


# Durachill

## Air Cooled 1 1/2 HP

MODEL		1 1/2 HP	
Compressor	Nom. HP	1.5	
		60 Hz	50 Hz
Cooling Capacity <sup>(1)</sup>	Tons	1.48	1.23
	Watts	5,200	4,333
	BTU/hr	17,732	14,777
Nominal Evaporator Flow <sup>(2)</sup>	USGPM / LPM	3.72 / 14.08	3.10 / 11.73
Pressure <sup>(3)</sup>	PSIG / KPA	60 / 413	
Pump Horse Power	H.P. / Watts	1/3 / 248	
Fan(s)	H.P. / Watts	1/6 / 123	
Condenser Discharge Air Flow	CFM / CUM	1070 / 30	
Process Connections (To & From)	Inches	1/2	
Reservoir Tank Capacity	US gallons / Liters	3.5 / 13.3	
Dimensions (d x w x h)	Inches /	30.5 x 19 x 26	
	Centimeters	77.5 X 48.3 X 66	
Shipping Weight	LB / KG	330 / 150	
Ambient Temperature	F	60 F - 95 F	
	C	16 C - 35 C	
Temperature Range	F	41 F - 95 F	
	C	5 C - 35 C	
Temperature Stability	F	0.9 F	
	C	0.5 C	
Nominal Rated Amps (Volts/Phase/Hz)	460V/3/60	5.8	
	230V/3/60	11.5	
	230V/1/60	13	

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;  
 4. Process flow less than 1.92 gpm per ton or greater than 3.6 gpm per ton may require a recirculation pump.

 PolyScience An ISO 9001-2000 Certified Company  
[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 1 ½ HP

MODEL		1 ½ HP	
Compressor	Nom. HP	1.5	
		60 Hz	50 Hz
Cooling Capacity <sup>(1)</sup>	Tons	1.80	1.50
	Watts	6,328	5,273
	BTU/hr	21,600	18,000
Nominal Evaporator Flow <sup>(2)</sup>	USGPM / LPM	4.3 / 16.28	3.58 / 13.57
Pressure <sup>(3)</sup>	PSIG / KPA	60 / 413	
Pump Horse Power	H.P. / Watts	1/3 / 248	
Water Condenser Flow-Tower Water	USGPM / LPM	5.4 / 20.44	
Water Condenser Connections	Inches	3/4	
Process Connections (To & From)	Inches	1/2	
Reservoir Tank Capacity	US gallons / Liter	3.5 / 13.3	
Dimensions (d x w x h)	Inches / Centimeters	30.5 x 19 x 26	
		77.5 X 48.3 X 66	
Shipping Weight	LB / KG	320 / 145	
Ambient Temperature	F	60 F - 95 F	
	C	16 C - 35 C	
Temperature Range	F	41 – 95 F	
	C	5 C - 35 C	
Temperature Stability	F	0.9 F	
	C	0.5 C	
Nominal Rated Amps (Volts/Phase/Hz)	460V/3/60	5.3	
	230V/3/60	10.5	
	230V/1/60	12	

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  
 4. Process flow less than 1.92 gpm per ton or greater than 3.6 gpm per ton may require a recirculation pump.