









Air Oil Coolers

LAC with AC Motor for Industrial Use



CADE -

Cylinder and Accumulator Division Europe

Made in Europe - serving all markets and industries



Our product range - click for more detail:



































Air Oil Cooler Range

As a global player specializing in innovative, efficient system solutions for temperature optimization and energy storage, Parker's products are used for the most diverse environments and applications all over the world.

In hydraulic systems energy is transformed and transmitted. During this process, efficiency losses occur, i.e. mechanical and hydraulic energy is converted into heat. It is the purpose of the cooler to dissipate this heat and to maintain the thermal balance of the hydraulic fluid.

Parker's high performance coolers are equipped with axial fans and IE3 class motors, ensuring your hydraulic system's peak performance.

Click <u>here</u> or scan QR code Parker's extensive series of air oil coolers for all requirements.

Cooler Range















Why Cooling

Choosing the right cooler requires precise system sizing. The most reliable way to size a cooler is with the aid of our calculation program. This program, together with precise evaluations from our experienced, skilled engineers, gives you the opportunity for more cooling per \$ invested.

Overheating - an expensive problem

An underestimated cooling capacity produces a temperature that is too high. The consequences are poor lubricating properties, higher internal leakage, a higher risk of cavitation, damaged components, etc.

Overheating leads to a significant drop in efficiency which can be detrimental to our environment.

Temperature optimization - a basic prerequisite for cost-efficient operation

Temperature balance in a hydraulic system occurs when the cooler can cool down the energy input that the system does not consume - the system's lost energy.

Temperature optimization occurs at the temperature at which the oil viscosity is maintained at recommended values.





LAC - Air Oil Coolers

For industrial use - maximum cooling capacity 300 kW

The LAC air oil cooler with single-phase or three-phase AC motor is optimized for use in the industrial sector. Together with a wide range of accessories, the LAC cooler is suitable for installation in most applications and environments. The maximum cooling capacity is 300 kW at ETD 40 °C.



Parker's Air Oil cooler range also includes the following versions:

LAC-X (ATEX version) **MAC** (Marine applications).

The LAC-X version is approved for applications where there may be an explosive environment above ground.

The MAC is especially suitable for marine environment to be better able to deal with corrosion attacks.

Please contact your Parker representative for more details!







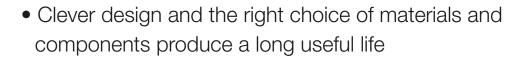


The Olaer Group has been part of Parker Hannifin since July 1st, 2012. With manufacturing and sales in 14 countries in North America, Asia and Europe, the Olaer Group expands Parker's presence in geographic growth areas and offers expertise in hydraulic accumulator and cooling systems for target growth markets such as oil and gas, power generation and renewable energy.





- Easy to maintain and easy to retrofit in many applications
- Cooler matrix with low pressure drop and high cooling capacity





- AC motor single-phase for smaller and three-phase for larger cooler sizes
- Service and repair costs are reduced

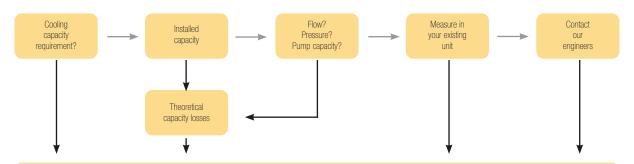


- High efficiency level preserved in continuous operation
- Compact design and light weight
- Quiet fan and fan motor
- REACH & RoHS compliant





Calculate the Cooling Capacity Requirement



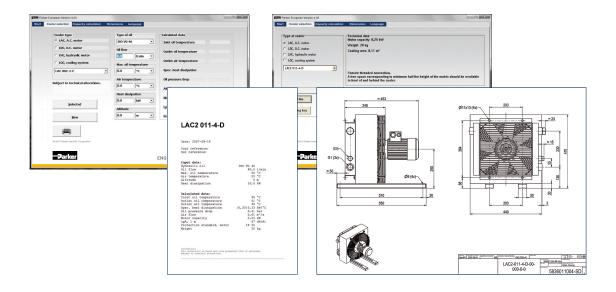
Choose the right kind of cooler

Enter your values

... suggested solution



https://divapps.parker.com/divapps/CADE/SSW/







Better energy consumption means not only less environmental impact, but also reduces operating costs, i.e. more cooling per € invested.

More Cooling per €

with precise calculations and our engineers' support

Optimal sizing produces efficient cooling. Correct sizing requires knowledge and experience. Our calculation program, combined with our engineers' support, gives you access to this very knowledge and experience.

The result is more cooling per € invested. The user-friendly calculation program can be downloaded from www.parker.com/acde.

