMP SYSTEMS

Complete Solutions for Fire Protection

Micra provides complete fire pump solutions designed to meet all project requirements. Our systems are engineered, tested and assembled to ensure reliable operation when it matters most.

From design to commissioning, we offer professional support at every step to guarantee safety and performance.



OUR SOLUTIONS INCLUDE:



NFPA 20
Compliant
Systems



Custom
Engineered
Solutions



High Quality
Components
& Materials



Factory
Tested & Ready
to Install



Technical Support
& After Sales
Service

TYPICAL APPLICATIONS



Commercial Buildings

Reliable fire protection for offices, shopping centers and business complexes.



Industrial Facilities

High performance systems for factories, power plants and industrial applications.



Hospitals & Schools

Life safety solutions for healthcare facilities and educational institutions.



Warehouses

Effective protection for storage areas and logistics centers.

SYSTEM ADVANTAGES



RELIABLE PERFORMANCE

Engineered to operate in the most demanding conditions with maximum reliability.



FAST RESPONSE

Designed for quick start and efficient water delivery.



LONG SERVICE LIFE

Built with durable materials and advanced design for extended service life.



ENERGY EFFICIENT

Optimized hydraulic design reduces energy consumption and operating costs.



EASY INSTALLATION

Pre-assembled and factory tested systems for quick and easy installation.



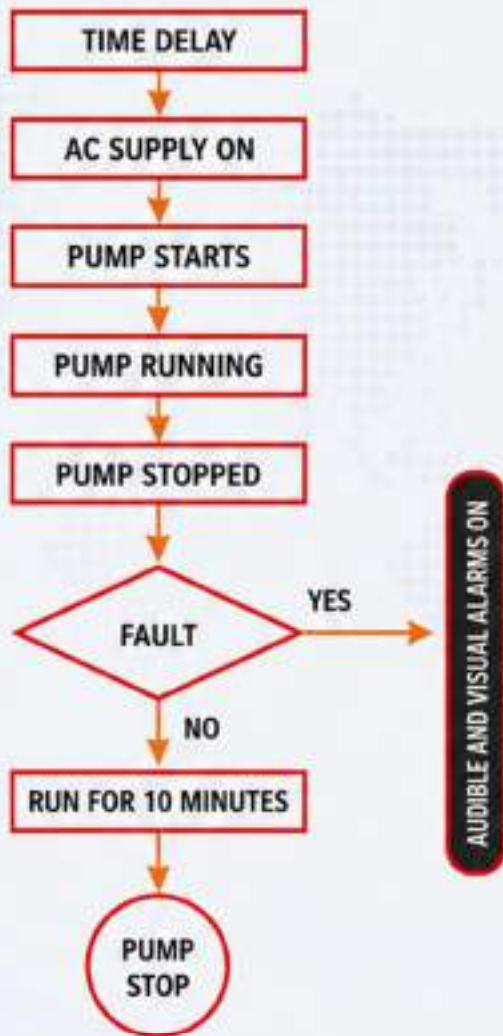
WE ARE ALWAYS READY TO PROTECT

Micra Fire Pump Systems are always ready to deliver reliable protection for life and property.

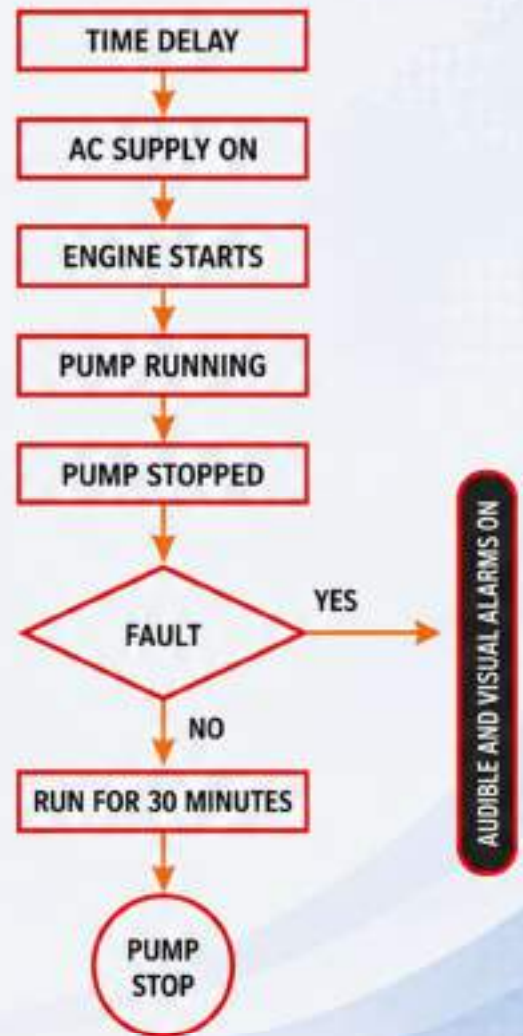


AUTOMATIC WEEKLY TEST ALGORITHM

FOR ELECTRIC PUMP



FOR DIESEL PUMP



The automatic weekly test ensures that the fire pump system is always ready for operation.

In case of any fault, audible and visual alarms are activated for immediate notification.

