DCA DEHUMIDIFIER CORPORATION OF AMERICA

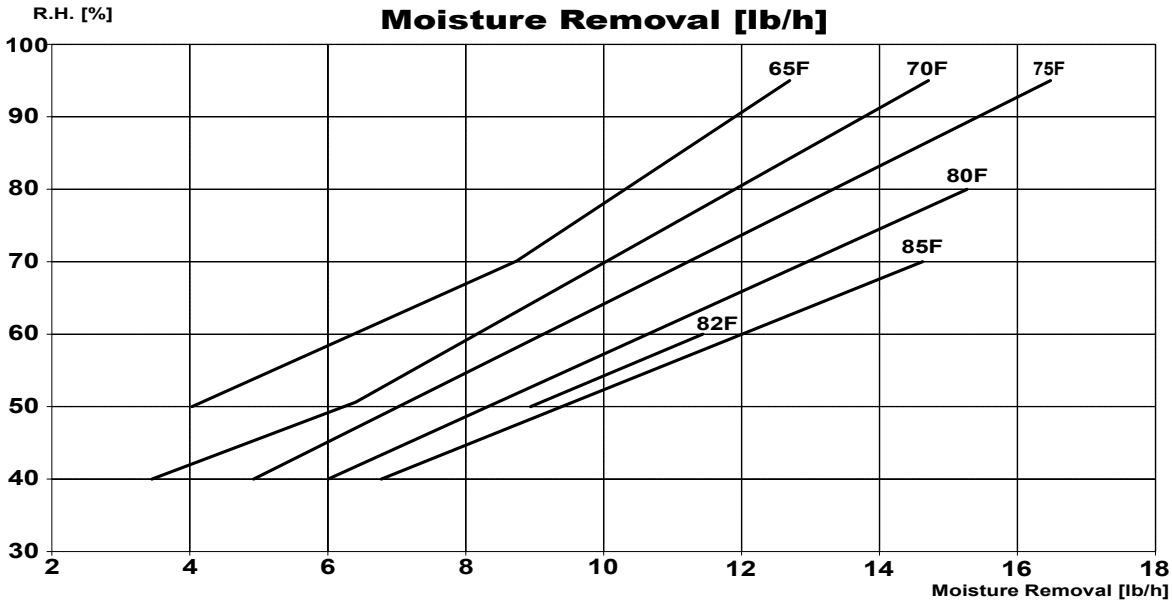
# R-454B REFRIGERANT
## REFRIGERANT SAFETY GROUP A2L

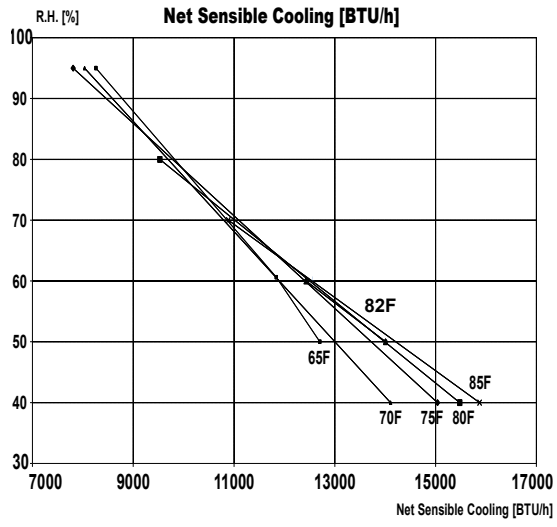
VERTICAL

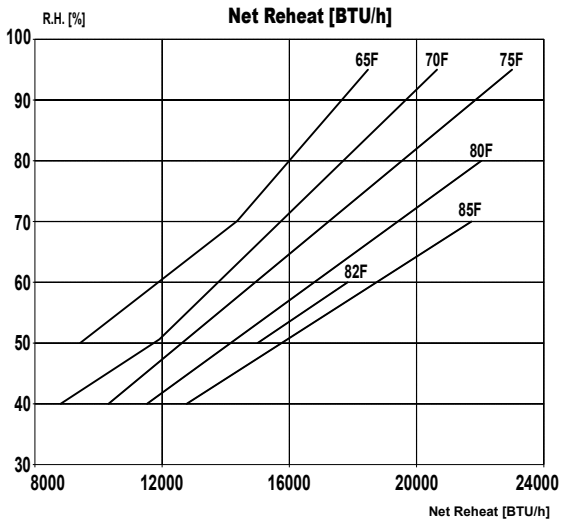
## DCA 900YV AIR COOLED - NON WATER HEATING DEHUMIDIFIER

## DCA 900YVWH WATER HEATING ASSIST DEHUMIDIFIER

## PERFORMANCE




| Performance | 82DB / 50% R.H. | 82DB / 60% R.H. | Notes |
|---|---|---|---|
| Moisture Removal, LB/HR | 8.9 | 11.4 | 1 |
| Net Sensible Cooling, MBH | 14.0 | 12.4 | 2 |
| Net Reheat, MBH | 15.0 | 17.8 | 3 |
| Water Heating, MBH (Water Heating Models Only) | 29.4 | 30.5 | 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 900YV AIR COOLED - NON WATER HEATING DEHUMIDIFIER**

**DCA 900YVWH WATER HEATING ASSIST**

## DESIGN SPECIFICATIONS

| Electrical | 208/230V | 208/230V | 460V |
|---|---|---|---|
| Phase/Hz | 1/60 | 3/60 | 3/60 |
| Compressor B.T.U. | 24,200 | 24,200 | 24,500 |
| Compressor RLA | 17.0 | 12.8 | 6.4 |
| Compressor LRA | 96.7 | 95 | 45 |
| Blower Motor HP | 1.0 | 1.0 | 1.0 |
| Blower Motor FLA | 6.5 | 3.1 | 1.5 |
| Unit FLA | 24.9 | 17.3 | 8.6 |
| Maximum Fuse Size | 40 | 30 | 15 |
| Minimum Circuit Ampacity | 29.2 | 20.5 | 10.2 |
| Operating KW | 3.06 | 2.85 | 2.82 |

| | |
|---|---|
| CFM | 950 |
| External Static Pressure | 1.00" $H_2O$ |
