## ***Cooling Unit X1 - User Guide & FAQ (Version 1)***

***Equipment ID:*** *EQ1000* ***Document ID:*** *CU-X1-UG-V1* ***Version:*** *1.0* ***Last Updated:*** *August 18, 2020* ***Author:*** *Engineering Support Division*

### ***Product Overview***

*The Cooling Unit X1 (EQ1000) is an earlier generation cooling system designed for small to mid-sized industrial environments. It uses a standard cooling fan and mechanical temperature controls to maintain operational temperature levels.*

### ***Key Features***

* *Single-speed cooling fan system*
* *Basic air filtration*
* *Standard energy efficiency*
* *Manual temperature control*
* *Steel housing for durability*

### ***Parts & Components***

***Main Components***

***Cooling Fan Assembly***

* *Fixed-speed motor*
* *Standard ball bearings*
* *Metal safety grille*

***Cooling Fan Filter***

* *Medium-efficiency particulate filter (#7555)*
* *Replaceable, non-washable design*

***Control Panel***

* *Analog temperature dial*
* *Manual reset switch*
* *Indicator lights for power and overload*

***Heat Exchanger Coils***

* *Aluminum tube and fin construction*
* *Basic corrosion resistance coating*

***Electrical Components***

* *Standard relay starter*
* *Mechanical thermostat*
* *Manual safety shutoff*

***Housing & Framework***

* *Painted steel construction*
* *Bolt-on access panels*
* *Rubber base mounts*

### ***Compatible Parts***

***Cooling Fan Filters***

* *Primary Filter:* ***#7555 – Standard Cooling Filter***
* *Alternate:* ***#7556 – Heavy-Duty Filter*** *(for high-dust areas)*

***Cooling Fan Motors***

* *Model* ***CF-X1-110V*** *(Base Model)*
* *Model* ***CF-X1-220V*** *(High Voltage)*

***Temperature Sensors***

* ***TS-X1-STD*** *(–5°C to 55°C operating range)*

***Control Modules***

* ***CM-X1-BASIC*** *(Manual analog control only)*

***Note:*** *IoT-enabled or remote monitoring modules are* ***not supported in this version.***

### ***Installation Guidelines***

***Pre-Installation***

* *Confirm voltage compatibility (110V or 220V)*
* *Allow* ***2 feet*** *clearance on all sides*
* *Ensure unit is grounded properly*

***Installation Steps***

1. *Position the unit on a flat surface.*
2. *Connect electrical wiring per installation diagram.*
3. *Install cooling fan filter (#7555).*
4. *Turn on the unit and verify airflow.*
5. *Set temperature using the analog control dial.*

### ***Maintenance Schedule***

***Weekly***

* *Inspect airflow and temperature dial function.*
* *Check for any debris buildup near the air intake.*

***Monthly***

* *Replace fan filter (#7555).*
* *Inspect wiring and tighten connections if necessary.*

***Annually***

* *Clean heat exchanger fins using compressed air.*
* *Check fan motor bearings and replace if worn.*

### ***Common Issues & Solutions***

***1. Unit Not Cooling Properly*** *Cause: Dirty filter or blocked intake  
 Solution: Replace #7555 filter and clear obstructions.*

***2. Fan Not Running*** *Cause: Motor overload or faulty wiring  
 Solution: Reset overload switch, check relay starter.*

***3. Excessive Noise*** *Cause: Worn bearings or loose panel bolts  
 Solution: Replace bearings, tighten housing bolts.*

***4. Temperature Fluctuation*** *Cause: Manual control calibration drift  
 Solution: Recalibrate temperature dial using reference thermometer.*

***5. Frequent Filter Changes Needed*** *Cause: High dust environment  
 Solution: Upgrade to #7556 heavy-duty filter.*

### ***Frequently Asked Questions***

***Q: How often should the filter be replaced?*** *A: Replace the #7555 filter every* ***2–4 weeks****, depending on environment conditions.*

***Q: Can I clean and reuse the filter?*** *A: No, the #7555 filter is* ***non-washable*** *and must be replaced.*

***Q: What’s the power requirement for the unit?*** *A: Operates on* ***110V or 220V****, single phase.*

***Q: Does this model support smart controls or remote monitoring?*** *A: No, Version 1 units are equipped with manual control only.*

***Q: How can I improve performance?*** *A: Keep filters clean, ensure clearance space, and perform regular maintenance.*

### ***Technical Specifications***

| ***Specification*** | ***Value*** |
| --- | --- |
| *Model* | *Cooling Unit X1* |
| *Equipment ID* | *EQ1001* |
| *Cooling Capacity* | ***18,000 BTU/hr*** |
| *Power Requirements* | ***110V/220V, 12A*** |
| *Operating Range* | *–5°C to 40°C ambient* |
| *Dimensions* | *34" x 22" x 28"* |
| *Weight* | *130 lbs* |
| *Airflow* | *1,800 CFM* |
| *Filter Type* | *#7555 Standard Medium-Efficiency* |
| *Noise Level* | ***<70 dB*** *at 3 feet* |

### ***Warranty Information***

* ***Standard Warranty:*** *1 year (parts only)*
* ***Fan Motor:*** *1 year limited*
* ***Heat Exchanger:*** *2 years*
* *Extended warranties* ***not available*** *for Version 1 units.*
* *Warranty void if non-genuine parts or filters are used.*

### ***Contact Information***

*Technical Support: 1-800-COOL-X1  
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