

# LUXON AZUD

## LDB

Automatic electric screen filters suitable for all applications, and available in a wide range of micron sizes, all with the same high quality guarantee of AZUD.



## ADVANTAGES

- ✓ **Energy Efficient:** The consumption of water in the flushing cycle is minimal.
- ✓ **Wide selection of screens:** Screens available from 10 to 1000 micron (INOX), 80 to 1000 micron (PVC).
- ✓ **Versatility:** Inlet/Outlet from 2" to 20" // 50 to 500 mm.
- ✓ **Resistance:** Temperature to 60°C (140° F).
- ✓ **Large screen area:** Up to 21300 cm<sup>2</sup> (3300 in<sup>2</sup>).
- ✓ **Resistant material:** The screen is made in stainless steel of high quality resistant to corrosion.
- ✓ **Time saving:** The filtration process and the flushing cycle occur simultaneously.
- ✓ **Easy installation:** The filters are delivered to be installed.

There are solutions available for working with pressures higher than 1 bar / 145 psi or saline water. Control unit is included.

## TECHNOLOGY

**AZUD LUXON filters continue to supply filtered water without interruption during the flushing cycle.**

The water flows through the inlet (1) and enters the inside of the filter element.

The water then passes through the screen (2), and the particles are retained on the inside of the filter element (screen). The filtered water then flows out through the outlet (3).

When the pressure differential from inlet

to outlet of the filter reaches the pre-selected level the flushing cycle starts ( $\Delta P$ ). A hydraulic valve opens in the drain port, which initiates suction in the inner nozzles (4). This, along with the helical movement up and down the screen sucks the captured particles into the waste flow, and this is expelled out the drain port. (5)

The length of the flush cycle is pre-determined by the control unit. When the cycle is complete the flush valve closes and the flushing ends. The flushing process uses a minimal amount of water.



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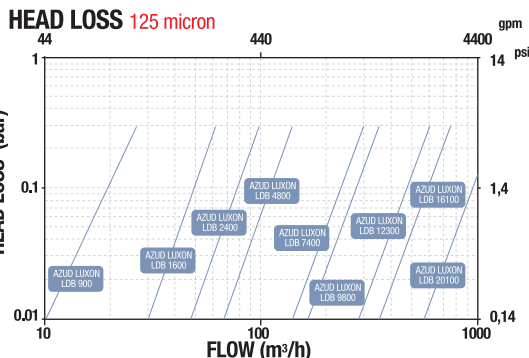
### MATERIAL

<b>Housing of the filter</b>	Carbon steel epoxy-polyester coated (S-235-JR EPOXY-POLYESTER coated)
<b>Filtering element</b>	Stainless Steel AISI-316-L, INOX or PVC Structure
<b>Scanner</b>	Stainless Steel-304
<b>Sealing elements</b>	NBR
<b>Drainage Valve</b>	Polypropilene

Flushing control unit included 220 V AC, 380V AC available.  
**Max. Pressure** 10 bar / 145 psi • **Min. pressure** 2 bar / 29 psi  
**Max. temperature** 60°C / 140 F • **Operation Voltage** 220 V single-phase  
 1/4 CV Motor (220 V), Power consumption 0.72 A

