

sleeping **1600**
Well **oblò aircon**

INSTRUCTIONS FOR USE

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1.0 - GENERAL INFORMATION AND WARNINGS



Carefully read this manual before operating the device.
Prior to initiating operation it is important to carefully follow the instructions contained in this manual.
The manufacturer declines all responsibility in case of damage or injury to objects or people caused by operation or variations which are not compliant with the device.

Use "**SLEEPING WELL OBLÒ AIRCON 1600**" exclusively for the use intended by the manufacturer and do not perform modifications or changes to the device.
INDEL-B will **not** acknowledge warranty on devices which have been changed or modified.



The device is not designed to operate in potentially explosive environments.



The device is not designed to operate in saline environments.

Indications referring to **RIGHT** and **LEFT**, are relative to the vehicle's driver looking towards the direction of motions.



BEFORE PERFORMING ANY INSTALLATION OR MAINTENANCE OPERATIONS ON "SLEEPING WELL OBLÒ AIRCON 1600", DISCONNECT ALL CONNECTIONS TO THE VEHICLE'S BATTERY AND TO ALL OTHER POWER SOURCES.



If the electrical cables have to go through bulkheads with sharp corners, use protective sheaths or piping.



Firmly secure the electrical cables paying close attention to their path along metal bulkheads able to conduct electricity; furthermore, avoid contact with sharp edges.



Connect "**SLEEPING WELL OBLÒ AIRCON 1600**" to the vehicle's power supply protecting the system by using a fuse.



Do not insert hands in the ventilation vents and do not place any foreign object into the device.

Dispose of packaging material as required by standing regulations, separating them for recycling.

Replacement parts can be ordered at the INDEL-B assistance service.

2.0 - GENERAL DESCRIPTION**USE**

This manual contains the information for the use and maintenance instructions. We recommend the user to keep it in safe and clean place.

GENERAL DESCRIPTION

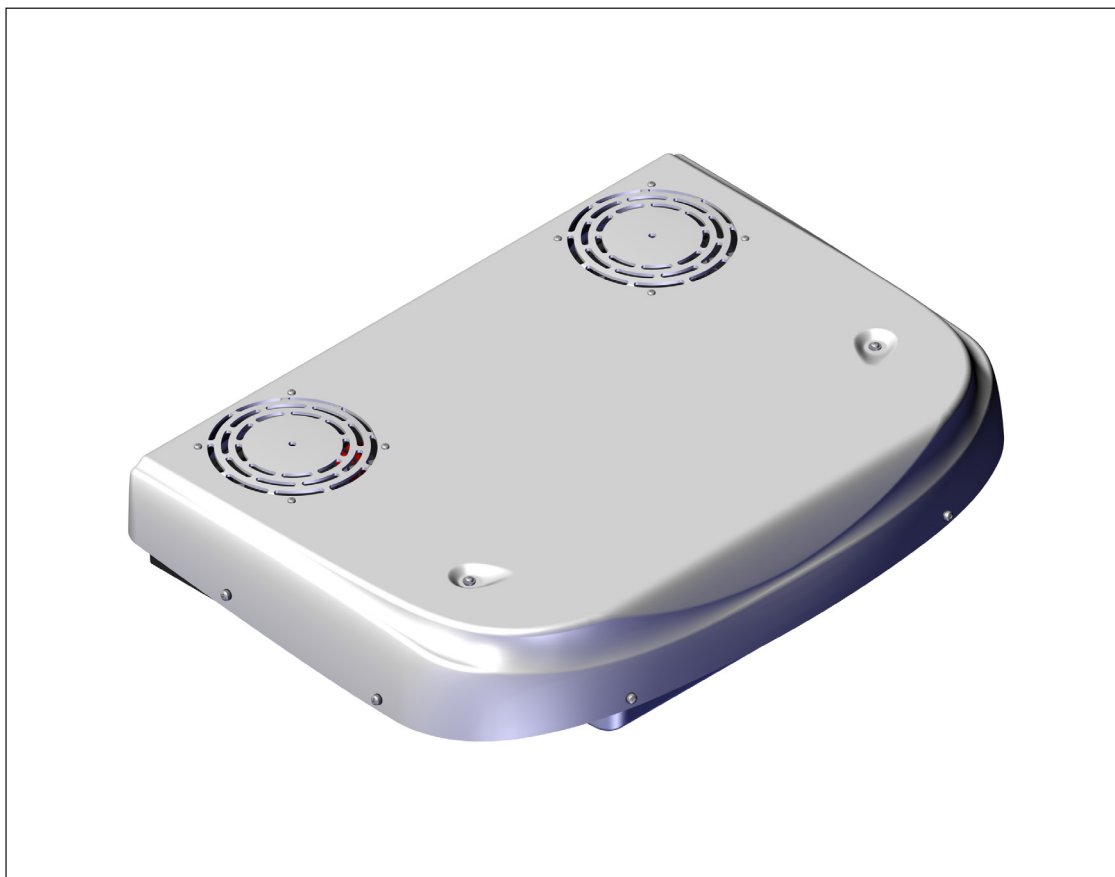
The air conditioner **SLEEPING WELL OBLÒ AIRCON 1600** allows to keep optimum thermal conditions inside the sleeping area of industrial vehicles' driving cabins during day or night **stops**.

