


# Durachill

## Air Cooled 1.75 HP – 3 HP

MODEL		DCA180		DCA200		DCA300	
Compressor	Nom. HP	2		2		3	
		60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz
Cooling Capacity <sup>(1)</sup>	Tons	1.70	1.42	1.99	1.66	2.99	2.49
	Watts	6,000	5,000	7,000	5,833	10,500	8,750
	BTU/hr	20,460	17,050	23,885	19,904	35,827	29,856
Nominal Evaporator Flow <sup>(2)</sup>	USGPM / LPM	4.1 / 15.5	3.42 / 12.92	4.82 / 18.25	4.02 / 15.21	6.92 / 26.2	5.77 / 21.83
Pressure <sup>(3)</sup>	PSIG / KPA	35 / 241		7.5 / 51		14 / 96	
Pump Horse Power	H.P. / Watts	1 / 745		1/5 / 149		1/3 / 248	
Fan(s)	H.P. / Watts	1 @ 3/4 / 559		2 @ 1/6 / 123		2 @ 1/6 / 123	
Condenser Discharge Air Flow	CFM / CUM	1600 / 45		2470 / 69		2170 / 61	
Process Connections (To & From)	Inches	1		3/4		3/4	
Reservoir Tank Capacity	US gallons / Liters	3.5 / 13		7 / 26		7 / 26	
Dimensions (d x w x h)	Inches /	42 x 27 x 26.5		30.5 x 37 x 42		30.5 x 37 x 42	
	Centimeters	106.7 X 68.6 X 67.3		77.5 X 94 X 106.7		77.5 X 94 X 106.7	
Shipping Weight	LB / KG	440 / 199		570 / 258		580 / 263	
Ambient Temperature	F	60 F - 95 F		60 F - 95 F		60 F - 95 F	
	C	16 C - 35 C		16 C - 35 C		16 C - 35 C	
Temperature Range	F	41 F - 95 F		41 F - 95 F		41 F - 95 F	
	C	5 C - 35 C		5 C - 35 C		5 C - 35 C	
Temperature Stability	F	0.9 F		0.9 F		0.9 F	
	C	0.5 C		0.5 C		0.5 C	
Nominal Rated Amps (Volts/Phase/Hz)	460V/3/60	6.5		8.5		13.3	
	230V/3/60	12		14		26	
	230V/1/60	19		22		29	

NOTE: 1. Capacity based on 68 F (20 C) entering air, and leaving water 68 F. Allowance made for heat gain from pump.  
 2. Chiller flow rate based on 2.4 USGPM/ton (0.54m<sup>3</sup>/hr/ton).  
 3. Pumps: DCA150 - Positive Displacement; DCA200 and DCA300 – Magnetic Drive Centrifugal  
 4. Process flow less than 1.92 gpm per ton or greater than 3.6 gpm per ton may require a recirculation pump.

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[www.polyscience.com](http://www.polyscience.com) - Toll-Free 800-229-7569 - 847-647-0611 - fax 847-647-1155  
 email - [information@polyscience.com](mailto:information@polyscience.com)  
 6600 West Touhy Avenue, Niles IL 60714,

# Durachill

## Water Cooled 2 HP – 3 HP

MODEL		DCW200		DCW300	
Compressor	Nom. HP	2		3	
		60 Hz	50 Hz	60 Hz	50 Hz
Cooling Capacity <sup>(1)</sup>	Tons	2.02	1.68	3.11	2.59
	Watts	7,087	5,906	10,936	9,113
	BTU/hr	24,189	20,158	37,326	31,105
Nominal Evaporator Flow <sup>(2)</sup>	USGPM / LPM	4.84 / 18.32	4.03 / 15.27	7.46 / 28.24	6.22 / 23.53
Pressure <sup>(3)</sup>	PSIG / KPA	7.5 / 51		14 / 96	
Pump Horse Power	H.P. / Watts	1/5 / 149		1/3 / 248	
Water Condenser Flow-Tower Water	USGPM / LPM	6.05 / 22.9		9.33 / 35.3	
Water Condenser Connections	Inches	3/4		3/4	
Process Connections (To & From)	Inches	3/4		3/4	
Reservoir Tank Capacity	US gallons / Liter	7 / 26.5		7 / 26.5	
Dimensions (d x w x h)	Inches / Centimeters	30.5 x 37 x 42		30.5 x 37 x 42	
		77.5 X 94 X 106.7		77.5 X 94 X 106.7	
Shipping Weight	LB / KG	535 / 242		545 / 247	
Ambient Temperature	F	60 F - 95 F		60 F - 95 F	
	C	16 C - 35 C		16 C - 35 C	
Temperature Range	F	41 - 95 F		41 - 95 F	
	C	5 C - 35 C		5 C - 35 C	
Temperature Stability	F	0.9 F		0.9 F	
	C	0.5 C		0.5 C	
Nominal Rated Amps (Volts/Phase/Hz)	460V/3/60	7.6		11.7	
	230V/3/60	12.2		23.4	
	230V/1/60	-		-	

NOTE: 1. Tower flow rate based on 85 F (29 C) entering water, and 95 F (35 C) leaving water. Allowance made for heat gain from pump.  
 2. Chiller flow rate based on 2.4 USGPM/ton (0.54m<sup>3</sup>/hr/ton).  
 3. Pumps: DCA150 - Positive Displacement; DCA200 and DCA300 – Magnetic Drive Centrifugal  
 4. Process flow less than 1.92 gpm per ton or greater than 3.6 gpm per ton may require a recirculation pump.