UV-C Master Blaster

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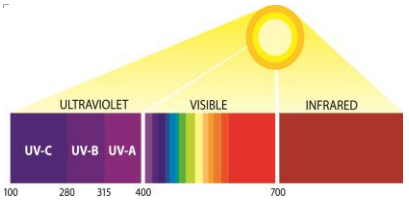
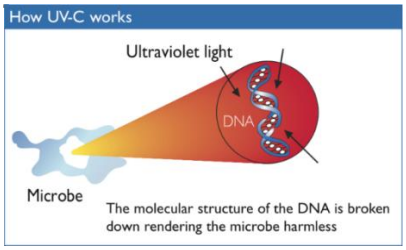
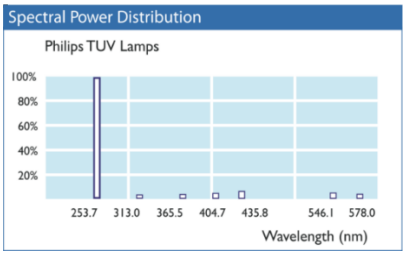
PRINCIPLE

Inside the UV-C Master Blaster, a UV-C radiation with a wavelength of 253.7 nm is generated, ensuring a lethal effect on bacteria (including Cryptosporidium and Legionella bacteria) and other micro-organisms like viruses, algae, yeast and mould. The UV-C radiation neutralizes bacteria, viruses and other primitive organisms and stops them from multiplying.







MAIN APPLICATION

- Deactivation of bacteria, viruses and other micro-organisms
- Municipal drinking water treatment equipment
- Municipal waste water treatment equipment
- Process water treatment equipment
- Swimming pool units
- Aquaculture units
- Agriculture units
- Equipment for the production of ultra-pure water, for example for the semiconductor, pharmaceuticals and cosmetics industries.

CHARACTERISTICS

- HDPE reactor
- Variable design and dimensions on request
- 316L Stainless steel lamp connections
- Flanged connection
- 100% draining
- High performance amalgam low pressure UV lamp 325W each
- Electronic ballasts
- Lamp operating indicator light, lamp alarm indicator light and alarm contact
- Digital lifespan indicator for UV-C lamp
  UV sensor at 254 nm

ADVANTAGES

- High quality of manufacture and high disinfecting performance
- Use of amalgam low pressure lamps to achieve required performance levels irrespective of the temperature of the water (particularly cold water)
- Dedicated electronic ballasts guaranteeing maximum lamp UV efficiency and integrated control

VGE
UV-C AND FILTER EQUIPMENT
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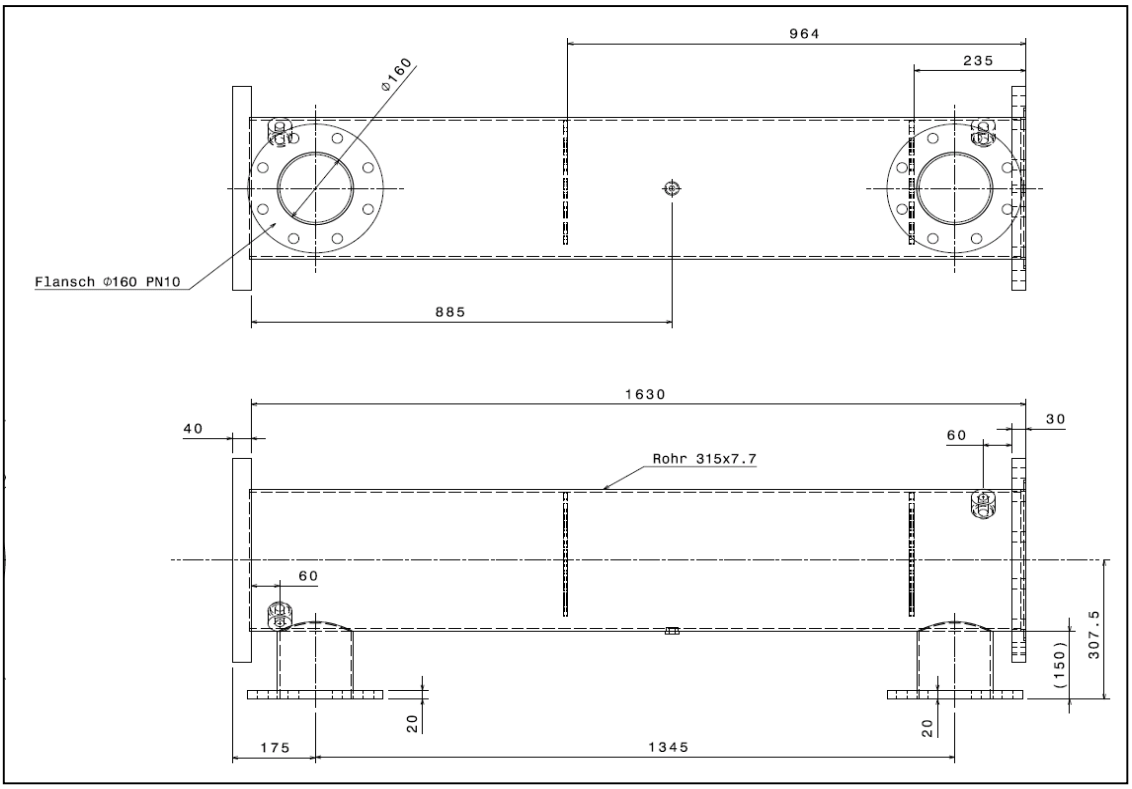
FEATURES
UV Control Unit ZCON mini

