

Benes



OnlineDryer S model

User's Manual 1.10

**models: OnDS300A, OnDS420A, OnDS540A, OnDS640A,
OnDS300B, OnDS420B, OnDS540B, OnDS640B**

Thank you very much for purchasing the product.

- To ensure correct and safe usage with a full understanding of this product's performance, please be sure to read through this manual completely and store it in a safe location.
- Unauthorized copying or transferral, in whole or in part, of this manual is prohibited.
- The contents of this operation manual and the specifications of this product are subject to change without notice.
- The operation manual and the product have been prepared and tested as much as possible. If you find any misprint or error, please inform us.
- Benes bvba assumes no responsibility for any direct or indirect loss or damage which may occur through use of this product, regardless of any failure to perform on the part of this product.
- Benes bvba assumes no responsibility for any direct or indirect loss or damage which may occur with respect to any article made using this product.

Grounding instructions

Do not modify the plug provided – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

Check with the qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3 prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn out cord immediately.

Operating instructions

Keep work area clean. Cluttered areas and benches invite accidents.

Don't use in dangerous environment. Don't use power tools in damp or wet location, or expose them to rain. Keep work area well lighted.

Disconnect Tools before servicing.

Reduce the risk of unintentional starting. Make sure the switch is in off position before plugging in.

Never leave tool running unattended. Turn power off. Don't leave tool until it comes to a complete stop.

For the USA

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

Unauthorized changes or modifications to this system can void the users authority to operate this equipment.

For Canada

Class A Notice

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Classe A AVIS

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

For California

WARNING

This product contains chemicals known to cause cancer, birth defects and other reproductive harm, including lead.

For EU Countries



WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.



Manufacturer Benes int bvba
Industrieweg 3 , 3001 Leuven, Belgium
Model name : see model given on the rating plate
Electrical Certificates : EN 60950-1, 2nd edition, IEC 60950-1, 2nd edition

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Features of the OnlineDryer

Description of the OnlineDryer

We will use the "S model" as a general name .

The **OnlineDryer-S** models are drying units that are used to dry the printed output from large format digital inkjet printers. When printing with inkjet, the printed media often is not dry immediately after printing. Through its heated surface, the OnlineDryers will speed up the drying process by warming up the printed media, so that faster evaporation will take place. With ventilation the dryer gives even more drying capacity.

Temperature-Trigger: The S model is automated using a Temperature sensor that measures the temperature of the printer surface.

To Ensure Safe Use

Please read this section before using the OnlineDryer.

About WARNING and CAUTION Notices

WARNING:







This message must absolutely be followed in order to prevent **serious injuries or even death**.

CAUTION:

These announcements alert the user to the risk of personal injuries when using the unit inappropriately. Besides the risk for injuries, these messages also alert for possible material damage to equipment or office environment and its furnishings and pets.

Note: These are important tips or hints for a correct use of the unit.

About the Symbols

	The  symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. The symbol at the left means "danger of electrocution".
	The  alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be carried out is indicated by the design within the circle. The symbol at left means that the unit must never be disassembled.
	The  symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained in the circle. The symbol at left means that the power cord must be unplugged from the outlet.

**WARNING:**

	<p>Read this section completely before starting the installation of the OnlineDryer.</p>
	<p>Do not use with any electrical power supply that does not meet the ratings the AC adapter. Use with any other power supply may lead to fire or electrocution.</p>
	<p>The supplied power cords must not be used for other products than the OnlineDryer.</p>
	<p>Never use water, solvents or another liquid in the surrounding or on the OnlineDryer. Doing so can lead to electric shock, fire and electrocution. In case you spilled a liquid on the OnlineDryer, pull out the power cord via the plug and inform the technical support service.</p>
	<p>Do not disassemble, repair, or modify. Doing so may lead to fire or abnormal operation resulting in injury.</p>
	<p>Do not open the unit. The OnlineDryer does not contain replaceable parts. Neither pierce the unit with small sharp objects for risk of fire, electrocution.</p>
	<p>Do not use the OnlineDryer in an environment with condensing humidity. Pay attention not to touch the unit with wet hands or wet cloths.</p>
	<p>Do not use the OnlineDryer for anything else than for the drying of digital printing output.</p>
	<p>Do not lean on the OnlineDryer, as it is not designed to carry more than its own weight.</p>
	<p>Do NOT use the unit on electrical circuit of the IT-net type.</p>