Valuable system review into the bargain

A more wide-ranging review of the hydraulic system is often a natural element of cooling calculations. Other potential system improvements can then be discussed – e.g. filtering,

offline or online cooling, etc. Contact us for further guidance and information.

Parker Hannifin's quality and performance guarantee insurance for your operations and systems

A constant striving towards more cost-efficient and environment friendly hydraulic systems requires continuous development. Areas where we are continuously seeking to improve performance include cooling capacity, noise level, pressure drop and fatigue.

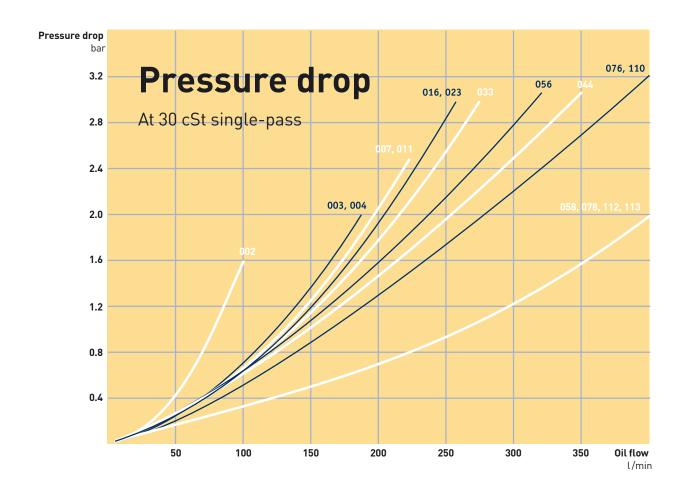
Meticulous quality and performance tests are conducted in our laboratory. All tests and measurements take place in accordance with standardised methods - cooling capacity in accordance with EN1048, noise level ISO 3743, pressure drop EN 1048 and fatigue ISO 10771-1.



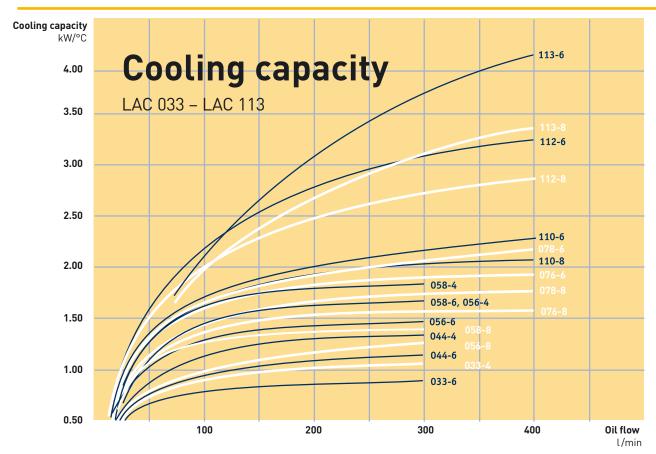


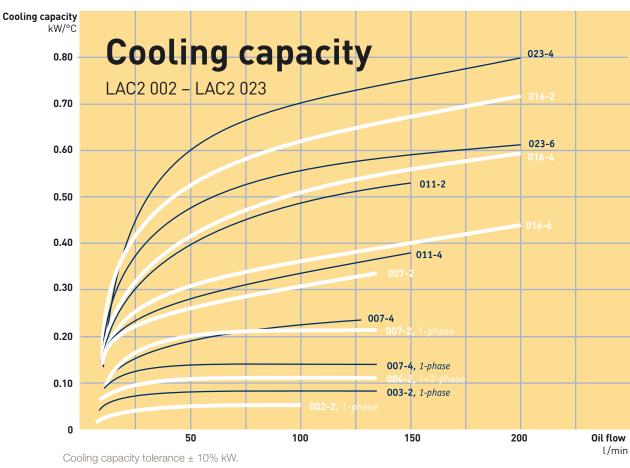


The cooling capacity curves are based on the inlet oil temperature and the ambient air temperature. An oil temperature of 60 °C and an air temperature of 20 °C produce a temperature difference of 40 °C. Multiply by kW/°C for total cooling capacity.

