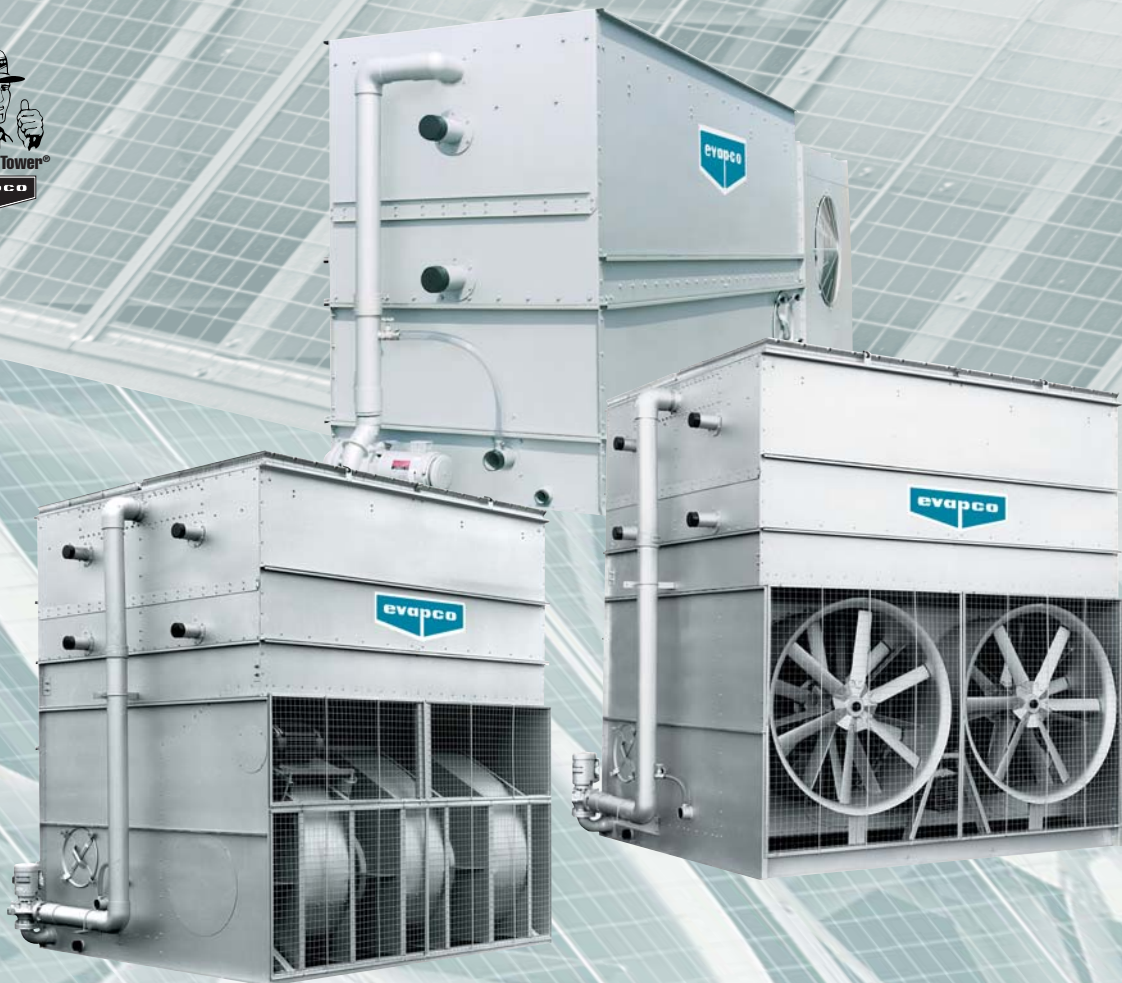


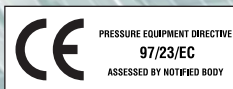


LSCB/LRC/PMCB Evaporative Condensers

Advanced Technology for the Future, Available Today



Exclusive Thermal-Pak® Coil
Z-725 Galvanized Steel Construction
Totally Enclosed Fan and
Pump Motors



CERTIFIED EN ISO 9001:2000

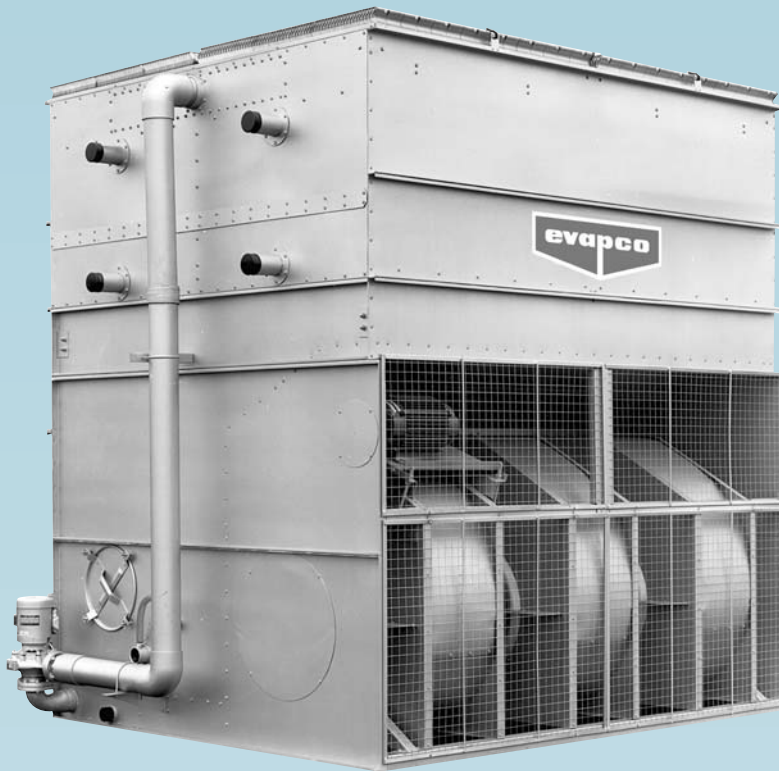


EVAPCO offers a variety of evaporative condenser designs in

Each unit is a reflection of Evapco's commitment to excellence in engineering and manufacturing. An emphasis on research and development has resulted in many condenser innovations.

All Evapco condensers have the following features as standard:

- Patented* Thermal-Pak® Coil resulting in the maximum thermal performance available per plan area.
- Heavy Gauge Hot Dip Galvanized Steel construction assuring long operating life.
- Totally Enclosed Fan and Pump Motors.



