



MICROWELL



**WALL-MOUNTED SWIMMING POOL DEHUMIDIFIER
USER'S MANUAL**

MODEL: DRY 800 & 1200 METAL

Thank you for purchasing our product.

Please read this user manual carefully before starting to use the device.

Please keep the instructions of this practical guide in order to get a quick know-how.

We do not take any responsibility or provide warranty in case of damage, loss or damnification caused by incorrect usage or usage for other purposes, not specified in this manual.

- Contents:
1. Safety measures
 2. Usage specification
 3. Instructions for use
 4. Instructions for maintenance
 5. Servicing the unit
 6. Installation guide
 7. Technical data

1. SAFETY MEASURES

- Do not manipulate with the device with wet hands.
- Do not spray any flammable substances into the equipment; this might lead to fire.
- Do not clean the device with water.
- The cover of the device is made of steel, coated by three anticorrosive layers, protected by two variants of surface colours: silver metallic finish or white colour (METAL type).
- Do not clean the equipment with aggressive cleaning agents, this might lead to damage or deformations.
- Never throw or insert any objects into any tube or opening.
- Use this device only for the intended purpose, as described in the attached instructions for use. Do not use components, which are not recommended.
- Never block the air opening of the product. Protect the air openings from clogging by particles, hair etc.
- When the device is not running correctly (smoke, smell, etc.), switch off the device by a circuit breaker in the switchboard.
- Repairs and relocations must be performed only by a service technician.
- Before cleaning the device, switch off the circuit breaker in the switchboard.
- Do not place any objects on the surface of the device.
- When you do not intend to use the device for a longer time, switch off the circuit breaker.

2. USAGE SPECIFICATION

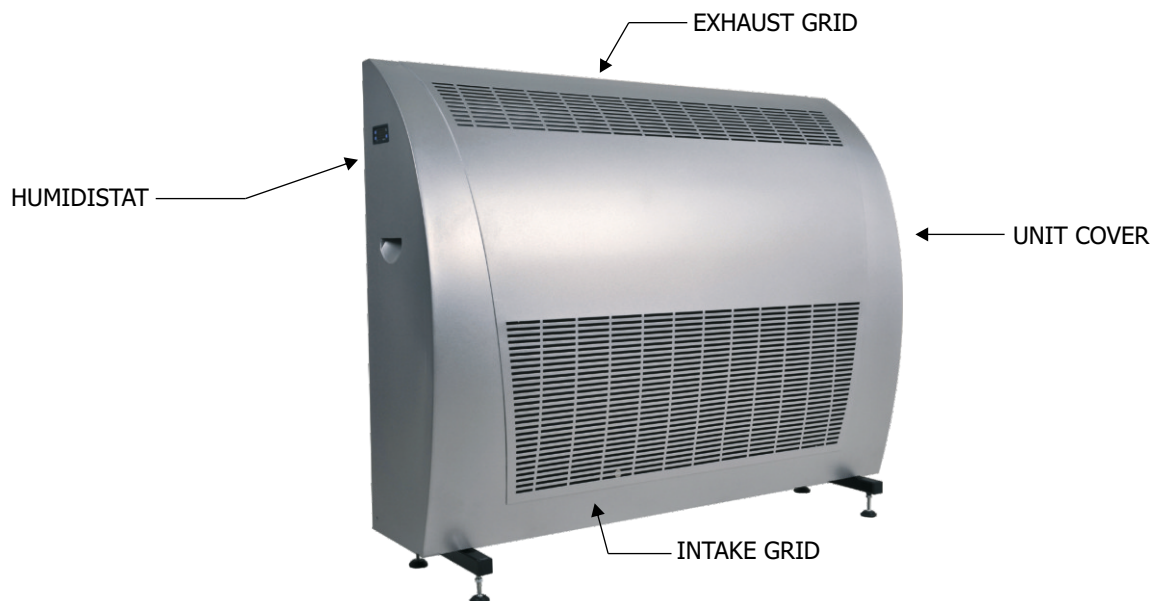
The units are designed especially for use in indoor swimming pools, spas and saunas. They can also be very useful in laundries, drying rooms and elsewhere.