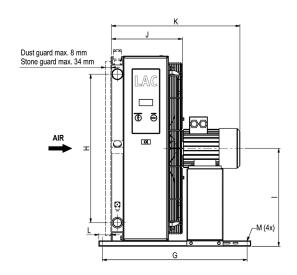








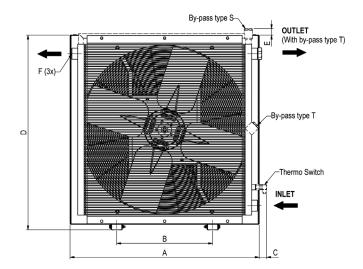




TYPE		Acoustic pressure level LpA dB(A) 1m*	No. of poles/ Capacity kW	Weight kg (approx)
LAC2	002-2-single-phase	50	2-0.05	4
LAC2	003-2-single-phase	61	2-0.05	5
LAC2	004-2-single-phase	63	2-0.07	6
LAC2	004-2-single-phase	63	2-0.07	6
LAC2	007-4-single-phase	65	2-0.08	9
LAC2	007-2-single-phase	79	2-0.24	10
LAC2	007-4-three-phase	62	4-0.25	15
LAC2	007-2-three-phase	79	2-0.55	16
LAC2	011-4-three-phase	67	4-0.25	20
LAC2	011-2-three-phase	82	2-1.10	25
LAC2	016-6-three-phase	60	6-0.18	23
LAC2	016-4-three-phase	70	4-0.37	24
LAC2	016-2-three-phase	86	2-1.10	27
LAC2	023-6-three-phase	64	6-0.18	35
LAC2	023-4-three-phase	76	4-0.75	36
LAC	033-6-three-phase	74	6-0.55	45
LAC	033-4-three-phase	84	4-2.20	52
LAC	044-6-three-phase	76	6-0.55	63
LAC	044-4-three-phase	85	4-2.20	65
LAC	056-8-three-phase	73	8-0.75	73
LAC	056-6-three-phase	81	6-1.50	75
LAC	056-4-three-phase	84	4-3.0	75
LAC	058-8-three-phase	74	8-0.75	80
LAC	058-6-three-phase	82	6-1.50	82
LAC	058-4-three-phase	85	4-3.0	82
LAC	076-8-three-phase	79	8-1.10	130
LAC	076-6-three-phase	86	6-2.20	140
LAC	078-8-three-phase	80	8-1.10	136
LAC	078-6-three-phase	87	6-2.20	146
LAC	110-8-three-phase	84	8-2.20	160
LAC	110-6-three-phase	90	6-5.50	170
LAC	112-8-three-phase	85	8-2.20	168
LAC	112-6-three-phase	91	6-5.50	178
LAC	113-8-three-phase	80	8-2.20	218
LAC	113-6-three-phase	88	6-5.50	237

 $^{^*}$ = Noise level tolerance \pm 3 dB(A).





OUTLET (With by-pass type S)