LSCB Series

LSCB centrifugal fan forced draft condensers are recommended for a wide range of applications. LSCB models are very quiet and ideal for applications where noise is a concern. In addition, sound attenuation packages are available to further reduce the sound levels.

The centrifugal fans can also operate against the static pressure loss of ductwork and are suitable for indoor installations, or those with inlet or outlet ductwork. These condensers are available in capacities from 155 to 6931 kW. Very quiet operation.



LRC Series

LRC condensers are forced draft, centrifugal fan models designed specifically for applications requiring low height. Their compact, yet user-friendly design makes them ideal for smaller applications from 108 to 1632 kW.



LSCB & LRC Design and Construction Features

The LSCB and LRC units are a result of EVAPCO's extensive experience in forced draft centrifugal fan designs. Both models are designed for easy maintenance and long, trouble free operation.

Exclusive Thermal-Pak® Coil

- Providing Maximum Efficiency per Plan Area

Double-Brake Flange Joints

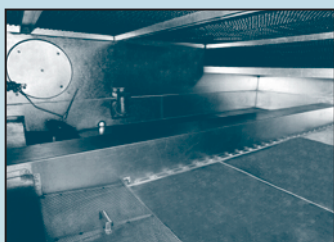
- Stronger than single-brake designs by others.
- Minimizes water leaks at field joints.
- Greater structural integrity.

Z-725 Heavy Mill-Dip Galvanized Steel Construction

- (Stainless steel available as affordable option)

Totally Enclosed Pump Motors

- Long, trouble-free operation.

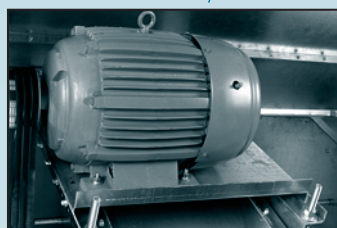


Stainless Steel Strainers

- Resists corrosion better than other materials.

Efficient Drift Eliminators

- Advanced design removes mist from leaving airstream.
- Corrosion resistant PVC for long life.

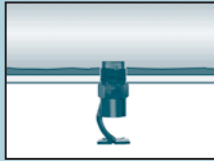


Totally Enclosed Fan Motors

- Assures long life
- All normal maintenance can be performed quickly from outside the unit.
- If required, motor may be easily removed.

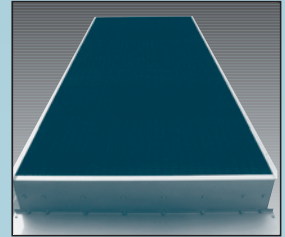
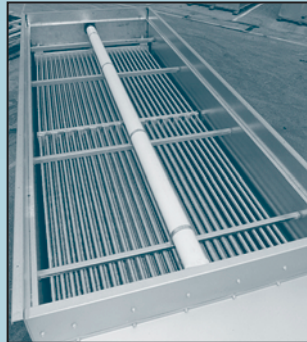
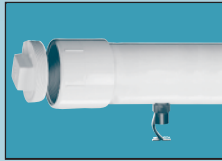
The superior design offers:

- Low Rigging Costs • Low Installed Costs
- Low Silhouette • Low Maintenance • Low Sound



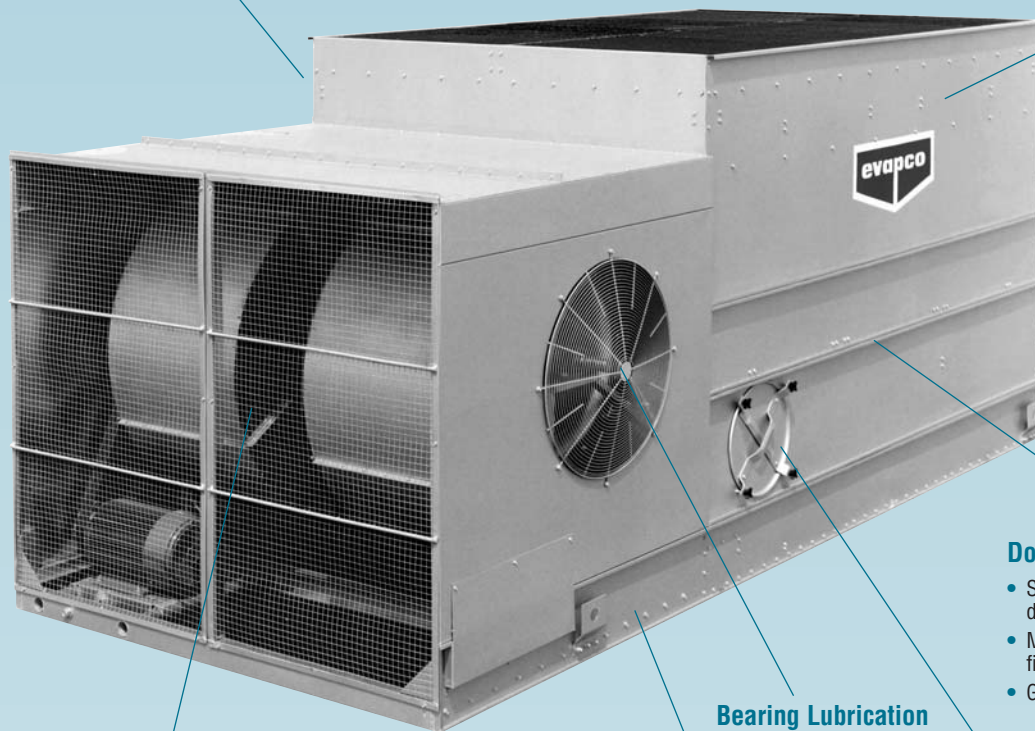
PVC Spray Distribution Header with ZM Nozzles

- Nozzles are threaded to assure proper orientation.
- "Anti-Sludge Ring" reduces maintenance.
- Large orifice nozzles prevent clogging.
- Threaded end caps for ease of cleaning.



Efficient Drift Eliminators

- Advanced design removes mist from leaving airstream.
- Corrosion resistant PVC for long life.



Z-725 Heavy Mill-Dip Galvanized Steel Construction

(Stainless steel available as affordable option)

Double-Brake Flange Joints

- Stronger than single-brake designs by others.
- Minimizes water leaks at field joints.
- Greater structural integrity.