Microwell DRY 800 METAL is designed for use in swimming pool halls with 60 to 90m² swimming pools.

Microwell DRY 1200 METAL is designed for use in swimming pool halls with 90 to 120m² swimming pools.

The condition of using the equipment is keeping a room temperature within a range between min. 22 °C and max. 35 °C.

Optimal situation occurs when the room temperature is about 2-3 C ° higher than a swimming pool water-temperature.



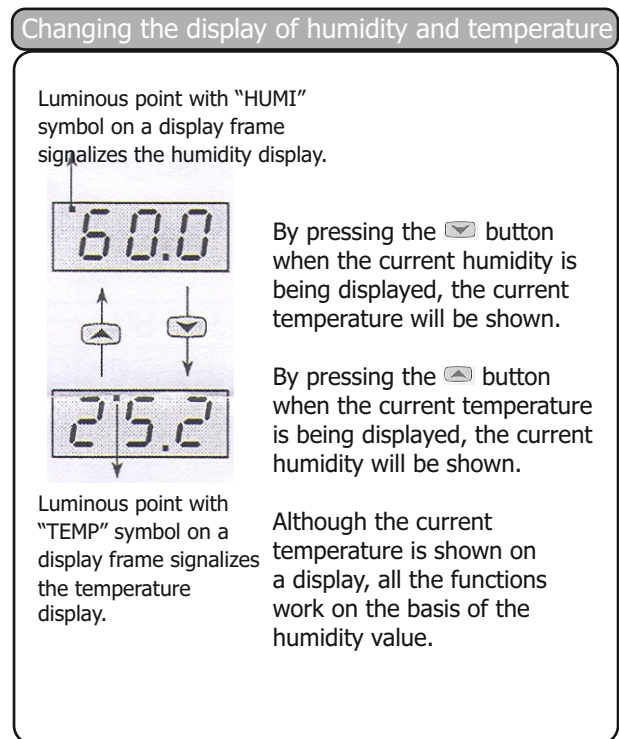
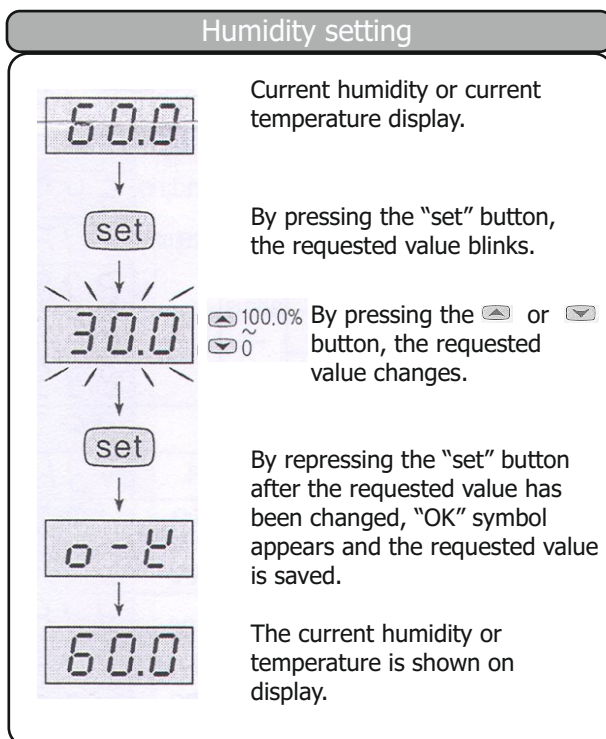
3. INSTRUCTIONS FOR USE