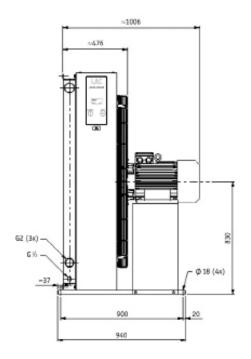
LAC2 004-4-single-phase 267 134 82 256 69 G1 148 90 131 165 222 28 9x1 LAC2 004-2-single-phase 267 134 82 256 69 G1 148 90 131 165 222 28 9x1 LAC2 007-4-single-phase 340 203 77 345 54 G1 267 160 175 189 249 49 9x1 LAC2 007-2-single-phase 365 203 64 395 42 G1 510 160 175 189 249 49 9x1 LAC2 007-4-three-phase 365 203 64 395 42 G1 510 160 213 225 429 50 9 LAC2 007-4-three-phase 365 203 64 395 42 G1 510 160 213 225 429 50 9 LAC2 007-2-three-phase 440 203 62 470 41 G1 510 230 250 249 453 50 9 LAC2 011-4-three-phase 440 203 62 470 41 G1 510 230 250 249 475 50 9 LAC2 016-6-three-phase 496 203 66 526 46 G1 510 230 278 272 474 50 9 LAC2 016-4-three-phase 496 203 66 526 46 G1 510 230 278 272 474 50 9 LAC2 016-2-three-phase 496 203 66 526 46 G1 510 230 278 272 479 50 9 LAC2 023-6-three-phase 580 356 63 610 44 G1 510 305 320 287 489 50 9 LAC2 023-4-three-phase 580 356 63 610 44 G1 510 305 320 287 511 50 9 LAC 023-4-three-phase 692 356 53 722 42 G11/4 510 406 376 318 541 50 9 LAC 033-4-three-phase 692 356 53 866 59 G11/4 510 584 448 343 543 50 9 LAC 044-4-three-phase 692 356 53 866 59 G11/4 510 584 448 343 643 50 9 LAC 044-6-three-phase 692 356 53 866 59 G11/4 510 584 448 343 643 50 9 LAC 056-6-three-phase 692 356 53 866 59 G11/4 510 584 448 343 643 50 9 LAC 056-6-three-phase 868 508 49 898 43 G11/4 510 584 448 343 643 50 9 LAC 056-6-three-phase 868 508 49 898 43 G11/4 510 584 448 343 643 50 9	TYPE		Α	В	С	D	E	F	G	Н	1	J	K	L	Mø
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LAC2 004-2-single-phase	LAC2	003-2-single-phase	244	134	82	223	71	G1	148	90	114	161	218	31	9x14
LAC2	LAC2	004-4-single-phase	267	134	82	256	69	G1	148	90	131	165	222	28	9x14
LAC2	LAC2	004-2-single-phase	267	134	82	256	69	G1	148	90	131	165	222	28	9x14
LAC2 007-4-three-phase 365 203 64 395 42 G1 510 160 213 225 429 50 9 LAC2 007-2-three-phase 365 203 64 395 42 G1 510 160 213 225 434 50 9 LAC2 011-4-three-phase 440 203 62 470 41 G1 510 230 250 249 453 50 9 LAC2 011-2-three-phase 440 203 62 470 41 G1 510 230 250 249 475 50 9 LAC2 016-6-three-phase 496 203 66 526 46 G1 510 230 278 272 474 50 9 LAC2 016-4-three-phase 496 203 66 526 46 G1 510 230 278 272 474 50 9 LAC2 016-2-three-phase 496 203 66 526 46 G1 510 230 278 272 479 50 9 LAC2 016-2-three-phase 496 203 66 526 46 G1 510 230 278 272 479 50 9 LAC2 016-2-three-phase 580 356 63 610 44 G1 510 305 320 287 489 50 9 LAC2 023-6-three-phase 580 356 63 610 44 G1 510 305 320 287 489 50 9 LAC2 023-6-three-phase 692 356 53 722 42 G114 510 406 376 318 534 50 9 LAC 033-4-three-phase 692 356 53 722 42 G114 510 406 376 318 534 50 9 LAC 033-4-three-phase 692 356 53 866 59 G114 510 584 448 343 559 50 9 LAC 044-6-three-phase 692 356 53 866 59 G114 510 584 448 343 643 50 9 LAC 044-4-three-phase 868 356 49 898 43 G114 510 584 448 343 643 50 9 LAC 056-8-three-phase 868 508 49 898 43 G114 510 584 464 368 668 50 9 LAC 056-8-three-phase 868 508 49 898 43 G114 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G1 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G1 510 584 464 388 682 30 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-8-three-phase 1022 518 41 1052 45 G1 1/2 800 821 541 373 50 14 LAC 076-8-three-phase 1022 518 41 1052 45 G2 800 821 541 3	LAC2	007-4-single-phase	340	203	77	345	54	G1	267	160	175	189	249	49	9x14
LAC2 007-2-three-phase 365 203 64 395 42 G1 510 160 213 225 434 50 9 LAC2 011-4-three-phase 440 203 62 470 41 G1 510 230 250 249 453 50 9 LAC2 011-2-three-phase 440 203 66 526 46 G1 510 230 250 249 475 50 9 LAC2 016-6-three-phase 496 203 66 526 46 G1 510 230 278 272 476 50 9 LAC2 016-4-three-phase 496 203 66 526 46 G1 510 302 287 272 496 50 9 LAC2 023-6-three-phase 580 356 63 610 44 G1 510 305 320 287 498 50 9 </td <td>LAC2</td> <td>007-2-single-phase</td> <td>340</td> <td>203</td> <td>77</td> <td>345</td> <td>54</td> <td>G1</td> <td>267</td> <td>160</td> <td>175</td> <td>189</td> <td>249</td> <td>49</td> <td>9x14</td>	LAC2	007-2-single-phase	340	203	77	345	54	G1	267	160	175	189	249	49	9x14
LAC2 011-4-three-phase 440 203 62 470 41 G1 510 230 250 249 453 50 9 LAC2 011-2-three-phase 440 203 62 470 41 G1 510 230 250 249 475 50 9 LAC2 016-6-three-phase 496 203 66 526 46 G1 510 230 278 272 474 50 9 LAC2 016-2-three-phase 496 203 66 526 46 G1 510 230 278 272 479 50 9 LAC2 016-2-three-phase 496 203 66 526 46 G1 510 230 278 272 479 50 9 LAC2 023-6-three-phase 580 356 63 610 44 G1 510 305 320 287 415 50 9 LAC 033-4-three-phase 692 356 53 722 42	LAC2	007-4-three-phase	365	203	64	395	42	G1	510	160	213	225	429	50	9
LAC2 011-2-three-phase 440 203 62 470 41 G1 510 230 250 249 475 50 9 LAC2 016-6-three-phase 496 203 66 526 46 G1 510 230 278 272 474 50 9 LAC2 016-4-three-phase 496 203 66 526 46 G1 510 230 278 272 479 50 9 LAC2 016-2-three-phase 496 203 66 526 46 G1 510 230 278 272 496 50 9 LAC2 023-d-three-phase 580 356 63 610 44 G1 510 305 320 287 511 50 9 LAC 023-d-three-phase 692 356 53 722 42 G114 510 406 376 318 618 50 9 LAC 044-fitree-phase 692 356 53 866 59	LAC2	007-2-three-phase	365	203	64	395	42	G1	510	160	213	225	434	50	9
