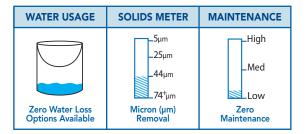


PACKAGED SEPARATOR SYSTEMS

- Energy-Efficient, Environmentally-Friendly Designs
- Reduce Biofouling and the Risk of Legionnaires Disease
- Eliminate Manual Basin Cleaning
- Minimize Maintenance and Downtime
- Virtually Eliminate Underdeposit Corrosion
- Optimize the Effectiveness of Water Treatment Programs
- Maximize Equipment Life
- Increase Thermal Performance of Your Heat Exchanger or Chiller





TOWER CLEAN SYSTEMS

Water Filtration for Cooling Towers



FLOW RANGE:

30-1,670 U.S. gpm* (7-379 m³/hr)

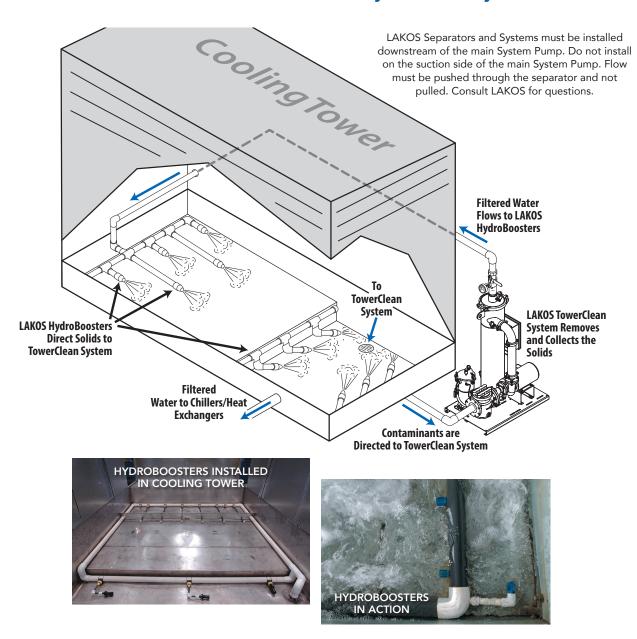
STANDARD PRESSURE RATING: 150 psi on TCX/TCI (10.3 bar)

MAX. FLUID OPERATING TEMP: 140°F (60°C)

*Contact LAKOS for higher flow rate options

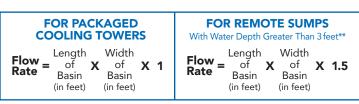
TYPICAL INSTALLATIONS

TOWER BASIN CLEANING with TowerClean System and HydroBoosters



MODEL SELECTION

Since active and directed circulation of basin/sump liquids is required for effective solids removal, model selection for the TowerClean system is based upon the size of the basin or remote sump. This is best determined with these calculations:



**Please confirm system selection with factory.

After determining the required Flow Rate, refer to the Max Basin Size column in the Performance section on the next page.

Select the model that has an equal or next larger Flow Rate. For Flow Rates larger than those shown, two or more systems are needed or a custom system must be configured. Please consult the factory.

CONFIGURATIONS Empty Weight TCX TCI Separator Model Inlet TCI/TCX Flow **Outlet Inlet Piping** SRV ABV SRV or ABV Pump **Full Load Amperage** kg Model TCİ TCX GPM m3/hr (flanged) (grooved) to use* lbs kg lbs kg lbs HP 230V 460V 575V ILB-0100 1-1/2" thd 145 1.7 HTX-0016 30 2" 270 99 4.2 2.1 0030 7 122 219 320 1 0065 ILB-0150 HTX-0038 65 15 2"thd 1-1/2" 2-1/2" 390 177 323 146 424 192 3 9.6 4.8 3.9 452 0100 ILB-0200 HTX-0060 100 23 3" 2" 3" 205 387 176 577 262 5 15.2 7.6 6.1 3" 4" 0145 ILB-0250 HTX-0085 145 33 2-1/2" 475 215 407 185 631 286 5 15.2 7.6 6.1 0200 ILB-0300 HTX-0130 200 45 3" 3" 4" 512 232 439 199 662 300 7.5 22 11 9 0280 ILB-0350 HTX-0200 280 64 4" 4" 6" 642 291 569 258 820 372 10 28 14 11 0400 HTH-0285 HTX-0285 400 91 6" 4" 1065 483 483 15 42 21 17 6" 1065 1153 523 0525 HTH-0285 HTX-0285 525 119 6" 4" 6" 1235 560 1235 560 1318 598 54 27 20 22 HTH-0450 6" 6" 6" 54 0600 HTX-0450 1535 696 1580 717 20 27 22 600 136 1535 696 8" 6" 8" 40 0825 HTH-0450 HTX-0450 825 187 1793 787 1793 787 1771 803 30 80 32

10"

12"

6"

8"

1794

3405 1544

815

1794

3405

815

1544

1847 838

3598

DIMENSIONS

HTH-0500

HTH-0810

1100

1670

HTX-0500

HTX-0810

1100

1670 379

250

8"