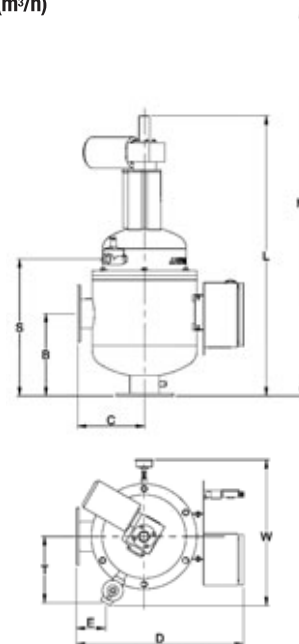
Model	Support of screen	DN CONNECTION				Filtering Surface	
		Inlet - Outlet Flange		Drainage Female - Thread		cm <sup>2</sup>	in <sup>2</sup>
		"	mm	"	mm		
AZUD LUXON LDB 900/2	PVC	2"	50	1"	32	910	140
AZUD LUXON LDB 1600/3	PVC	3"	80	1"	32	1600	250
AZUD LUXON LDB 2400/4	PVC	4"	100	1"	32	2400	370
AZUD LUXON LDB 4800/6	PVC	6"	150	1"	32	4800	745
AZUD LUXON LDB 7400/8	PVC	8"	200	2"	63	7350	1140
AZUD LUXON LDB 9800/8	PVC	8"	200	2"	63	9800	1520
AZUD LUXON LDB 12300/10	PVC	10"	250	2"	63	12250	1900
AZUD LUXON LDB 16100/10	PVC	10"	250	2"	63	16100	2495
AZUD LUXON LDB 20100/12	PVC	12"	300	2"	63	20100	3115
AZUD LUXON LDB 1000 S/3	INOX	3"	80	1"	32	1000	155
AZUD LUXON LDB 1800 S/3	INOX	3"	80	1"	32	1760	275
AZUD LUXON LDB 2700 S/4	INOX	4"	100	1"	32	2650	410
AZUD LUXON LDB 5400 S/6	INOX	6"	150	1"	32	5380	835
AZUD LUXON LDB 5400 S/8	INOX	8"	200	1"	32	5380	835
AZUD LUXON LDB 8000 S/8	INOX	8"	200	2"	63	8000	1240
AZUD LUXON LDB 10600 S/10	INOX	8"	200	2"	63	10600	1645
AZUD LUXON LDB 13200 S/12	INOX	12"	300	2"	63	13210	2050
AZUD LUXON LDB 16500 S/12	INOX	12"	300	2"	63	16500	2560
AZUD LUXON LDB 16500 S/14	INOX	14"	350	2"	63	16500	2560
AZUD LUXON LDB 21300 S/14	INOX	14"	350	2"	63	21300	3300
AZUD LUXON LDB 21300 S/16	INOX	16"	400	2"	63	21300	3300

All models are with flange connections. DIN 2576 • Ask for the rest of configurations in [www.azud.com](http://www.azud.com).



Model	Support of screen	CONNECTION		FILTRATION			FLUSHING CYCLE					
		Inlet - Outlet Flange		Filtering Surface	Max flow	Flow rate		Time	Volume			
		"	mm			cm <sup>2</sup>	in <sup>2</sup>		m <sup>3</sup> /h	gpm	l/s	gpm
AZUD LUXON LDB 900/2	PVC	2"	50	910	140	25	110	8	11	8	5.0	1.3
AZUD LUXON LDB 1600/3	PVC	3"	80	1600	250	50	220	15	16	15	16.4	4.3
AZUD LUXON LDB 2400/4	PVC	4"	100	2400	370	80	350	18	16	18	18.5	4.9
AZUD LUXON LDB 4800/6	PVC	6"	150	4800	745	150	660	20	40	20	53.0	14.0
AZUD LUXON LDB 7400/8	PVC	8"	200	7350	1140	240	1055	4.4	70	25	108	28.5
AZUD LUXON LDB 9800/8	PVC	8"	200	9800	1520	300	1320	5.8	92	25	144	38.0
AZUD LUXON LDB 12300/10	PVC	10"	250	12250	1900	400	1760	7.2	114	25	180	47.6
AZUD LUXON LDB 16100/10	PVC	10"	250	16100	2495	500	2200	5.8	92	25	144	38.0
AZUD LUXON LDB 20100/12	PVC	12"	300	20100	3115	600	2640	7.2	114	25	180	47.6
AZUD LUXON LDB 1000 S/3	INOX	3"	80	1000	155	35	155	0.7	11	8	5.0	1.3
AZUD LUXON LDB 1800 S/3	INOX	3"	80	1760	275	50	220	1.0	16	15	16.4	4.3
AZUD LUXON LDB 2700 S/4	INOX	4"	100	2650	410	80	350	1.0	16	18	18.5	4.9
AZUD LUXON LDB 5400 S/6	INOX	6"	150	5380	835	150	660	2.5	40	20	53.0	14.0
AZUD LUXON LDB 5400 S/8	INOX	8"	200	5380	835	250	1100	2.5	40	20	53.0	14.0
AZUD LUXON LDB 8000 S/8	INOX	8"	200	8000	1240	300	1320	4.4	70	25	108	28.5
AZUD LUXON LDB 10600 S/10	INOX	8"	200	10600	1645	450	1980	5.8	92	25	144	38.0
AZUD LUXON LDB 13200 S/12	INOX	12"	300	13210	2050	600	2640	7.2	114	25	180	47.6
AZUD LUXON LDB 16500 S/12	INOX	12"	300	16500	2560	600	2640	5.8	92	25	144	38.0
AZUD LUXON LDB 16500 S/14	INOX	14"	350	16500	2560	700	3080	5.8	92	25	144	38.0
AZUD LUXON LDB 21300 S/14	INOX	14"	350	21300	3300	800	3520	7.2	114	25	180	47.6
AZUD LUXON LDB 21300 S/16	INOX	16"	400	21300	3300	900	3960	7.2	114	25	180	47.6

