

SPECIFICATIONS

Ducted Cooling Units



Sentinel Series

| Model Number | | D025 (R134A) | D050 (R134A) | D088 (R134A) | | D200 (R134A) | |
|--------------------|---------------|--------------|--------------|--------------|----------|--------------|----------|
| Power Requirements | volt/phase/hz | 115/1/60 | 115/1/60 | 208/1/60 | 230/1/60 | 208/1/60 | 230/1/60 |

Performance

| 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 |

Controls

| | | | | | | | |
|-----------------------------------|--|--------------------|--------------------|--------------------|--|--------------------|--|
| Type | | Digital electronic | Digital electronic | Digital electronic | | Digital electronic | |
| Temperature Accuracy/RH% Accuracy | | 1F / 10% | 1F / 10% | 1F / 10% | | 1F / 10% | |

Evaporator Section

| | | | | | | | |
|--------------------------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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 |

Air-cooled Condenser Section

| | | | | | | | |
|--------------------------------|-------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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 | 745 @0.35" wc |

Water-cooled Condenser Section (option)

| | | | | | | | |
|------------------------------------|--------|------|------|------|--|------|--|
| Water usage at 20 Deg F rise | GPM | 0.50 | 0.60 | 1.20 | | 2.50 | |
| Pressure drop | PSI | 0.20 | 0.40 | 0.08 | | 1.20 | |
| Pipe connection size (in/out) O.D. | Inches | 0.50 | 0.50 | 0.50 | | 0.63 | |

Heat (Option)

| | | | | | | | |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Type | | Electric | Electric | Electric | Electric | Electric | Electric |
| Capacity | Watt/BTUH | 1000/3400 | 1000/3400 | 1635/5582 | 2000/6800 | 1635/5582 | 2000/6800 |

Humidifier (Option)

| | | | | | | | |
|------------------------------------|---------|--------------------------------------|--|--|--|--|--|
| 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 | | | | | |

Electrical Requirements

| | | | | | | | |
|---------------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|
| 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 |

Cabinet

| | | | | | | | |
|----------------------------------|--------|---|-------|-------|--|-------|--|
| Construction | | Aluminum chassis & UL Rated plastic panels | | | | | |
| Finish | | Gray Metal epoxy powder coat/textured PVC Acrylic blend | | | | | |
| Weight | lbs. | 78 | 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 | ETLc | UL 1995 / CSA C22.2 | | | | | |

1. Net cooling capacity at entering temperature and humidity conditions of 57 Deg F and 55% RH at rated airflow. 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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