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## SONOREX TECHNOLOGY VORTEX WR 4-1604.02 VORTEX REACTOR, 1600 W, 40 KHZ



The defined flow of the liquid medium to be sonicated through a double slit in the BANDELIN vortex reactor guarantees homogeneous sonication on the particularly cavitation-intensive inner surface of the reactor tube and in the intensive sound field in the area of the double slit. An additional swirling of the medium to be sonicated as it enters the reactor tube further improves homogenisation.

The vortex reactor is used for the following applications:

- Intensification of industrial, biotechnological and chemical processes in suspension, emulsification, deagglomeration, reaction acceleration, degassing
- Intensive degassing of dye and photographic casting solutions
- CO<sub>2</sub> degassing from aqueous reactants
- Support of disinfection (bacteria killing) in water and waste water treatment
- Sterilisation of organic ingredients in industrial rinsing liquids for reuse
- Support for the disinfection of germ- and parasite-contaminated fish farm circuit water
- Manufacture of ultra-fine polishing pastes for the wafer industry
- Homogenising colour pigments in oil (paint production)

ORDER NUMBER

835202

INSTALLATION LENGTH [CM]

856

FLOW RATE [L/H]

1–50

MAX. PERM. PRESSURE [BAR]

10

NOMINAL ULTRASONIC POWER [W]

1600

POWER SETTING

20-100

ULTRASOUND FREQUENCY [KHZ]

40

OPERATING VOLTAGE [V]

230 V EU plug

OUTER DIMENSION LENGTH [MM]

290

OUTER DIMENSION WIDTH [MM]

290

OUTER DIMENSION HEIGHT [MM]

642

|                              |       |
|------------------------------|-------|
| DEGREE OF PROTECTION HOUSING | IP 22 |
| PACKING LENGTH [MM]          | 0     |
| PACKING WIDTH [MM]           | 0     |
| PACKING DEPTH [MM]           | 0     |

## SONOREX TECHNOLOGY VORTEX WR 4-1604.01

### *VORTEX REACTOR, 1600 W, 40 KHZ*

The defined flow of the liquid medium to be sonicated through a double slit in the BANDELIN vortex reactor guarantees homogeneous sonication on the particularly cavitation-intensive inner surface of the reactor tube and in the intensive sound field in the area of the double slit. An additional swirling of the medium to be sonicated as it enters the reactor tube further improves homogenisation.

The vortex reactor is used for the following applications:

- Intensification of industrial, biotechnological and chemical processes in suspension, emulsification, deagglomeration, reaction acceleration, degassing
- Intensive degassing of dye and photographic casting solutions
- CO2 degassing from aqueous reactants
- Support of disinfection (bacteria killing) in water and waste water treatment
- Sterilisation of organic ingredients in industrial rinsing liquids for reuse
- Support for the disinfection of germ- and parasite-contaminated fish farm circuit water
- Manufacture of ultra-fine polishing pastes for the wafer industry
- Homogenising colour pigments in oil (paint production)

|                              |               |
|------------------------------|---------------|
| ORDER NUMBER                 | 835201        |
| INSTALLATION LENGTH [CM]     | 856           |
| FLOW RATE [L/H]              | 1–50          |
| MAX. PERM. PRESSURE [BAR]    | 10            |
| NOMINAL ULTRASONIC POWER [W] | 1600          |
| POWER SETTING                | 20-100        |
| ULTRASOUND FREQUENCY [KHZ]   | 40            |
| OPERATING VOLTAGE [V]        | 230 V EU plug |
| OUTER DIMENSION LENGTH [MM]  | 290           |
| OUTER DIMENSION WIDTH [MM]   | 290           |
| OUTER DIMENSION HEIGHT [MM]  | 642           |
| DEGREE OF PROTECTION HOUSING | IP 22         |
| PACKING LENGTH [MM]          | 0             |
| PACKING WIDTH [MM]           | 0             |
| PACKING DEPTH [MM]           | 0             |

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