- Out-of-the-box control unit
  - UV-C monitoring
- Status indication:
  - Multicolour LCD
  - Green, red and yellow LEDs
- Status forwarding / remote operation:
  - Remote start input
  - 4-20mA signal input (e.g. flow meter or dimming using analogue PLC)
  - 4-20mA signal output (e.g. UV or Dim value forwarding to PLC)
  - 3 switching outputs (status indication or remote switching)

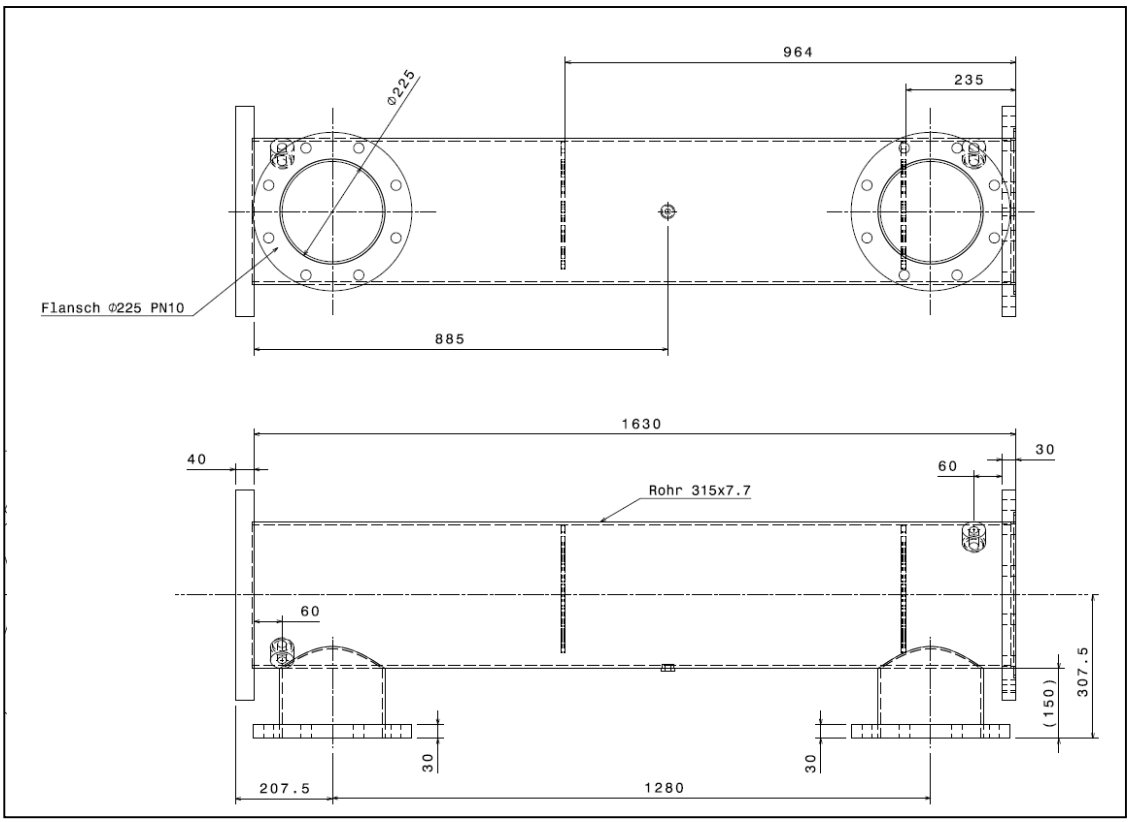
Installation data	
Supply voltage:	100...240V AC 50-60Hz
Ambient temperature:	0 - 40°C (32 - 104°F)
IP code:	IP00 (IP54 at front with optional front panel)
Mounting:	to be installed in a closed cabinet
Dimensions (LxWxD) :	130 x 130 x 50 mm (5,12 x 5,12 x 1,96 inch) with optional front panel: 200 x 200 x 50 mm (7,87 x 7,87 x 1,96 inch)