This is comprised of **2 main units**: the **EVAPORATOR** installed inside the cab and the **CONDENSER** installed outside.

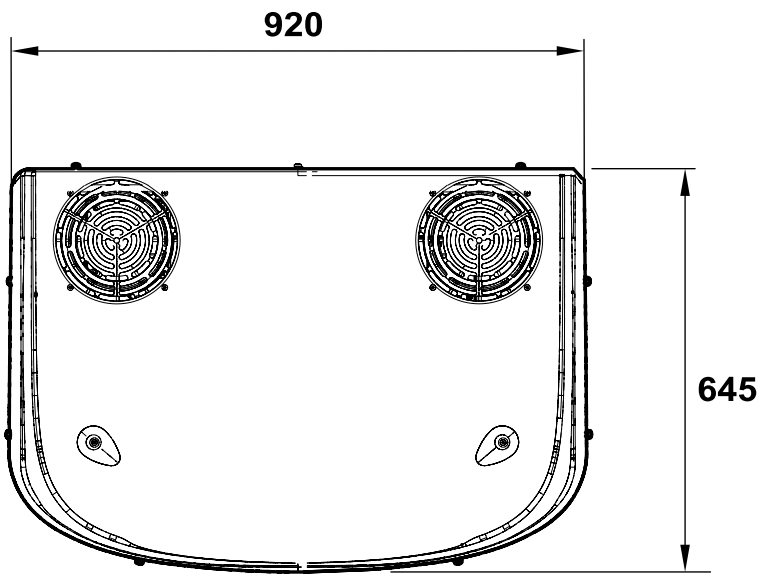
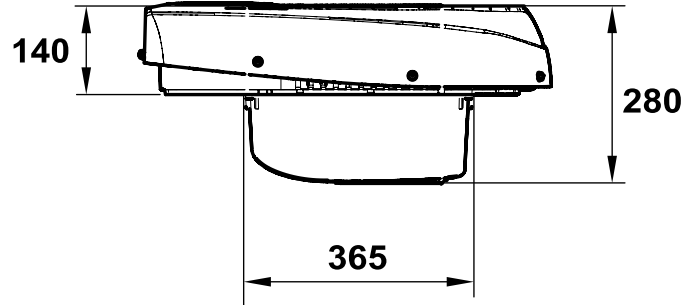
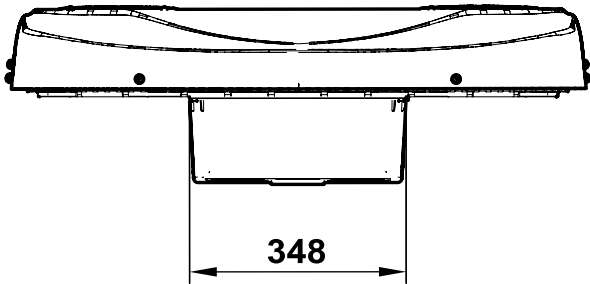
IT WORKS WHEN ENGINE IS SWITCHED OFF and is extremely quiet. It can be easily installed on any type of vehicle without alterations.

It uses **R134a** refrigerant (**ecological refrigerant fluid**).