Bearing Lubrication

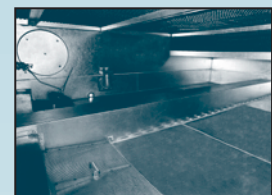


Easy to Service Motor Mount Design

- All normal maintenance can be performed quickly from outside the unit.
- If required, motor may be easily removed.
- Split fan housings allow removal of all mechanical equipment through the end of the unit.

Stainless Steel Basin

- Standard Construction
- Eliminates the need for unreliable epoxy coatings.



Stainless Steel Strainers

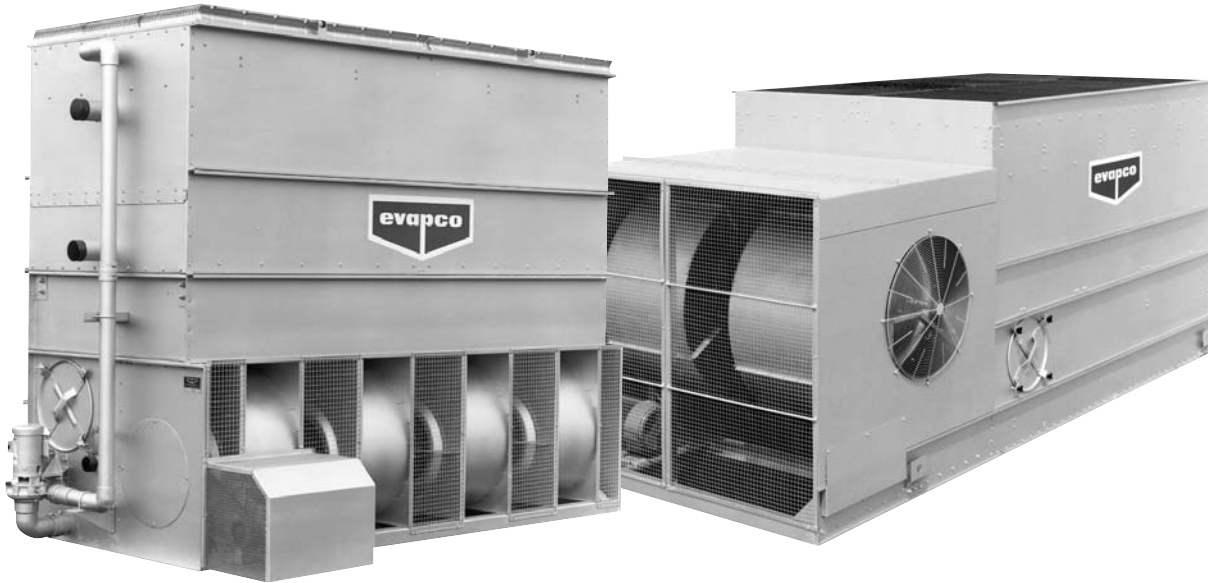
- Resists corrosion better than other materials.

Forced Draft Centrifugal Design Features LSCB & LRC Models

Application versatility

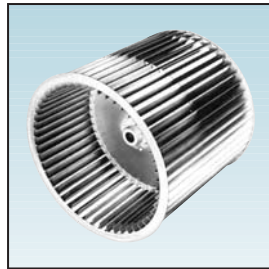
Centrifugal units are recommended for a wide range of installations. They are quiet, can easily be hidden, and the increase in fan motor kW over propeller fan units is generally not significant in the small size range. They are also excellent for larger installations where very quiet operation is a must, such as residential neighborhoods.

In addition, centrifugal fan units can operate against the static pressure loss of ductwork and are therefore ideal for indoor installations.



Centrifugal Fan Assembly

Fans on LSCB & LRC condensers are of the forward curved centrifugal design with hot-dip galvanized steel construction. All fans are statically and dynamically balanced and are mounted in a hot-dip galvanized steel housing designed and manufactured by EVAPCO.



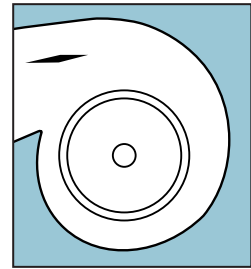
Centrifugal Fan

Very Quiet Operation

Centrifugal fan units operate at lower sound levels which make this design preferred for installations where noise is a concern. The sound they produce is primarily at high frequencies which is easily attenuated by building walls, windows, and natural barriers. Additionally, since the sound from the fans is directional, single sided air entry models can be turned away from critical areas avoiding a sound problem. When even quieter operation is necessary, centrifugal fan models can be equipped with optional sound attenuation packages. Consult the factory for details.

Capacity Control Dampers

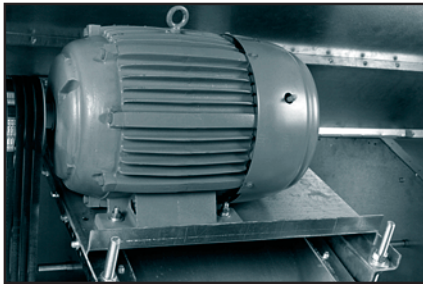
Capacity control dampers are an excellent way to match unit capacity to system requirements. This option consists of dampers mounted in the air stream which modulate the air flow through the unit. They may also be supplied with an electric control package.



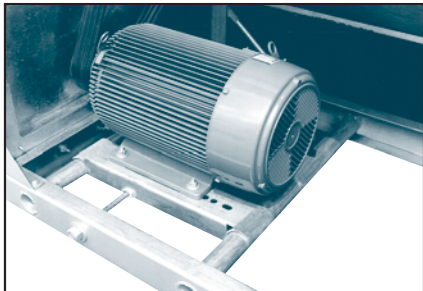
Fan Dampers

Fan Motor Mount

Fan motors are mounted in a convenient open area to make it easy to adjust belt tension, lubricate the motor, electrically connect it, or change the motor if necessary. The fan motor and drive are under a protective cover for safety and to protect them from the elements.



LSCB Fan Motor Mount

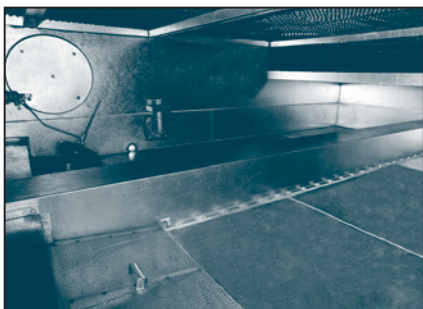


LRC Fan Motor Mount

Accessibility

The basin/fan section of a centrifugal fan unit is designed for accessibility and ease of maintenance. Fan and drive components are positioned to allow easy adjustment and cleaning. All grease fittings are in convenient locations for periodic lubrication.

