

INSTALLATION AND OPERATION MANUAL

Adiabatic Humidification System Condair ML Princess 2/Princess 2 Max



Humidification, Dehumidification and Evaporative Cooling

Thank you for choosing Condair

Installation date (DD/MM/YYYY):

Commissioning date (DD/MM/YYYY):

Site:

Model:

Serial number:

Contact

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1.0 General information

1.1 Foreword

This manual has been written to ensure the safe use, performance, and longevity of the equipment, and is intended for use by engineers and properly trained technical personnel. Please read this manual thoroughly before specifying, designing, or installing a ML Princess 2 or ML Princes 2 Max from Condair A/S. Keep the manual for future reference.

As our policy is one of continuous research and development, we reserve the right to amend, without notice, the specifications provided in this document. Condair A/S does not guarantee nor accept liability for the accuracy of information in this document.

This installation and operation manual is supplemented by various separate items of documentation (installation drawings, technical specifications etc.). Where necessary, appropriate cross-references are made to these publications in this installation and operation manual.

1.2 Guide to symbols used in this manual.



1.3 Health and safety

Installation, maintenance, repair work or decommissioning should only be carried out by appropriately qualified and properly trained technical personnel. The users are responsible for ensuring their suitability. The customer is responsible for ensuring that the installation of the equipment complies with all local regulations.

Any risks or hazards relating to the system, including during installation and maintenance, should be identified by a competent health and safety representative who is responsible for introducing effective control measures.

All ideograms, signs and markings applied to the unit must be observed and kept in a readable state.

Always isolate all supplies to the system before commencing any maintenance or repair.

1.4 Hygiene

Please observe the local health and safety executive's technical guidance on the control of Legionellosis in water systems.

The user is responsible for ensuring that the water system complies with local regulations, bylaws and guidelines (such as the HSE ACOP L8, VDI 6022, ISO 22000, HACCP or equivalent). If inadequately maintained, water systems, of which any humidifier is a part, can support the growth of microorganisms, including the bacterium that causes Legionnaires' disease.

The ML Princess 2 and ML Princess 2 Max system components are produced according to the HACCP principles which means that we have considered all aspects of this equipment to reduce the risk of Legionnaires' disease and other similar conditions. However, the user is responsible for ensuring that the installation, operation and maintenance work on the equipment is performed in a manner ensuring that the system stays clean!

Any risks or hazards relating to the system, including during installation and maintenance, should be identified by a competent health and safety representative who is responsible for introducing effective control measures.

The ML Princess 2 and ML Princess 2 Max Systems must be installed, operated, and maintained in accordance with this manual. Failure to do so could result in contamination that might cause Legionnaires' disease, which can be fatal.



1.4.1 Guidelines to ensure your system stays clean and prevent the growth of Legionella.

- Carry out a risk assessment of the water system in collaboration with a competent person and implement an appropriate monitoring and control program.
- Initiate procedures for changing filters, disinfection etc.
- Choose a service contract that suits your company.
- Shut down the system if polluted drinking water is found in your area.
- Avoid water temperatures between 25°C and 45°C, which favors the growth of Legionella.
- Do not shut down the system unless it is faulty or leaking (avoid water stagnation).
- Refrain from closing nozzles or sections unless there is leakage or a fault (avoid water stagnation).
- Disinfect the ML Princess 2/ML Princess 2 Max system at least once a year and after every maintenance or repair. Always carry out a complete system disinfection if it has been turned off for more than 48 hours.
- Have water samples taken and tested for harmful bacteria at least once a year.
- Conduct follow-up measurements until the system is clean if bacteria have been detected in the system.

1.4.2 The Condair service team experts

Condair has expert service technicians who can provide:

- Bacteriological troubleshooting on site *
- Cleaning and disinfection services
- Preventive maintenance
- Repair and fault-finding services.
- Training and guidance

*Condair uses a fast method for measuring bacterial activity in the water. It is an approved and patented method called BactiQuant. Once a water sample has been taken, we can read the bacteriological quality of the water within 30 minutes and disinfect the system if necessary.

1.5 Intended use.

The ML Princess 2 and ML Princes 2 Max is intended for adiabatic humidification and cooling. Any other, or further, application is not considered use for the intended purpose. Condair A/S cannot be made liable for any damage or injury attributable to inattentive, inappropriate, negligent, or incorrect operation of the equipment, whether caused deliberately.

