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You can read the recommendations in the user guide, the technical guide or the installation guide for DELONGHI PACW 160A. You'll find the answers to all your questions on the DELONGHI PACW 160A in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual DELONGHI PACW 160A
User guide DELONGHI PACW 160A
Operating instructions DELONGHI PACW 160A
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Instruction manual DELONGHI PACW 160A



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Manual abstract:

· If the appliance requires repair, contact a Service Centre authorised by the manufacturer only. Repairs carried out by unauthorised personnel may be dangerous. · This appliance must be used exclusively by adults. · Never allow the appliance to be used by people (including children) with psychological, physical or sensory impairments or with insufficient experience and knowledge, unless closely supervised and instructed by someone responsible for their safety. Young children should be supervised to ensure that they do not play with the appliance. · The appliance must be connected to an efficient earth system. Have your electrical circuit checked by a qualified electrician. · Do not use extension cables. · Before cleaning or maintenance, always unplug the appliance from the mains socket. · Never unplug the appliance by pulling on the power cable.

· Do not install the appliance in rooms containing gas, oil or sulphur. Do not install near sources of heat. · Keep the appliance at least 50 cm away from flammable substances (alcohol etc) or pressurised containers (eg aerosol cans). · Do not rest heavy or hot objects on top of the appliance. · Clean the air filter at least once a week. · Avoid using heating appliances near the air conditioner. · Always transport the appliance upright or resting on one side. Before moving the appliance, empty the internal circuit completely of water. After moving the appliance, wait at least 1 hour before starting it · When putting the appliance away, do not cover with plastic bags. · The materials used for packaging can be recycled. You are therefore recommended to dispose of them in special differentiated waste collection containers. · At the end of its working life, consign the appliance to a specialist collection centre. · If the power cable is damaged, it must be replaced by the manufacturer or an authorised technical service centre in order to avoid all risk. · Remember to descale the appliance at the end of every season and always after 500 hours of operation (see page 38). In areas with particularly hard water, you are recommended to add special water softener obtainable from authorised service centres to the water. **SPECIFIC WARNINGS FOR APPLIANCES WITH R410A* REFRIGERANT GAS R410A** refrigerant gas conforms to EC regulations on the environment. Avoid perforating the refrigerant circuit of the appliance. **ENVIRONMENTAL INFORMATION:** This unit contains fluorinated greenhouse gases covered by the Kyoto Protocol. Maintenance and disposal must be carried out by qualified personnel only (R410A, GWP=1975).

* Verify the type of refrigerant gas used in your appliance on the rating plate. **22 SPECIFIC WARNINGS FOR APPLIANCES WITH R290* REFRIGERANT GAS** · Read the warnings carefully. · When defrosting or cleaning, use only the implements recommended by the manufacturer. · The appliance must be placed in a room without continuously operating sources of ignition (for example: open flames, an operating gas appliance or an operating electric heater). · Do not pierce or burn. · Refrigerant gas may be odourless. · The appliance must be installed, used and stored in a room with a surface area greater than 15 m². · This appliance contains about 300 g of R290 refrigerant gas. · R290 refrigerant gas complies with European environmental directives. Do not perforate any of the components in the refrigerant circuit.

· If the appliance is installed, used or stored in an unventilated room, the room must be such as to prevent stagnation of possible leaks of refrigerant gas as there could be a danger of fire or explosion hazard should the refrigerant come into contact with electric heaters, stoves or other sources of ignition. · The appliance must be stored in such a way as to prevent mechanical faults. · Persons working on a refrigerant circuit must have the relative authorisation issued by an accredited body certifying their competence to handle refrigerants in compliance with a standard assessment recognised by sector associations. · All repairs must be carried out in accordance with the manufacturer's recommendations. Maintenance and repairs requiring the assistance of other qualified personnel must be carried out under the supervision of specialists in the use of inflammable refrigerants.

* Verify the type of refrigerant gas used in your appliance on the rating plate. **IMPORTANT INFORMATION 2002/96/EC. FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH EC DIRECTIVE** At the end of its working life, the product must not be disposed of as urban waste. It must be taken to a special local authority differentiated waste collection centre or to a dealer providing this service. Disposing of a household appliance separately avoids possible negative consequences for the environment and health deriving from inappropriate disposal and enables the constituent materials to be recovered to obtain significant savings in energy and resources.

