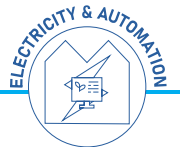
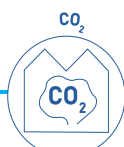
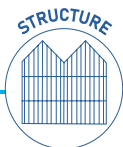




## Safety Warnings

# Safety Warnings

Published November 2016



## 1 Safety Warnings

### 1.1 Input

The safety warnings necessary for the safe operation of the machine are provided in this section titled "Safety Warnings."

Before starting the machine, these safety warnings should be read carefully and fully understood.

TIMFOG high-pressure misting systems are designed in accordance with the latest technological standards and meet occupational safety requirements. However, they can pose a danger if used by uninformed or unalerted persons.

There may be risks of harm to the bodies and lives of operators, users, and third parties, as well as potential damage to the machine and other property of the operator.

Persons responsible for installation, operation, maintenance, and repair of the machines must have read and understood the relevant instructions, especially the safety warnings.

### 1.2 Indicators



It is a warning sign indicating a hazardous area and the possibility of personal injury.



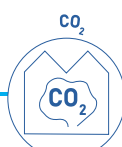
It is a warning sign indicating an electrical hazard.



It is placed in locations where special attention is required to follow instructions, precautions, and recommendations.



It is a warning precaution for areas with rotating parts that could cause injury.



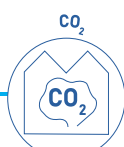
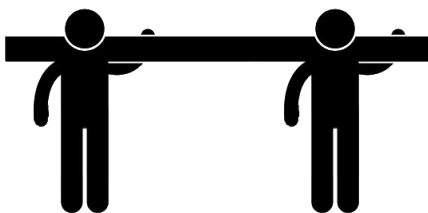
### 1.3 Handling and Installation Warnings



- I. The necessary information and warnings regarding the transportation and installation of the misting system are provided to the user in this manual.
- II. If transportation is by sea, the system must be kept in the ship's hold below deck.
- III. The main unit of the misting system is secured on a pallet and placed in a wooden crate, while the pipes, fittings, and other accessories are delivered in a 6-meter-long pallet or packaging.
- IV. The dimensions and weights of the main unit and its components are specified in the packing list.
- V. When receiving the system, inspect it for any possible damage. If any damage is found, immediately report it to the carrier.
- VI. Use a forklift or mobile crane to unload the machine. Transport can be carried out manually by at least two people, or using a forklift or pallet jack for smaller packages.



Lift the main unit of the machine with a forklift that has sufficient load capacity. Ensure that the load is securely positioned on the forklift's carrying forks. Keep the load as low as possible while transporting to maintain sufficient visibility, balance, and operational safety. Extend the forklift forks and position them under the center of the machine. The 6-meter pipes must be carried in a balanced manner by at least two people, in accordance with international manual handling guidelines.

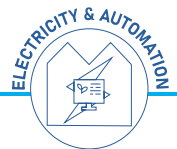
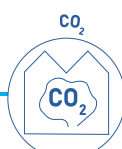




- I. When transporting system components with their packaging, ensure that the packaging is closed and that no parts are hanging.
- II. No materials should be placed on top of the pump unit during transport.
- III. If present, no materials should be placed on top of the additional panel unit during transport.
- IV. The area where the main unit will be installed should be selected so that it is not exposed to any external damage.
- V. There should be no unsecured elements in the area where the main unit is placed.
- VI. The areas where the main unit is stored or installed should have a temperature range of 0–50°C and a humidity level of 0–70%. Units must be installed outside the area being humidified.
- VII. If the system is to be transported in an area with stairs, it must be carried by at least two people in accordance with international manual handling guidelines, and it should not be slid on its feet.
- VIII. Use the system only as specified in this manual and with spare parts recommended by the manufacturer.
- IX. If the unit has been dropped, is damaged, exposed to external elements, or has water on it, notify the company representatives and do not operate the device.



