

ON-LINE SYSTEM CLEANING

with the LAKOS separator

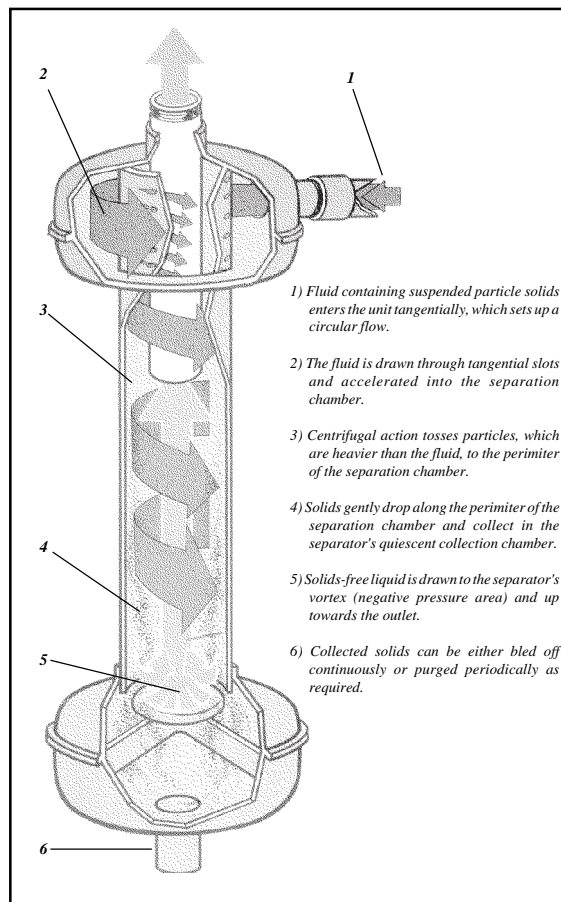
For many applications the LAKOS separator represents the ideal way for removing heavier than water particles from a recirculating system.

BENEFITS

- Extremely effective particle removal down to 40 microns
- No moving parts to wear out
- No filter medium, screens, cartridges, cones or other elements to clean or replace
- No back-flushing - minimal water waste
- No downtime requirements
- Low pressure loss
- Lightweight, compact and low cost
- Available in two standard materials of construction

OPTIONAL FEATURES

- Manual dump valve
- Automatic timed dump valve
- Skid mounted portable rigs
- Circulation pump
- Quickfit connection hoses
- Can be incorporated into COOLPLEX controller for cooling towers
- Short-term hire option available



The LAKOS separator

APPLICATIONS

1) Renovation cleaning of closed heating and chilled water systems with CORROSPERSE 84.

When used in conjunction with CORROSPERSE 84 it ensures the removal of dispersed metal oxides and minimises the flushing required. Skid mounted rigs are available for hire enabling a system to be restored to efficient operation whilst on-line.

2) Continuous polishing of closed systems.

A LAKOS separator can safely be left on-line as a permanent side-stream filter in a system to ensure against the fouling of close tolerance control valves.

3) Side-stream filtration for cooling towers.

Cooling towers are extremely efficient air washers and are constantly being contaminated by airborne particles. These can build up to impair heat transfer or provide a breeding ground for bacteria. A LAKOS separator can be installed either in a side-stream or ideally in a separate pumped circuit across the tower pond and can be incorporated into a COOLPLEX packaged dosage and bleedoff control system.



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General Specifications

MODEL	FLOW RANGE		INLET/OUTLET Male BSP	WEIGHT		WEIGHT WITH WATER	
	U.S.gpm	cu.m/hr		lbs	kg	lbs	kg
IL-0037-B	3-6	0.7-1.5	3/8"	12	5.4	19	8.6
IL-0037-S				11	5.0	18	8.2
IL-0050-B	4-10	1.0-2.5	1/2"	12	5.4	20	9.1
IL-0050-S				11	5.0	19	8.6
IL-0075-B	10-20	2.5-4.5	3/4"	15	6.8	25	11.3
IL-0075-S				14	6.4	24	10.9
IL-0100-B	19-32	4.5-7.5	1"	25	11.3	38	17.2
IL-0100-S				24	10.9	36	16.3
IL-0125-B	28-48	6.5-11.0	1 1/4"	25	11.3	38	17.2
IL-0125-S				24	10.9	36	16.3
IL-0150-B	45-70	10.0-16.0	1 1/2"	25	11.3	40	18.1
IL-0150-S				24	10.9	36	16.3
IL-0200-B	65-108	14.5-24.5	2"	48	21.8	98	44.4
IL-0200-S				45	20.4	93	42.2
IL-0250-B	95-155	21.5-35.0	2 1/2"	55	24.9	109	49.4
IL-0250-S				52	23.6	102	46.3
IL-0300-B	148-290	33.5-66.0	3"	108	49.0	184	83.5
IL-0300-S				105	47.6	181	82.1

Maximum Pressure Rating: 150psi
 Pressure Loss Range: 5-12psi
 Purge Size (all models): 3/4" B.S.P.

