



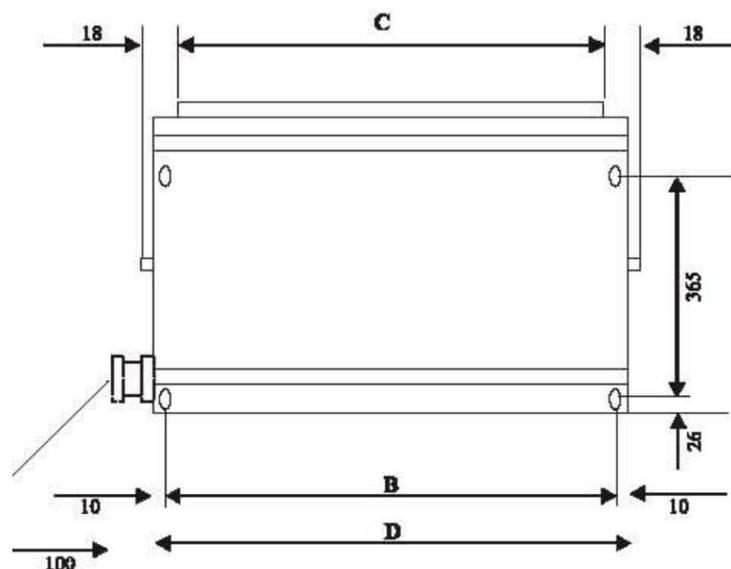
**FAN CONVECTOR**

# **THERMOLUX SERIES**

**INSTRUCTIONS FOR INSTALLATION, USE AND MAINTENANCE**



## General characteristics



model		020	030	045	060	080	100	120
cooling power - 7°/12°	In 1030		1560	2390	3120	4090	5110	5580
heating power - 70°/60°C	In 1830		2630	3780	4860	6210	8100	8650
air flow rate	m <sup>3</sup> /h	220	340	440	570	650	925	925
forest level /ISO 23741/	dB(A)	45	51	52	52	48	56	60
power of electric motor	IN	29	29	38	47	55	72	75
height	mm	530	530	530	530	530	530	530
length	mm	670	770	985	985	1200	1415	1415
depth	mm	225	225	225	225	225	225	225
height in feet mm		630	630	630	630	630	630	630
associative size		½"	½"	½"	½"	½"	½"	½"

## **General information, purpose and description** This

instruction describes all the necessary operations for the correct installation and operation of the THERMOLUX fan convector. It is recommended that you familiarize yourself with this instruction in detail before starting any operations. Correct familiarization with the general rules protects the device itself, as well as objects and people, from unwanted consequences. The manufacturer is not responsible

the consequences caused by non-compliance with this instruction.

THERMOLUX fan convectors are designed for year-round air conditioning of rooms with the possibility of operation in both HEATING and COOLING modes.

They mainly consist of two parts:

- external metal cover with grills and doors, through which the access for installation and follow-up service;
- internal equipment – heat exchanger, fan unit, electric motor, air filter and bath for collecting and draining the condensate.

### **Outer cover**

Made of powder coated sheet metal. It can easily be removed to access the internal equipment. In the upper part of the cover, grids are placed to direct the air flow. The two access doors /left and right/ are raised to a vertical position and provide respectively:

on the left - access to the elements for binding the convector with water, and

on the right - access to the binding elements with electricity and the automation to control the work of the convector.

### **Heat exchanger**

It consists of thin metal lamellas attached to a copper coil, made according to modern technology. The heat exchanger is equipped with a built-in deaerator. Its connection dimensions on both ends are respectively ½" F. Some of the models have two heat exchangers installed. Standing facing the convector, the standard connection holes are on the left side. At the customer's request and upon prior request, the convector can also be installed with the connection openings on the right.

### **Fan body /turbine/** The turbines of the

first six models are made of suitable plastic and are of the centrifugal double suction type, and the remaining two models have metal turbines. They are statically and dynamically balanced and directly mounted on the shaft of the drive electric motor.

### **Electric motor** The

electric motor is single-phase 250 V – 50 Hz with built-in capacitor and autotransformer for speed regulation. The rotor is suspended on anti-vibration floating bearings with degree of protection IP21.