- I. Before performing any work on the main unit, the electrical connection must be checked and the main switch must be turned to the off position.
- II. Do not damage the cable in a way that could allow electrical leakage, do not use it as a cable-pulling device.
- III. In areas where the spray nozzles are located, there should be no exposed or damaged cables, lighting systems, or electrical systems that could be affected by moisture.
- IV. The spray nozzles should not spray directly or in a way that could directly affect electrical systems or cables.
- V. Placing the nozzles without leaving sufficient space can cause condensation; ensure there are no obstacles in front of them.
- VI. Work on electrical equipment must only be performed by qualified personnel. The machine must not be operated until any damaged electrical connections are replaced.
- VII. The system must be connected to a properly grounded line; it must not be operated without grounding. See Grounding Instructions.
- VIII. Ensure that the panel connections are secure; if any cable ends are exposed, insulate them.
- IX. Disconnect the device from the power supply when it is not in use or during servicing.
- X. Do not operate with wet hands or using inappropriate tools.
- XI. Turn the system to the off position before cutting the power.



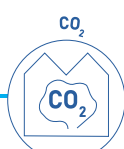
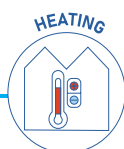
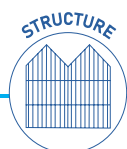
## 1.4 Safe Operation



- I. Before operating, using, servicing, or managing the misting system, fully familiarize yourself with all contents of this manual.
- II. The system should only be operated by trained, instructed, and authorized personnel. In case of a malfunction, service must be requested from authorized personnel.
- III. Responsibility for operating the system in relation to different activities must be clearly determined, and these responsibilities must be strictly followed.
- IV. For your personal safety, consult your employer regarding the existing safety regulations and the specific protective equipment to be used.
- V. Avoid any method of operation that could compromise the safety of the system.
- VI. The user must check for visible damage and deficiencies at least once. All changes that occur, including those noticed during operation, which could compromise safety, must be reported immediately.
- VII. The system should only be operated if it is in perfect working condition.
- VIII. With the help of the necessary instructions and checks, the user must ensure cleanliness and order in the work area around the system.
- IX. Only provide your misting system to third parties along with the user and maintenance manual.
- X. The system's main unit and panels must not be opened by anyone other than qualified personnel.
- XI. Never perform maintenance without first obtaining the necessary authorization.
- XII. The noise levels of the system during operation range from 35 to 120 decibels.



- I. Work on electrical equipment must only be performed by qualified personnel using appropriate tools.
- II. Care must be taken to ensure that the pump motor in the main unit does not come into contact with water.
- III. The system must be protected against voltage fluctuations in the power network. In case of voltage changes, the system will switch to the off position and display a fault message on the panel. See the Panel User Manual.
- IV. Cable cross-sections must comply with international standards.



## 1.5 Grounding Instructions



- I. The units must be grounded. If the grounding line is faulty or damaged, a grounding path with the least electrical resistance must be provided to reduce the risk of electric shock. Devices powered by 230 V are equipped with a cable that includes an equipment grounding conductor and plug. The device plug must be connected to a properly installed and grounded outlet in accordance with local regulations. The safety grounding connection of the outlet must be verified. Using the system with an ungrounded outlet poses a life-threatening risk. For 380 V systems, the grounding wire must be connected to the designated grounding point.
- II. Incorrect connection of the equipment grounding conductor can lead to the risk of electric shock. If you have any doubts about whether the line is properly grounded, consult a qualified electrician or service. Do not replace the device plug with another plug if it does not fit the outlet. Ensure that a qualified electrician provides a suitable outlet or grounding connection.
- III. The user must not tamper with the equipment under any circumstances. Attempts by the user or unauthorized persons to disassemble, modify, or otherwise tamper with any part of the system will void the warranty. In case of a malfunction, contact the TIMFOG after-sales support center.

## 1.6 Special Hazards



SAFETY EQUIPMENT (COVERS, LOCKS, FUSES, GROUNDING CONDUCTOR, PANEL, SOLENOID VALVES, PRESSURE SENSORS, PRESSURE REGULATING VALVES, ETC.) MUST NOT BE DISABLED UNDER ANY CIRCUMSTANCES; IT IS STRICTLY FORBIDDEN FOR UNAUTHORIZED PERSONS TO MAKE CHANGES TO THE SYSTEM.



I. If the electrical shut-off rules are not observed, a life-threatening danger may occur due to high voltage. While the system is connected to the power supply, absolutely no intervention should be made on the electrical components.

II. The electrical installation must never come into contact with heaters or wet areas.



I. The water inlet pressure must be between 3–6 bar, and the temperature must be between +1°C and +60°C.

II. The pressurized water section and connection components of the system must be protected from contact with piercing or cutting tools. Before operating the system, the piping circuits must undergo a leak test, and the system should only be operated once it has been confirmed that there are no leaks. Do not intervene with the pipes or equipment while the system is in operation.

