



**OPREMA**<sup>d.d.</sup>

**EN USER MANUAL**



Water dispense system GV15

Code 699XXX

Original instructions v1.0 (02/2022)

**OPREMA**<sup>d.d.</sup>  
Catering equipment

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## SIGNS USED IN MANUAL



Points out, on or around cooling unit, direct danger for life or serious injuries for user and generally persons in the area; great attention and work with caution are needed.



Points out, on or around cooling unit, potential risk of serious injury for user and generally persons in the area, great attention and work with caution are needed.



Points out that cooling unit is under voltage. Before any work always unplug the cooling unit from electrical installation to prevent damages and injuries.



Points out that cooling unit is filled with refrigerant R290, with high degree of ecological compatibility but also flammable.



Contains information that helps ensure correct performance of cooling unit.

## USER INSTRUCTIONS

This manual contains instructions for installation, usage and handling with cooling units. It is a part of the unit, it has to be stored close to device and it helps technical staff during every movement or installation of cooling unit. Before installation and usage of unit, please read carefully this manual containing all necessary information to ensure correct and safe installation.



Check “important security notes” (code 399036), attached to this manual



This manual refers to the standard versions of cooling units  
Nonstandard cooling units can have minor differences which are not described in this Manual.

## REGULATORY COMPLIANCE

Company Oprema d.d. is manufacturer of professional cooling units for catering, with special accent on cooling units for cooling and dispensing beer, juices, wine, water and sparkling water. Quality, environment, health protection, work safety management policy, product safety and all components that are in contact with the beverage is the basic of process management in Oprema d.d..



Within European Union, all cooling units are harmonized with following directives:  
Directive 2006/95/EC (LVD) – electrical safety of cooling units (low voltage equipment)  
Directive 2004/108/EC (EMC) – electromagnetic compatibility

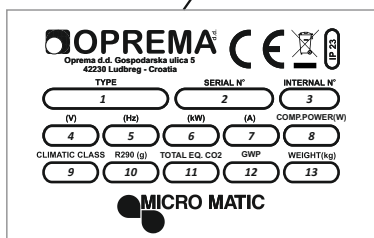


This product meets all basic demands of EU legislation which are relevant to this product



### COOLING UNIT MARKS AND CHARACTERISTICS

Every cooling unit has its own identification number/code. This number is on the plate/label "technical data". Plate/label with technical data is the only way to identify cooling unit; consists all necessary data about unit which are relevant to the user/service people for quick and simple identification.



1. Type: name of the cooling unit
2. Serial number: serial number of cooling unit
3. Code: unit identification code
4. (V): voltage in volts
5. (Hz): frequency in Herz
6. Power: electricity in kW during normal work
7. Run: current in Ampers during normal work
8. Compressor: working volume of compressor in W
9. Climate class: climate class
10. Type and quantity of refrigerant in the system in grams
11. Total EQ. CO2: CO2 equivalent in tons (related to refrigerant charge)
12. GWP : Global Warming Potential
13. Weight: weight of unpacked unit in kg
14. Quality control: unit is tested for secure usage
15. Oprema: manufactured in Oprema d.d. (with destroying and removing this label you lose warranty)

This manual is valid for following cooling units:

### OKSI GV

### WARRANTY

Warranty on cooling unit is valid for 24month from date of production, except if is not agreed different by contract. We recommend to save original box, packing material and invoice at least during the warranty period.

### TRANSPORT AND STORAGE

It is important to handle with care during loading and unloading to avoid damage of the cooling unit. Crane can be used for unit movement only if unit is on pallet.

- DO NOT turn around the unit
- DO NOT shake the unit or complete packing

Unit has to be stored in adjusted and clean space, with temperature between 0-40°C. It is necessary to take care that there is no water in cooling unit left. Do not store coolers one on other, and take care to set them in vertical position like marked on packaging.



## PACKING POSTPONEMENT

When cooling unit is unpacked, it is necessary to check if it looks in proper condition (undamaged visually). In case of any doubt on damage of cooling unit within packaging, do not install and use the unit. During packing postponement we ask you to respect local legislation concerning packing postponement. Do not incinerate packing parts or throw them to the environment. Packing of this cooling unit can be recycled in total. Keep packing material away from children.