LAC2 016-6-three-phase 496 203 66 526 46 G1 510 230 278 272 474 50 9 LAC2 016-4-three-phase 496 203 66 526 46 G1 510 230 278 272 479 50 9 LAC2 016-2-three-phase 496 203 66 526 46 G1 510 230 278 272 496 50 9 LAC2 023-6-three-phase 580 356 63 610 44 G1 510 305 320 287 489 50 9 LAC 033-6-three-phase 692 356 53 722 42 G11/4 510 406 376 318 534 50 9 LAC 033-4-three-phase 692 356 53 762 42 G11/4 510 406 376 318 618 50 9 LAC 044-4-three-phase 692 356 53 866 59 <td>LAC2</td> <td>011-4-three-phase</td> <td>440</td> <td>203</td> <td>62</td> <td>470</td> <td>41</td> <td>G1</td> <td>510</td> <td>230</td> <td>250</td> <td>249</td> <td>453</td> <td>50</td> <td>9</td>	LAC2	011-4-three-phase	440	203	62	470	41	G1	510	230	250	249	453	50	9
LAC2 016-4-three-phase 496 203 66 526 46 G1 510 230 278 272 479 50 9 LAC2 016-2-three-phase 496 203 66 526 46 G1 510 230 278 272 496 50 9 LAC2 023-6-three-phase 580 356 63 610 44 G1 510 305 320 287 489 50 9 LAC 023-4-three-phase 692 356 53 722 42 G11/4 510 406 376 318 534 50 9 LAC 033-6-three-phase 692 356 53 722 42 G11/4 510 406 376 318 618 50 9 LAC 034-6-three-phase 692 356 53 866 59 G11/4 510 406 376 318 618 50 9 LAC 044-6-three-phase 692 356 53 866 59 </td <td>LAC2</td> <td>011-2-three-phase</td> <td>440</td> <td>203</td> <td>62</td> <td>470</td> <td>41</td> <td>G1</td> <td>510</td> <td>230</td> <td>250</td> <td>249</td> <td>475</td> <td>50</td> <td>9</td>	LAC2	011-2-three-phase	440	203	62	470	41	G1	510	230	250	249	475	50	9
LAC2 016-2-three-phase 496 203 66 526 46 G1 510 230 278 272 496 50 9 LAC2 023-6-three-phase 580 356 63 610 44 G1 510 305 320 287 489 50 9 LAC 023-4-three-phase 580 356 63 610 44 G1 510 305 320 287 511 50 9 LAC 033-6-three-phase 692 356 53 722 42 G114 510 406 376 318 534 50 9 LAC 033-4-three-phase 692 356 53 722 42 G114 510 406 376 318 618 50 9 LAC 044-6-three-phase 692 356 53 866 59 G114 510 584 448 343 559 50 9 LAC 056-8-three-phase 868 356 49 898 43	LAC2	016-6-three-phase	496	203	66	526	46	G1	510	230	278	272	474	50	9
LAC2 023-6-three-phase 580 356 63 610 44 G1 510 305 320 287 489 50 9 LAC2 023-4-three-phase 580 356 63 610 44 G1 510 305 320 287 511 50 9 LAC 033-6-three-phase 692 356 53 722 42 G1¼ 510 406 376 318 534 50 9 LAC 033-4-three-phase 692 356 53 722 42 G1¼ 510 406 376 318 618 50 9 LAC 044-6-three-phase 692 356 53 866 59 G1¼ 510 584 448 343 559 50 9 LAC 044-4-three-phase 692 356 53 866 59 G1¼ 510 584 448 343 559 50 9 LAC 044-4-three-phase 692 356 53 866 59 G1¼ 510 584 448 343 643 50 9 LAC 056-8-three-phase 868 356 49 898 43 G1¼ 510 584 448 343 643 50 9 LAC 056-6-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 056-4-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 056-4-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G1½ 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 652 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 144 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 144 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 144 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 144 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438	LAC2	016-4-three-phase	496	203	66	526	46	G1	510	230	278	272	479	50	9
LAC2 023-4-three-phase	LAC2	016-2-three-phase	496	203	66	526	46	G1	510	230	278	272	496	50	9
LAC 033-6-three-phase 692 356 53 722 42 G1¼ 510 406 376 318 534 50 9 LAC 033-4-three-phase 692 356 53 722 42 G1¼ 510 406 376 318 618 50 9 LAC 044-6-three-phase 692 356 53 866 59 G1¼ 510 584 448 343 559 50 9 LAC 044-4-three-phase 692 356 53 866 59 G1¼ 510 584 448 343 643 50 9 LAC 056-8-three-phase 868 356 49 898 43 G1¼ 510 584 448 343 643 50 9 LAC 056-6-three-phase 868 508 49 898 43 G1¼ 510 584 448 343 643 50 9 LAC 056-6-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 056-4-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G1¼ 510 584 464 388 662 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 076-8-three-phase 868 508 49 898 43 G2 510 584 464 388 688 30 9 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14	LAC2	023-6-three-phase	580	356	63	610	44	G1	510	305	320	287	489	50	9
LAC 033-4-three-phase 692 356 53 722 42 G1¼ 510 406 376 318 618 50 9 LAC 044-6-three-phase 692 356 53 866 59 G1¼ 510 584 448 343 559 50 9 LAC 044-4-three-phase 692 356 53 866 59 G1¼ 510 584 448 343 643 50 9 LAC 056-8-three-phase 868 356 49 898 43 G1¼ 510 584 448 343 643 50 9 LAC 056-6-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 056-4-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 056-4-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 652 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-6-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-p	LAC2	023-4-three-phase	580	356	63	610	44	G1	510	305	320	287	511	50	9
