

# ExpertAire R-410A LC Series Dehumidifiers

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

## Data Sheet for Models LC 01-06

### 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 01	LC 02	LC 03	LC 04	LC 05	LC 06
Moisture Removal Capacity (MRC) lbs./hr.*	7.0	10.4	18.0	25.1	29.8	38.2
Moisture Removal Efficiency (MRE)*	4.0	4.6	4.6	4.7	4.9	4.5
Moisture Removal Capacity (MRC) lbs./hr.**	7.0	10.4	18.0	25.1	29.8	38.2
Moisture Removal Efficiency (MRE)**	3.6	4.3	4.4	4.5	4.8	4.4
Total Cooling Capacity MBH*	19.2	26.6	43.4	60.9	73.7	95.5
Sensible Cooling Capacity MBH*	11.8	15.6	24.4	34.3	42.1	55.1
Maximum Outdoor Air (cfm)*	90	400	600	800	900	1,100
Supply Air Volume (cfm)	540	950	1,400	1,900	2,300	3,000
Approx. Power Consumption - kW* Stnd Eff Motors	1.8	2.3	3.9	5.3	6.1	8.5
<b>BLOWER - Std. or Premium efficiency Motor available</b>						
HP @ 0.5" ESP	0.75	0.5	1.0	1.0	1.0	1.5
<b>COMPRESSOR</b>						
Nominal Tonnage	1.25	2	3	4	5	6
<b>OPTIONAL FEATURES</b>						
<b>Pool Water Heating</b>						
Water Heating Capacity - MBH*	23.3	32.7	54.0	75.7	91.5	117.6
Water Inlet/Outlet Size CPVC SCH 80	1/2	1/2	3/4	1	1	1-1/4
Water Flow - GPM ◆	2	4	6	8	10	12
Pressure Drop - ft. W.C. ‡	5.5	6.9	5.3	6.1	5.7	9.2
<b>Pool Water Partial Heating</b>						
Water Heating Capacity - MBH*	12.2	12.2	24.2	24.2	56.3	56.3
Water Inlet / Outlet Size CPVC SCH 80	1/2	1/2	3/4	3/4	3/4	3/4
Water Flow - GPM ◆	1	1	2	2	5	5
Pressure Drop - ft. W.C. ‡	1.8	1.8	2.3	2.3	3.9	3.9
<b>REMOTE CONDENSER</b>						
RC - Hot Gas Line Size (in.) @ 50 ft. Max. Length	1/2	1/2	5/8	5/8	7/8	7/8
RC- Liquid Line Size (in.) @ 50 ft. Max. Length	1/2	1/2	1/2	1/2	1/2	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)

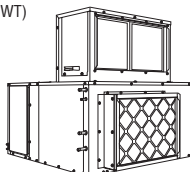
\*\* AHRI Standard 910 ratings at 82°F/60% RH in water cooling mode. (85°F EWT)

‡ 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.



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## PERFORMANCE - Moisture Removal Capacity