## AMBIENT CONDITIONS FOR INSTALLATION

Cooling unit has to be installed in the place where it is protected from rain, water sparkles, with temperature correspondent to its climate class (marked on label Technical data); in case this terms are not assured warranty is no longer valid and malfunctions in performance are possible.

Possible climate classes are:

SN – temperature of environment from 10°C to 32°C

N – temperature of environment from 16°C to 32°C

ST – temperature of environment from 18°C to 38°C

T – temperature of environment from 18°C to 43°C

## PROCEDURE IN CASE OF MALFUNCTION

Most of technical issues can be easily solved by simple procedures. To this purpose we ask you to read instructions carefully before informing service people or manufacturer. In case you cannot solve the problem by using instructions from this manual, please contact the seller from which you bought the unit. Keep units in good condition and do not allow any modification on it except if they are approved by the producer.



Warning

**Always ensure appropriate pressure reducer for type of the valve on the bottle.**

## WORKING PRINCIPLE

CO<sub>2</sub> exits the bottle, goes through pressure reducer and with CO<sub>2</sub> line goes to the carbonator, firmly connected to the carbonator cover. At the same time water from the water source goes through water filter and it is coupled with tube on the pump and on the cooling coil that is cooled in water bath and coupled to the carbonator. Turning on the power it turns on the carbonator pump and recirculation pump. In the carbonator water is mixed with the CO<sub>2</sub>, and sparkling water that is made passes through tube that is connected on the taps (for undercounter cooler they are mounted on the towers) for water dispensing (sparkling water) in the glasses.



Danger

**To prevent risk of injuries and damages, bottle CO<sub>2</sub> has to be always positioned in vertical position, fixed on wall holder. If there is any doubt on gas release, especially in small spaces, it is necessary to ventilate potentially contaminated space.**



## INSTALLATION



Warning

**In accordance with current regulation, installation and setting has to be done by authorized and proper technical stuff.**

Cooling unit has to be placed correctly on the surface:

Where is maximum allowed incline 2 degrees. During the installation of the cooling unit with air cooling it is necessary to ensure that there is enough space needed, and this is 0,4 meters (15,75 inch) in front of the air inlet and outlet. Unit is need to be placed on straight and translucent space, far from heat source, minimum 7 cm (2,75 inch) away from wall and 30 cm (11,8 inch) from next unit. It is need that air circulation around the unit is assured.



## WATER

Unit is most efficient if it works with cold water pressure of 2 - 4 bar (30-60psi).

It is recommended to use water filter in combination with the pressure reducer.

Filter needs to be replaced by guidelines of filter producer.

## POWER

Socket need to be minimum 15A, standard with 3 (socket) 5-15P. Socket need to be 4 feet's away from the unit.

## CO2

Unit needs CO2 for water carbonization. CO2 should be always minimum 4 bar (58 psi). It is recommended that unit has 3,5-4,1 bar 50-60psi of water pressure and 5 bar 72psi (max 5,5 bar (80 psi) of CO2 pressure. It is important to use alimentary CO2 from reliable supplier.



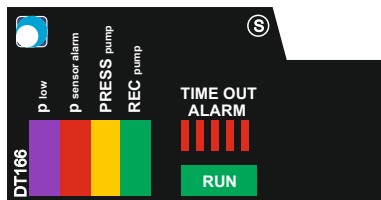
## PCPM electronic pump control

## GV 15

Max. allowed pump (carbonator pump) working time is 240s.

After 240s pump will go in alarm – needed to reset.

This is protection if one of the python lines is leaking.



### LED explanation

-Status of unit is shown each 5 sec with LED

#### -**NORMAL WORKING:**

\* Purple:

- Pressure sensor not connected

\* Red:

- Pressure sensor not connected

\* Yellow:

- Working pump 1 / pump 2 (GV 15 does not have pump 2)

\* Green:

- Everithing ok

- Impuls – rec. pump is working (GV 15 does not have rec pump)

#### -**TIME ALARM:**

\* Red:

- Pump is running more then 240 sec (pump stoped) – needed to reset



Only qualified staff can do servicing and maintenance. All electrical and water parts have to be in accordance with national and local regulations (for replacement use only original parts). Do not ever use unit which is damaged.

## CLEANING AND MAINTENANCE



Before and during the cleaning unit must be plugged off the electrical connection.

