DEHUMIDIFIER CORPORATION OF AMERICA

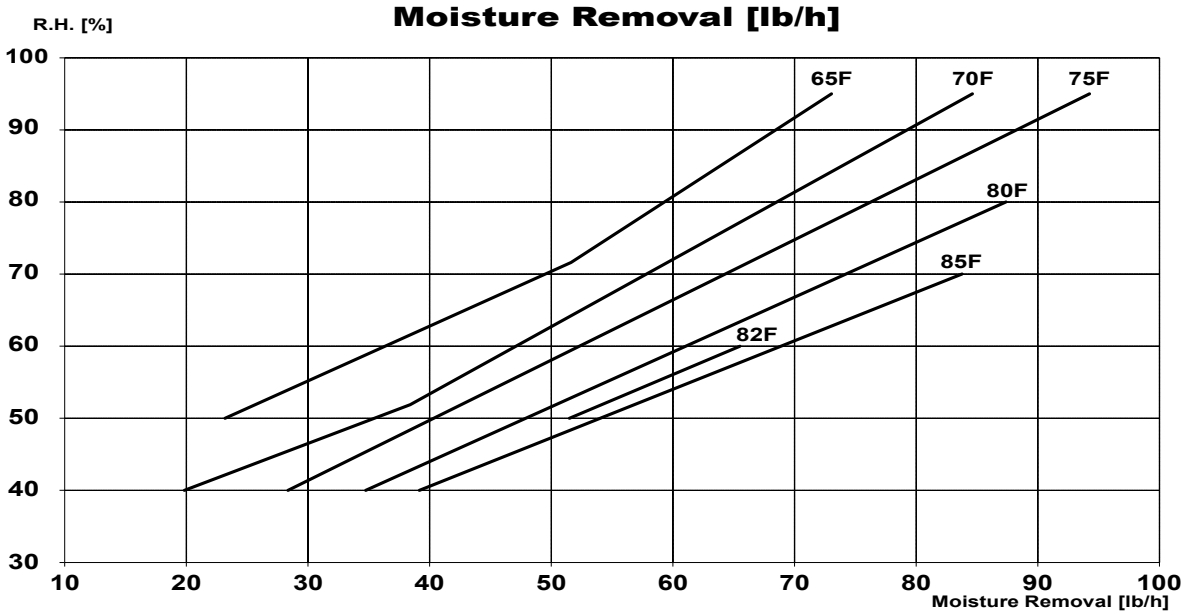
R-454B REFRIGERANT

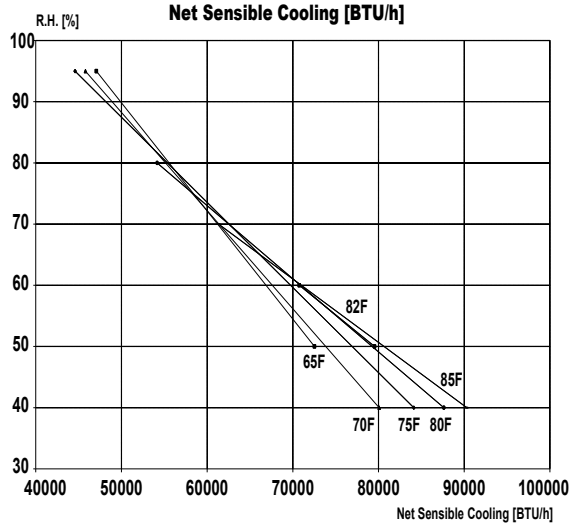
REFRIGERANT SAFETY GROUP A2L

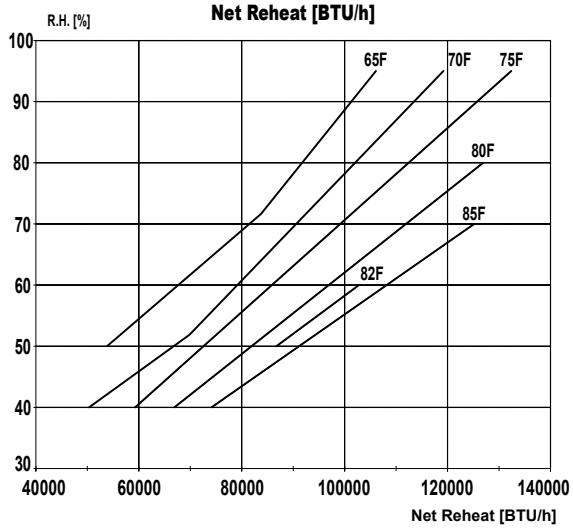
DCA 5500Y AIR COOLED - NON WATER HEATING DEHUMIDIFIER

DCA 5500YWH WATER HEATING ASSIST DEHUMIDIFIER

PERFORMANCE







Performance	82DB / 50% R.H.	82DB / 60% R.H.	Notes
Moisture Removal, LB/HR	51.5	65.5	1
Net Sensible Cooling, MBH	79.5	70.8	2
Net Reheat, MBH	86.8	102.8	3
Water Heating, MBH (Water Heating Models Only)	167.6	174.4	4

Notes:

1. Reheat mode assuming 1050 BTU/lb
2. Cooling mode with remote condenser at 95F.
3. Defined as sum of latent and compressor input. Use dehumidifier for supplemental heat only.
4. Assuming 85F entering water temperature.
5. For conditions and data not shown contact the factory

CAUTIONS: The reheat capacity rating includes latent recovery and heat of compression. It is recommended that dehumidifier be used for supplemental heat only. The cooling capacity is based on an ambient temperature of 95°F. As outside conditions vary, so will the performance of the dehumidifier. Ratings are subject to change without notice.

DCA 5500Y AIR COOLED - NON WATER HEATING DEHUMIDIFIER

DCA 5500YWH WATER HEATING ASSIST

DESIGN SPECIFICATIONS

Electrical	208/230V	460V	575V
Phase/Hz	3/60	3/60	3/60
Compressor B.T.U.	137,500	139,000	139,000
Compressor RLA	41.0	19.4	16.7
Compressor LRA	304	147	122
Blower Motor HP	5	5	5
Blower Motor FLA	14.0	6.7	5.0
Unit FLA	56.7	26.9	22.4
Maximum Fuse Size	90	45	35
Minimum Circuit Ampacity	67.0	31.8	26.6
