Product information UV-Disinfection system EASYDES®

Disinfecting water - without chemistry

Apart from the chemical disinfection procedure, the pure physical treatment through high-energy ultra-violet radiation (UV-light) is a recognised and effective method for disinfecting water. It is used, amongst other things, to disinfect drinking water, swimming-pools and baths water and in the food industry.

EASYDES - effective as it is functional

Damaging their genetic constitution with UV radiation can biologically inactivate micro-organisms. With a sufficient dose of radiation the UV radiation acts as a barrier. In a water piping system permeated viruses are biologically inactivated. Micro-organisms cannot build up any resistance against UV radiation. The radiation does not affect the taste, pH-value or the odor of the medium.

All seven models in the EASYDES range, constructed with the emphasis on being practical, ensure that the installation is quick and that maintenance is simple. They are characterized by their flow-rate and radiation capacity, thus they can be selected according to the operator's requirements.

How it Works

The compact devices with their sophisticated design are installed, similar to water filters, with a coaxial in and out flow in an existing piping system. With these devices it is possible to change the lamps under pressure and with minimal room.

The EASYDES complies with the requirements of the DVGW: depending on the model, the UV sensors can monitor the performance of the emitter. Impurities that build up on the lamp pipes are removed through hydraulic cleaning. It is possible to have alarm signals when there are disturbances.

The EASYDES is used both in hot and cold water circulations. There is the possibility of potential additional conditioning with further disinfecting agents through an injection point.

In order to select a UV system one requires an exact knowledge of the given water circulation, the flow rate/volume and the composition of the water and/or the desired level of disinfection. In the run-up to making your selection please get professional assistance. Our customer service is happy to assist you should you have any further questions.

In short

- Flow-rate capacity up to 3000 l/hr
- Depending on the model DVGW-compliant design
- Compact and uniaxial mounting form of the in and out flow
- Possible to change lamps with minimal space and under pressure
- Hydraulic cleaning of optical components
- Hot and cold water circulation up to 65 °C
- Possibility for additional conditioning through injection inlets

Technical data

EASYDES	1000		3000
Type of lamp	UVN16	UVI40	UVI70
Length of electric arc	230 mm	240 mm	440 mm
Wattage	16 W	35 W	70 W
UV-C-capacity	4.8 W	12.5 W	20 W
Start-up time	6…8 min	8…10 min	8…10 min
Sterilisation performance	dependent on: • the SSK*-value • the germ loading and • the limiting values/ regulations		
TWVO** Escherichia Coli SSK* 0,7	2.92 m³/hr	7.61 m³/hr	12.17 m³/hr
TWVO** Escherichia Coli SSK* 3,5	2.17 m³/hr	5.66 m³/hr	9.05 m³/hr
DVGW*** Bazilus subtilis sporides SSK* 0,7	0.66 m³/hr	1.71 m³/hr	2.74 m³/hr
DVGW*** Bazilus subtilis sporides SSK* 3,5	0.49 m³/hr	1.27 m³/hr	2.03 m³/hr
Operating pressure	10 bar	10 bar	10 bar
Emitter-operating hours	8000 hr	8000 hr	8000 hr

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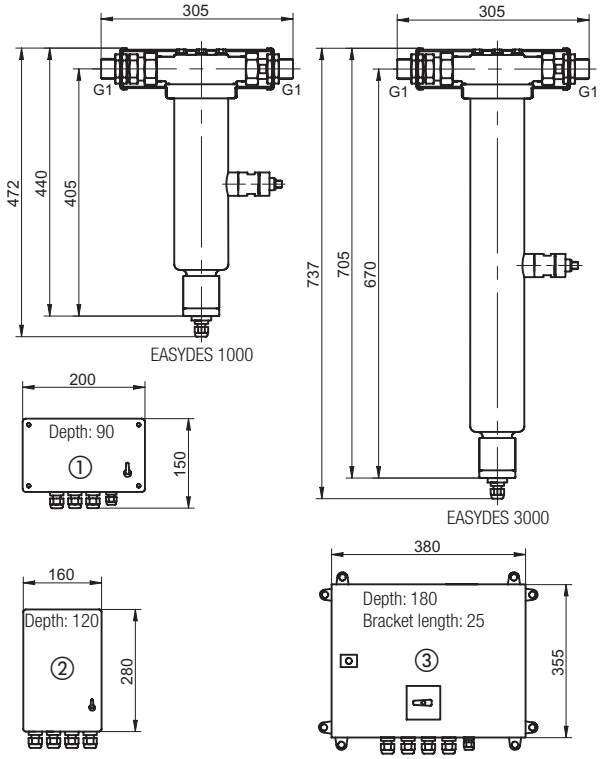
Model variants

Product name	Feature	Wattage	Flow-rate* with the same sterilization capacity	Control	Order-No.
EASYDES 1000		16 W	approx. 1000 l/hr	switch box	64000038
EASYDES 1000	UV-control	16 W	approx. 1000 l/hr	switch box	64000039
EASYDES 1000	UV-control, DVGW compliant	16 W	approx. 1000 l/hr	switch box	64000040
EASYDES 1000	UV-control and UVI40, DVGW compliant	35 W	> 1000 l/hr	switch cabinet	64000041
EASYDES 3000		70 W	approx. 3000 l/hr	switch cabinet	64000046
EASYDES 3000	UV-control	70 W	approx. 3000 l/hr	switch cabinet	64000047
EASYDES 3000	UV-control, DVGW compliant	70 W	approx. 3000 l/hr	switch cabinet	64000048

*) Average flow-rate value during germ loading „Bazillus Subtilis Sporides“ and UV-loss (5% through dirty glass, 20...25% through deteriorating emitter and 5% through SSK-water value 0.7)

Dimensional figure



All measurements are given in mm

① Control of EASYDES 1000
② Control of EASYDES 1000 UV-control
EASYDES 1000 UV-control, DVGW compliant
③ Control of EASYDES 1000 and UVI40, DVGW compliant
EASYDES 3000 (all models)

Scope of Delivery

The following are included in the scope of delivery of the device:

- Reactor casing with immersed tubing system
- Wall bracket
- Switch box/ switch cabinet with control and with 2.5 m cable
- UV-C-emitter
- UV-C-sensor (depending on the model)

The following are optional:

- Sampling plug valves, flammable
- Installation set, DVGW compliant
- Stop valves for cleaning cycle
- Water filter

Accessories

In addition to the actual system, the following accessories are available for the assembly and operation:

Description	Order no.
Assembly kit (DVGW compliant)	64000045
Solenoid valve 230 V 50 Hz G1 for the DVGW compliant, automatic cut-off in case of a power cut, breakdown or the radiator‘s reduced UV-capacity	88477
High grade steel insertion point 1/4“ for direct insertion at the head of the EASYDES	12300060
Hook spanner	38332
30 mm bottle brush for cleaning	38145
50 mm bottle brush for cleaning	38144
Cleaning fluid for the UV-system (5 l)	64000055

*) SSK: Spectral attenuation coefficient) of water with a specific wave length

**) TWVO: Drinking water regulation

***) DVGW: German Technical and Scientific Association for Gas and Water. The requirements of the UV systems are described in the regulation DVGW-datasheet W294.

EASYDES® is a registered trademark of Lutz-Jesco GmbH, Wedemark.

Lutz-Jesco GmbH
PO Box 10 01 64
30891 Wedemark
Phone: +49 5130 5802-0
Fax: +49 5130 580268
E-mail: info@lutz-jesco.de
Internet: www.lutz-jesco.de
24h-Hotline:
+49 5130 580280

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