LAC 044-6-three-phase 692 356 53 866 59 G1¼ 510 584 448 343 559 50 9 LAC 044-4-three-phase 692 356 53 866 59 G1¼ 510 584 448 343 643 50 9 LAC 056-8-three-phase 868 356 49 898 43 G1¼ 510 584 448 343 643 50 9 LAC 056-6-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 056-4-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 652 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-6-three-phase 1022 518 41 1052 45 G2 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-t	LAC	033-6-three-phase	692	356	53	722	42	G11/4	510	406	376	318	534	50	9
LAC 044-4-three-phase 692 356 53 866 59 G1¼ 510 584 448 343 643 50 9 LAC 056-8-three-phase 868 356 49 898 43 G1¼ 510 584 448 343 643 50 9 LAC 056-6-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 056-4-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 652 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 688 30 9 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-6-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-	LAC	033-4-three-phase	692	356	53	722	42	G11/4	510	406	376	318	618	50	9
LAC 056-8-three-phase 868 356 49 898 43 G1¼ 510 584 448 343 643 50 9 LAC 056-6-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 056-4-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 652 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 688 30 9 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-6-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 11	LAC	044-6-three-phase	692	356	53	866	59	G11/4	510	584	448	343	559	50	9
LAC 056-6-three-phase 868 508 49 898 43 G1½ 510 584 464 368 668 50 9 LAC 056-4-three-phase 868 508 49 898 43 G1½ 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 652 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-6-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 L	LAC	044-4-three-phase	692	356	53	866	59	G11/4	510	584	448	343	643	50	9
LAC 056-4-three-phase 868 508 49 898 43 G1¼ 510 584 464 368 668 50 9 LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 652 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-6-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50	LAC	056-8-three-phase	868	356	49	898	43	G11/4	510	584	448	343	643	50	9
LAC 058-8-three-phase 868 508 49 898 43 G2 510 584 464 388 652 30 9 LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 688 30 9 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-6-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 371 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 1	LAC	056-6-three-phase	868	508	49	898	43	G11/4	510	584	464	368	668	50	9
LAC 058-6-three-phase 868 508 49 898 43 G2 510 584 464 388 682 30 9 LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 688 30 9 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-6-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 393 710 70 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14	LAC	056-4-three-phase	868	508	49	898	43	G11/4	510	584	464	368	668	50	9
LAC 058-4-three-phase 868 508 49 898 43 G2 510 584 464 388 688 30 9 LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-6-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14	LAC	058-8-three-phase	868	508	49	898	43	G2	510	584	464	388	652	30	9
LAC 076-8-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 693 70 14 LAC 076-6-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14	LAC	058-6-three-phase	868	508	49	898	43	G2	510	584	464	388	682	30	9
LAC 076-6-three-phase 1022 518 41 1052 45 G1½ 800 821 541 393 710 70 14 LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14	LAC	058-4-three-phase	868	508	49	898	43	G2	510	584	464	388	688	30	9
LAC 078-8-three-phase 1022 518 41 1052 45 G2 800 821 541 413 713 50 14 LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14	LAC	076-8-three-phase	1022	518	41	1052	45	G1½	800	821	541	393	693	70	14
LAC 078-6-three-phase 1022 518 41 1052 45 G2 800 821 541 413 730 50 14 LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14	LAC	076-6-three-phase	1022	518	41	1052	45	G1½	800	821	541	393	710	70	14
LAC 110-8-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 110-6-three-phase 1185 600 54 1215 45 G2 800 985 623 418 785 70 14 LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14	LAC	078-8-three-phase	1022	518	41	1052	45	G2	800	821	541	413	713	50	14
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LAC 112-8-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14	LAC	110-8-three-phase	1185	600	54	1215	45	G2	800	985	623	418	785	70	14
	LAC	110-6-three-phase	1185	600	54	1215	45	G2	800	985	623	418	785	70	14
LAC 112-6-three-phase 1185 600 54 1215 45 G2 800 985 623 438 805 50 14	LAC	112-8-three-phase	1185	600	54	1215	45	G2	800	985	623	438	805	50	14
	LAC	112-6-three-phase	1185	600	54	1215	45	G2	800	985	623	438	805	50	14
LAC 113-8-three-phase 1200 600 82 1215 45 G2 860 985 623 465 833 82 14	LAC	113-8-three-phase	1200	600	82	1215	45	G2	860	985	623	465	833	82	14
LAC 113-6-three-phase 1200 600 82 1215 45 G2 860 985 623 465 871 82 14	LAC	113-6-three-phase	1200	600	82	1215	45	G2	860	985	623	465	871	82	14