**WARNING:**

	Use only with the power cord included with this product. Use with other than the included power cord may lead to fire or electrocution.
	Ground the unit with the ground wire. Failure to do so may result in risk of electrocution in the event of a mechanical problem.
	Do not use the OnlineDryer in the vicinity of flammable materials. Doing so may cause fire.
	Do not connect the power cord with other electrical loads on a single electrical outlet. Doing so may generate heat and cause fire.
	Do not use while in an abnormal state (i.e., emitting smoke, burning odour, unusual noise, or the like). Doing so may result in fire or electrocution. Immediately unplug the power-cord plug from the electrical outlet, and contact your authorized Benes bvba dealer or service centre.

**CAUTION:**




	Unpacking and installation must be carried out by two or more persons. Otherwise the machine or stand may fall, resulting in injury.
	Pay attention to the edges of the OnlineDryer. Parts are made from relatively thin metal plate and this can always be sharp when manipulating the unit without precautions.
	Do not touch the surface of the OnlineDryer when it is in use. Doing so may result in burning.
	Never force somebody to hold hands or other parts of the body for more than 4 seconds as this may cause burning wounds.
	When unplugging the electrical power cord from the power outlet, grasp the plug, not the cord. Unplugging by pulling the cord may damage it, leading to fire, electrical shock, or electrocution.

 **CAUTION:**

	<p>Use care when mounting the OnlineDryer body in the support in order to avoid pinching fingers.</p>
	<p>Do not attempt to unplug the power-cord plug with wet hands. Doing so may result in electrical shock or electrocution.</p>
	<p>Please use the unit on electrical circuits with a breaker of 16A or more. Failure to do so may result in breaker accidents.</p>
	<p>Install in a level and stable location. Failure to do so may result in the unit tipping over, leading to injury.</p>
	<p>Do not use with a damaged power cord or plug, or with loose electrical outlet. Doing so may lead to fire, electrical shock or electrocution.</p>
	<p>Do not damage or modify the electrical power cord, subject it to excessive bending, twisting, pulling, binding, or pinching, or place any object or weight on it. Doing so may damage the electrical power cord, leading to fire, electrical shock, or electrocution.</p>
	<p>When not in use for extended periods unplug the power-cord plug from the electrical outlet. Failure to do so may result in danger of electrical shock, electrocution, or fire due to deterioration of electrical insulation.</p>

About the labels affixed on the unit

The following labels are affixed on the OnlineDryer:

<p>Warning Label on Fan</p>  <p>Keep away from fan inlet with long hair or loose filaments of cloths.</p>	<p>Caution label at front:</p> <p>Pay attention, the surface may be hot.</p> 	<p>Warning label at the back</p>  <p>Do not open the unit. Only to be opened by a qualified technician.</p>
<p>Label: Serial number</p>		

Installation

Unpacking

⚠ Caution:

As the weight of the complete unit can be above 18 kg, 2 persons are required:
~~to move~~ Make sure you are with 2 persons
 to move and handle the box
 to unpack the unit
 to mount the unit

Note:

Check the box on the outside for mechanical or other damage. If damage is present, please contact the reseller and the transport agency.

Open the box and check the contents

<p>OnlineDryer-S Base unit with fan + manual</p> 	<p>Support kit for the dryer</p> 	<p>power cable male-female + power cable</p> 
<p>temperature trigger kit</p> 	<p>Screws and tools</p> 	<p>Support kit fan</p> 

⚠ Caution:

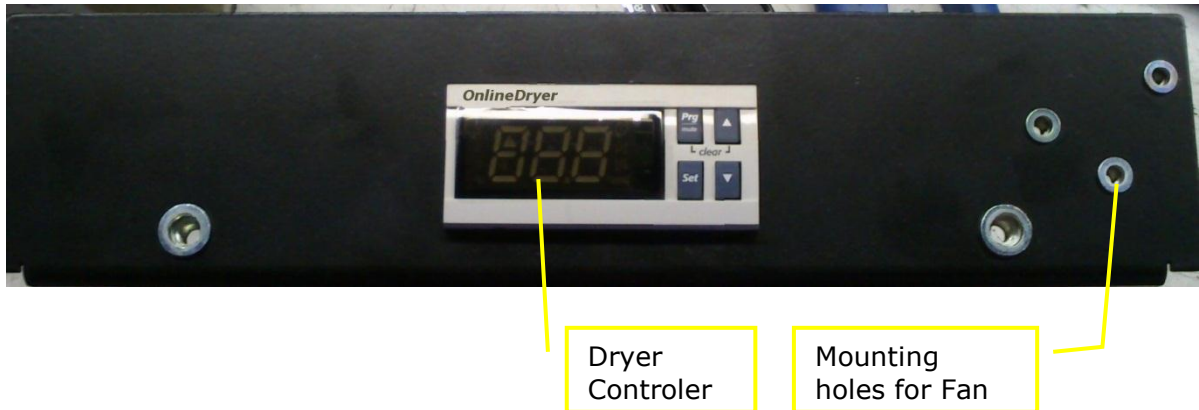
Theis male-female power cable can only be used to connect the fan to the Dryer outlet!!

Unload the box and spread the different parts on the floor.

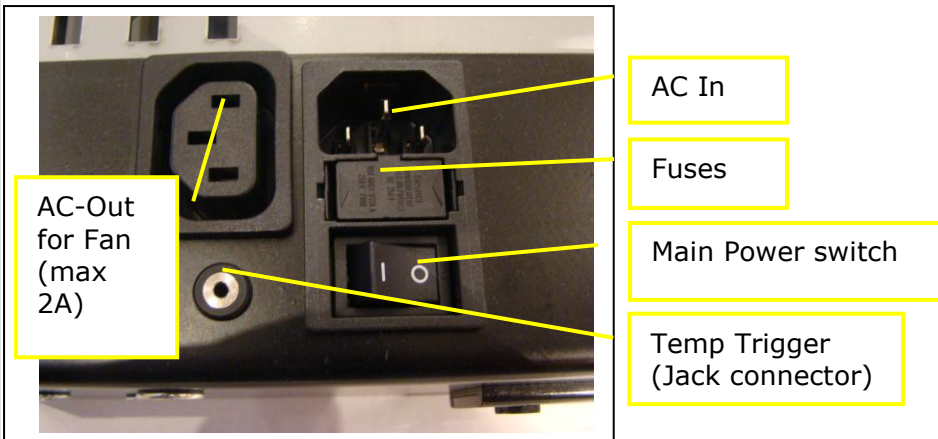
General View



Side View



Bottom View



Connections

⚠️WARNING: Check the power (voltage) at the back and verify that it is ok with the voltage specs in use.

⚠️WARNING: Check the power cable and see if there are no abnormalities.

⚠️WARNING: Watch the warning label at the front of the dryer and make other people aware of the fact that the dryer surface can be hot.

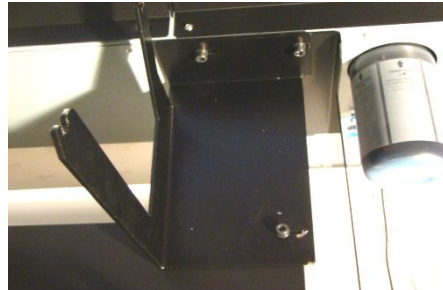
Mounting S Model Dryer on VS models

OnDS 640 mounted on VS 640



Step 1:
Place the RIGHT support

Use the **existing screws** (2 x 3 on S) that fix the printer on its stand.



Step 2:
Place the LEFT support

Again, use the existing screws that fix the printer on its stand.



Step 3:

!!! Fan unit: FIRST mount the fan support brackets at both sides (See the right image)

Then put the dryer in place.

You have to be with 2 people to do this safely.

Step 4 :

Before Fixing the bottom screws : You can tilt the dryer so that the gap between the dryer and the printer is minimised. !