3.1. Humidity regulation with an inbuilt digital humidistat located in the cover of the equipment

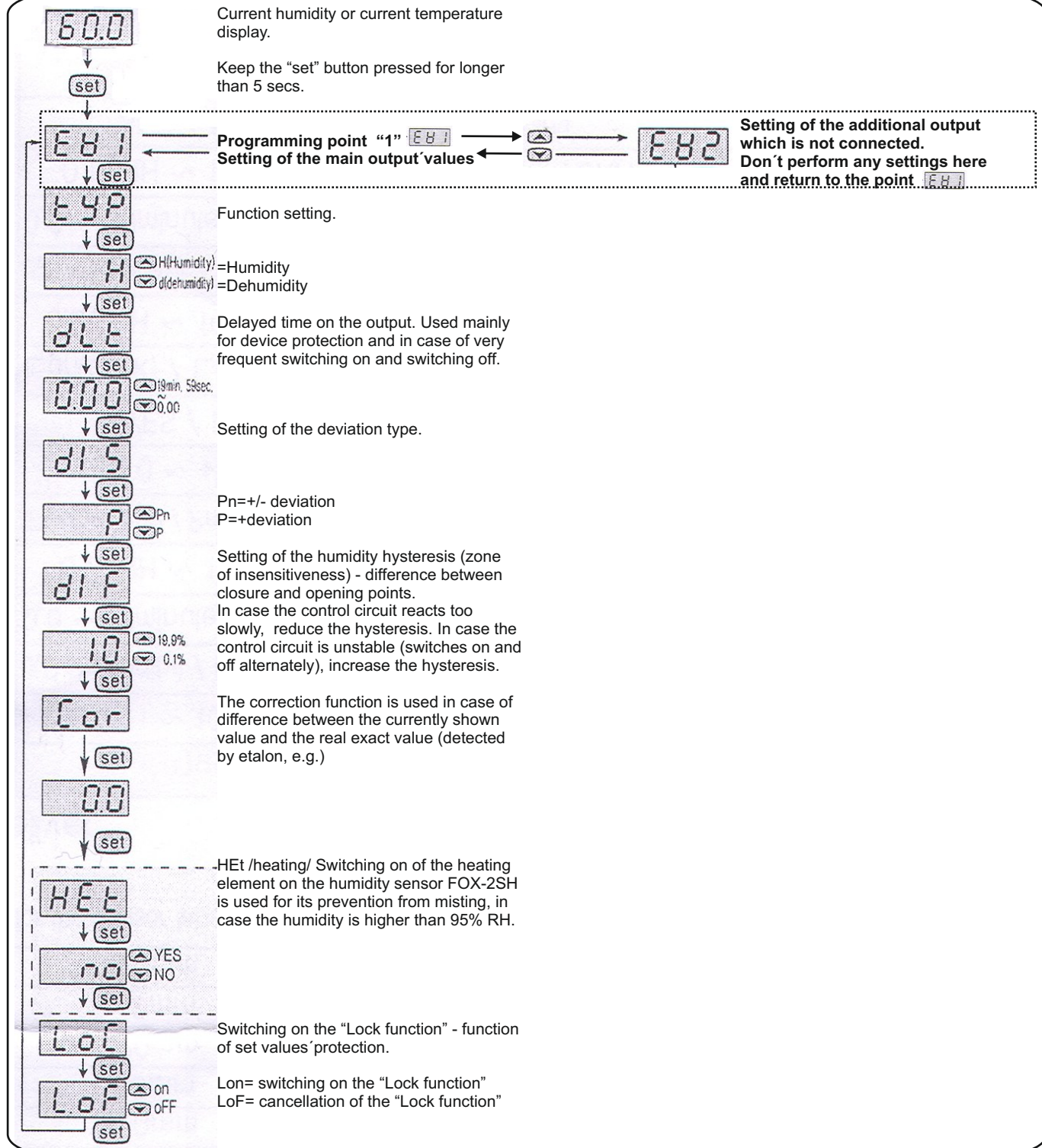
The inbuilt humidistat is located in the cover of the device. It reads the humidity of the incoming air, and depending on the set value, switches on the compressor. In indoor swimming pool halls, the optimal air humidity level should range between 55% and 65%. Decreasing the level of humidity under the above mentioned range is not desirable, considering the physiological aspects as well as the aspects of providing building protection. Moreover, it increases the consumption of electrical energy. The humidistat can be controlled by the user.



