

# SPECIFICATIONS

## Pro Ducted Cooling Units



# Sentinel Series

Model Number		DP25	DP50	DP88		DP200	
Power Requirements	volt/phase/hz	115/1/60	115/1/60	208/1/60	230/1/60	208/1/60	230/1/60
<b>Performance (57°/55%RH)</b>							
Nominal Compressor	HP	0.33	0.50	1	1	2.5	2.5
Net Cooling Capacity*		Total/Sensible	Total/Sensible	Total/Sensible	Total/Sensible	Total/Sensible	Total/Sensible
@60 Deg F condenser inlet air	BTUH	4520/3050	6920/4920	10700/7120	10830/7500	17570/12430	17680/12790
@70 Deg F condenser inlet air	BTUH	4300/2915	6570/4740	9900/6800	10250/7160	16580/11650	16720/12000
@80 Deg F condenser inlet air	BTUH	3760/2715	6320/4510	9420/6610	9600/6850	15350/11100	15680/11780
@90 Deg F condenser inlet air	BTUH	3540/2580	5860/4230	8600/6120	8760/6210	14000/10580	15000/10870
@110 Deg F condenser inlet air	BTUH	3260/2400	4865/3820	N/A	N/A	N/A	N/A
@120 Deg F condenser inlet air	BTUH	3000/2260	4585/3590	N/A	N/A	N/A	N/A
<b>Performance (80°/50%RH)</b>							
Nominal Compressor	HP	0.33	0.50	1	1	2.5	2.5
Net Cooling Capacity*		Total/Sensible	Total/Sensible	Total/Sensible	Total/Sensible	Total/Sensible	Total/Sensible
@60 Deg F condenser inlet air	BTUH	5980/4000	9830/6990	14330/9530	14560/10000	25450/18000	25600/18530
@70 Deg F condenser inlet air	BTUH	5570/3780	9250/6680	13690/9400	13860/9680	24250/17000	24460/17550
@80 Deg F condenser inlet air	BTUH	5080/3660	8720/6220	13000/9130	13140/9370	22440/16230	22930/17220
@90 Deg F condenser inlet air	BTUH	4425/3500	7835/5800	11800/8400	11300/8450	19500/15800	20500/15150
@110 Deg F condenser inlet air	BTUH	4070/3000	7140/5610	N/A	N/A	N/A	N/A
@120 Deg F condenser inlet air	BTUH	3780/2840	6690/5230	N/A	N/A	N/A	N/A
<b>Controls</b>							
Type		24 Volt Control - (Thermostat by Others)					
<b>Evaporator Section</b>							
Fan Motor Size	Watts	75	100	175	195	160	180
Rated Air Flow (free blow)	CFM	245	390	435	485	760	810
Rated Air Flow @ pressure loss	CFM	200 @0.10" wc	320 @0.20" wc	370 @0.20" wc	440 @0.20" wc	710 @0.35" wc	745 @0.35" wc
<b>Air-cooled Condenser Section</b>							
Fan Motor Size	Watts	75	100	175	195	160	180
Rated Air Flow (free blow)	CFM	245	390	435	485	760	810
Rated Air Flow @ pressure loss	CFM	200 @0.10" wc	320 @0.20" wc	370 @0.20" wc	440 @0.20" wc	700 @0.35" wc	725 @0.35" wc
<b>Water-cooled Condenser Section (option)</b>							
Water usage at 40 Deg F rise	GMP	0.30	0.60	1.20		2.50	
Pressure drop	PSI	0.40	0.40	0.08		1.20	
Pipe connection size (in/out) O.D.	Inches	0.50	0.50	0.50		0.50	
<b>Heat</b>							
Type		Electric					
Capacity	Watt/BTUH	1000/3400	1000/3400	1635/5582	2000/6800	1635/5582	2000/6800
<b>Humidifier (Option)</b>							
Type		Removable drip pad with integral fan					
Capacity - water temp of 60 Deg F	lbs./hr	0.42					
Capacity - water temp of 90 Deg F	lbs./hr	0.97					
Capacity - water temp of 100 Deg F	lbs./hr	1.11					
<b>Electrical Requirements</b>							
Current Draw - Cooling mode	Amps	7.1	11.3	9.8	8.8	15.6	14.1
Current Draw - Heating mode	Amps	9.4	9.6	8.8	9.5	8.8	9.5
Minimum Circuit amps (heat / no heat)	Amps	11.6/8.6	11.8/13.7	10.7/11.8	11.7/10.6	10.7/19.1	11.7/17.2
Optional Low Ambient	Amps	0.4	0.4	0.2	0.2	0.2	0.2
Optional High Ambient	Amps	0.2	0	N/A	N/A	N/A	N/A
Optional Humidifier	Amps	0.4	0.4	0.4	0.4	0.4	0.4
<b>Cabinet</b>							
Construction		Aluminum chassis & UL rated plastic panels					
Finish		Gray metal epoxy powder coat/textured PVC acylic blend					
Weight	lbs.	80	125	125		206	
Dimensions (inches)	Width	33.45	41.5	41.5		41.5	
	Depth	16.6	22.4	22.4		22.4	
	Height	15.56	18.85	18.85		18.85	
Condensate Drain connection (ID)	inches	.50"	.50"	.50"		.50"	
Minimum Ductwork Size	Inches	8	10	10		12	
Agency Approval(s)	ETL	UL 1995/CSA C22.2					

1. Reduce capacity by 3% for each 10% reduction in evaporator airflow.
2. Wine Guardian reserves the right to make changes to this document without prior notice at its sole discretion.
3. All rating at sea level.

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