

ExpertAire R-410A LC Series Dehumidifiers

□ EFFECTIVE HUMIDITY CONTROL □ WIDE AMBIENT RANGE □ SELF-CONTAINED SYSTEM □ AIR CONDITIONING OPTION

Data Sheet for Models LC 08-15

SYSTEM SUMMARY

Desert Aire's ExpertAire dehumidifiers have many options to insure that they meet the requirements of each specific jobsite. This flexibility has a significant impact on the specifications of each unit, therefore details must be provided after the system is defined using customer requirements such as power, duct static pressure and unit configuration. The ratings below provide a guide to the systems specifications and should not be relied upon for submittal data. Desert Aire or its sales representative will provide a detail submittal for each jobsite including details on connection sizes, electrical ratings and capacities.

The LC Series dehumidifiers use 410A refrigerant. The performance below are based on the nominal air volumes listed and rated at the conditions specified in AHRI Standard 910, Performance rating of indoor pool dehumidifiers.

For units with remote condensers, please consult the submittal for details on line set sizing as they are impacted by horizontal and vertical distance between the dehumidifier and the remote condenser.

SYSTEM SPECIFICATIONS

MODEL	LC 08	LC 08 Tand.	LC 10	LC 10 Tand.	LC 12	LC 15
Moisture Removal Capacity (MRC) lbs./hr.*	39.2	45.0	51.2	TBD	55.6	77.7
Moisture Removal Efficiency (MRE)*	4.7	4.5	4.5	TBD	4.1	4.1
Moisture Removal Capacity (MRC) lbs./hr.**	39.2	45.0	51.2	TBD	55.6	77.7
Moisture Removal Efficiency (MRE)**	4.6	4.4	4.4	TBD	4.1	4.1
Total Cooling Capacity MBH*	100.3	110.5	127.0	TBD	149.8	187.2
Sensible Cooling Capacity MBH*	58.7	62.8	72.7	TBD	90.8	104.9
Maximum Outdoor Air (cfm)*	1,400	1,400	1,600	TBD	2,100	4,000
Supply Air Volume (cfm)	3,500	3,500	4,100	TBD	5,500	8,000
Approx. Power Consumption - kW* Std Eff Motors	8.3	10.0	11.4	TBD	13.6	19.0
BLOWER - Std. or Premium efficiency Motor available						
HP @ 1.0" ESP	3.0	3.0	3.0	TBD	5.0	7.5
COMPRESSOR						
Nominal Tonnage	8	8	10	10	12	15
OPTIONAL FEATURES						
Pool Water (Full heating)						
Water Heating Capacity - MBH*	124.3	136.6	158.3	TBD	185.3	234.4
Water Inlet/Outlet Size CPVC SCH 80	1-1/4	1-1/4	1-1/4	TBD	1-1/2	1-1/2
Water Flow - GPM ◆	16	16	20	TBD	24	30
Pressure Drop - ft. W.C. ‡	9.0	9.0	5.7	TBD	7.4	5.7
Pool Water (Partial Heating)						
Water Heating Capacity - MBH*	75.7	75.7	75.7	TBD	79.3	111.1
Water Inlet / Outlet Size CPVC SCH 80	1	1	1	TBD	1	1
Water Flow - GPM ◆	8	8	8	TBD	8	12
Pressure Drop - ft. W.C. ‡	3.0	3.0	3.0	TBD	4.8	5.5
REMOTE CONDENSER						
RC - Hot Gas Line Size (in.) @ 50 ft. Max. Length	1-1/8	1-1/8	1-1/8	TBD	1-1/8	1-1/8
RC- Liquid Line Size (in.) @ 50 ft. Max. Length	5/8	5/8	5/8	TBD	5/8	5/8

Specifications are subject to slight changes without notice.

* AHRI Standard 910 ratings at 82°F/60% RH in air cooling mode. (95°F ambient)

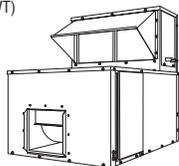
** AHRI Standard 910 ratings at 82°F/60% RH in water cooling mode. (85°F EWT)

‡ To convert ft. W.C. to PSI, divide by 2.31.

◆ Rated GPM at recommended max water temperature of 90°F for pools.

• Single phase for LC models 01-05.

3 phase for LC 06 model only.