Operation of the equipment in the intended manner requires that all the information in this installation and operation manual be observed (safety instructions in particular).



1.5.1 Ensure safe operation.

Safe operation of the humidification system after commissioning is the customers responsibility. If you suspect that safe operation of the ML Princess 2/ML Princess 2 Max system has been compromised, the system should be shut down immediately and secured against accidental power-up. Below are the conditions that enforce a system shut down.

1.5.2 System shut down conditions.

The ML Princess 2/ML-Princes 2 Max system should be shut down if:

- Components are damaged, worn or very soiled.
- Fans are stopped or noisy.
- Joints, pipes, or hoses are leaking.

No modifications must be made to the ML Princess 2/ ML-Princess 2 Max system without the manufacturer's consent. All people working with the ML Princess 2/ ML-Princess 2 Max system must report any alterations made to the system to Condair or a Condair representative immediately.

Use only original accessories and spare parts available from your Condair representative.



1.6 Warranty

The ML Princess 2 and ML-Princess 2 Max system parts are covered by a two-year warranty from the invoice date except for the replacement parts listed in the routine maintenance section. Failure to observe the manufacturer's installation and maintenance recommendations and instructions will invalidate the warranty. Condair A/S cannot be made liable for damage or injury attributable to failure to observe the manufacturer's installation and maintenance recommendations and instructions will invalidate the warranty.

1.7 Product Storage

If storing the system becomes necessary prior to use, the components must be covered and protected from physical damage, dust, frost and rain.

It is recommended that the ML Princess 2/ML-Princess 2 Max system and components be kept in their transit packaging for as long as possible prior to installation.

1.8 Inspection

It should be noted that all our systems are tested before leaving the factory to ensure that they meet the design specifications and other non-functional requirements that are customer specific.

However, upon receipt, remove the transit packaging and inspect the system and components to ensure that no damage has occurred during transit. Any visible damage must be reported to your Condair distributor immediately. If the components are put into storage, use of the original packaging is recommended for the purpose.

1.9 Correct method of lifting

Lifting or handling must only be carried out by trained and qualified personnel. Ensure that the lifting operation has been properly planned and risk-assessed, and that all equipment has been checked by a skilled and competent health and safety representative.

The customer is responsible for ensuring that operators are trained in handling heavy goods, and to enforce the relevant lifting regulations. Refer to the weights and measures section for system weight.

1.10 Disposal

You must observe local laws and regulations when disposing of your ML Princess 2/ ML Princess 2 Max System at the end of its working life.

1.11 Water quality guide

The quality of water being used in the ML Princess 2/ ML Princess 2 Max systems should be checked prior to system commissioning and comply with the guidelines in the high-pressure pump manual.

1.11.1 Water monitoring

The ML Princess 2/ ML Princess 2 Max systems must be monitored for hygiene as part of the maintenance program. Please refer to the maintenance section for further guidance.

1.11.2 Disinfection

To maintain the system hygiene, it is advised that preventative disinfection be carried out at appropriate frequencies, but at least once a year.

Condair A/S recommends using the disinfection fluid SANOSIL S010 AG 5% (our code: 155404000) to the System via the high-pressure pump, and a desired concentration of 0.1%.

Please read the pump manual for more information on disinfection.

If you are in any doubt about the suitability of water quality, please contact your Condair distributor who will be happy to support you.



2.0 Product Overview

The ML Princess 2 and ML Princess 2 Max are part of a complete high pressure humidification systems with one or more humidification units. Every unit consists of a nozzle ring with 4-8 nozzles and a built-in fan.

Humidity produced as water under high- pressure is atomized into micro-sized particles, which are immediately absorbed into the surrounding air. The fan distributes the fog particles, thus securing a uniform humidity throughout the entire room.



Figure 1: The ML Princess 2/ML Princess 2 Max



Figure 2: The ML Princess 2 detailed illustration

The ML Princes 2 is manufactured with a fan which allows more installation and control options. The fan has its own power circuit, and hence more speed regulation options that are achieved by a speed regulating board.

The regulating board is installed inside the connection box and assists the system in lifting the sprayed water further out, but at the same time reducing the power consumption to a third of the max power input. This also helps reduce the noise level of the fan.