Under all aspects **“SLEEPING WELL OBLÒ AIRCON 1600”** is an **air conditioner** and so the ideal companion for any trip and especially for any stop; its features make the day or night rest shift more satisfying and regenerative, thus rendering travel activities safer. **“SLEEPING WELL OBLÒ AIRCON 1600”** can be used when the vehicle is idle (its ideal use) but also when the vehicle is under way, in order to contribute to the workload of the vehicle's in-built air conditioner. **“SLEEPING WELL OBLÒ AIRCON 1600”** is supplied pre-loaded with **R134a** refrigerant, so it is environment-friendly as well.



3.0 - DIMENSIONS



4.0 - NOMINAL TECHNICAL DATA

MAX	Supplied cooling capacity	1600 W (5460 BTU/h)
	Power consumption (MAX)	23 A (24 V)

Functioning with engine off
Voltage: 24V DC
Refrigerant: R134a
6 ventilation speeds
Temperature's electronic control with digital control panel
Functioning program timer
Fast and universal installation
Lacking maintenance end easy use
Evaporator air flow 650 m ³ /h
Weight 23,4 kg







5.0 - OPERATION

The operation of "SLEEPING WELL OBLÒ AIRCON 1600" can be controlled directly by the control panel or remotely by means of the remote commander.
The remote commander operates the main functions but changes to the standard settings may be done only by means of the control panel.



WARNING: changing the standard settings must be carried out only by qualified personnel. Any change performed without the proper skills may cause damage to "SLEEPING WELL OBLÒ AIRCON 1600" and/or to the vehicle.





5.1 - MAIN FUNCTIONS

<p>ON - OFF</p> 	<p>- A rapid pressure on the button turns "SLEEPING WELL OBLÒ AIRCON 1600". on and off. When the device is on, the display always shows the last set temperature.</p>						
<p>MODE</p> 	<p>- Every pressure of the key cycles through the modes MIN, AUTO and MAX. The corresponding icon lights up.</p> <table border="1" data-bbox="293 813 1527 1126"> <tr> <td data-bbox="293 813 419 925">MIN</td> <td data-bbox="419 813 1527 925">This corresponds the lowest power setting of "SLEEPING WELL OBLÒ AIRCON 1600" (lowest performance and lowest compressor speed – the timer is set for a continued function of 6 hours, after which "SLEEPING WELL OBLÒ AIRCON 1600" goes off automatically). (The timer can be modified with the P0 parameter - see the "Changing the settings" section).</td> </tr> <tr> <td data-bbox="293 925 419 1037">AUTO</td> <td data-bbox="419 925 1527 1037">The management is automatic (performance and compressor speed are managed automatically based on the temperature required by the user and on the current temperature - the timer is set for a continued function of 4 hours, after which "SLEEPING WELL OBLÒ AIRCON 1600" goes off automatically). (The timer can be modified with the P1 parameter - see the "Changing the settings" section).</td> </tr> <tr> <td data-bbox="293 1037 419 1126">MAX</td> <td data-bbox="419 1037 1527 1126">This corresponds to the highest power setting of "SLEEPING WELL OBLÒ AIRCON 1600" (highest performance and highest compressor and ventilator speed), after 20 minutes "SLEEPING WELL OBLÒ AIRCON 1600" goes to the "AUTO" mode.</td> </tr> </table> <p>- When the device is off, if you press the MODE button, you will activate the DEFERRED ACTIVATION mode and the relative icon  lights up: "SLEEPING WELL OBLÒ AIRCON 1600" will turn itself on automatically after a certain number of hours have elapsed, shown on the display; the number of hours can be set between 1 and 99 by using the TEMPERATURE  (+ / -) buttons..</p>	MIN	This corresponds the lowest power setting of "SLEEPING WELL OBLÒ AIRCON 1600" (lowest performance and lowest compressor speed – the timer is set for a continued function of 6 hours , after which "SLEEPING WELL OBLÒ AIRCON 1600" goes off automatically). (The timer can be modified with the P0 parameter - see the "Changing the settings" section).	AUTO	The management is automatic (performance and compressor speed are managed automatically based on the temperature required by the user and on the current temperature - the timer is set for a continued function of 4 hours , after which "SLEEPING WELL OBLÒ AIRCON 1600" goes off automatically). (The timer can be modified with the P1 parameter - see the "Changing the settings" section).	MAX	This corresponds to the highest power setting of "SLEEPING WELL OBLÒ AIRCON 1600" (highest performance and highest compressor and ventilator speed), after 20 minutes "SLEEPING WELL OBLÒ AIRCON 1600" goes to the "AUTO" mode.
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<p>VENTILATION</p> 	<p>- Each pressure (+ / -) corresponds to the increase or decrease of the ventilation speed: you can choose between 6 different levels of ventilation. The display will show the selected level. - When the device is off, if you press the (+ / -) button, you will activate only the ventilation.</p>						
<p>TEMPERATURE</p> 	<p>- Each pressure of the (+ / -) buttons corresponds to the increase or decrease of one degree of temperature: from a minimum value of 17 to a maximum of 32. The display will show the selected temperature.</p>						