As a reminder of the need to dispose of household appliances separately, the product is marked with a crossed-out wheeled dustbin. **ELECTRICAL CONNECTIONS** Before plugging the appliance into the mains socket, check that: · the mains power supply corresponds to the value indicated on the rating plate on the back of the appliance; · the power socket and electrical circuit are adequate for the appliance. · the mains socket matches the plug. If this is not the case, have the plug replaced; · the mains socket is adequately earthed. Failure to follow these important safety instructions absolves the manufacturer of all liability. **23 WHAT IS THE WATER-AIR PINGUINO** During the summer, you feel comfortable at a temperature of between 24 and 27° C with a relative humidity of about 50%. An air conditioner removes excess moisture and heat from the room where it is located. Compared with installed models, portable air conditioners have the advantage that they can be moved from one room to another in the home or be transported from one building to another. Hot air from the room is passed through a coil cooled by refrigerant gas. Excess heat and moisture are removed before the air is reemitted into the room.

In single unit models, a small part of this air is used to cool the refrigerant gas and then, when hot and damp, is discharged outside. In exclusive De'longhi water-air models, the heat is removed from the room through the cooling effect of the water which is obviously much greater than air. This gives this air conditioner unbeatable cooling efficiency. **MODELS WITH R290 REFRIGERANT GAS** The Pinguino ECO is a latest generation environmentally-friendly air conditioner. The Pinguino ECO does not, in fact, contain gases (CFC/HCFC) dangerous to the ozone layer or with a marked greenhouse effect (HFC). As well as reducing energy consumption, the high efficiency of the appliance also minimises impact on the greenhouse effect.



