# Instruction manual



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# Linear counter freezing electric GN 1/1plate kit 3x1 drawers 230 V / 1N
# LNSF 703 1Z DKIT

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## 1. DECLARATION OF CONFORMITY

Decree of the Ministry of Health of the Czech Republic no. 38/2001 Coll. of 19 January 2001 Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation of the European Parliament and Council Regulation (EC) no. 1935/2004 of 27 October 2004

The products meet the requirements of §26 of Act No. 258/2000 as amended. The products meet the requirements of the RoHS directive 2015/863/EU, 10/2011, 517/2014, 2015/1094, 2015/1095.

Attention, the manufacturer gives up any responsibility in case of direct and indirect damage that is relate to poor installation, incorrect intervention or adjustments, insufficient maintenance, incorrect by using and which are eventually caused by other causes that the points referred to in the conditions sales. This appliance is intended only for professional use and must be operated by qualified by persons. Parts that have been secured by the manufacturer or authorized worker after the setting rebuild.

## 2. TECHNICAL DATA

The label with technical data is located on the side or back panel of the device. Please read the wiring diagram and all the following information in the attached manual before installation.

| Net Width [mm] | Net Depth [mm] | Net Height [mm] | Net Weight [kg] | Power electric [kW] | Loading |
|---|---|---|---|---|---|
| 1600 | 613 | 613 | 110.00 | 0.353 | 230 V / 1N - 50 Hz |

| Annual energy consumption [kWh] | Gross depth [mm] | Gross Height [mm] | Insulation thickness [mm] | Max ambient temperature [°C] | Maximum device temperature [°C] |
|---|---|---|---|---|---|
| 3560 | 705 | 700 | 50 | 40 | -24 |

| Minimum device temperature [°C] | Number of GN / EN | Gross Volume [m3] | Net Volume [m3] | Gross Weight [kg] | Gross Width [mm] |
|---|---|---|---|---|---|
| -10 | 3 | 0.799 | 0.672 | 130.00 | 1620 |

## 3. LOCATION ELECTRIC

For the correct operation and placement of the appliance, it is necessary to observe the following all prescribed standards for the given market. Unpack the device and check that the device has not been damaged during transport. Place the device on a horizontal surface (maximum unevenness up to 2°). Small unevenness can be leveled with adjustable feet. If the device will be placed in such a way that it will be in contact with the walls of the furniture, these must withstand a temperature of up to 60°C. Installation, adjustment, commissioning must be performed by a qualified person who is authorized to perform such operations, according to applicable standards. The device can be installed separately or in series with devices of our production. A minimum distance of 10 cm from flammable materials must be observed. In this case, it is necessary to secure the appropriate modifications to ensure the thermal insulation of the combustible parts. The appliance must only be installed on a non-flammable surface or against a non-flammable wall. **Parts of the appliance provided by the manufacturer. or his representative, the worker performing the installation may not rebuild the product.**

## 4. SAFETY MEASURES FOR FIRE PROTECTION

- the appliance may only be operated by adults
- the appliance may be used safely in accordance with applicable market standards:

Fire protection in spaces with special risk or danger

Protection against the effects of heat

- the appliance must be placed so that it stands or hangs firmly on a non-combustible surface

Objects of flammable substances must not be placed on the appliance at a distance less than a safe distance from it (the smallest distance between the appliance and flammable substances is 10 cm).

Table: degree of flammability of building materials included in st. flammability of substances and products

| Degree of flammability | Building materials |
|---|---|
| A - non-flammable | granite, sandstone, concrete, brick, ceramic tiles, plaster |
| B - Not easily flammable | Acumin, Heraclitus, Lihnos, Itaver |
| C1 - highly flammable | wood, hardwood, plywood, hard paper, umakart |
| C2 - moderately flammable | chipboards, solodur, cork boards, rubber, flooring |
| C3 - Highly flammable | wood fiber boards, polystyrene, polyurethane, PVC |

- information on the degree of flammability of common building materials is given in the table above. Appliances must be installed in a safe manner. During installation, the relevant design, safety and hygiene regulations must also be respected:
- fire safety of local appliances and heat sources
- fire protection in areas with special risk or danger
- protection against the effects of heat

## 5. INSTALLATION

**Important:** The manufacturer does not provide any warranty for defects arising as a result of incorrect use, failure to follow the instructions contained in the attached user manual and mishandling of appliances. Installation, modification and repair of appliances for large kitchens, as well as their dismantling due to possible damage to the gas supply, can only be carried out on the basis of a maintenance contract, this contract can be concluded with an authorized dealer, while technical regulations and standards and regulations must be observed regarding installation, electrical supply, gas connection and work safety. Technical instructions for installation and adjustment, for use by specialized technicians ONLY. The instructions that follow refer to a technician qualified for installation to carry out all operations in the most correct manner and according to the applicable standards. Any activity related to regulation etc. must only be performed with the device disconnected from the network. If it is necessary to keep the appliance under voltage, the utmost care must be taken. The type of appliance for extraction is declared on the nameplate, it is an A1 appliance.