Fix the unit both on the upper and lower support

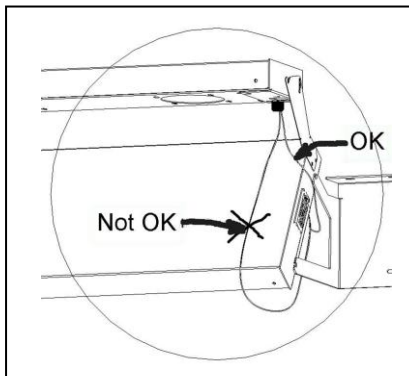
Step 5:

put the fan in place

Put it into the brackets using the 4 screws.

Step 6:

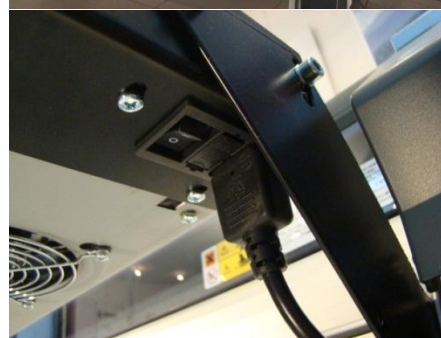
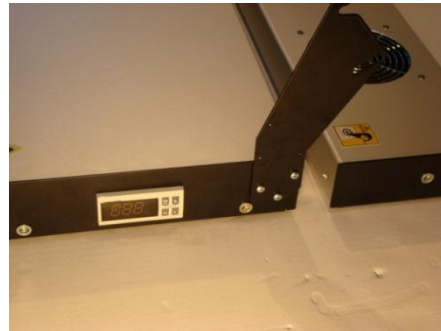
Connect the power line from the dryer to the fan



Make sure the cable is put so that it does not block the paper path

Step 7:

Mounted Online Dryer



Step 8:
Power on

With the power applied to the dryer, switch on the power switch at the bottom.



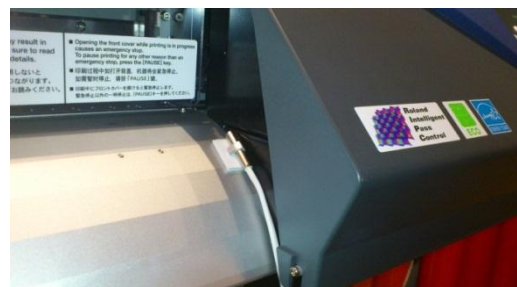
Temperature Trigger:

Note: The temperature sensor is to be mounted on the surface of the printer at the extreme right of the print area

Step1:
Put the sensor on the Aluminium fixation and close the clip.



Step2:
Peel off the self-adhesive protection and put the sensor with clip on the extreme right (the 4th face from below)
Push gently to make good contact.



Insert the plug in the jack at the back of the dryer.

OnlineDryer S Usage

Operation of Dryer



Switch on the OnlineDryer with the main power switch **at the bottom** of the dryer

The dryer will start to heat and shows the actual dryer temperature.
Enter the 2 SetPoints: St1 is the dryer surface setpoint and St2 is the Trigger setpoint.

Dryer Controller Temperature Setup SetPoint1

Press the SET button for 5 seconds: the display blinks
St1 appears (Setpoint 1)

Use the up and down arrow on the Controller to adjust the temperature. Press on the SET button to confirm the setting. The Dryer Controller steers the dryer over a Solid State relay for optimal reliability. (Factory default 50°C)

Trigger Temperature Setup SetPoint2

Press the SET button again and St2 appears for 5 seconds: the display blinks
Use the up and down arrow on the Controller to adjust the temperature. Press on the SET button to confirm the setting. (Factory default 30°C). The dryer will start as soon as the printer surface is heated up to 30°C.

As the position of the trigger sensor is at the outer side of the printer heater, there is a gap of more than 10°C between the temperature, set on the VS printer, and the temperature sensed by the trigger sensor. In order to make it start automatically you have to set it more than 10°C under the temperature of the printer.