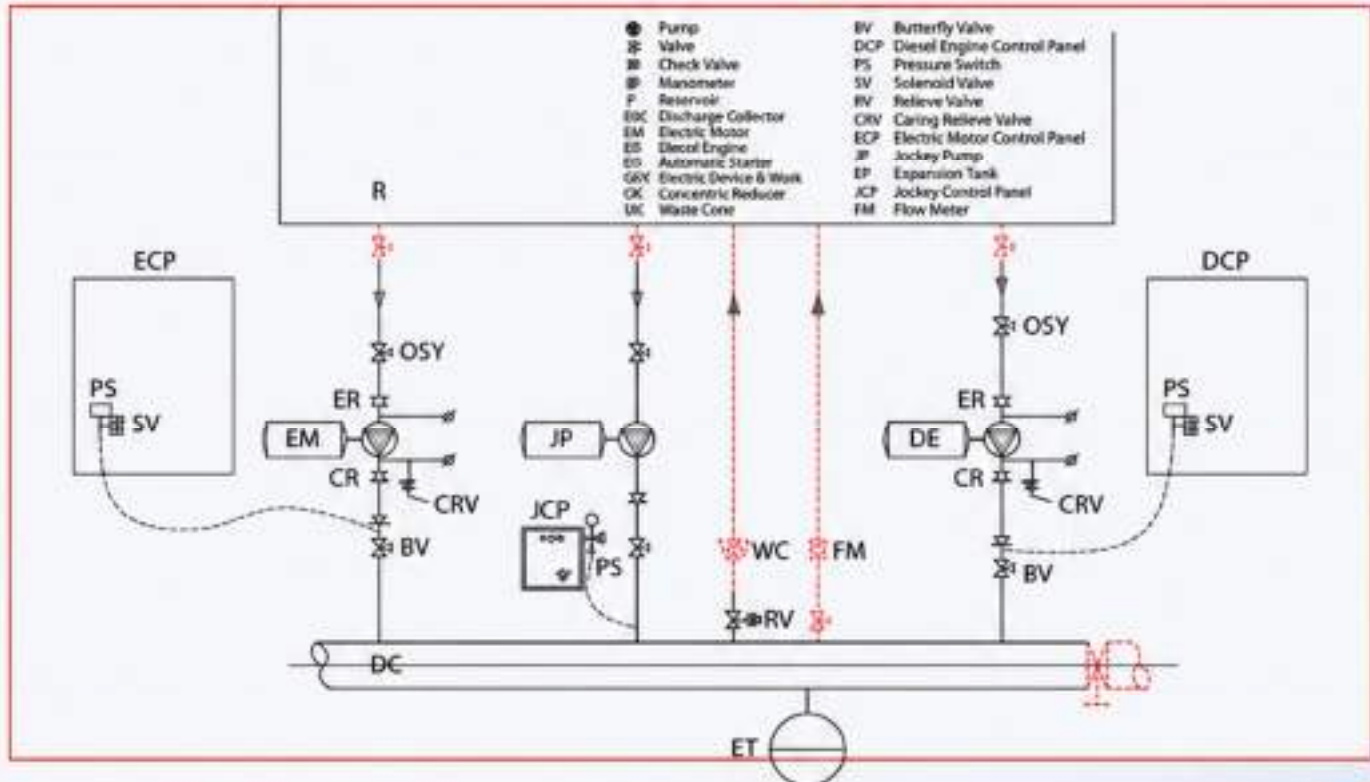
- ✓ Ensures System Readiness
- ✓ Detects Faults Automatically
- ✓ Immediate Alarm Notification
- ✓ Reliable Protection

FIRE PUMP CAPACITIES CONFORM TO NFPA 20

Rated capacities as per NFPA 20 [2016]

(GPM)	(l/min)	(m³/h)
25	95	5,7
50	189	11,4
100	379	22,7
150	568	34,1
200	757	45,4
250	946	56,8
300	1136	68,1
400	1514	91
450	1703	102
500	1892	114
750	2893	170
1000	3785	227
1250	4731	284
1500	5677	341
2000	7570	454
2500	9462	568
3000	11355	681
3500	13247	795
4000	15140	908
4500	17032	1022
5000	18925	1136

P&I DIAGRAM FOR FIRE FIGHTING GROUPS CONFORM TO NFPA20



STANDARD FIRE PUMP TYPES

Micra fire pumps are designed and manufactured in accordance with NFPA 20 standards to provide maximum reliability and performance in fire protection systems.



Engineered for Safety
Built to Perform

PAINT INFORMATION



All Micra fire pumps are coated with high quality industrial paint.

PAINT CODE:

RAL 3020 RED

ECO SGT



Horizontal, radially split volute casing type, single stage, end suction centrifugal pump with closed impeller.



CAPACITY RANGE
25 – 300 GPM



PRESSURE RANGE
40 – 100 m

SGC-H



Horizontal, single stage, axially split volute casing pumps with double suction radial impellers.



CAPACITY RANGE
400 – 1500 GPM



PRESSURE RANGE
50 – 140 m

SGM-H



Horizontal ring section multistage centrifugal pumps with closed impellers and diffusers.



CAPACITY RANGE
25 – 250 GPM



PRESSURE RANGE
60 – 170 m



NFPA 20
COMPLIANT



HIGH EFFICIENCY
DESIGN



RELIABLE
PERFORMANCE



EASY
MAINTENANCE



LONG
SERVICE LIFE

Micra®

Pompa • Yangın Söndürme Sistemleri • Hidrofor

MICRA POMPA VE MAKİNA İMALAT LTD. ŞTİ.



MICRA
—POMPA—

RELIABLE PROTECTION WHEN IT MATTERS MOST

Micra Fire Pump Systems are engineered to deliver maximum safety, high performance and long lasting reliability for all your fire protection needs.



MAXIMUM SAFETY

Reliable protection for life and property.



HIGH PERFORMANCE

Powerful and efficient operation in all conditions.



ADVANCED ENGINEERING

High quality components and robust design.



EASY MAINTENANCE

User friendly systems for quick installation and service access.



ENGINEERED TODAY, PROTECTING TOMORROW.



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