



UV Disinfection Systems BX Series

Main Applications:
Drinking Water, Process Water,
Warm Water, Rinsing Water

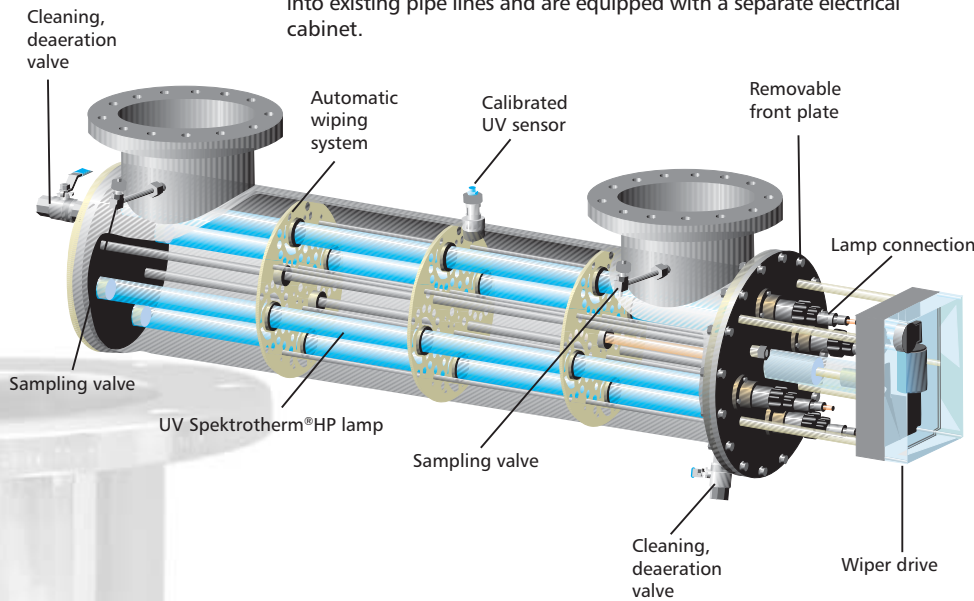
UV Disinfection Systems – BX Series

Applications

- Drinking water
- Process water
- Warm water
- Rinsing water

Design

The reactors of the UV disinfection series BX are equipped with low pressure / high intensity UV lamps, which are arranged parallel to the water flow inside the reaction chamber. From model BX 80 onwards the most powerful Spekthrotherm®HP lamps are applied. A special baffle plate design creates turbulence which allows the system to achieve high disinfection levels. These UV systems can either be mounted horizontally or vertically into existing pipe lines and are equipped with a separate electrical cabinet.



ADVANTAGES

- Excellent and reliable disinfection capacity with low energy consumption
- High UV-C output of the lamps allows for a small number of lamps relative to the overall flow capacity
- Spekthrotherm® low pressure / high intensity UV lamps have excellent temperature stability
- UV monitoring and control by a highly selective, calibrated UV sensor
- Long lamp life expectancy
- Optional automatic dose control system (Vario) from BX 80 onwards
- Optional automatic quartz sleeve wiping system available
- Simple operation and easy maintenance

Technical data

Type	Flow rate approx.* (m ³ /h)	Flange connection	Power consumption (kW)	Reactor dimensions W x H x D (mm)
BX 20	27	DN 80	0.23	260 x 930 x 330
BX 30	41	DN 80	0.34	275 x 930 x 348
BX 50	57	DN 100	0.47	365 x 1,000 x 443
BX 80	112	DN 150	0.8	275 x 1,530 x 368
BX 100	167	DN 150	0.8	365 x 1,535 x 458
BX 200	298	DN 200	1.5	365 x 1,535 x 458
BX 280	435	DN 250	1.5	470 x 1,535 x 565
BX 400	530	DN 250	2.2	470 x 1,535 x 565
BX 650	850	DN 300	3.0	600 x 1,540 x 700
BX 900	1,037	DN 350	3.7	700 x 1,540 x 800
BX 1200	1,039	DN 350	4.5	770 x 2,400 x 825
BX 1800	1,357	DN 400	6.7	730 x 2,400 x 925
BX 2400	2,120	DN 500	8.8	930 x 2,400 x 1,265
BX 3200	2,120	DN 500	11.6	1,060 x 2,400 x 1,380

* UV dose = 400 J/m² at the end of lamp lifetime; estimated UV transmittance = 98 % per 1 cm. Spekthrotherm® lamps in model BX 50. Spekthrotherm®-HP lamps in models from BX 80 and larger. All specifications are subject to change without notice.