Operating KW	14.72	14.53	14.29

CFM.....5500

External Static Pressure.....1.00" H_2O

Refrigerant.....R-454B (Factory Charged 65 lbs.)

Compressor Type.....Scroll

Filter (Quantity: 4).....20"x25"x1" Fiberglass

Drain Connection.....1" Bar Drain

DCA 5500Y Weight.....1360 lbs.

DCA 5500YWH Weight.....1640 lbs.

Liquid Inlet [inches O.D.] (up to 50')[1].....0.875

Hot Gas Outlet [inches O.D.] (up to 50')[1].....1.125

Water Inlet [inches O.D.].....1.625

Water Outlet [inches O.D.] 1.625

Water Flow G.P.M.[2] 21.0

Pressure Drop (Ft. WC)[2] 7.6

[1] Over 50ft contact factory

[2] Water Flow data based on 60% RH + Return Air 82°F and Pool Water at 85°F

STANDARD FEATURES

- Listed To UL 60335-2-40
- 3 Year Part Warranty
- Single Refrigeration Circuit
- Single Scroll Compressor
- Powder Coated, Galvannealed Steel Cabinet
- Low Ambient Head Pressure Control
- Remote Condenser Ready
- Rifle Tube Refrigeration Coils
- TEFC Blower Motor
- Stainless Steel Condensate Drain Pan
- Standard Microprocessor Control System
- Motorized Evaporator Bypass Damper
- ElectroFin Coated Coils

OPTIONAL FEATURES

- Right Side Component Service Access
- Top or Bottom Discharge (Not Field Convertible)
- Extended Surface Filters 2" & 4"
- Outdoor Installation Package
- Outdoor Make Up Air Assembly with Damper & Filter
- External Static Upgrade
- Water Cooled Condenser For Water Heating Or A/C Available
- Remote Ready Delete
- Defrost Timer Package
- Control Options
- Space Heating Options Available
- Other Options Available

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