10"

TCI Model	Dimension A: Length Inches mm		Dimension B: Width Inches mm		Dimension E: Height Inches mm	
0030-SRV	41	1041	24-1/2	622	55-5/16	1405
0030-ABV	32-1/2	826	24-1/2	622	55-5/16	1405
0065-SRV	41	1041	24-1/2	622	54-15/16	1395
0065-ABV	32-1/2	826	24-1/2	622	54-15/16	1395
0100-SRV	41	1041	24-1/2	622	56-3/16	1427
0100-ABV	33-5/8	854	24-1/2	622	56-3/16	1427
0145-SRV	41	1041	24-1/2	622	55-13/16	1418
0145-ABV	33-5/8	854	24-1/2	622	55-13/16	1418
0200-SRV	42	1067	33-1/4	845	61-3/4	1568
0200-ABV	36-7/8	937	33-1/4	845	61-3/4	1568
0280-SRV	42	1067	33-1/4	845	61-3/4	1568
0280-ABV	36-15/16	937	33-1/4	845	61-3/4	1568
0400	48	1219	30	762	69-3/16	1757
0525	48	1219	30	762	69-3/16	1757
0600	60	1524	36	914	84-15/16	2157
0825	60	1524	36	914	84-15/16	2157
1100	60	1524	36	914	84-15/16	2157
1670	117-3/8	2981	46-1/2	1181	67-3/16	1707
TCX Model	Dimension A: Length Inches mm		Dimension B: Width Inches mm		Dimension E: Height Inches mm	
0030	39-3/4	1010	24	610	46-1/8	1172
0065	39-3/4	1010	24	610	46-1/8	1172
0100	39-3/4	1010	24	610	46-1/8	1222
0145	39-3/4	1010	24	610	49-3/8	1251
0200	39-3/4	1010	24	610	51-3/8	1302
0280	39-3/4	1010	24	610	67-1/16	1703
0400	48	1219	30	762	69-3/16	1764
0525	48	1219	30	762	69-3/16	1764
0600	60	1524	36	914	84-15/16	2157
0825	60	1524	36	914	85-1/16	2161
1100	60	1524	36	914	85-1/16	2161
1670	117-3/8	2981	46-1/2	1181	63	1600

More detailed CAD drawings and CSI specifications are available at www.lakos.com.

1632

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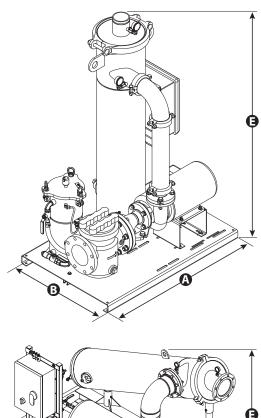
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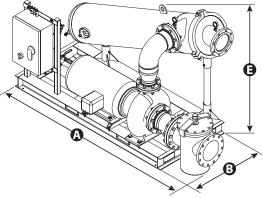
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TC Models 0825, 1100 and 1670 are available in low profile.

^{*} LAKOS recommended inlet pipe size. All TowerClean Systems are rated for 150 psi (10.3 bar) maximum pressure.

SYSTEM PURGE OPTIONS

SOLIDS RECOVERY VESSEL (SRV)

Features and Benefits

· Capture separated solids easily and return clean liquid back to TC pump suction; eliminating liquid loss

- Continuous operation; remove collected solids without interrupting system flow for service
- Lower waste treatment costs, meet waste disposal requirements and greatly reduce chemical loss
- Optional dry contact available for remote monitoring with BMS (Building Management System) connection or audio/visual alarms for bag changes
- For more information see LAKOS literature LS-622



SRV-816 & SRV-833

SEPARATOR OUTLET SEPARATOR INLET AKOS Filtered water to pump suction for zero liquid loss Separator Purges solids to SRV

Solids Recovery Vessel (SRV) helps capture separated solids from LAKOS Separators – and return clean liquid back to the system through pump suction for zero liquid loss.

AUTOMATED BALL VALVE (ABV)

Features and Benefits

- Eliminates manual purging
- ABV actuator features an electronic circuit that automatically adjusts the motor speed (depending on torque variations) to keep cycle time constant — maintaining consistent purge durations
- ABV actuator housing is made of a V0 self-extinguish class techno-polymer material for fire safety
- Can be combined with an SRV to offer temporary hands-off operation
- For more information see LAKOS literature LS-239



ABV

Separator purge	ABV ABV connected to LAKOS controller
ABV and LAI	KOS Controller automatically
nurge senar	ated solids from Senarator's

SEPARATOR INLET

SEPARATOR

OUTLET

collection chamber at pre-determined time intervals - eliminating manual purging.

Models	Valve Diameter			
Models	Inches	mm		
ABV-07	3/4"	19.05		
ABV-15	1-1/2"	38.1		
ABV-20	2"	50.8		

Purge controller is required and included as part of valve kit.