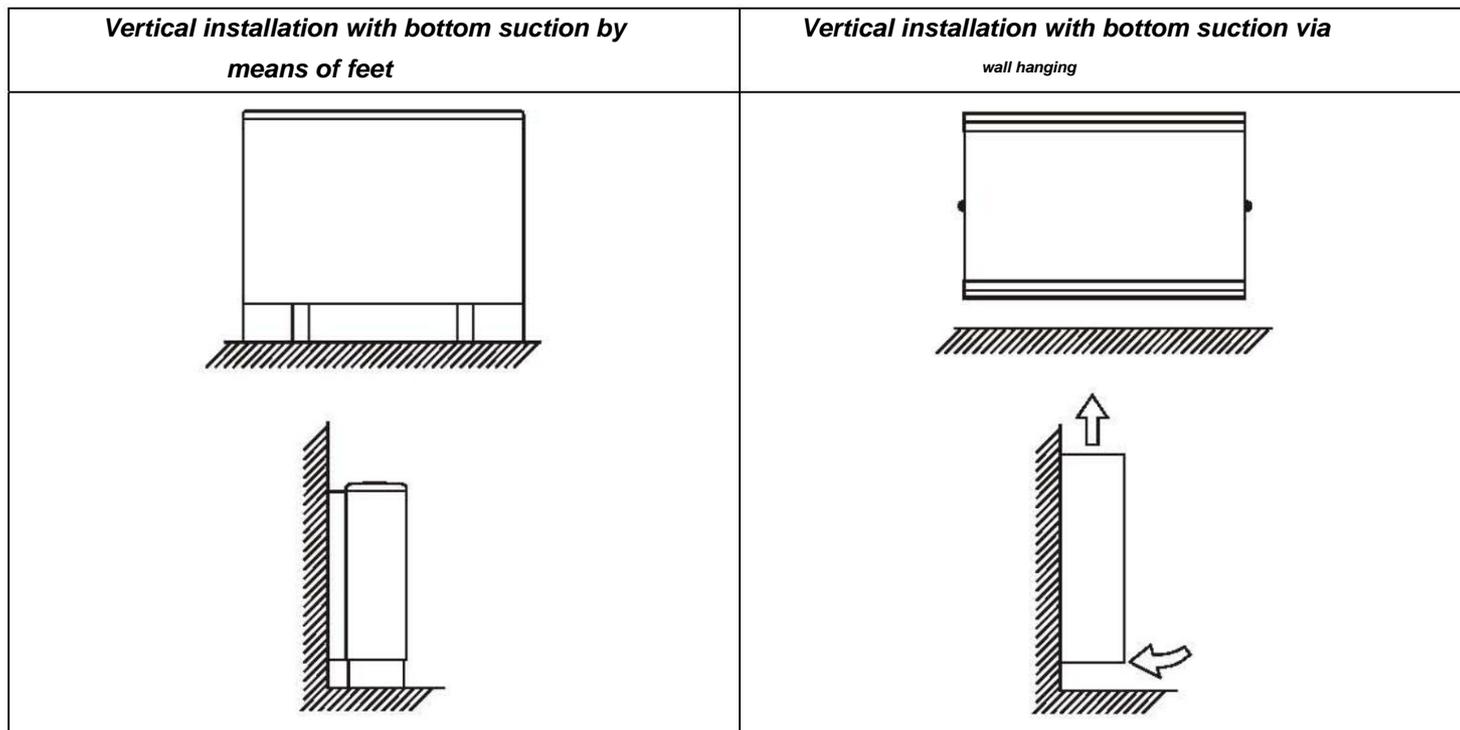
### **Air filter** It is made using

modern technologies from synthetic material. It is extremely easy to assemble, disassemble and clean quickly.

### **Condensate drain pan** The condensate

drain pan is made of galvanized sheet metal with an anti-corrosion coating. In some of the models, the bathtub is equipped with a pipe for draining and connecting the condensate with a size of Ø 14 mm.