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24 DESCRIPTION A B C D E F G H I J K L M N O P Q R S T Air outlet grille Control panel with advanced LCD display Handle Grille Castors Air intake grille with dust filter Air exhaust hose compartment Water drainage hose door Power cable compartment door Water fill door Air exhaust hose Remote control Filling jug Window outlet Silver ion filter (certain models only) 3M filter (certain models only) Sucker Castor locks Flange with cap Adjustable bar A B C D E K A L M S T N G R Q H P O F J I 25 PREPARING FOR USE The instructions below will enable you to prepare your air conditioner for operation as efficiently as possible. Before use, make sure the air intake and outlet grilles are unobstructed. 1 2 1 AIR-CONDITIONING WITHOUT INSTALLATION Just a few simple steps and your comfort is ensured with your appliance: · Fit the air exhaust hose in the housing at the back of the appliance (fig. 1). · Fit the window outlet to the end of the hose. · Place the air conditioner near a window or French window. · Adjust the length of the hose to reach the window. · Make sure the air exhaust hose is unobstructed. · Open the window or French window slightly and position the outlet (fig. 2). · If you have a double window, use the sucker provided to hold the two parts of the window together (fig. 3). You can also use the "adjustable bar" accessory. · Fit the window outlet in the housing in the bar (fig. 4) - Position the bar on the window sill and adjust until it fits in the guides of the blind (the length can be blocked with the plastic pin provided), then lower the blind (fig. 5). · Fit the air hose to the end of the window outlet. · Place the air conditioner near a window or French window and connect the end of the hose as shown in figure 6. Keep the air hose as short and free of curves as possible to avoid bottlenecks. 3 1 2 2 4 6 5 1 2 1 2 26 AIR-CONDITIONING WITH INSTALLATION 7 If required, your appliance can also be installed semi-permanently. Proceed as follows: · Drill a 106 mm dia. hole respecting the heights shown in fig. 8 and following the indications in figs. 9, 10 and 11. 30 cm 30 cm 8 9 MAX100 cm MIN 35 cm in the window pane · Fit the flange accessory provided in the hole · Fit the hose in the housing at the back of the appliance (fig. 1). · Fit the end of the hose to the flange as shown in fig. 8. When the hose is not fitted, the hole can be closed with the flange cap. Keep the air hose as short and free of curves as possible to avoid bottlenecks. 10 When in the wooden kickboard of a French window installing the air conditioner semi-permanently, you 11 should leave a door slightly open (as little as 1 cm) to guarantee correct ventilation. in the wall: you are recommended to insulate the section of wall using suitable insulation. 27 106 PREPARING FOR OPERATION IN WATER MODE 12 Once the appliance has been installed following the instructions above, it is ready for use. However, its efficiency can be enhanced by operating it in the exclusive De'longhi water mode. The water in the tank increases the cooling power of your Pinguino and at the same time reduces noise levels and electrical consumption. Compared to air, water reduces the temperature of the cooling circuit much more efficiently, before being given off from the air exhaust hose in the form of vapour. Remember that: · You must always use salt-free clean mains water. · The length of time the water in the tank lasts depends greatly on environmental conditions such as temperature, humidity, insulation, the exposure of the room, the number of people present, etc. Indicatively it lasts about six hours. By using the WATERSAVE function (see page 34), the length of time can be extended to 10 hours, with a slightly lower cooling power and efficiency. · When the water in the tank runs out, the light comes on and operation of the appliance switches automatically to air mode. At the same time, the quantity of air given out from the rear hose increases. 13 FILLING THE TANK You can fill the tank in one of two ways: 1) By using the jug provided or another recipient: Instead of the jug provided, you can use any recipient (plastic or glass bottle, watysymbol appears. In this mode, fan speed is selected automatically by the appliance and cannot be set manually. 30 19 FAN MODE (FIG. 19) When using the appliance in this mode, the air hose does not need to be attached. To set this mode correctly: · Press the MODE button a number of times until the fan symbol appears. · Select the required fan speed by pressing the FAN button. Three speeds are available: Maximum speed: for maximum fan power Medium speed: reduces noise levels but still maintains a good level of comfort Low speed: for silent operation In this mode, AUTO speed cannot be selected. 20 HEATING MODE (FIG. 20) CERTAIN MODELS ONLY This is ideal in spring and autumn when outdoor temperatures are not particularly severe. When using the appliance in this mode, the air hose does not need to be attached. To set this mode correctly: · Press the MODE button a number of times until the heating symbol appears. @@@@Fan speed is also set automatically according to the conditions. @@@@The remote control must be handled with extreme care. @@@@Proceed as follows. · Press the or button until the correct time is reached. @@@@23). @@@@24) Ideal for the summer to cool rooms rapidly. Activate by simply pressing the button. The appliance operates in air conditioning mode at maximum fan speed. @@@@25 SELECTING THE TEMPERATURE SCALE (FIG. @@@@26) · Press the button. @@@@27) The ioniser is an electronic component which releases negative ions into the air. Rooms with a clean pleasant atmosphere have been shown to have an abundance of negative ions, while rooms with stale air contain abundant positive ions. The ioniser restores the correct balance between the two types of ion, reducing dust in the air and generating a pleasant sensation of well-being. This button activates the ioniser present in certain models. This function can be activated in all operating modes. 27 WATERSAVE FUNCTION (FIG. 28) This function is designed to increase the operating time of the appliance when operating in water mode and can be activated in air conditioning and SMART mode. When the button is pressed, the appliance is slightly less efficient, but consumption of water in the tank is considerably reduced. With a full tank, the appliance normally operates for six hours. With this function activated, the operating time increases to 10 hours, avoiding the need to top up frequently. If the water runs out when this function is active, the quantity of air given out from the rear hose increases and the light comes on. To restore operation in water mode, fill the tank.



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28 SWING FUNCTION Not available in these models. 34 PROGRAMMIN THE TIMER The appliance can be programmed to start up and shut down when required. Programming start up · Press the ON button. The start-up time and message "ON TIMER" flash on the remote control display (fig. 29). · Press the or buttons to set the time you want the appliance to start up. · When that time is reached, press the SET button to confirm (fig. 30).