The fan is by default configured to position 4, for the ML Princess 2 which is standard for normal use.





The fan for the ML Princess 2 Max is by default configured to position 7. The main difference between the ML Princes 2 and the ML Princess 2 Max is the fan speed setting and bigger nozzles.



2.1 ML Princess 2 Specification

The ML Princess 2 and ML Princess 2 Max have the following characteristics:

- Powdered painted steel 37 Housing or anodized aluminum.
- Low noise fan system
- Regulated fan speed.
- Ball valve for water inlet
- Possibility to connect a potentiometer for the humidification performance.

2.2 Technical data

2.2.1 Technical data for the ML Princess 2/ML Princess 2 Max

	Technical Data						
	ML Princess 2	ML Princess 2 Max					
Weight	5.5 kg (12.1 lb)	5.5 kg (12.1 lb)					
Number of nozzles	8 pcs.	8 pcs.					
Recommended nozzle size	1.5 - 4.5 L/h (3.3 - 9.9 lb/h)	6.5 L/h (14.3 lb/h)					
Nozzle capacity	10 - 36 L/h (22 - 79.3 lb/h)	52 L/h (114.6 lb/h)					
Nozzle working pressure	35 – 70 bars (508 - 1016 psi)	35 – 70 bars (508 - 1016 psi)					
Nozzle material	Stainless steel	Stainless steel					
Anti-drip valve	Standard	Standard					
Housing Material	Anodized aluminum	Anodized aluminum					
Power Supply	200-240 VAC, 50/60 Hz. IP44	200-240 VAC, 50/60 Hz. IP44					
	100-130 VAC, 50/60 Hz. IP44	100-130 VAC, 50/60 Hz. IP44					
Power consumption	At nominal speed 26W	At nominal speed 49W					
Protective grille	Epoxy treated steel	Epoxy treated steel					
Color	ALUMINUM	ALUMINUM					
RH working range	20-80% RH	20-80% RH					

Below the technical specifications of the ML Princess 2/ML Princes 2 Max

2.2.2 Noise level

The noise level for both ML Princess 2 and ML Princess 2 Max is approximately as indicated below:

Noise Level	Noise Level											
Distance to unit (Vertical)	1.5 m (4.9 ft)	3 m (9.8 ft)										
dB(A)	59.5*	53*										

Note: *Approximated values.

2.3 Conditions of use

The power supply cable must be connected to the fixed connection box¹ (UL Versions only) mounted on the Baffle plate of the ML Princess 2 or ML Princess 2 Max.

2.4 Scope of delivery

Standard package.

- ML Princess 2 & ML Princess 2 Max humidifier
- Installation instructions and operation manual
- Accessory kit 102910005
- Nozzle gasket
- Nozzle set

¹ See section 5.0 for details.



3.0 Assembling of the ML Princess 2

3.1 Installation of the nozzle ring on the baffle plate (A)

The nozzle ring is fastened on top of the baffle plate using the nozzle ring brackets. Standard nozzle rings are provided with ball valve, filter unit and nozzles.

3.2 Final installation of nozzle ring (B)

Do not install the bleeding nozzle on each individual humidity unit until the system has been flushed through.

3.3 Installation of ball valve and filter union on nozzle ring (C)

Assemble ball valve and filter union as shown on the drawing. Make sure that the filter fixture is attached securely, and the O-ring is in place before assembling the filter union. Close the ball valve when the unit is finally mounted.



Figure 4: Assembly overview of the Princess 2

3.4 Model type name plate

The US and CA versions of the system is configured to operate at 115 VAC-60 Hz. The operating pressure is 70 Bar/1000 PSI and indicated on the name plate.



Figure 5: Model type name plate



Never unscrew a nozzle on a pressurized unit. Disconnect power to the pump station when working on high-pressure system or close the ball valve on the unit.

- Before inserting the nozzle, check that its threads and O-ring are intact.
- Screw the nozzle in by hand, tighten.
- Use a set of polygrip pliers to tighten the nozzle (approx. 1/8 turn) (torque: 2.1 Nm +/- 0.1 Nm)
- Always tighten on the tip of the nozzle too, to make sure it is also tight.