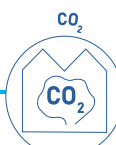
III. The system's water inlet connections must be checked, and it must be verified that the water is supplied at sufficient pressure (via the manometer).

IV. Ensure that the manometer, pressure sensor, and solenoid valves are functioning properly.

V. The main unit must not be installed in areas with a risk of explosion.

VI. Before operating the system, all valves at the system inlet must be opened.

VII. To vent the system, the drain valves at the end of the system must remain open until water flows.



## 1.5 Grounding Instructions

General accident prevention instructions apply. All TIMFOG machines and systems are equipped with applicable protective devices and safety-related control functions. One of the most effective measures to prevent accidents is for the user to be thoroughly familiar with all functions of the machine.



- I. Stay clear of rotating parts in the units, and do not allow children or animals near the units.
- II. Do not operate the system if the protective cover of the fan, which cools the electric motors, is not installed.



- I. System components may only be serviced or replaced with original parts by personnel authorized and appointed by the company.
- II. During repair, maintenance, and adjustment work that requires people to be present in the work area, the machine must be disconnected from its power source.



- I. The unit must not be subjected to any impact. Strong blows or collisions can cause the machine to tip over and become damaged.
- II. No modifications may be made to a system installed without TIMFOG's knowledge, and TIMFOG does not assume any responsibility for system changes made without its consent.

## 1.8 Safety Equipment



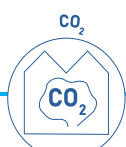
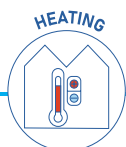
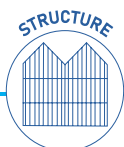
- I. All rotating parts are protected for safety purposes. No objects should be inserted that could interfere with their operation.
- II. During the repair of rotating parts, the corresponding power line must be secured or isolated.



- I. Do not use a circuit breaker with a higher rating than those used in the main panel on the panel to which the line will be connected, to prevent excessive energy overload.
- II. The line used by the system must have a grounding system; the system must not be operated without a proper grounding connection.
- III. System panels are locked to prevent easy access to electrical components. However, they may be opened by qualified personnel authorized for maintenance and repair. Panels must never be opened for any reason other than maintenance and repair.



- I. Pressure sensors and solenoid valves are installed on the system to prevent operation in the absence of water. If no water is supplied, the system automatically shuts down and displays a fault on the panel.
- II. If the water supply does not have sufficient pressure, a fault will be indicated on the panel. To resolve the fault, the incoming water must be pressurized.



## 1.9 Adjustment and Installation



- I. Adjustment and installation work must be performed by authorized personnel and in accordance with the instructions in this manual. Otherwise, LIFE-THREATENING DANGER MAY OCCUR!
- II. The person authorized to perform adjustment and installation work is responsible for these activities.
- III. While the system is operating, no manual intervention in the work area is allowed.
- IV. During installation, pipes must be suspended using special pipe support brackets.
- V. During installation, press couplings must be tightened with a special press machine and checked for leak-tightness.
- VI. All occupational safety rules must be followed during installation.
- VII. The entire system between the main unit and the piping must be checked at least once before operation.

## 1.10 Maintenance and Repair

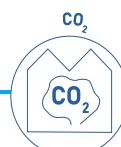


- I. During maintenance and repair work, to prevent the device from being touched or used, a sign stating “Under Maintenance – Do Not Touch” or “Under Repair – Do Not Touch” must be placed on the device.
- II. Maintenance and repair work must only be performed by trained personnel. Service must always be obtained from an authorized service provider for these tasks.
- III. For maintenance and repair work, the system must be stopped, and its power supply must be disconnected.
- IV. If any parts need to be removed during repair, appropriate safety precautions must be taken.
- V. After maintenance and repair work, the system user must recheck the safety status of the system and its safety equipment.

The system’s periodic maintenance must be performed as described in this manual.

Only **TIMFOG** original spare parts must be used.

The “Safety Warnings” are valid only in the Turkish language.



## Contact Information

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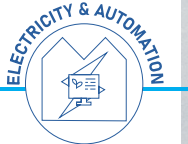
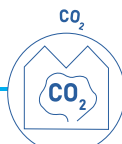
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