5.2 - CHANGING THE SETTINGS



WARNING: before changing any setting, carefully read the following notes.
WARNING: changing the standard settings must be carried out only by qualified personnel. Any change performed without the proper skills may cause damage to "SLEEPING WELL OBLÒ AIRCON 1600" and/or to the vehicle.

To access the setting menu, simultaneously press the  (+ / -) and  (+) buttons while the device is off.
To scroll between menus use the  (+ / -); buttons; to choose the desired values, use the  (+ / -) buttons.
The values will be saved after a few moments without touching anything else.
You can exit from the menu by not touching any button.

The following are the menus which can be modified:

P0 - Timer (MIN mode)	In MIN mode, the system's default setting is 6 hours of continuous operation. The default value can be changed in this menu. The choice range is between 1 and 99 hours.
P1 - Timer (AUTO mode)	In AUTO mode, the system's default setting is 4 hours of continuous operation. The default value can be changed in this menu. The choice range is between 1 and 99 hours.
P2 - Timer (MAX mode)	In MAX mode, the system operates at its max power for the preset minutes. The choice range is between 1 and 99 minutes. The system switches to the AUTO mode.
A3 - Celsius and Fahrenheit degrees	The system's default setting is Centigrade degrees . This menu allows you to change the parameter to Fahrenheit degrees .
A4 - Offset	This refers to the temperature difference detected by the probe and the temperature shown on the display. This menu allows you to change this value from -9°C to +9°C with 1°C increments
A5 - Battery saver value	The default setting is 21.5 Vdc (Cut-out) and 24 Vdc (Cut-in). This menu allows to change these values based on the following table. Values shown in bold are the default ones.

A5	24Vdc			A5	24Vdc	
	Cut-out	Cut-in			Cut-out	Cut-in
0	20	24.5		10	20	24
1	20.3			11	20.3	
2	20.6			12	20.6	
3	20.9			13	20.9	
4	21.2			14	21.2	
5	21.5			15	21.5	
6	21.8			16	21.8	
7	22.1			17	22.1	
8	22.4			18	22.4	
9	22.7			19	22.7	

5.3 - ERRORS

In case of a problem, the device shuts down and the display will show one error message from the following list.

Message	Description	Troubleshooting
E1	Battery power (The battery-saver has activated. Power decreased below the set threshold.)	Start the vehicle in order to recharge the battery.
E2	Power overload from the cooling fan (The cooling fan overloads the board beyond the allowed limit. Possible cause: short circuit or something is blocking the fan from rotating.)	Take the device to an authorised dealer.
E3	Blocked compressor (The rotor is blocked or the pressure in the cooling circuit is too high.)	The presence of E3 – E4 – E5 codes do not indicate a malfunction, but is a normal management procedure for the compressor by the electronic board. Only if the code continues to be displayed contact an authorized dealer.
E4	Overcurrent on the compressor	
E5	High temperature in the control board (If the cooling circuit is overloaded or if the surrounding temperature is too high, the control board signals this issue.)	
E6	Empty circuit (The system may have lost gas.)	Take the device to an authorized dealer.
E7	Temperature probe (If the probe has short circuited or has become disconnected, the device stops working.)	
E8	Tilt The system shutdown sensor has tripped, due to tilting of the unit.	
E9	Power overload from the condenser fan (The cooling fan overloads the board beyond the allowed limit. Possible cause: short circuit or something is blocking the fan from rotating.)	
E0	Disconnected compressor A power supply cable of the compressor has disconnected.	