Be careful! The threads on the nozzles break easily, the nozzle seals with an O-ring and hence does not need to be tightened very hard, just a little more than you can do by hand.

4.0 Ceiling mounted ML Princess 2

The ML Princess 2 can be hanged in the ceiling. For this purpose, it is recommended that an electro galvanized knotted chain as shown below be used.



D	Ø1.6 mm	Ø0.04 in
Т	23 mm	0.91 in
В	7 mm	0.28 in
Breaking Load	22 kg	48.5 lb
Unit Weight	6 kg/100 m	0.04 lb/100 ft

This chain type is not in the delivery package and hence should be bought separately. Condair can supply the below listed items if required.

Item no.	Description
101101000	Chain fixture 6 m
101100000	Chain fixture 10 m
101104000	Chain for Princess units, 100 m

When mounting the system in the ceiling, adjust the chains so that the unit is in level. After flushing and bleeding of the ML Princess 2 system, remove the excess chain and close S-hooks.

The chains must be fastened to the ceiling with appropriate material (screws, raw plugs, concrete screw anchors etc.) following building regulations.

Further, S hooks are used to attach the ML Princess 2/ML Princess 2 Max to the chains. The recommended size and strength are as shown below.



D	ø3.0 mm	Ø0.12 in
A	30 mm	1.2 in
Breaking Load	40 kg	88 lb
Unit Weight	0.003 kg	0.0066 lb



Condair can supply this item, if need be, and the item order number is stated below.



Figure 6: The ceiling fixed version of the ML - Princess 2

N.B:

The baffle plate must be positioned as indicated on the drawing and always with the pointed end turning towards the fan blades in order to secure correct operation.

When installing, fit the baffle plate to the body of the unit as indicated and attach the chains to the housing.

5.0 Water and power connection



Figure 7: The High-Pressure water pipe connection

The high-pressure hose is connected to the ball valve. The hose can be strapped to the chain using cable ties. Avoid vertical U-turns on the hose. This might cause pockets of air in the hose.



5.1 Electrical connection

The fan must be connected to power supply by an authorized electrician. The fan is normally connected through a prescribed switch for continuous operation so that the air in the room is constantly recirculated.



Figure 8: Electrical connection of the fan motor.

For the US & Canada markets, the connection should be done via a fuse/circuit breaker connection box with a 6m AWG 14 cable which is supplied together with the ML Princess 2/ML Princess 2 Max package.

The connection box is located on the baffle plate of the system as shown below. The fuse holder can be opened, and a replacement ceramic fuse of type 179200.10 (5x20mm) can be inserted.



Figure 9: Connection in the Fuse Box



Figure 10: Connection diagram



Figure 11: ML Princess 2/ML Princess 2 Max for the US & Canada market



6.0 Installation of the air filter under fan (option)

The air filter serves as protection for the fan motor. In operating environments with much dust/dirt in the air (e.g., carpentry workshops) it may be necessary to clean the filters often due to the high dust loads that are carried with the conveying air.



Figure 12: Air filter fixation steps

- 1. ML Princess seen from below without filter.
- 2. Install the filter while the fan is in operation.
- 3. Place the filter holder.



Figure 13: Placement of the air filter

7.0 Hose layout examples

Below an illustration of how hoses should be laid out. It is important that sizing of the hoses is done according to TI013GB.



Figure 14: Example of hose layout in series





8.0 Spare parts

ITEM		PART NO.
Nozzle ring without ball valve, filter and nozz	102 200 001	
Ball valve, complete	Angled - Old version	102 910 000
	Straight – New version	102 910 005
Bracket set for nozzle ring ML Princess 2		102 901 000
Fan for the ML Princess 2, 230 VAC		2599234
Fan for the ML Princess 2, 115 VAC		2599235
Bag with 8 nozzles, 1.5 L/H		671 300 011
Bag with 8 nozzles, 2.5 L/H		671 300 012
Bag with 8 nozzles, 4.5 L/H		671 300 013
Bag with 8 nozzles, 6.5 L/H (ML Princess 2 m	ax only)	671 300 014
Fan filter for Princess 2		100 400 000
Fan filter holder Princess 2		100 402 000
Filter 20 μ, short		102 400 000