## 6. CONNECTING THE ELECTRICAL CABLE TO THE NETWORK

Installation of the electrical supply - this supply must be separately secured. Ato with the corresponding circuit breaker of rated current depending on the power input of the installed device. Check the power consumption of the device on the production label on the back panel (or side) of the device. The connected ground wire must be longer than the other wires. Connect the device directly to the network, it is necessary to insert a switch between the device and the device with a minimum distance of 3 mm between the individual contacts, which corresponds to the applicable standards and load. The earth supply (yellow-green) must not be interrupted by this switch. Connect the device to the mains if the socket has adequate protection. In any case, the supply cable must be located so that it does not reach a temperature of 50 degrees higher than the environment at any point. Before the appliance is connected to the network, it is necessary to first make sure that:

- the supply circuit breaker and the internal distribution can withstand the current load of the appliance (see matrix label)
- the distribution board is equipped with effective grounding according to the standards of the relevant market and the conditions given by law
- the socket or switch in the supply is easily accessible from the appliance
- the electrical supply to the device must be made of oil-resistant material

**We disclaim any responsibility in the event that these standards are not respected and in the event of a violation of the above principles. Before first use, you must clean the device, see chapter """"cleaning and maintenance"""". The appliance must be grounded using a screw with a grounding mark.**

- Do not insert the plug of the power supply into the electrical outlet. sockets and do not pull out the zel. sockets with wet hands and pulling on the power cord!

- Do not use extension cords or multiple sockets.
- **The mains connection point must have a maximum of the following impedance: ZMAX = 0.042 + j 0.026 Ω for the phase conductors and 0.028 + j 0.017 Ω for the neutral conductor.**

| Model | mm | kg | V / Hz | kW | Inner dimension L / drawer GN 1/1 | °C |
|---|---|---|---|---|---|---|
| LNSR 702 1Z DKIT | 1200 x 685 x 613 | 86 | 230 /1N - 50 | 0,130 | 86 / 2x socket | -2 to +7 |
| LNSR 702 2Z 1Z DKIT | 1200 x 685 x 613 | 100 | 230 /1N - 50 | 0,130 | 86 / 3x socket | -2 to +7 |
| LNSR 702 2Z DKIT | 1200 x 685 x 613 | 100 | 230 /1N - 50 | 0,130 | 86 / 4x socket | -2 to +7 |
| LNSR 703 1Z DKIT | 1600 x 685 x 613 | 110 | 230 /1N - 50 | 0,130 | 86 / 3x socket | -2 to +7 |
| LNSR 703 2Z 1Z DKIT | 1600 x 685 x 613 | 125 | 230 /1N - 50 | 0,130 | 86 / 5x socket | -2 to +7 |
| LNSR 703 2Z DKIT | 1600 x 685 x 613 | 125 | 230 /1N - 50 | 0,130 | 86 / 6x socket | -2 to +7 |
| | | | | | | |
| LNSF 702 1Z DKIT | 1200 x 685 x 613 | 86 | 230 /1N - 50 | 0,353 | 86 / 2x socket | -24 to -10 |
| LNSF 702 2Z 1Z DKIT | 1200 x 685 x 613 | 100 | 230 /1N - 50 | 0,353 | 86 / 3x socket | -24 to -10 |
| LNSF 702 2Z DKIT | 1200 x 685 x 613 | 100 | 230 /1N - 50 | 0,353 | 86 / 4x socket | -24 to -10 |
| LNSF 703 1Z DKIT | 1600 x 685 x 613 | 110 | 230 /1N - 50 | 0,353 | 129 / 3x socket | -24 to -10 |
| LNSF 703 2Z 1Z DKIT | 1600 x 685 x 613 | 125 | 230 /1N - 50 | 0,353 | 129 / 5x drawers | -24 to -10 |
| LNSF 703 2Z DKIT | 1600 x 685 x 613 | 125 | 230 /1N - 50 | 0,353 | 129 / 6x drawers | -24 to -10 |

Connecting the power cable to the mains:

Before connecting the appliance to the electrical installation, it is necessary to check whether the wiring has been new or repaired properly wired by its contractor and that an inspection report on the safe operation of the electrical distribution system has been completed. We do not recommend connecting the appliance to the mains without this condition being met!