Humidistat display (front view)



Program setting



By keeping the "set" button pressed for longer than 5 secs, the setting gets finished and you return to a mode of current humidity display.

In case of inactiveness for longer than 30 secs, this is done automatically.

3.2. Humidity regulation with a back-up mechanical humidistat located in the electronic box

In the electronic box there is a back-up mechanical humidistat, which is set on the value of 70 % RH. This humidistat has a back-up function in case of digital humidistat failure. User should not perform any regulation of this humidistat.

3.3. Compressor regulation

The compressor's operation starting is for securing its protection, delayed by min. 3 minutes. Depending on the humidity of environment, it may last even longer. The user must not manipulate with the setting element of a time relay.

4. MAINTENANCE INSTRUCTIONS

It is necessary to make sure that the intake and exhaust outlets are not covered. It is forbidden to place towels or other clothes on the exhaust outlets to dry them. Cleaning of the device's cover is allowed only by using non-abradant cleaning agents. In case there is a water dripping from the equipment, please check whether a condensate pipe is not obstructed.

5. SERVICING THE UNIT

At least once a year, it is necessary to have the unit checked and cleaned by a service specialist. This is necessary in order to secure a long operational life of the device. Cleaning the interior parts of the device by a user is not recommended, as this may lead to a damage on the unit. The device contains mobile elements as well as elements under electrical pressure, therefore the interior parts can be cleaned only by a certified electrician with an appropriate knowledge of refrigerating technology.

6. INSTALLATION GUIDE

The unit must be installed in compliance with the local installation and electrical installation regulations !

6.1. Unit location

The unit is intalled on the floor. It is essential to ensure good air circulation by keeping the space free in front of equipment and at least 200 mm above it. For the purpose of maintenance, it is further necessary to allow at least 200 mm of free space on both sides of the unit.

6.2. Equipment fixation

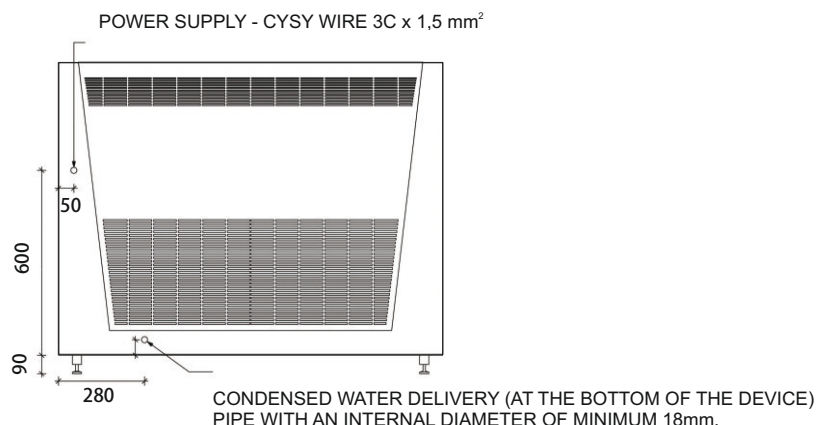
The equipment has a self-supporting construction and is very easy to install. There is an elevated adjustable stand included in the equipment accessories.

6.3. Dismounting and mounting of the cover

The cover can be disassembled by releasing of two screws located at the side parts of the device. Release the screws, pull the bottom part of the cover toward yourself and then, by lifting it shortly, rake down the cover from the rear plate. The unit installation is performed in an adverse way.

6.4. Condensate drain

Condensed water is drained from the device by the force of gravity. It is necessary to locate the device in a way that enables sufficient condensed water gradient. The condensate must be delivered through a siphon into the sewer or into the outside environment. It is strictly forbidden to deliver the condensate back into the swimming pool, as it may be bacterially contaminated. There is a tube for condensed water delivery located at the bottom of the device, on the left side. This tube must be plugged into a sewerage pipe with an internal diameter min. 18 mm.