Item No.	Max. Flow rate in M^3/h	Connection DN	Connection mm	Performance in millijoules/cm^2 at actual recommended flow rates	UV-Clamp: Number power consumption	Height of reactor in mm	Diameter of reactor in mm
XP0733252	150	150	160	44	3x 325W	1630	315 x 7.7
XP0763252	250	200	225	50	6x 325W	1630	315 x 7.7

Contact us for other flow rates



MB3X325



MB6x325

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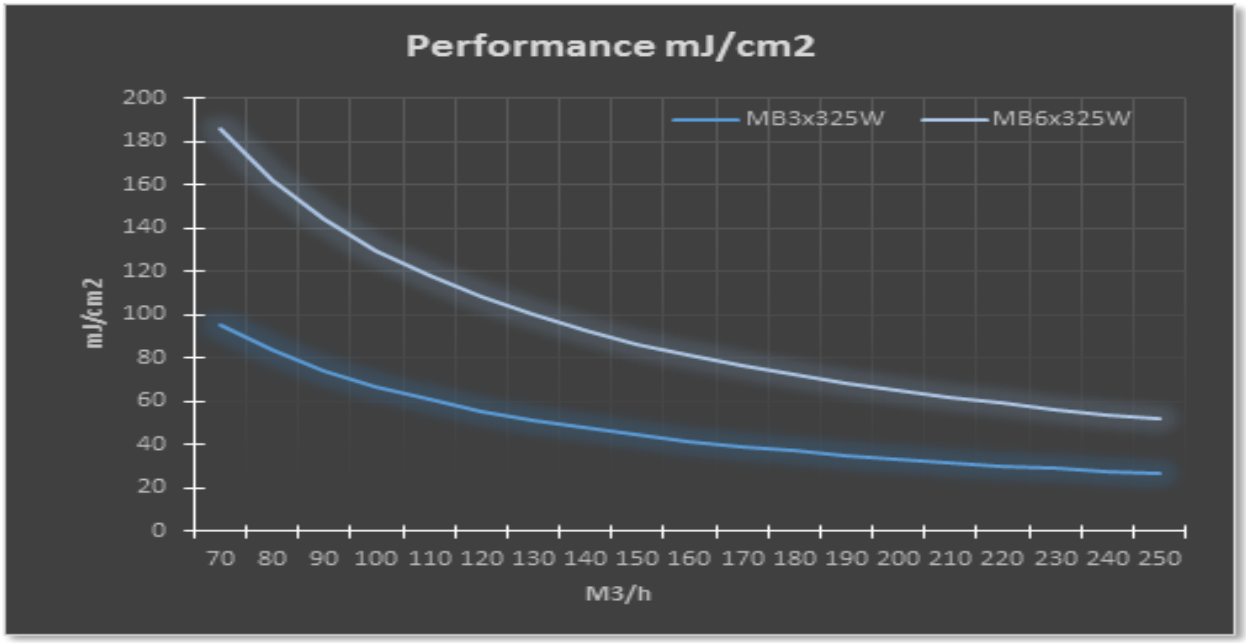
PERFORMANCE

Item No.	Connection mm	Water speed connections in m/sec	Water speed in reactor in m/sec	L/min	M3/h	mJ/cm2	Exposure time in sec
MB3X325	160	0,99	0,28	1167	70	100,76	5,38
MB3X325	160	1,13	0,32	1333	80	88,17	4,71
MB3X325	160	1,27	0,36	1500	90	78,37	4,19
MB3X325	160	1,42	0,4	1667	100	70,53	3,77
MB3X325	160	1,56	0,44	1833	110	64,12	3,43
MB3X325	160	1,7	0,48	2000	120	58,78	3,14
MB3X325	160	1,84	0,52	2167	130	54,26	2,90
MB3X325	160	1,98	0,56	2333	140	50,38	2,69
MB3X325	160	2,12	0,6	2500	150	47,02	2,51
MB6X325	225	0,91	0,66	2667	160	81,41	2,24
MB6X325	225	1,02	0,7	2833	170	76,44	2,11
MB6X325	225	1,08	0,74	3000	180	72,19	1,99
MB6X325	225	1,08	0,78	3167	190	68,39	1,89
MB6X325	225	1,13	0,83	3333	200	64,97	1,79
MB6X325	225	1,19	0,87	3500	210	61,88	1,71
MB6X325	225	1,24	0,91	3667	220	59,06	1,63
MB6X325	225	1,3	0,95	3833	230	56,5	1,56
MB6X325	225	1,36	0,99	4000	240	54,14	1,50
MB6X325	225	1,41	1,03	4167	250	51,98	1,44

Note: This is a calculation, not a scientific measurement. No rights can be claimed to these calculations. Calculation is based on 98% water transmission based at lamp output at end of life . For a flow rate above the 150M3/h in combination with model MB3X325 the connection diameter will become 225mm.



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