Installation of the electrical supply - The supply cable to the appliance must be separately fused with an appropriate circuit breaker of rated current depending on the power input and type of appliance installed. The recommended circuit breaker rating for the type of appliance is shown in the table of values. Check the rating of the appliance on the rating plate on the rear of the appliance.

Connect the appliance directly to the mains, it is essential to insert a switch between the appliance and the mains with a minimum distance of 3mm between individual contacts, which corresponds to the applicable standards and loads. The earth lead (yellow-green) must not be this interrupted by the switch.

The supply cable must be positioned so that at no point does it reach a temperature 50o C above ambient.

It must be so routed that it cannot be mechanically damaged during normal operation and maintenance, and be long enough and adequate to allow the appliance to be handled in the event of servicing.

Before connecting the appliance to the mains electricity supply, it is necessary to check whether:

- the supply circuit breaker and the internal wiring can withstand the load of the appliance (see matrix label)

- the distribution is equipped with an effective earthing according to the standards (CSN) and conditions given by law

- the socket or switch in the supply is easily accessible from the appliance

We recommend using flexible cables in H07RN-F unless otherwise specified in the installation instructions (TO

is the installation instructions !!) , or a cable approved by the CSN for the type of appliance with regard to its location and character operation. The ground wire (yellow-green) must be longer than the other wires

and must not be connected to the switch or otherwise interrupted. Cables must be freely located and must not interfere with normal operation, must be sufficiently far from work surfaces long enough to allow the appliance to be handled for cleaning and servicing. Cable must not come into contact with flammable materials such as carpets, tablecloths, etc., must not be exposed to sharp objects and mechanically stressed.

The "PE" ground wire must be connected to all electrical appliances that have screws or terminals marked "PE". It is recommended to connect a separate protective conductor "PE" for each device.

The recommended supply cable size for the appliance type is given in the table of values.

Permanently connected appliances and appliances equipped with a grounding clamp or terminal must be connected to the protective earth conductor. It is recommended to connect a separate current protector to the circuit of each appliance.

After connecting the appliance to the mains, an inspection must be carried out and an inspection report drawn up to ensure that the appliance is safe operation of the appliance.

WE DISCLAIM ANY LIABILITY IN THE EVENT THAT THESE ABOVE RULES, RECOMMENDATIONS AND RELEVANT THE APPLICABLE STANDARDS WILL NOT BE RESPECTED

## 7. INSTRUCTIONS FOR USE

Commissioning

Attention! Before using the device, the protective film of the stainless steel sheet must be removed from the entire surface, the surface and food contact parts should be washed well with water and dish detergent and then wiped with clean water.

List of activities to be carried out:

1. Verify the functional and safe condition of the connection networks:

- The gas pipeline must be closed and tight, vented (gassed), equipped with HUP, gas meter, gas junctionvalve in front of the appliance, regulated to the prescribed pressure, approved by an inspection report on safe operation

- The wiring must be properly wired according to electrical regulations, fitted with the appropriate circuit breaker, current protector and switch with respect to the power of the appliance.

- Approved by a safe operation review report. Permanently connected appliances and appliances equipped with a grounding clamp must be connected to the protective conductor

- The water supply connection must be closed and tight, flushed and free of coarse dirt, regulated to the extent of

of the prescribed pressure and hardness.

- The waste pipe must be closed and tight, in a gradient away from the appliance and fitted with an odour trap

2. Check the appropriate type and parameters of the medium on the appliance nameplate and supply networks:

a) Gas type natural gas 20 mbar; propane-butane 30/31 mbar

b) Voltage 3 x 400V/50Hz, 230V/50Hz

c) Water pressure 3 - 5 bar soft; 3 - 5 bar hard

d) Waste just above ground by free fall from appliance 40, 50, 70HT; Waste above ground up to 1.0m by waste pump from appliance 40, 50HT

3. Check all joints for tightness

4. Switch on the appliance, check the function and adjustment of the appliance according to the specification

a) Thermal appliances - temperature control, steam pressure, minimum flame adjustment (spore), air and gas mixture
b) Rotating machines - direction of rotation of 3-F motors

Precautions in terms of fires and location

Location of products and appliances that are not a heat source (no part of the surface of the appliance shall exceed 40°C).

There are no special requirements for the location of products and appliances that are not heat sources in terms of warming or fire. Appliances shall be located so that the controls are easily accessible to the operator elements, shut-off valves and fittings and the service organisation was given access. With regard to the media used, or refills are placed in the appliances so that in the event of a collision, e.g. a burst water hose or a refill with a chemical, the to damage other objects. In the vicinity of appliances connected to pressurised water, it is recommended that the floor to make a sewer outlet to the drain and to lead the floor in the gradient to it. Appliances and associated connections shall not prevent the operator from the natural movement necessary to perform their job. Appliances working with water must not be exposed to temperatures below 0° C, where there is a risk of water freezing and damaging the equipment.
Location of appliances that are heat sources up to 100° C (no part of the appliance surface shall exceed 100° C).