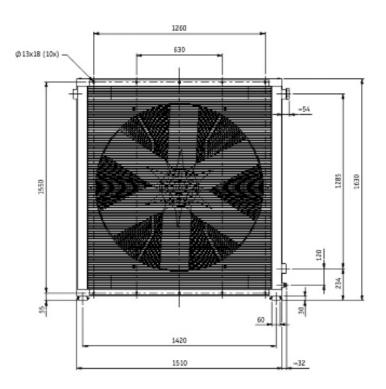




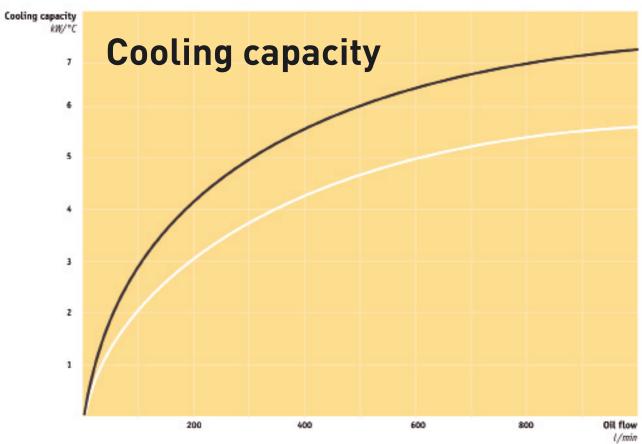
Туре	Acoustics pressure level Lp ^A dB(A) 1m*	No. of poles/ Capacity kW	Weight kg (approx)
LAC 200-6	92	6-11.0	405
LAC 200-8	86	8-4.0	365

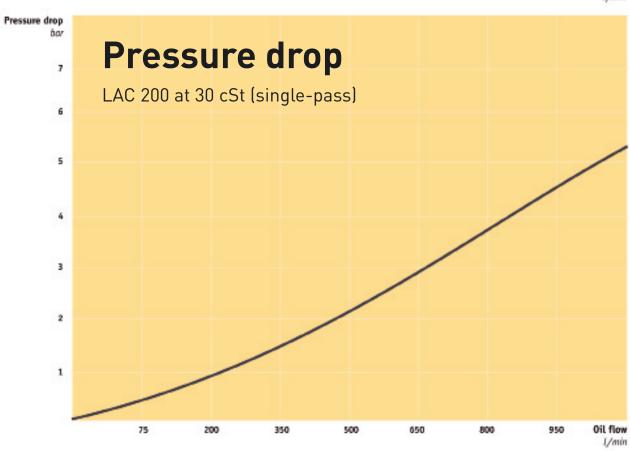
 * = Noise level tolerance \pm 3 dB(A)