6.5 Connecting the device to the mains

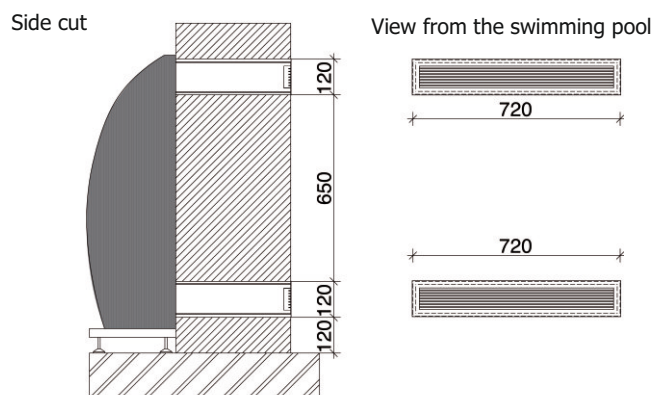
The unit's connection into the mains and its protection must meet the requirements of relevant norms. The connection requirements are the following: 220-240 V/50Hz, 16A protection secured by a current protector with a nominal differential shut-off current not exceeding 30mA. There is a terminal board for connecting the unit to the main, located on the left hand side of the device. The master switch of the device must be located outside the swimming pool hall and it must be bipolaric and with L and N conductors' disconnecting. The dehumidifier must be inbuilt to a steady point for disconnecting the appliance from the mains with a minimum 3 mm distance between the contacts for all the poles and in a switched off status.

The dehumidifier's connection to the mains must be performed only by a qualified professional.

6.6 Mounting behind the wall - to order

The dehumidifiers are simply adapted also to installation behind the wall into the adjacent room. In such case, only two grids are visible in the swimming pool area. In the configuration for installation behind the wall, conduit adapters are screwed onto the dehumidifier's backside sheet. The adapters are delivered for passage through the wall of the length of 400 mm. In the place of installation, they are shortened from the side of the swimming pool as necessary.

Flanges on the direct pieces are slipped on, so they can be cut into appropriate sizes directly in a place of assembly. Afterwards the flanges are rivetted. The set also includes sealing band and screws for flanges' connection.

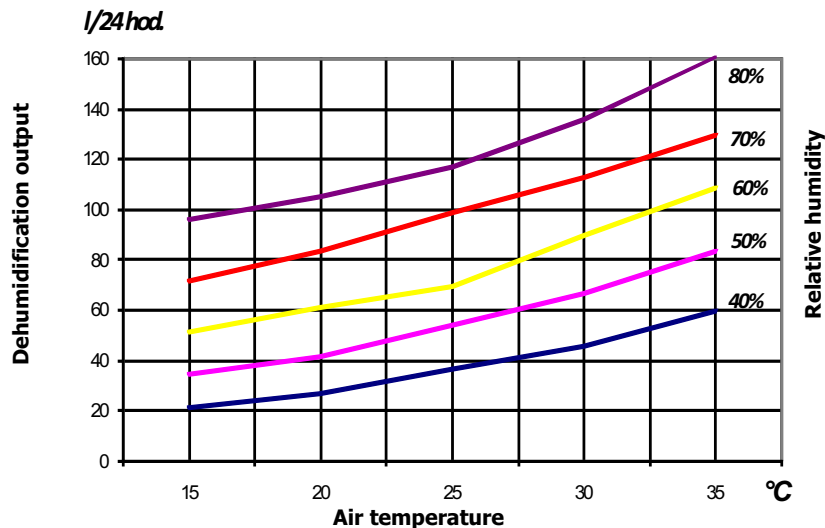


The dimensions of building slots are quoted.