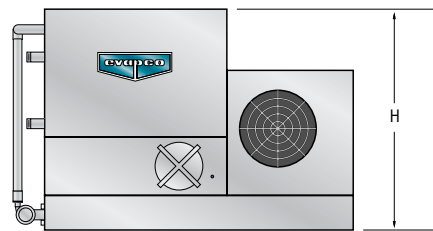
Large circular access doors are provided on each section to allow entry into the basin. All float valve and strainer assemblies are located near the door for easy adjustment and cleaning. The basin sump is designed to catch the dirt accumulated and can be flushed out simply with a hose. The basin strainers may be easily removed for periodic cleaning.



Reduced Height and Improved Maintenance Accessibility

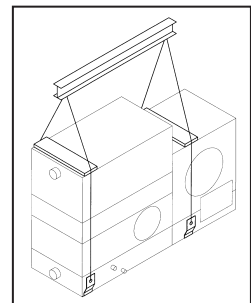
The LRC unit has been designed to satisfy installation requirements where height limits must be observed. The lower profile design of the LRC does not, however, sacrifice maintenance accessibility for reduced height. Its unique casing design allows the water distribution system, cold water basin, fan section and other unit components to be easily maintained.

Small, light weight sections of the drift eliminators can be easily removed to access the water distribution system. Large circular access doors are located on both sides of the cold water basin to allow adjustment of the float assembly, removal of the stainless steel strainers and cleaning of the basin. The fan motor and drive system are located at one end of the unit and are completely accessible by removing the inlet screens. Although, routine maintenance can be performed from the exterior of the unit without removing the inlet screens



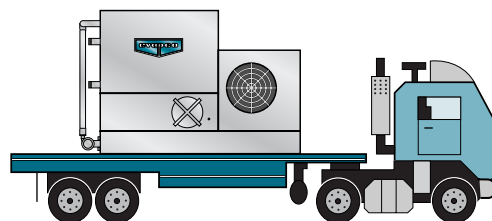
Low Installed Costs

The compact, unitary design of the LRC units allows them to be shipped completely assembled. This results in lower transportation costs and no assembly requirements at the job site. Note: Options such as sound attenuation and discharge hoods will require additional lifts and some minor assembly.



Transport of a Pre-Assembled Unit

The LRC ships fully assembled. This means lower transport costs and no further expenses at the job site for assembly. LRC units are ideal for truck-mounted applications for remote sites or temporary installations.



Optional Equipment for Evaporative Condensers

Two Speed Motors

Two speed fan motors can provide an excellent means of capacity control. In periods of lightened loads or reduced wet bulb temperatures, the fans can operate at low speed, which will provide about 60% of full speed capacity, yet consume only about 15% of the power compared with high speed. In addition to the energy savings, the sound levels of the units will be greatly reduced at low speed.

LSCB & LRC Models

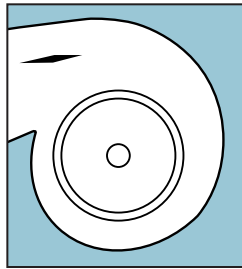
Capacity Control Dampers & Pony Motors

In addition to two speed fan motors, variable frequency drives (VFD's) or cycling fan motor on multiple motor units, centrifugal fan condensers have two other types of capacity control options available to them: Pony motors and capacity control fan dampers.

Pony motors utilize a smaller fan motor in conjunction with the primary motor for use in times of reduced loading.

This pony motor is typically 1/4 the kW of the primary motor, and can significantly reduce energy requirements.

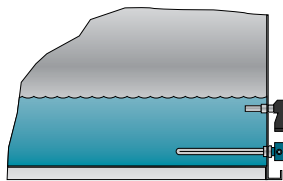
Capacity control fan dampers are located directly in the fan housings. They control head pressure by modulating the air flow through the unit to match the capacity of the condenser to the system load.



Fan Dampers

Basin Heater Package

If a remote sump configuration is not practical, electric basin heater packages are available to help prevent freeze-up of the basin water. The packages include electric heater elements and a combination with thermostat and low water cutoff. (See page 25 for heater size and application)



Electric Water Level Control

EVAPCO evaporative condensers are available with an optional electric water level control system in place of the standard mechanical makeup valve and float assembly. This package provides very accurate control of the pan water level and does not require field adjustment, even under widely variable operating conditions.

The control was designed by EVAPCO and consists of multiple heavy duty stainless steel electrodes. These electrodes are mounted external to the unit.

The weather protected slow closing solenoid valve for the makeup water connection is factory supplied and is ready for piping to a water supply with a pressure between 140 kPa (minimum) and 340 kPa (maximum).

Multiple Circuit Coils

Condensers may be supplied with multiple circuit coils to match various system requirements such as split systems, or if a glycol or water circuit is desired for compressor head cooling.

Extended Surface Coil

Condensers can be provided with spiral fins on the heat exchanger coil to increase the dry performance of the unit. Dry performance is accomplished by rejecting heat to the atmosphere without the use of the spray pump and the evaporation process. Dry operation can be practical in cold climates and/or when reduced winter loads exist. The number of fins per inch and quantity of rows finned can be varied to obtain different dry performances. Dry operation often requires the next larger size fan motor. Consult the factory for sizing.

Sub-Cooling Coils

EVAPCO's standard subcooling coil is designed to provide 5.5°C of refrigerant liquid subcooling on halocarbon refrigerants. The subcooling coil section is mounted between the condensing coil and the pan section.

Solid Bottom Panels for Ductwork

When centrifugal fan units are installed indoors and intake air is ducted to the unit, a solid bottom panel is required to completely enclose the fan section and prevent the unit from drawing room air into the fan intakes. When this is ordered, air inlet screens are omitted and the fan bearings are provided with extended lubrication fittings to facilitate maintenance from outside the duct.

Access Ladders

Access ladders are available to provide access for water distribution system inspection and maintenance.