Example: When you have set the VS temperature to 50°C, you should put the trigger temperature under 40°C. The factory setup of 30°C will serve well in most cases.

View settings and actual temperature of Trigger sensor

In normal operation, the controller shows the temperature of the dryer. When you press the "DOWN" button you can see the other parameters St1,St2,Di1,Di2,B1 and B2

St1 shows the setting of **Setpoint 1** (dryer temperature setting)

St2 shows the setting of **Setpoint 2** (trigger temperature)

B1 shows the actual measured temperature on the dryer surface

B2 shows the actual measured temperature on the printer surface

Di1 not used

Di2 not used

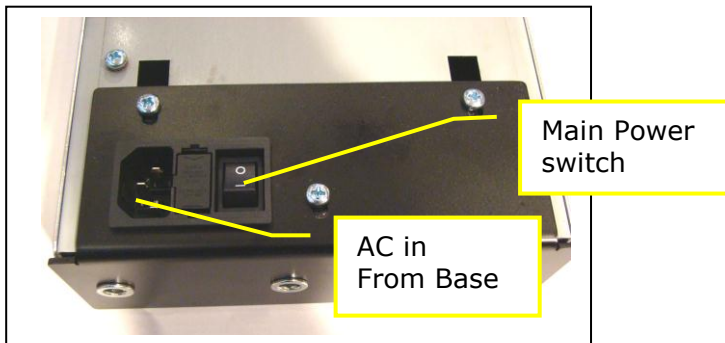
Leave the display untouched for 1 minute and the display returns to normal

Error Messages

E01: the internal temperature sensor of the dryer is disconnected or defect (contact dealer)

E02: the temperature sensor (trigger) is not connected or defect. Make sure the plug is inserted in the jack at the back.

Operation of Fan



Switch on the Fan with the main power switch at the bottom of the fan. This switch will NOT start the fan as such. The fan will start only when the OnlineDryer gives the command to do so.

You cannot use the fan as a stand-alone unit .

Cleaning

Use a dry cloth to take away dirt and dust.

When ink is spilled on it, use a cloth with neutral detergent or alcohol to clean it.

⚠ WARNING: Make sure the power is switched off before. Also do not spill any liquid directly on the OnlineDryer. Wait till all liquid is dried before switching on again.

Moving

⚠ CAUTION:

Switch off the unit with the hard switch at the side.

Pull out the power cable.

Take off the temperature sensor!!!!

⚠ CAUTION:

You need 2 persons to put the unit on transport. It is required to ship the unit in its original packaging.

Coordinates

Contact first your reseller.

Manufacturer

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Specifications**Power**

Consumption: 660W max

Consumption in standby mode: 8W

For 100-115V models

Voltage: 100 - 115V AC (models ...A), Frequency: 50/60Hz

Current: max 6 A at 100-115V

For 200-240V models

Voltage: 200 - 240V AC (models ...B), Frequency: 50/60Hz

Current: max 3A at 200-240V

Please use the unit on electrical circuits with a breaker of ~~15~~16A or more.

Factory Temperature settings: ST1 55°C, ST2 30°C.

Model ending in A or B	Dimensions mounted	Weight mounted	Box	Box Weight
OnDS300	262x405x815 mm (10.3x15.9x32.5 in)	14 kg (30 lb.)	380x290x870 mm (15x11.4x34.3in)	17 kg (37lb.)
OnDS420	262x405x1136 mm (10.3x15.9x44.7 in)	16 kg (35 lb.)	380x290x1180 mm (15x11.4x46.5in)	19 kg (42 lb.)
OnDS540	262x405x1436 mm (10.3x15.9x56.5 in)	18 kg (40 lb.)	380x290x1480 mm (15x11.4x58.3in)	22 kg (48 lb.)
OnDS640	262x405x1696 mm (10.3x15.9x66.8 in)	20 kg (44 lb.)	380x290x1740 mm (15x11.4x68.5in)	24 kg (53 lb.)

Environment:

Temperature: 10°C – 35°C, Humidity: 20% - 80% non-condensing

Stock:

Temperature: 10°C – 50°C, Humidity: 20% - 80% non-condensing