The above rules apply to these appliances. In addition, they must not be placed in an enclosed space, e.g. in an enclosed
in a cabinet without vents. The appliance must have a minimum distance of 10 cm from other objects on all sides and from above.
An exception is the modular arrangement of multiple appliances of the same brand in one line, which can touch each other on their sides or back to back. If the appliance is placed in an alcove, under a table, or in cabinet, the space must be completely open from the front of the appliance control.

Location of powerful thermal appliances above 100° C (at least one part of the appliance exceeds 100° C).

The above rules apply to these appliances. In addition, they must be positioned so as not to heat the surface other objects to a temperature higher than 60° C. The appliance must not be in contact with surroun-

ding combustible materials.

The location of gas appliances is governed by the technical rules TPG 704 01 and related standards. The room must meet the minimum required air volume of 2m3 per 1kW of gas appliance output and be well ventilated. For powerful appliances above 10kW and cooking units with multiple appliances, safety wiring is recommended the gas supply valve together with the hood fan, i.e. if the hood exhaust is not switched on, the gas supply to the appliances is shut off. Gas appliances of 'A' design must be positioned so that the rear the chimney side of the appliance is not in contact with objects that cannot withstand temperatures of at least 150°C. Up to a height of 1m no other appliances may be installed above the gas appliance chimney and within 30cm of the appliance chimney objects that would impede the natural exhaust of the flue gases and would be excessively heated by them beyond the maximum permitted warming of the material.

Safety measures in terms of fire protection according to ČSN 061008 Article 21

- the appliance must be operated by adults only
- the appliance must be safe to use in an ordinary environment according to CSN 332000-1.
- the appliance must be positioned so that it stands or hangs firmly on a non-flammable surface

Objects made of combustible materials must not be placed on the appliance or at a distance less than the safe distance from it (the minimum distance between the appliance and combustible materials is 10 cm).

- safe distances from materials of different degrees of flammability and information on the degree of flammability of common building materials

degree of flammability of the building material classified in the flammability category (CSN 730823) of materials and products

A - non-flammable - granite, sandstone, concrete, bricks, ceramic tiles, plaster

B - not easily flammable - acumin, heraclite, lichnos, itaver

C1 - highly flammable - wood, hardwood, plywood, plywood, hardened paper, umakart

C2 - medium flammable - particleboard, solodur, cork boards, rubber, flooring

C3 - slightly flammable - fibreboard, polystyrene, polyurethane, PVC

Appliances must be installed in a safe manner. The installation must also comply with the relevant design, safety and hygiene regulations according to:

- ČSN 06 1008 Fire safety of local appliances and heat sources
- CSN 33 2000 environment for electrical equipment

Cleaning and maintenance

Before cleaning, disconnect the gas and electricity supply.

Do not clean the device:

water under pressure

with a metal brush

aggressive and corrosive agents and corrosives

means containing abrasive particles

with chlorine

The device must be cleaned regularly. Daily maintenance of the equipment prolongs its life and functionality. Stainless steel parts can be clean with a damp cloth and detergent, then wash with detergent and wipe dry.

## 8. CLEANING AND MAINTENANCE

It is recommended to have the device checked with a specialist service at least once a year. All the interventions in the device can only be carried out by a qualified person who has the authorization to do so. **CAUTION!** The device must not be cleaned with direct or pressure water. Clean the equipment daily. Daily maintenance extends the life and efficiency of the equipment. Always turn off the main inlet to the device. Wash the stainless steel parts with a damp cloth with a detergent without coarse particles and wipe dry. Do not use abrasive or corrosive cleaning agents. Attention! Before using the device, it is necessary to remove the protective foil from the entire surface, and then wash it well with water with detergent, and then wipe it with a damp cloth. **ALERT!** The warranty does not apply to all consumables subject to normal wear (rubber seals, bulbs, glass and plastic parts, etc.). The warranty also does not apply to the device if the installation is not carried out in accordance with the instructions - an authorized worker according to the corresponding standards and if the equipment was unprofessionally manipulated (interventions in the internal equipment, etc.) or were operated by unhappy staff and contrary to the instructions for use, further The warranty does not apply to damage by natural effects or other external intervention. **Required service organization 2 times a year. After the lifetime, the shipping packaging and equipment are submitted to the collection, according to the regulations on waste management and hazardous waste.**