Stainless Steel Basin (Option)

LSCA and PMCB condensers are available with an inexpensive all stainless steel basin section. This provides superior corrosion resistance over other materials of construction. (Standard on all LRC models)

Optional Equipment for Sound Reduction

LSCB & LRC Models

Sound Attenuation Packages

The centrifugal fan design of the LSCB and LRC models operate at lower sound level which make these units preferred for installations where noise is a concern. The sound they produce is primarily at high frequencies which is easily attenuated by building walls, windows and natural barriers. For extremely noise sensitive applications, the LSCB and LRC centrifugal fan models may be supplied with various stages of intake and/or discharge attenuation packages which greatly reduce sound levels.

The sound attenuation options can be provided in stages to provide varying degrees of attenuation while economically matching the project sound requirements.

Oversize fan motors are required for many of these options in order to overcome the additional static pressure. Consult the factory for Certified Sound Data for each sound attenuation option.

Fan Side Inlet Attenuation (LRC only)

Reduces sound radiated from the fan side air intakes and has an open bottom to allow for air entry. This attenuation package ships loose to be mounted in the field on each side of the cooling tower over the fan intakes.

Fan End Inlet Attenuation (LSCB and LRC)

Reduces sound radiated through the end air intakes. It consists of baffled panels to change the path of the air entry and to capture the radiated noise thus reducing the overall sound levels generated. In addition, the external belt adjustment mechanism is extended through the inlet attenuator to allow easy belt adjustment without having to enter the unit.

Discharge Attenuation (LSCB and LRC)

The discharge attenuation hood features a straight sided design with insulated baffles to reduce the overall sound levels of the discharge air. The discharge attenuation incorporates a large access panel to allow entry to the drift eliminators and water distribution system. If a higher discharge velocity is required with minimal sound attenuation, a tapered discharge hood is available.

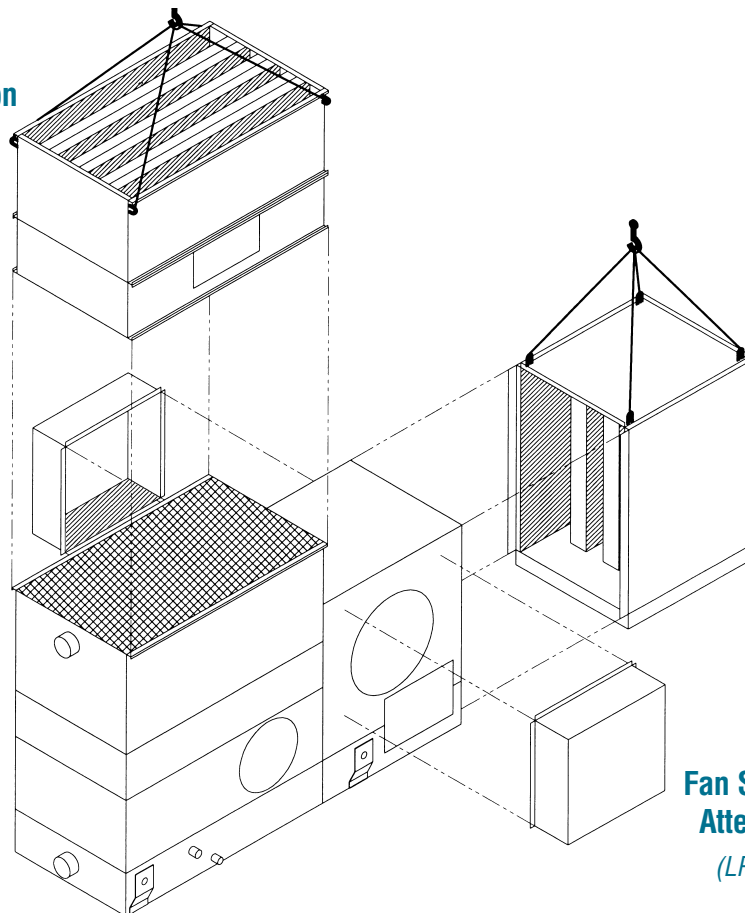
PMCB Models

Wide Blade Fans

Wide blade fans are available for PMCB forced draft units. The cast aluminum fans operate at lower tip speeds to significantly reduce sound levels.

Discharge Attenuation

(LSCB and LRC)



Fan End Inlet Attenuation

(LSCB and LRC)

Fan Side Inlet Attenuation

(LRC only)

TABLE 3 Unit Heat Rejection Capacity

LSCB - Centrifugal Fan Models									
Model No.	kW Base	Model No.	kW Base	Model No.	kW Base	Model No.	kW Base	Model No.	kW Base
LSCB-36	155	LSCB-210	904	LSCB-400	1722	LSCB-620	2669	LSCB-950	4090
41	177	225	969	410	1766	625	2691	960	4133
48	207	240	1033	430	1851	650	2798	980	4219
54	232	250	1076	431	1855	660	2841	1000	4305
65	280	280	1205	450	1937	690	2970	1020	4391
70	301	281	1206	460	1980	691	2972	1030	4434
75	323	295	1270	475	2045	720	3100	1060	4563
80	344	300	1292	480	2066	721	3102	1080	4649
90	387	310	1335	490	2109	755	3250	1100	4736
100	431	315	1356	500	2153	770	3315	1120	4822
110	474	330	1421	510	2196	800	3444	1180	5080
120	517	335	1442	515	2217	805	3466	1250	5381
135	581	345	1485	530	2282	820	3532	1310	5640
150	646	355	1528	540	2325	860	3702	1380	5941
155	667	360	1550	550	2368	861	3704	1440	6199
170	732	370	1593	560	2411	900	3875	1510	6501
185	796	385	1657	590	2540	920	3961	1610	6931
200	861	386	1662	591	2544				

LRC - Centrifugal Fan Models									
Model No.	kW Base	Model No.	kW Base	Model No.	kW Base	Model No.	kW Base	Model No.	kW Base
LRC - 25	108	LRC - 65	280	LRC - 128	551	LRC - 225	969	LRC - 249	1072
27	116	72	310	131	564	233	1003	287	1236
29	125	76	327	140	603	246	1059	300	1292
35	151	84	362	155	667	188	809	321	1382
38	164	91	392	174	749	211	908	336	1446
42	181	101	435	183	788	227	977	361	1554
48	207	114	491	190	818	240	1033	379	1632
51	220	108	465	201	865	255	1098		
58	250	116	500	213	917	269	1158		