The message "ON TIMER" appears on the remote control display and the symbol is displayed on the appliance to indicate that the timer is active. Programming shutdown · Press the OFF button. The shutdown time and message "OFF TIMER" flash on the remote control display (fig. 31). · Press the or buttons to set the time you want the appliance to shut down. · When that time is reached, press the SET button to confirm (fig. 32). The message "OFF TIMER" appears on the remote control display and the symbol is displayed on the appliance to indicate that the timer is active. 32 29 30 31 SELF-DIAGNOSIS The appliance has a self diagnosis system to identify a number of malfunctions. Error messages are displayed on the appliance display. IF...IS DISPLAYED, WHAT SHOULD I DO? The appliance is fitted with a frost protection device to avoid excessive formation of ice. The appliance starts up again automatically when the defrosting process is completed.

IF...IS DISPLAYED, WHAT SHOULD I DO? Empty the internal safety tank, following the instructions in the "End of season operations" paragraph. If this reoccurs, contact your local authorised service centre.

LOW TEMPERATURE (frost prevention) HIGH LEVEL (safety tank full) If this is displayed, contact your local authorised service centre. PROBE FAILURE (sensor damaged) CLEAN This message appears after about 500 hours of operation in water mode and indicates that the appliance requires descaling as described in the "descaling" paragraph. After descaling or if the alarm reappears too soon after the last descaling (carried out before the message is displayed), reset the alarm by holding the button down for 10 seconds. 35 TIPS FOR CORRECT USE To get the best from your air conditioner, follow these recommendations: · close the windows and doors in the room to be air conditioned (fig. 33). When installing the air conditioner semi-permanently, you should leave a door slightly open (as little as 1 cm) to guarantee correct ventilation. · protect the room from direct exposure to the sun by partially closing curtains and/or blinds to make the appliance much more economical to run (fig. 34); · never rest objects of any kind on the air conditioner; · do not obstruct the air intake and outlet (fig. 35). Leave both grilles free; · make sure there are no heat sources in the room.

· never use the appliance in very damp rooms (laundries for example). · never use the appliance outdoors. · make sure the air conditioner is standing on a level surface. If necessary, place the castor locks under the front wheels. 33 close doors and windows 34 close curtains 35 AIR PURIFYING FILTERS The appliance is fitted with a dust filter which retains impurities in the air drawn in from the room. Certain models also include other filters with a high filtering capacity, namely a silver ion filter and a 3M® electrostatic filter. do not cover the appliance 36 SILVER ION FILTER The silver ion filter not just retains dust particles, but also has an efficient antibacterial action. It also greatly reduces concentrations of irritants such as pollen and spores. The filter is treated with small particles of silver (on the scale of millionths of a millimetre) which are able to block the multiplication of and kill any nearby bacteria or spores. 3M® ELECTROSTATIC FILTER The 3M® electrostatic filter retains the finest dust particles, thus enhancing the filtering capacity of the appliance.

FITTING THE FILTERS TO THE GRILLE The appliance can be used with just the dust filter already inserted in the grille. To use the two supplementary filters (if provided with your model), remove them from the packaging and attach them to the dust filter, inserting them under the special clips (fig. 36). If you decide not to use them, keep them sealed in the packaging. r ion Silve ilter f lter ® ji 3M 36 CLEANING Before cleaning or maintenance, turn the appliance off by pressing the button on the control panel or remote control, wait for a few seconds then unplug from the mains socket.

CLEANING THE CABINET You should clean the appliance with a slightly damp cloth then dry with a dry cloth. Never wash the air conditioner with water. It could be dan Never use petrol, alcohol or solvents to clean the appliance. Never spray insecticide liquids or similar. THE AIR FILTERS gerous.

CLEANING To keep your air conditioner working efficiently, you should clean the dust filters every week of operation. Dust filter supplied with all models The filter is housed in the intake grille. To clean the filters, proceed as follows: · Remove the intake grille by pulling it outwards (fig. 37). · Remove the dust filter by detaching it from the grille (Fig. 38). · Use a vacuum cleaner to remove the dust collected on the filter. If it is very dirty, immerse in warm water and rinse a number of times. The water should never be hotter than 40°C. · After washing, leave the filter to dry completely.