| Refrigerant | R-454B (Factory Charged 18 lbs.) |
| Compressor Type | Scroll |
| Filter (Quantity: 2) | 18" x 25" x 1" Fiberglass |
| Drain Connection | 1" Bar Drain |
| DCA 900YV Weight | 570 lbs. |
| DCA 900YVWH Weight | 650 lbs. |
| Liquid Inlet [inches O.D.] (up to 50')[1] | 0.375 |
| Hot Gas Outlet [inches O.D.] (up to 50')[1] | 0.625 |
| Water Inlet [inches O.D.] | 0.75 |
| Water Outlet [inches O.D.] | 0.75 |
| Water Flow G.P.M.[2] | 4.5 |
| Pressure Drop (Ft. WC)[2] | 10.1 |

[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 High Efficiency Blower Motor
- Stainless Steel Condensate Drain Pan
- Standard Microprocessor Control System
- ElectroFin Coated Coils

## OPTIONAL FEATURES

- Right Side Return Air
- Horizontal Discharge (Not Field Convertible)
- Extended Surface Filters 2" & 4"
- Outdoor Make Up Air Flange Opening (Damper & Filter by Others)
- External Static Upgrade
- Water Cooled Condenser For Water Heating Or A/C
- Motorized Evaporator Bypass Damper
- Remote Ready Delete
- Defrost Timer Package
- Control Options
- Space Heating Options Available
- Other Options Available

DEHUMIDIFIER CORPORATION OF AMERICA

www.dehumidifiercorp.com

W57 N14363 DOERR WAY, SUITE 6
P.O. BOX 917
CEDARBURG, WI 53012
PHONE: 262-377-7501
E-MAIL: info@dehumidifiercorp.com