Power-Mizer Models									
Model No.	kW Base	Model No.	kW Base	Model No.	kW Base	Model No.	kW Base	Model No.	kW Base
PMCB-190	818	PMCB-360	1550	PMCB-580	2497	PMCB-885	3810	PMCB-1380	5941
210	904	375	1614	600	2583	960	4133	1410	6070
220	947	390	1679	630	2712	1000	4305	1485	6393
235	1012	415	1787	660	2841	1015	4370	1540	6630
240	1033	435	1873	690	2970	1030	4434	1630	7017
250	1076	455	1959	725	3121	1080	4649	1710	7362
275	1184	480	2066	755	3250	1120	4822	1770	7620
295	1270	510	2196	775	3336	1175	5058		
325	1399	535	2303	815	3509	1260	5424		
350	1507	560	2411	855	3681	1320	5683		

Alternate Power-Mizer Models*									
Model No.	kW Base	Model No.	kW Base	Model No.	kW Base	Model No.	kW Base	Model No.	kW Base
PMCB-175	753	PMCB-425	1830	PMCB-585	2518	PMCB-805	3466	PMCB-1060	4563
290	1248	450	1937	645	2777	850	3659	1110	4779
330	1421	475	2045	705	3035	910	3918	1510	6501
335	1442	495	2131	770	3315	950	4090	1550	6673
385	1657	540	2325						

Unit Selections

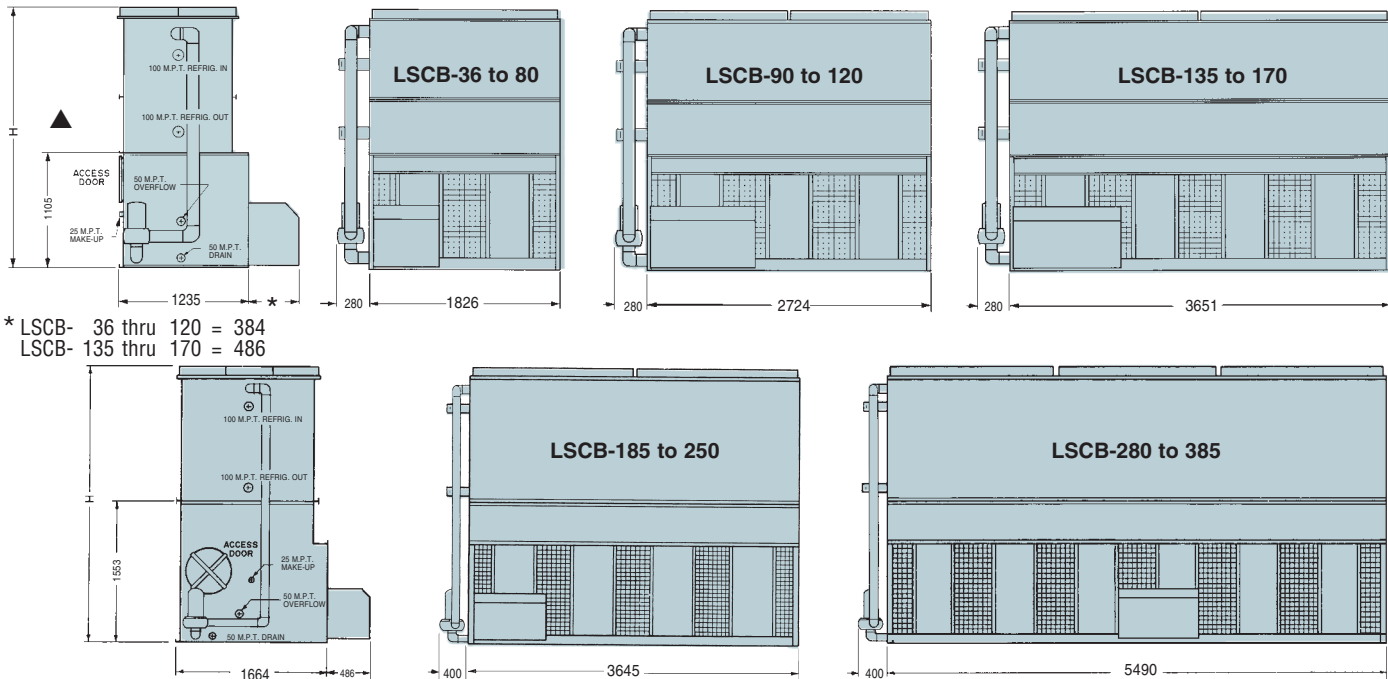
Selections for all evaporative condensers can be made by using EVAPCO's IES computer selection software. IES provides quick and accurate selections at the click of a button. In addition to selections, the program displays unit drawings, dimensional and shipping information. Please contact your local sales representative or visit the EVAPCO Europe web.

NOTE: For applications requiring layout or fan kW combinations not shown above, please consult the factory or your EVAPCO representative.

* Alternate Power-Mizer models represent selections for alternate plan area or low fan kW applications. Standard models should be used for the lowest first-cost selection.



Engineering Dimensions & Data *Centrifugal Fan Models LSCB 36 to 385*



* LSCB- 36 thru 120 = 384
LSCB- 135 thru 170 = 486

▲ NOTE: Coil connection(s) and other unit dimensions may vary to match application requirements and/or shipping regulations. Consult the EVAPCO plant or certified drawings for detailed information.