There are two installation options for fan coil units as described below:



### **ATTENTION!!!**

Before starting any work related to the operation and maintenance of the convector, check the following:

- whether the electrical power supply of the device is switched off;
- whether the device is properly grounded;
- whether the taps with which you will connect the convector to water are closed and cooled down; • whether the temperature of the heat exchanger and the pressure to it are safe.



### **Precautions and recommendations**

- The device must not be installed in a fire-hazardous and explosive environment.
- The device must not be covered or obscured in any way that obstructs normal air flow.
- Avoid prolonged stagnation directly above the appliance.
- Do not replace the air filter while the appliance is running.
- During prolonged storage of the device without operation, especially during the winter period, the water in it to drain.
- The fan should also be cleaned and serviced before an extended period of non-operation.
- Pay attention to the position of the inlet / outlet taps.
- To comply with the mandatory requirement for a slope to remove the condensate from the device - 3 cm/m when connected to a siphon.

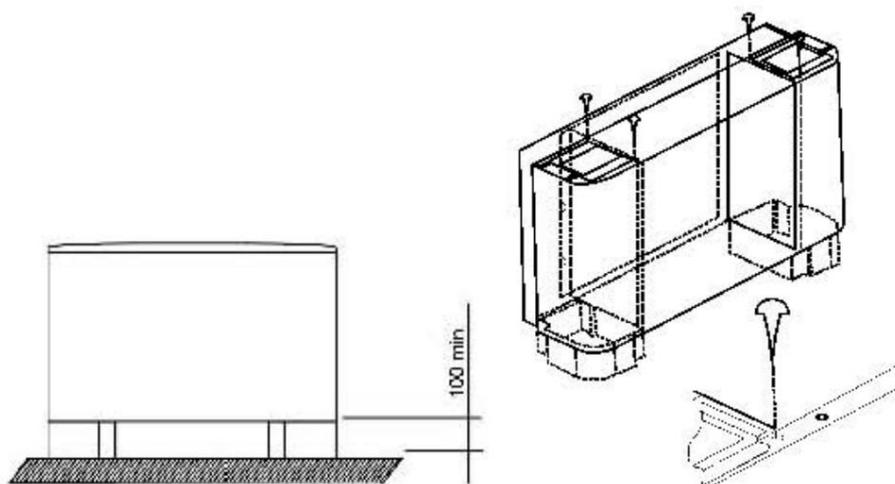
### **Transport and packaging** The convector

is packed in a cardboard box with the appropriate markings for the position of the cover and the method of transport. When unpacking, carefully check the accuracy of the convector inside

its conformity with the model you purchased. Each box with a label affixed by the manufacturer indicates the type and model of the packaged product, as well as the date of manufacture. Check for the presence of the mandatory documentation for the convector - operating instructions, warranty card, certificate for compliance.

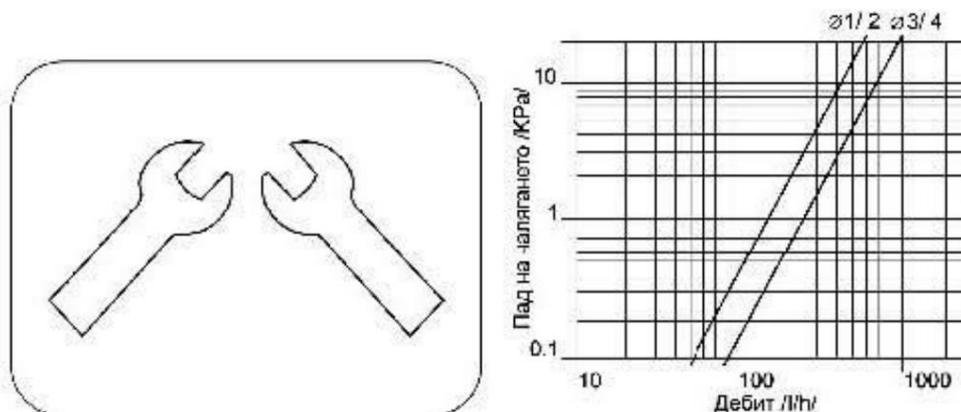
### Installation and operating instructions

Choose the installation position of the convector keeping in mind both the normal operation of the unit and the conditions for normal service of the air filter and other internal equipment. Normal air flow circulation requires a minimum distance of 10 cm from the floor.