N120 W18485 Freistadt Road, Germantown, WI 53022

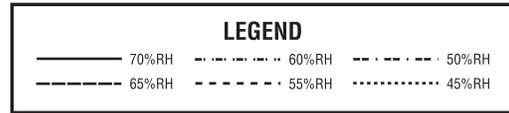
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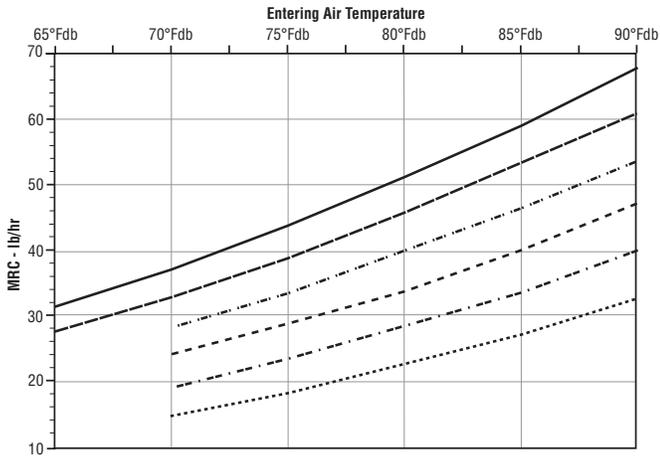


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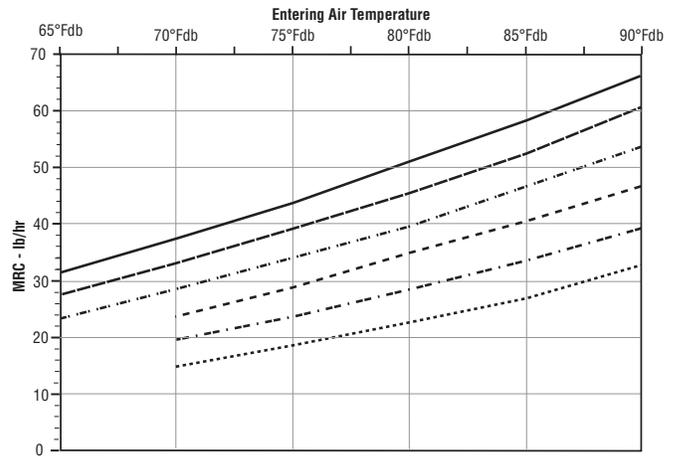
PERFORMANCE - Moisture Removal Capacity



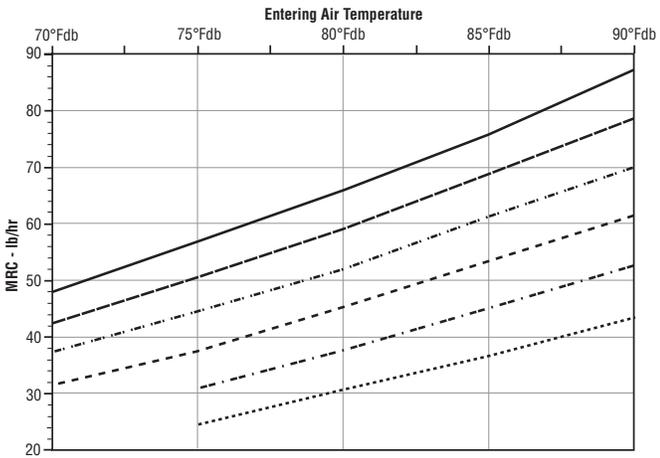
LC08 R-410A - 3 phase units



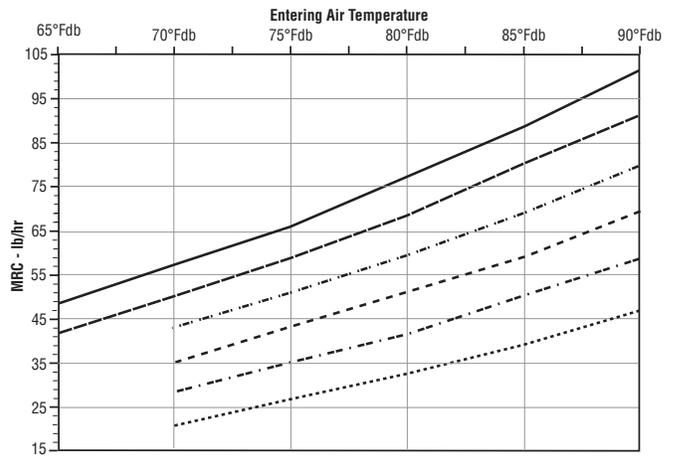
LC08 Tandem R-410A - 1 phase units



LC10 R-410A - 3 phase units



LC12 R-410A - 3 phase units



LC15 R-410A - 3 phase units