Very important is to keep clean surface around the cooler, dispensing towers, taps and drip trays. Regular planning maintenance (cleaning) of the condenser, water bath (filling with water), filter (replacement) and CO<sub>2</sub> (changing the bottle) is necessary. Replacement should be done minimally each 6 months or when is needed, by qualified person.

## INSTRUCTIONS FOR UNIT DISASSEMBLING



While doing the dissembling it is important to comply with regulations.

- Steel, plastic and other materials should be disposed by the person that is authorized for this actions
- Insulation material should be disposed by the authorized company and persons
- Each type of refrigerant (see what is marked on the label) should be disposed with special equipment by the authorized company and persons. **Refrigerant should never spread be the area.**

Considering the Regulations on waste of the electric and electronic unis, and EU Directive 2002/96/EC, symbol of the bucket that is crossed on the equipment or packing shows that the product after end of the life cycle must be separated from other waste, and that is related to the usage of the electric and electronic equipment and properly waste disposal. Separated collection and recycling this kind of the equipment helps to avoid possible negative influence on the environment and health, and also helps to use again or recycle some of the materials that were used to set the equipment. Unauthorized disposal of this type of the product includes possibility to apply the legal penalties in accordance with current legal regulations.





## TROUBLESHOOTING OF COOLING SYSTEM

<i>Fault description</i>	<b>Possible reason</b>	<b>Repair description</b>
Compressor does not work	<ol style="list-style-type: none"> <li>1. Full ice bank</li> <li>2. Cooler unplugged from the electric Main supply.</li> <li>3. No water in water bath</li> <li>4. Too low voltage</li> <li>5. Disconnected or broken wire</li> <li>6. Irregular compressor protection or condensers</li> <li>7. Irregular electronic</li> </ol>	<ol style="list-style-type: none"> <li>1. When the cooler produces enough ice, the probes detect that and stop the compressor, until again the ice probe start the compressor Plug the cooler</li> <li>2. Fill the water bath with water</li> <li>4. Minimal acceptable voltage 194 V</li> <li>5. Connect or change the wire</li> <li>6. Change the compressor protection or the condenser</li> <li>7. Change the electronic</li> </ol>
Compressor do not stops although the appropriate ice bank is made	<ol style="list-style-type: none"> <li>1. Irregular ice probe</li> <li>2. Irregular electronics</li> </ol>	<ol style="list-style-type: none"> <li>1. Change the ice probe</li> <li>2. Change the electronics</li> </ol>
Compressor continuously work, but can not make a sufficient ice bank.	<ol style="list-style-type: none"> <li>1. Dispensing capacity overloaded</li> <li>2. The cooler is situated on the to warm place or the air flow through the Condenser is reduced.</li> <li>3. Not enough refrigerant in the cooling system</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce the dispensing of drinks</li> <li>2. Remove the cooler on the cold place or if necessary clean the condenser.</li> <li>3. Fill the system with refrigerant (check leakage)</li> </ol>
Motor agitator does not work	<ol style="list-style-type: none"> <li>1. Too low voltage</li> <li>2. Motor agitator blocked</li> <li>3. Disconnected or broken wire</li> <li>4. Irregular motor agitator</li> </ol>	<ol style="list-style-type: none"> <li>1. Minimal acceptable voltage 194 V</li> <li>2. Unblock the agitator</li> <li>3. Connect or replace the wire</li> <li>4. Replace the motor agitator</li> </ol>

## TROUBLESHOOTING IN CARBONATOR WORK

<b>Fault description</b>	<b>Possible reason</b>	<b>Repair description</b>
Carbonator does not work	<ol style="list-style-type: none"> <li>1. Empty CO<sub>2</sub> bottle</li> <li>2. Insufficient water supply</li> <li>3. Soda level probe in carbonator disconnected</li> <li>4. Carbonator level probe irregular</li> <li>5. Irregular el. motor or pump</li> <li>6. El. Motor in alarm</li> <li>7. Irregular electronics</li> </ol>	<ol style="list-style-type: none"> <li>1. Change CO<sub>2</sub> bottle</li> <li>2. Provide enough water supply</li> <li>3. Connect the soda level probe</li> <li>4. Change the carbonator level probe</li> <li>5. Change the el. motor or pump</li> <li>6. Reset the motor, by unplugging the Cooler from the el. Main and start again</li> <li>7. Change the electronics</li> </ol>