TABLE 6 Engineering Data

UNIT NO.	FANS		WEIGHTS (KG)			R-717 Operating Charge	SPRAY PUMP		REMOTE SUMP		HEIGHT (mm)
	KW	m ³ /s	Shipping	Operating	Heaviest Section †		KW	l/s	Liters Req'd**	Conn. Size	
LSCB-36	2,2	4,8	1005	1440	1005*	17	0,55	7,6	303	100	2048
41	4,0	5,7	1035	1465	1035*	17	0,55	7,6	303	100	2048
48	2,2	4,7	1230	1610	1230*	26	0,55	7,6	303	100	2238
54	4,0	5,6	1265	1645	1265*	26	0,55	7,6	303	100	2238
65	4,0	5,5	1405	1795	925	35	0,55	7,6	303	100	2429
70	5,5	6,1	1445	1835	925	35	0,55	7,6	303	100	2429
75	4,0	5,4	1550	1950	1100	44	0,55	7,6	303	100	2619
80	5,5	6,0	1620	2020	1100	44	0,55	7,6	303	100	2619
LSCB-90	4,0	7,2	1985	2585	1360	52	0,75	11,4	454	150	2429
100	5,5	8,2	2050	2650	1360	52	0,75	11,4	454	150	2429
110	7,5	9,1	2110	2710	1360	52	0,75	11,4	454	150	2429
120	7,5	8,9	2290	2900	1630	65	0,75	11,4	454	150	2619
LSCB-135	7,5	11,2	2595	3440	1795	70	1,1	15,5	643	150	2429
150	11,0	12,6	2650	3495	1795	70	1,1	15,5	643	150	2429
155	7,5	11,0	2950	3815	2155	87	1,1	15,5	643	150	2619
170	11,0	12,3	3015	3885	2155	87	1,1	15,5	643	150	2619
LSCB-185	7,5	15,5	3590	4645	2480	100	1,5	21,8	871	200	2979
200	11,0	16,8	3655	4715	2480	100	1,5	21,8	871	200	2979
210	15,0	17,7	3715	4770	2480	100	1,5	21,8	871	200	2979
225	11,0	16,4	4115	5205	2985	125	1,5	21,8	871	200	3194
240	15,0	17,6	4175	5260	2985	125	1,5	21,8	871	200	3194
250	15,0	17,4	4630	5745	3495	150	1,5	21,8	871	200	3410
LSCB-280	11,0	22,3	5475	6865	3780	150	2,2	32,5	1287	200	2979
300	15,0	24,5	5535	6920	3780	150	2,2	32,5	1287	200	2979
315	18,5	26,2	5625	7015	3780	150	2,2	32,5	1287	200	2979
335	15,0	23,8	6245	7665	4530	186	2,2	32,5	1287	200	3194
355	18,5	25,6	6335	7755	4530	186	2,2	32,5	1287	200	3194
370	22,0	27,2	6405	7825	4530	186	2,2	32,5	1287	200	3194
385	22,0	26,7	7070	8530	5290	225	2,2	32,5	1287	200	3410

* Unit ships in one piece.

** Liters shown is water in suspension in unit and piping. Allow for additional water in bottom of remote sump to cover pump suction and strainer during operation. (300 mm would normally be sufficient.)

† Heaviest section is the coil section.

Refrigerant charge is shown for R-717. Multiply by 1,93 for R-22 and 1,98 for R-134a. Dimensions are subject to change. Do not use for pre-fabrication.

Applications

Bleed-off

Each unit supplied with a pump mounted on the side is furnished with a clear bleed line for visual inspection and a valve which, when fully open, will bleed-off the proper amount of water. If the make-up water supplying to the unit is relatively free of impurities, it may be possible to cut back the bleed, but the unit must be checked frequently to make sure scale is not forming. Make-up water pressure should be maintained between 140 and 340 kPa.

Water Treatment

In some cases the make-up will be so high in mineral content that a normal bleed-off will not prevent scaling. In these cases water treatment will be required and a reputable water treatment company familiar with the local water conditions should be consulted.

Any chemical water treatment used must be compatible with the galvanized construction of the unit. If acid is used for treatment, it should be accurately metered and the concentration properly controlled. The pH of the water should be maintained between 6.5 and 8.0. Units constructed of galvanized steel operating with circulating water having a pH of 8.3 or higher will require periodic passivation of the galvanized steel to prevent the formation of "white rust". Batch chemical feeding is not recommended because it does not afford the proper degree of control. If acid cleaning is required extreme caution must be exercised and only inhibited acids recommended for use with galvanized construction should be used. For more information see EVAPCO Bulletin entitled "Maintenance Instructions".

Control of Biological Contamination

Water quality should be checked regularly for biological contamination. If biological contamination is detected, a more aggressive water treatment and mechanical cleaning program should be undertaken. The water treatment program should be performed in conjunction with a qualified water treatment company. It is important that all internal surfaces be kept clean of accumulated dirt and sludge. In addition, the drift eliminators should be maintained in good operating condition

Note: The location of the evaporative condenser must be considered during the equipment layout stages of a project. It is important to prevent the discharge air (potential of biological contamination) from being introduced into the fresh air intakes of the building.

Recirculating Water System - Freeze Protection

Water lines to and from the unit, spray pump and related piping should be heat traced and insulated up to the overflow level in order to protect from freezing.

The unit should not be operated dry (fans on, pump off) unless the basin is completely drained and the unit has been designed for dry operation.

REMOTE SUMP

Whenever a condenser is idled during subfreezing weather, the water in the sump must be protected from freezing and damaging the pan. The simplest and most reliable method of accomplishing this is with a remote sump tank located in a heated space in the building under the condenser. The recirculating water pump is mounted at the remote sump and whenever it is shut-off, all of the water drains into the indoor tank. When a condenser is ordered for remote sump operation, the standard float valve and strainer are omitted, and the unit is provided with an oversized bottom water outlet connection. Where a remote sump is not possible, a supplementary means of heating the pan water must be provided.

ELECTRIC HEATERS

Electric immersion heaters are available factory installed in the basin of the condenser. They are sized to maintain a +4 or +5°C pan water temperature with -18°C ambient air temperature with the fans and pumps off. They are furnished with a thermostat and low water protection device to cycle the heater on when required and to prevent the heater elements from energizing unless they are completely submerged. Components are enclosed in rugged, weatherproof enclosures for outdoor use. The heater power contactors and electric wiring are not included as standard.

Electric Pan Heaters

Model No.	kW*
LSCB 36 to 80	2
LSCB 90 to 170	3
LSCB 185 to 250	4
LSCB 280 to 385	(2) 3
LSCB 281 to 386	5
LSCB 410 to 560	(2) 4
LSCB 591 to 770	(2) 5
LSCB 820 to 1120	(2) 8
LSCB 400 to 515	8
LSCB 550 to 805	(2) 5
LSCB 800 to 1030	(2) 8
LSCB 1100 to 1610	(2) 10
LRC 25 to 72	2
LRC 76 to 114	3
LRC 108 to 183	4
LRC 190 to 246	6
LRC 188 to 269	7
LRC 249 to 379	9
PMCB 175 to 240	5
PMCB 250 to 375	(2) 4
PMCB 290 to 480	8
PMCB 450 to 775	(2) 6
PMCB 850 to 1030	(2) 8
PMCB 1060 to 1550	(4) 6
PMCB 435 to 580	(2) 6
PMCB 600 to 885	(2) 8
PMCB 1015 to 1120	(2) 12
PMCB 1110 to 1770	(2) 16

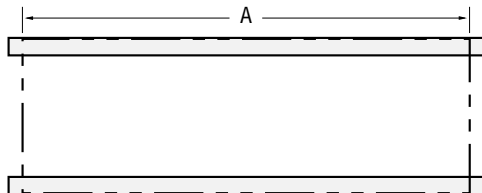
* Electric heater selection based on -18°C ambient temperature. For alternate low ambient heater selections, consult the factory.