Remove the outer metal cover of the convector by unscrewing the four screws as shown in the illustration. Place the unit in the required position, mark and install the clamping screws. Mount the convector in the desired position, observing the required slope of 1% to remove the condensate. Place the removed front cover on the convector after completing the water and electrical connections. Make sure the air filter is in place according to the instructions.

**Connecting the convector to a heating / cooling installation** It is recommended to use a sliding "French" key and counter key for the installation work.



It is recommended to install suitable taps at the inlet and outlet of the convector. When using it in COOLING mode, insulation must be used for the connecting elements. In case of long-term storage without operation, it is recommended to stop the heat exchanger taps in order to avoid the formation of condensation. Install an additional condensate pan on the side cover of the unit on the side where it is

bound to the water. The convector allows exchanging the places for connection to water and electrical installation. In such an operation, strictly observe the arrangement of the cables of the terminal block for the electrical part and the relocation of the tub for collecting the condensate. Bleeding of the convector is done through the built-in breather using a #8 wrench or screwdriver.



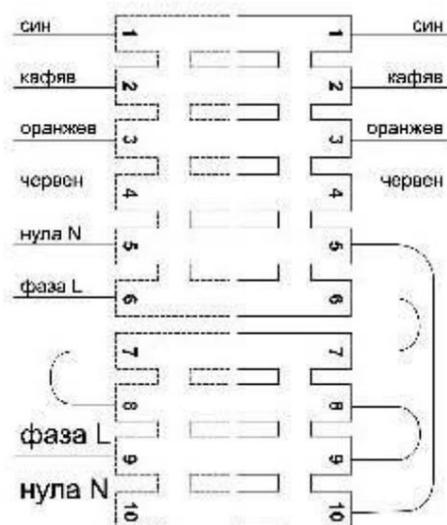
**ATTENTION!!!** When reversing the binding of the convector, it is necessary to dismantle

the guide plate located on the back side.

## Electrical binding

All THERMOLUX convectors, in addition to the standard electric connection, also allow the inclusion of additional automated control for the operation of the device - a thermostat. It can be installed both in the device itself and remotely on the wall. It is connected to the electrical installation of the convector using the connector shown in the diagram, following the instructions of the thermostat itself and the recommendations of the company

manufacturer. Depending on the type of control, an additional electric is applied to its equipment. scheme.





# WARRANTY CARD

FAN CONVECTOR

THERMOLUX SERIES

model	heating
	power
<i>Thermolux 020</i>	<i>1830 W</i>
<i>Thermolux 030</i>	<i>2630 W</i>
<i>Thermolux 045</i>	<i>3780 W</i>
<i>Thermolux 060</i>	<i>4860 W</i>
<i>Thermolux 080</i>	<i>6210 W</i>
<i>Thermolux 100</i>	<i>8100 W</i>
<i>Thermolux 120</i>	<i>8650 W</i>

Serial number: .....  
 Client: .....  
 Date of purchase:..... Date of initial  
 launch: .....

## WARRANTY TERMS

1. This warranty card is valid for 24 months from the date of purchase the facility.

2. The warranty consists of replacement or repair of the damaged part. 3. The warranty card is guaranteed by Deca Trade OOD, as the importer, and by the manufacturer at the following conditions:

- the facility is installed in accordance with the legal norms and according to the descriptions contained in the installation and operating instructions;
- the facility is properly maintained in accordance with the descriptions in the installation and operating instructions;
- when putting it into operation and during subsequent servicing, the requirements for respectively installation and operation;
- the facility is installed by a person authorized for the purpose. • THE PRODUCT WARRANTY IS ONLY VALID IF THE DOCUMENT OF ITS PURCHASE IS PROVIDED AND COMPLETED WARRANTY CARD.