Maximum Particle Size:

IL-0150-B/S	3/8"
IL-0200-B/S	
IL-0250-B/S	
IL-0300-B/S	

All other models: 1/4"

Collection Chamber Capacities:

IL-0200-B/S: 0.8 US gallon
 IL-0250-B/S: 1.25 US gallon
 IL-0300-B/S: 2.2 US gallon

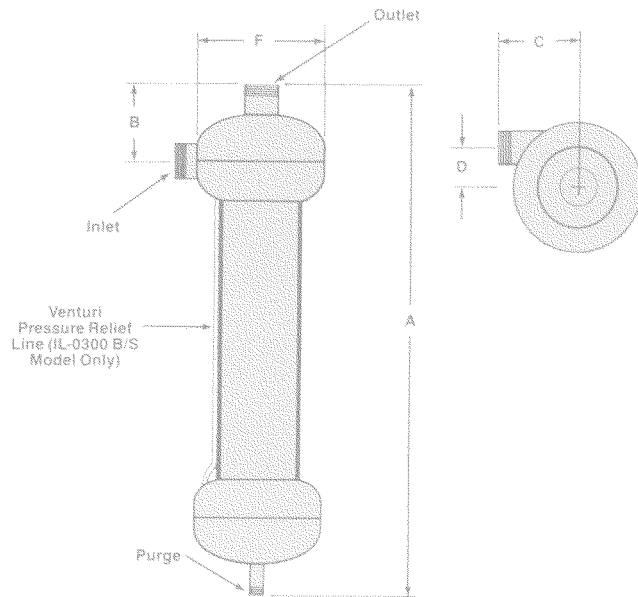
All other models: 0.3 US gallon

NOTE: Models ending with the letter "B" are carbon steel.
 Those ending with "S" are stainless steel.

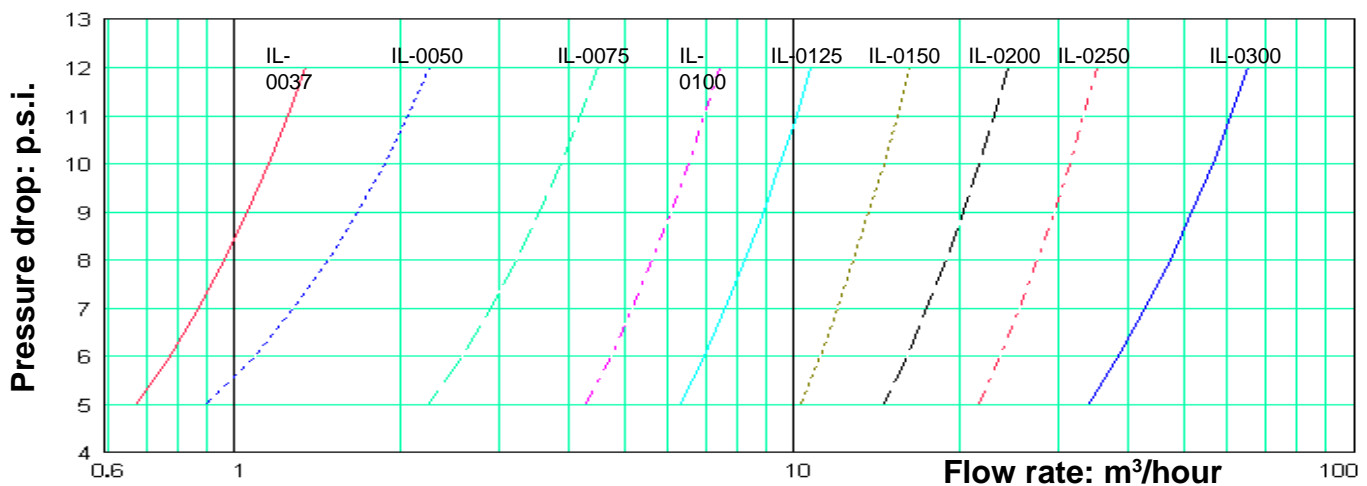
Dimensions

MODEL	A	B	C	D	F
IL-0037-B/S	16 1/2	3	3 5/8	1 5/8	4
	419.1	76.2	85.8	41.4	101.6
IL-0050-B/S	20	4	4	2 1/4	6
	508.0	101.6	101.6	57.1	152.4
IL-0075-B/S	20	4	4	2 1/8	6
	508.0	101.6	101.6	54.0	152.4
IL-0100-B/S	30	4 3/8	4	2	6
	762.0	111.1	101.6	50.8	152.4
IL-0125-B/S	30	4 3/8	4	1 7/8	6
	762.0	111.1	101.6	47.6	152.4
IL-0150-B/S	30	4 3/8	4	1 3/4	6
	762.0	111.1	101.6	44.4	152.4
IL-0200-B/S	33 5/8	5	5 1/2	2 5/8	8 5/8
	854.2	127.0	139.7	66.7	219.1
IL-0250-B/S	37	5 1/2	6 1/4	2 5/8	8 5/8
	939.8	139.7	158.7	66.7	219.1
IL-0300-B/S	42	7	8 1/4	3 1/4	10 3/4
	1066.8	177.8	209.5	82.6	273.0

Inches shown in light bands
 Millimetres shown in shaded bands



Flow vs. Pressure Loss Chart



INSTALLATION & MAINTENANCE

For effective solids removal, LAKOS separators must be operated within the recommended flow range for each model as shown in the tables above. Pipe size is not a factor in model selection. Minimum inlet pressure should be at least 15psi or equal to the pressure loss anticipated through the separator plus the system's downstream pressure requirement.

The unit should be installed in the near vertical upright position on the discharge side of the pumping system.