· To replace, put the filters back in the intake grille then attach the intake grille to the appliance. Silver ion filter and 3M® electrostatic filter (certain models only) These two filters are located behind the dust filter. To clean the dust filter, the two supplementary filters must be temporarily removed. To clean, use a vacuum cleaner at medium power. The silver ion filter can be washed with cold water. Leave to dry completely and replace. It should be replaced at least once every two seasons. The 3M® filter is not washable and must be replaced at the end of the season or when it is exhausted and no longer efficient. @@@@39). @@This dries any water remaining inside the appliance.

· Turn the appliance off and unplug from the mains. · Remove the air exhaust hose. @@ · Place the power cable in the special rear cable compartment (fig. 40). · Cover the appliance to avoid dust.

39 40 DESCALING When using the appliance in water mode, lime scale will inevitably form and must be removed to maintain efficiency. After about 500 hours of operation, the appliance therefore warns that C L (CLEAN). descaling is required by displaying the message Descal the appliance. · Turn off the appliance and unplug from the mains. Empty all water from the inside of the appliance through the drain hoses (fig. 39). · Close and replace the drain hoses.



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Pour 0.5 l of descaler (one bottle) and 1.5 l of clean water into the tank. · Plug in and operate the appliance in air conditioning mode with the BOOST function selected until the "no water" symbol appears on the display. · Turn off the appliance and unplug from the mains. Empty all water from the inside of the appliance through the drain hoses. · Close and replace the drain hoses. Pour 2 l of clean water into the tank and rinse the internal circuits of dirt and descaler.

· Plug in and operate the appliance until the "no water" symbol appears on the display. · Turn off the appliance and unplug from the mains. Empty all rinsing water from the inside of the appliance through the drain hoses. · If the water drained off is very dirty or contains large quantities of foam, repeat the rinsing operation. · Close the drain hoses and replace. · After descaling, reset the alarm by pressing the button for 10 seconds. The descaler can be bought from your local De'longhi service centre. Always use original descaler. Use of other products could damage internal components and invalidate the guarantee. 38

TROUBLESHOOTING PROBLEM The air conditioner does not come on **CAUSE** · there is no current · it is not plugged into the mains · the internal safety device has tripped · wait **SOLUTION** · plug into the mains · call the Service Centre The air conditioner works for a short time only · there are bends or kinks in the air exhaust hose · something is preventing the air from being discharged · position the air hose correctly, keeping it as short and free of curves as possible to avoid bottlenecks.

· check and remove any obstacles obstructing air discharge The air conditioner works, but does not cool the room · windows, doors and/or curtains open · close doors, windows and curtains, bearing in mind the "tips for correct use" given above · eliminate the heat sources · there are heat sources in the room (oven, hairdryer, etc) · the air exhaust hose is detached from the appliance · fit the air exhaust hose in the housing at the back of the appliance (fig. 1). · clean the filters as described above · dust filter and (when present) silver ion filter and 3M® filter clogged · the technical specification of the appliance is not adequate for the room in which it is located. During operation, there is an unpleasant smell in the room The air conditioner does not operate for about three minutes after restarting it · dust filter and (when present) silver ion filter and 3M® filter clogged · clean the filters as described above · the internal compressor safety device prevents the appliance from being restarted until three minutes have elapsed since it was last turned off. · The appliance has a self diagnosis system to identify a number of malfunctions.

· wait. This delay is part of normal operation. The symbol and one of the following messages appears on the appliance display: LT / P F / H L / C L · see the SELF-DIAGNOSIS chapter. 39 **TECHNICAL CHARACTERISTICS:** Power supply voltage Max. power input during air conditioning Absorbed power heating (certain models only) Refrigerant Cooling capacity see rating plate " " " **LIMIT CONDITIONS** Room temperature for air conditioning Room temperature for heating (certain models only) MAX 25°C 21 ÷ 35°C MAX 25°C **APPLIANCE** · · · · width height depth weight **DIMENSIONS:** 570 mm 910 mm 465 mm 51 kg 910mm 570mm 465mm **GUARANTEE AND TECHNICAL ASSISTANCE** The conditions of the guarantee and technical assistance are given on the certificate supplied with your appliance.

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