4. The warranty card is invalid in cases of:

- damage caused due to improper storage and transportation of the goods;
- lack of regular and periodic technical support; • attempt to remove defects by the buyer or by other unauthorized persons;
- non-observance of the instructions contained in the installation and operation manual the facility;
- hydraulic or electrical installations that do not comply with legal norms; • violation by persons not authorized to carry out installation of the relevant installation;
- use of the facility for purposes other than those for which it was intended or with different methods than those described in the installation instructions;
- use of non-original spare parts, elements and accessories or non-recommended by Deca Trade OOD / in no case can a replacement or repair of a non-original part be requested/;

- corrosion, scale or fractures caused by condensation, hardness or acidity of water, anti-scaling treatments carried out incorrectly, lack of water, accumulation of mud or limestone;
- due to freezing, overheating, fire, vandalism, accidents, contingencies and others reasons for which Deca Trade OOD is not to blame.

5. The terms of the warranty card for the above points are the only ones offered by the company manufacturer, and Deca Trade OOD, as its representative, undertakes to comply with them.

## **ADDITIONAL INFORMATION TO WARRANTY CARD** **INFORMATION UNDER THE CONSUMER PROTECTION ACT**

Art. 112. (1) In case of non-compliance of the consumer goods with the sales contract, the consumer has the right to file a claim, asking the seller to bring the goods into compliance with the sales contract. In this case, the consumer can choose between repairing the product or replacing it with a new one, unless this is impossible or the method of compensation chosen by him is disproportionate compared to the other. (2) A given method of compensation for the consumer is deemed to be disproportionate if its use imposes costs on the seller which, compared to the other method of compensation, are unreasonable, taking

considering:

1. the value of the consumer goods, if there was no lack of discrepancy; 2. the significance of the discrepancy; 3. the possibility to offer the user

another way of compensation, which is not related to significant inconveniences for him. Art. 113. (1) (New - SG No. 18 of 2011) When the consumer goods do not comply with

the sales contract, the seller is obliged to bring them into compliance with the sales contract. (2) (Previous paragraph 1 - SG No. 18 of 2011)

Bringing the consumer goods into compliance with the sales contract must be carried out within

one month, counted from the submission of the claim by the consumer. (3) (Previous para. 2, amended - SG No. 18 of 2011) After the expiration of the term under para. 2 the consumer has the right to cancel the contract and to be reimbursed the amount paid or to request a reduction in the price of the consumer

goods according to Art. 114. (4) (Previous paragraph 3 - SG No. 18 of 2011) Bringing the consumer goods into compliance with the sales contract is free of charge for the consumer. He does not owe the cost of shipping the consumer product or the materials and labor involved in repairing it, and he should not suffer significant inconvenience.

(5) (Previous para. 4 - SG No. 18 of 2011) The user may also request compensation for the suffered

damages as a result of the discrepancy. Art. 114.

(1) In case of non-compliance of the consumer goods with the sales contract and when the consumer is not satisfied with the resolution of the complaint under Art. 113, he has the right to choose between one of the following

possibilities:

1. cancellation of the contract and refund of the amount paid by him; 2. reduction in price. (2)

The consumer cannot claim a

refund of the amount paid or a reduction in the price of the goods when the merchant agrees to replace the consumer goods with a new one or to repair the goods within one month of the consumer's complaint. (3) The user cannot claim to cancel the contract if the non-conformity of the user

goods with the contract is insignificant. Art.

115. (1) The consumer may exercise his right under this section within a period of up to two years, counted from the delivery of the consumer goods.

(2) The term under para. 1 ceases to run during

the time necessary for the repair or replacement of the consumer goods or for reaching an agreement between the seller and the consumer to resolve the dispute. (3) The exercise of the user's right under para. 1 is not bound by any other term for filing a claim, other

than the term under para. 1. **Regardless of the commercial guarantee, the seller is responsible for the non-compliance of the consumer goods with the sales contract**

**according to the guarantee under Art. 112 – 115 of the Civil Code.**

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For any disputed matter, the competent jurisdiction shall be that of

**Deka Trade OOD, gr. Plovdiv, blvd. Vasil Aprilov 170, tel.: 032 905 380, 90 60 50; fax: 032 905 399.**