The flow rate given by filter conditions the frequency of the flushing activation • Maximum recommended flow rate: 125 micron and water good quality.  
 Min. flushing pressure: 2 bar / 29 psi in outlet manifold • Ask for other filtration grades.



Model	DIMENSIONS														WEIGHT							
	L		W		D		B		S		C		E		T		M		Full filter Weight		Empty filter Weight	
	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	mm	"	kg	lb	kg	lb
AZUD LUXON LDB 900/2	900	35	522	21	574	23	220	9	352	14	220	9	71	3	258	10	1150	45	103	227	40	88
AZUD LUXON LDB 1600/3	970	38	522	21	574	23	250	10	427	17	220	9	71	3	258	10	1250	49	121	267	45	99
AZUD LUXON LDB 2400/4	1090	43	565	22	645	25	320	13	532	21	260	10	112	4	256	10	1350	53	190	419	60	132
AZUD LUXON LDB 4800/6	1365	54	565	22	645	25	470	19	807	32	260	10	112	4	256	10	1620	64	283	624	86	190
AZUD LUXON LDB 7400/8	2045	81	740	29	825	32	600	24	1176	46	350	14	350	14	408	16	2620	103	795	1752	270	595
AZUD LUXON LDB 9800/8	2320	91	715	28	825	32	900	35	1451	57	350	14	350	14	408	16	2900	114	953	2101	308	679
AZUD LUXON LDB 12300/10	2590	102	715	28	825	32	900	35	1722	68	350	14	350	14	408	16	3440	135	1096	2417	334	736
AZUD LUXON LDB 16100/10	2335	92	865	34	975	38	900	35	1478	58	400	16	400	16	408	16	3000	118	1323	2917	460	1014
AZUD LUXON LDB 20100/12	2620	103	865	34	975	38	930	37	1760	69	400	16	400	16	408	16	3455	136	1546	3409	521	1149
AZUD LUXON LDB 1000 S/3	900	35	522	21	574	23	220	9	352	14	220	9	71	3	258	10	1150	45	116	256	52	115
AZUD LUXON LDB 1800 S/3	970	38	522	21	574	23	250	10	427	17	220	9	71	3	258	10	1250	49	131	288	54	119
AZUD LUXON LDB 2700 S/4	1090	43	565	22	645	25	320	13	532	21	260	10	112	4	256	10	1250	49	207	456	75	165
AZUD LUXON LDB 5400 S/6	1365	54	565	22	645	25	470	19	807	32	260	10	112	4	256	10	1620	64	292	644	94	207
AZUD LUXON LDB 5400 S/8	1365	54	565	22	645	25	470	19	807	32	260	10	112	4	256	10	1620	64	523	1153	304	670
AZUD LUXON LDB 8000 S/8	2045	81	740	29	825	32	600	24	1176	46	350	14	350	14	408	16	2620	103	891	1963	357	787
AZUD LUXON LDB 10600 S/10	2320	91	715	28	825	32	900	35	1451	57	350	14	350	14	408	16	2900	114	1022	2254	371	818
AZUD LUXON LDB 13200 S/12	2590	102	715	28	825	32	900	35	1722	68	350	14	350	14	408	16	3440	135	1179	2599	409	902
AZUD LUXON LDB 16500 S/12	2335	92	865	34	975	38	900	35	1478	58	400	16	400	16	408	16	3000	118	1422	3135	550	1213
AZUD LUXON LDB 16500 S/14	2335	92	865	34	975	38	900	35	1478	58	400	16	400	16	408	16	3000	118	1427	3145	554	1221
AZUD LUXON LDB 21300 S/14	2620	103	865	34	975	38	930	37	1760	69	400	16	400	16	408	16	3455	136	1690	3726	652	1437
AZUD LUXON LDB 21300 S/16	2620	103	865	34	975	38	930	37	1760	69	400	16	400	16	408	16	3455	136	1712	3775	672	1482

M=Minimal recommended distance for maintenance operations.