Steel Support

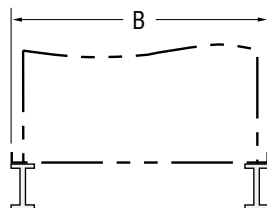
The recommended support for EVAPCO condensers is structural "I" beams located under the outer flanges and running the entire length of the unit. Mounting holes, 19mm in diameter are located in the bottom channels of the pan section to provide for bolting to the structural steel. (Refer to certified drawings from the factory for bolt hole locations.)

Beams should be level to within 3mm per 2m before setting the unit in place. Do not level the unit by shimming between it and the "I" beams as this will not provide proper longitudinal support.

Plan Views



End Elevations



LRC DIMENSIONS

Models		A	B
LRC	25 to 72	3083	1029
LRC	76 to 114	3731	1540
	108 to 183	4636	1540
	190 to 246	5553	1540
LRC	188 to 269	4629	2388
	249 to 379	5553	2388

LSCB DIMENSIONS

Models		A	B
LSCB	36 to 80	1826	1235
	90 to 120	2724	1235
	135 to 170	3651	1235
LSCB	185 to 250	3645	1664
	280 to 385	5490	1664
LSCB	281 to 386	3651	2388
	410 to 560	5486	2388
	581 to 770	7341	2388
	820 to 1120	11011	2388
LSCB	400 to 515	3648	2991
	550 to 805	5493	2991
	800 to 1030	7334	2991
	1100 to 1610	11024	2991

PMCB DIMENSIONS

Models		A	B
PMCB	175 to 240	3648	1927
	250 to 375	5493	1927
PMCB	290 to 480	3648	2991
	450 to 775	5490	2991
	850 to 1030	7334	2991
	1060 to 1550	11024	2991
PMCB	435 to 580	3651	3620
	600 to 885	5490	3620
	1015 to 1120	7341	3620
	1110 to 1120	11024	3620

Evaporative Condenser Specifications

Furnish and install as shown on the plan an Evapco Evaporative Condenser Model _____ having condensing capacity of _____ kW heat rejection operating with _____ Refrigerant at _____ °C condensing temperature and _____ °C design wet bulb temperature.

Casing and Fan Section

The casing and fan section shall be constructed of Z-725 galvanized steel for long life and durability. Fan section shall include fans, motors and drives. The entire drive system (including fans, motors, pulleys and belts) shall be located in the dry entering airstream.

Cold Water Basin *(only for LRC)*

The complete cold water basin shall be constructed of Type 304 stainless steel for long life and durability.

Standard cold water basin accessories shall include Type 304 stainless steel overflow, drain, anti-vortexing hood, strainers and brass make-up valve with unsinkable, foam filled plastic float. A circular access door shall be located above the basin to allow easy access to the pan interior.

The outlet shall be Type 304 stainless steel beveled for welding or a threaded connection.

Model LSCB & LRC - Centrifugal Fans/Drives

Fans shall be forwardly curved centrifugal type of hot-dip galvanized construction. The fans shall be factory installed into the pan-fan section, and statically and dynamically balanced for vibration free operation. Fans shall be mounted on either a solid steel shaft or a hollow steel shaft with forged bearing journals. The fan shaft shall be supported by heavy-duty, self-aligning bearings with cast-iron housings and lubrication fittings provided for maintenance.

The fan drive shall be V-belt type with taper lock pulleys designed for 150% of the motor nameplate kW. Drives are to be mounted and aligned at the factory.

Model PMCB - Power-Mizer Fans/Drives

Fans shall be vane-axial type constructed of cast aluminum alloy blades. They shall be arranged in a two-stage system installed in a closely fitted cowl with venturi air inlet and air stabilizing vanes. Fan shaft bearings shall be heavy-duty self-aligning ball type with grease fittings extended to the outside of the unit.

The fan drive shall be solid backed Power-Band constructed of neoprene with polyester cords and designed for 150% of motor nameplate kW. Drives are to be mounted and aligned at the factory.

Fan Motor

Fan motor(s) shall be _____ kW T.E.F.C. suitable for outdoor installation on _____ volts, _____ hertz, and _____ phase electrical service. Motor(s) shall be mounted on an adjustable base.

Heat Transfer Coil

The coil(s) shall be all prime surface steel, encased in steel framework with the entire assembly hot-dip galvanized after fabrication. Coil(s) shall be designed with sloping tubes for free drainage of liquid and air pressure tested under water in accordance with the "Pressure Equipment Directive" (PED) 97/23/EC.

Water Recirculation Pump

The pump shall be a close-coupled, centrifugal type with a mechanical seal. Pump motor shall be _____ kW T.E.F.C. design suitable for outdoor installation on _____ volts, _____ hertz, and _____ phase electrical service.

Water Distribution System

The system shall provide a water flow rate of not less than 4 l/s over each square meter of unit face area to ensure proper flooding of the coil. The spray header shall be constructed of polyvinyl chloride pipe for corrosion resistance. All spray branches shall be removable and include a threaded end plug for cleaning. The water shall be distributed over the entire coil surface by precision molded from heavy-duty, glass reinforced nylon spray nozzles for long life and 100% corrosion resistance (34 mm diameter orifice and 38 mm clearance between the nozzle bottom and water diverter plate) with an internal sludge ring to eliminate clogging. Nozzles shall be threaded into the spray header to provide easy removal for maintenance.

Eliminators

The eliminators shall be constructed of inert polyvinyl chloride that has been specially treated to resist UV degradation. Assembled in easily handled sections, the eliminators shall incorporate three changes in air direction to assure removal of entrained moisture from the discharge airstream. The maximum drift rate shall not exceed 0.001% of the recirculated water rate.

Finish

The casing and fan section shall be constructed of Z-725 heavy gauge mill hot-dip galvanized steel. During fabrication, all panel edges shall be coated with a 95% pure zinc compound.



★ World Headquarters /
Research and
Development Center

■ EVAPCO Manufacturing
Facilities

EVAPCO ... Specialists in Heat Transfer Products and Services

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