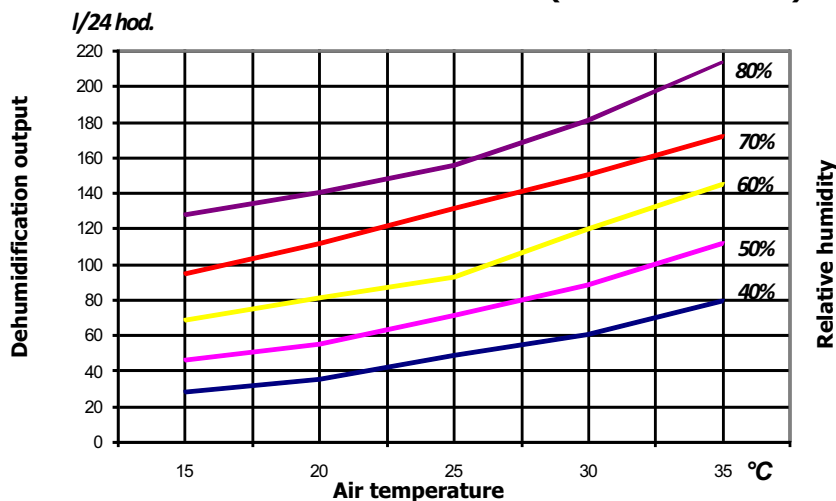
7. Technical data

TECHNICAL DATA	UNITS	DRY 800 METAL	DRY 1200 METAL
For swimming pools with max. water surface	m ²	60 - 90	90 - 120
EXTRACTION RATE AT:			
30°C and 60 % RH	l/24 h	90	120
Operating range - temperature	°C	22-35	22-35
Operating range - humidity	% Rw	20-100	20-100
Air flow	m ³ /h	740	740
Noisiness (in 1 m distance)	dB (A)	46	46
Heat input	W	5100	7200
Electrical power consumption	W	1700	2400
Voltage	V/Hz/f	230/50/1	230/50/1
Operating current / Starting current	A	8,0/50,0	12,0/60,0
Protection	A	16	16
Mechanical Protection	IP	44	44
Conductor	mm ²	CYSY 3C x 2,5	CYSY 3C x 2,5
Pipe for condensate delivery (min. interior diameter)	mm	d 18	d 18
Dimensions (width x height x depth)	mm	1250 x 950 x 310	1250 x 950 x 310
Package sizing (width x height x depth)	mm	1300 x 1020 x 370	1315 x 810 x 345
Weight - net / with package	kg	96/106	100/118
Refrigerant - R 410 A	kg	1,25	1,6

OUTPUT DIAGRAM OF DEHUMIDIFICATION (DRY 800 METAL)



OUTPUT DIAGRAM OF DEHUMIDIFICATION (DRY 1200 METAL)



8. WARRANTY CONDITIONS

The following exceptions stated by Microwell, Ltd. apply within the warranty.
No claims will be accepted if:

1. The dehumidifier is used in an incorrect way, not as described in this manual.
2. The dehumidifier is installed in an incorrect way, not as described in this manual.
3. The dehumidifier was put to operation by an unauthorized person.
4. The air flow through the dehumidifier is out of the defined borders.
5. The water flow through the dehumidifier is out of the defined borders.
6. The water's pH level and/or chemical condition is out of the defined borders:

Acidity / pH level:	pH	7,4 +/- 0,4
Total alkalinity, as CaCO ₃	ppm	80-120
Total hardness, as CaCO ₃	ppm	100-300
Total melted dry mass	ppm	max. 3000
Maximal saline content	wt/wt	6%
Free chlorine range	ppm	1,0-3,0
Superchlorination	ppm	max. 30 ppm/max. 24 hours
Bromine	ppm	2-3
Baquacil	ppm	25-50
Ozone	ppm	0,8-1,0
Maximum copper content	ppm	max. 2
Aquamatic single purifier	ppm	max. 2
Tarn clean purifier	ppm	max. 2
Sherwood purifier	ppm	max. 2

7. The dehumidifier suffered frost damage.
8. The electric tension source is insufficient or improper in any other way.

IN CASE OF ANY UNCERTAINTY YOU MAY HAVE, PLEASE FEEL FREE TO CONTACT US !