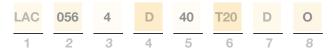








Code Key



1	Туре	LAC, LAC2				
2	Cooler Size	004, 007, 011, 016, 023, 033, 044, 056, 058, 078, 112, 113	3, 200			
3	Number of Poles / Motor	2, 4, 6, 8	2, 4, 6, 8			
		0: no motor,				
	Voltage and Frequency	A: 230/400V 50Hz,				
4		B: 460V alt 480V 60Hz, C: Single Phase 230V 50Hz (not IE2)),			
		D:230/400V 50Hz 460 alt, 480 V 60 Hz,				
		E: 500V 50Hz (not standard),				
		F: 400/690V 50Hz 460 alt 480V 60Hz,				
		G: 525V 50Hz, 575V 60Hz, 575V 60Hz,				
		X: Motor for special voltage or frequency (stated in plain lange	uage)			
		00: no contact				
		40: 40°C				
		50: 50°C				
5	Thermo Contact	60: 60°C				
		70: 70°C				
		80: 80°C				
		90: 90°C				
		000: Standard,				
		T00: Two-pass				
		Built in, pressure-controlled bypass, single pass				
		S20: 2 bar S50: 5 bar				
		S80: 8 bar				
		Built-in, pressure-controlled bypass, two-pass				
		T20: 2 bar				
	Cooler Matrix	T50: 5 bar				
6		T80: 8 bar,				
		Built-in temperature and pressure-controlled bypass, s	ingle-pass			
		S25: 50°C, 2.2 bar S26: 60°C, 2.2 bar				
		S27: 70°C, 2.2 bar				
		S29: 90°C, 2.2 bar				
		Built-in temperature and pressure-controlled bypass, to	wo-pass			
		T25: 50°C, 2.2. bar				
		T26: 60°C, 2.2. bar				
		T27: 70°C, 2.2. bar T29: 90°C, 2.2 bar				
		0: no guard,				
		S: stone guard,				
7	Matrix Guard	D: dust guard,				
		P: dust guard, P: dust and stone guard	■ 回続終終回 ■			
8	Standard / Special	O: standard, Z: special				
٥	Standard / Special	Ο. διαπυαιά, Δ. δρ ο υίαι				

Technical Specifications

Fluid Combinations			
Mineral Oil HL/HLP in accordance with DIN 515			
Oil / water emulsion	HFA, HFB in accordance with CETOP RP 77H		
Water glycol	HFC in accordance with CETOP RP 77H		
Phosphate ester	HFD-R in accordance with CETOP RP 77H		

Material					
Cooler matrix	Aluminium				
Fan blades / hub	Glass fibre reinforced polypropylene / Aluminium				
Fan housing	Steel				
Fan guard	Steel				
Other parts	Steel				
Surface treatment	Electrostatically powder-coated				

Technical Data, Cooler Matrix			
Maximum static operating pressure	21 bar		
Dynamic operating pressure	14 bar		
Heat transfer limit	+- 6%		
Maximum oil inlet temperature	120°C		

Technical Data for 1-Phase Motor	
Insulation class	В
Rise of temperature	В
Protection class	IP 44

Technical Data for 3-Phase Motor					
3-phase asynchronous motors in accordance with IEC 34-1 and IEC 72 in accordance with DIN 67530/VDE 0530 $$					
Insulation class F					
Rise of temperature B					
Protection class	IP 55				

Technical Data for 3-Phase Motor LAC2 004					
Rated voltage	230 / 400 V - 50 / 60 Hz				
Insulation class	В				
Rise of temperature	В				
Protection class	IP 44				

Cooling Capacity Curve

The cooling capacity curves in this technical data sheet are based on tests in accordance with EN 1048 and have been produced in oil type ISO VG 46 at 60°C.

Contact Parker Hannifin for Advice on

Oil temperatures > 120°C / Oil viscosity > 100 cSt



Take the Next Step

- choose the right accessories

With our specialist expertise, industry knowledge and advanced technology, we can offer a range of different solutions for coolers and accessories to meet your requirements.

Supplementing a hydraulic system with a cooler, cooler accessories and an accumulator gives you increased availability and a longer useful life, as well as lower service and repair costs.

All applications and operating environments are unique. A wellplanned choice of the following accessories can thus further improve your hydraulic system.

Please contact Parker Hannifin for guidance and information.







Lifting eyes included as standard
For safe and simple handling
during installation and
relocation - only used for
installation and maintenance



Stone guard/Dust guard
In dirty environments a dust guard
prevents the matrix from getting
clogged by medium and large size
particles or chips and allows easier
maintenance. The Stone guard
protects the matrix from damage
by projectiles. When shielded,
the cooler is protected in the
toughest conditions and the risk
of unscheduled maintenance is
reduced to a minimum.



Thermo contact
Sensor with fixed set point,
for temperature warnings.
Can be used for more costefficient operation and better
environmental consideration
through the automatic control
of the fan motor, either on or
off.



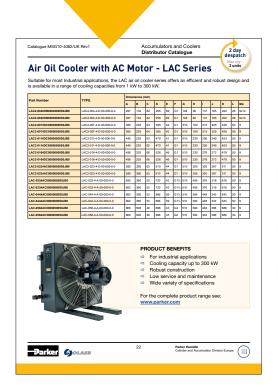
Temperature-controlled bypass valve Integrated Allows the oil to bypass the cooler matrix if the pressure drop is higher than 2,2 bar or less than the chosen temperature. The bypass closes when the oil temperature increases. Different closing temperatures available. Available for singlepass or two-pass matrix design





Check out Parker's Fast Track Programme

includes many options for LAC coolers





https://discover.parker.com/FastTrackCADE



WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

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