9.0 Distances between modules



Figure 16: Distances between modules





11. Appendixes



EC - Declaration of Conformity

Manufacturer: Condair A/S Parallelvej 2 DK-8680 Ry

EG - Konformitätserklärung

Hersteller: Condair A/S Parallelvej 2 DK-8680 Ry

Technical Manager: Christian Mølvadgaard

We hereby declare, that the following unit for humidification purpose:

Wir erklären hiermit , dass die folgende Anlage für Befeuchtungszwecke:

ML Princess 2 (8 nozzles/Düsen, 230 VAC or 115 VAC)

Fulfils all the relevant provisions of	Alle relevante Bestimmungen erfüllt in
2006/42/EC, Directive on machinery	2006/42/EG, Die Maschinenrichtlinie
2009/125/EC, ErP-directive – ecodesign requirements of energy-related products	2009/125/EG, Schaffung eines Rahmens für die Festlegung von Anforderungen an die umweltgerechte Gestaltung energieverbrauchsrelevanter Produkte
2011/65/EC, ROHS Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.	2011/65/EG, Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten

Is in compliance with the following harmonized	In übereinstimmung mit den folgenden harmonisierten							
standards	Normen ist							
EN ISO 12100:2011, Safety of machinery – General principles	EN ISO 12100:2011, Sicherheit von Maschinen - Allgemeine							
for design – Risk assessment and risk reduction	Gestaltungsleitsätze - Risikobeurteilung und Risikominderung							
EN ISO 13849-1:2015, Safety of machinery – Safety-related	EN ISO 13849-1:2015, Sicherheit von Maschinen -							
parts of control systems – Part 1: General principles for design	Sicherheitsbezogene Teile von Steuerungen - Teil 1: Allgemeine							
	Gestaltungsleitsätze							
EN 60204-1:2018, Safety of machinery – Electrical equipment of	EN 60204-1:2018, Sicherheit von Maschinen - Elektrische							
machines – Part 1: General requirements	Ausrüstung von Maschinen - Teil 1: Allgemeine Anforderungen							

DK-Ry, 2021-05-10

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Christian Mølvadgaard, Technical Manager

Condair A/S Parallelvej 2, DK-8680 Ry Tel. +45 8788 2100 www.condair.dk

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Warranty

Condair Inc. and/or Condair Ltd. (hereinafter collectively referred to as THE COMPANY), warrant for a period of two years after installation or 30 months from manufacturer's ship date, whichever date is earlier, that THE COMPANY's manufactured and assembled products, not otherwise expressly warranted, are free from defects in material and workmanship. No warranty is made against corrosion, deterioration, or suitability of substituted materials used as a result of compliance with government regulations.

THE COMPANY's obligations and liabilities under this warranty are limited to furnishing replacement parts to the customer, F.O.B. THE COMPANY's factory, providing the defective part(s) is returned freight prepaid by the customer. Parts used for repairs are warranted for the balance of the term of the warranty on the original humidifier or 90 days, whichever is longer.

The warranties set forth herein are in lieu of all other warranties expressed or implied by law. No liability whatsoever shall be attached to THE COMPANY until said products have been paid for in full and then said liability shall be limited to the original purchase price for the product. Any further warranty must be in writing, signed by an officer of THE COMPANY.

THE COMPANY's parts or materials that are considered consumables, including but not limited to: cylinders, filters, nozzles, membranes, media, gaskets, O-rings, etc. are NOT covered by the warranty.

THE COMPANY makes no warranty and assumes no liability unless the equipment is installed in strict accordance with a copy of the catalog and installation manual in effect at the date of purchase and by a contractor approved by THE COMPANY to install such equipment.

THE COMPANY makes no warranty and assumes no liability whatsoever for consequential damage or damage resulting directly from misapplication, incorrect sizing or lack of proper maintenance of the equipment.

THE COMPANY makes no warranty and assumes no liability whatsoever for damage resulting from freezing of the humidifier, supply lines, drain lines, or quality of the water used.

THE COMPANY retains the right to change the design, specification and performance criteria of its products without notice or obligation.

THE COMPANY's limited warranty on accessories, not of the companies manufacture, such as controls, humidistats, pumps, etc. is limited to the warranty of the original equipment manufacturer from date of original shipment of humidifier.

Extended Warranty

Extended warranties are available to purchase under the conditions listed above.



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