NOTE:

When applying applicable warranty, the registration card that ensures applicable warranties must be returned. In case you cannot find the registration card of your dehumidifier, please contact the Service department of Microwell, Ltd. - indicated your name, address and serial number of your dehumidifier. The registration card will be then sent to you for filling in. In case you have any service or technique related questions, please specify the model number and serial number of your dehumidifier. These information will help us in making proper diagnosing of your unit and the service can be performed with a minimum time delay.

TRANSPORT INSTRUCTIONS:

The dehumidifiers must be transported only in the original packaging and in a vertical position. Make sure that the dehumidifier cannot turn over or fall down during transportation. Do never put the dehumidifier aside! It may lead to serious **compressor damage!** No claims are accepted in case of any damage caused by transportation. When receiving the product delivered to you, please check whether the package is not damaged. If any kind of objections occurs, please make a proper documentation of them.



EC DECLARATION OF CONFORMITY
ES VYHLÁSENIE O ZHODE

To Council Directives 2006/95/EC,
2004/108/EC

Smernice Rady 2006/95/EC, 2004/108/EC

Mr.
p.

.....
Ing. Tibor Kovács
.....
(Surname, Name / Priezvisko a meno)

legal representative of
právny zástupca – konateľ

.....
MICROWELL s.r.o.
.....
(Manufacturer's Name / Názov výrobcu)

located in
sídliačeho v

.....
SNP č.2018/42, 927 01 Šaľa
.....
(Address / Adresa)

DECLARES / VYHLASUJE

that the product / že výrobok: Dehumidifier / Odvlhčovač vzduchu MICROWELL

type designation / typ: DRY 800; DRY 1200

of manufacturer / výrobcu: MICROWELL s.r.o., SNP č.2018/42, 927 01 Šaľa, SR

has been designed, manufactured and placed on the market in conformity with:

bol navrhnutý, vyrobený a umiestnený na trh v zhode s:

- the safety principles of the Low voltage Directive 73/23/EEC including amendments / bezpečnostnými zásadami Smernice o „Nízkom napätí“ 73/23/EEC (Nariadenie vlády SR č. 308/2004 Z. z.) v znení neskorších doplnkov
- the safety principles of the Machinery Directive 98/37/EC including amendments 98/79/ES / bezpečnostnými zásadami Strojnej Smernice 98/37/EC v znení smernice 98/79/ES (Nariadenie vlády SR č. 310/2004 Z. z.)
- the protection requirements of „EMC“ Directive 89/336/EEC including amendments požiadavkami Smernice o „EMC“ 89/336/EEC na ochranu, v znení neskorších doplnkov
- the safety principles of the Pressure Equipment Directive 97/23/ES including amendments / bezpečnostnými zásadami Smernice pre tlakové zariadenia 98/37/znení neskorších doplnkov (Nariadenie vlády SR č. 329/2003 Z. z. v znení nariadenia vlády č. 576/2002 Z.z.)

and that the following relevant Standards:

EN 60335-2+A1+A2+A11+A13+A14+A15
EN 60335-2-40+A1
EN 810

EN 292-1,2
EN 378-1
EN 55 014-1

a že nasledujúce príslušné normy:

STN EN 60335-2+A1+A2+A11+A13+A14+A15
STN EN 60335-2-40+A1
STN EN 810
STN 332000-7-702
STN EN 292-1,2
STN EN 378-1
STN EN 55 014-1

have been applied / boli uplatnené.

Šaľa, date: 12. 04. 2010

.....
Ing. Tibor Kovács
.....
(Signatory identification / Identifikácia signatára)

.....
MICROWELL s.r.o., SR
.....
(Manufacturer / Výrobca)

MICROWELL, Ltd.

SNP 2018/42

927 01 Šaľa, Slovakia

Phone: +421 31 7020 540-1

Fax: +421 31 7020 542

E-mail: microwell@microwell.sk

www.microwell.sk

Distributed by: