

COOLERADO C60

SUBMITTAL DATA SHEET



JOB NAME:	LOCATION:	
CONTRACTOR:	PROJECT MANAGER:	
SUPERINTENDENT:	SUBCONTRACTOR:	
PURCHASER:	ORDER NO:	
ENGINEER:	PROJECT MANAGER:	
SUBMITTED TO:	APPROVAL:	CONSTRUCTION:
SUBMITTED BY:	DATE:	
UNIT DESIGNATION:	SCHEDULE NO:	MODEL NO:

COOLING PERFORMANCE

Outdoor Design Temperature _____°F _____°C DB, _____°F _____°C WB
 Elevation Above Sea Level..... _____FT, _____M
 Intake Air External Static Pressure..... _____IWG, _____Pa
 Intake Air Flow..... _____CFM, _____LPS
 Conditioned Air Ext. Static Pressure..... _____IWG, _____Pa
 Total Conditioned Air @ Full Speed..... _____CFM, _____LPS
 Conditioned Air Temperature (+/- 2)..... _____°F _____°C DB, _____°F _____°C WB
 Conditioned Air Added Humidity..... _____°F _____°C DB, _____°F _____°C WB
 Working Air External Static Pressure..... _____IWG, _____Pa
 Working Air Flow..... _____CFM, _____LPS

ELECTRICAL DATA

200 – 277V, 50 – 60Hz, 790W max., 4.0 Amp, EC Motor
 FLA..... 5
 Power Supply (max. overcurrent protection)..... 20
 Min. unit disconnect FLA 10
 Ampacity 15 – 20
 Min. wire size 14 AWG w/ ground
 External Fusing..... 10 – 20 amp
 Phase 1
 HZ (require to spec) 50/60
 Power input requirement (watts) 790
 EC, backward curved impeller, 3D, 500mm diameter.....

TOTAL UNIT WEIGHT/SHIPPING DIMENSIONS

Weight:..... 460 lb (210 kg) Dry, 520 lb (236kg) Wet
 Operating Weight (wet)..... 530 lb (240kg)
 Shipping Dimensions..... 45" (1,143mm) W x 52" (1,321mm) L x
 47.5" (1,206mm) H, 530 LB (240.4 Kg)

WATER

*Minimum Flow with 1/2" NPT Connection..... 1.7 GPM (6.4 Lt)
 Supply Line Dynamic Pressure at Unit 40 – 80 PSI / 225 – 500 kPa

*The water flow rate listed is the instantaneous peak rate when the solenoid valve inside the unit is on and 0 gpm (lps) when the valve is off. The solenoid valve cycles on once every two minutes for varying lengths of time (10 to 40 second on time).

CONFIGURATION Indoor Outdoor
 Working Air Connections L Side & R Side (or) Top

FACTORY OPTIONS

Thermostat with auto-variable motor speed control
 Insulated Product Air Plenum
 Working Air Louver(s), Replaces Side Access Panel(s)

STANDARD FEATURES

- 3 year limited warranty on HMX; 1 year on all other components
- Low profile, 42.11" (1070 mm) high, great for height constrained spaces
- EER 100+ (Energy Efficiency Ratio)
- COP 29.3+
- Cooling capacity increases as ambient temperature increases
- Low maintenance, simple winterization
- Low water use
- New, patented thermodynamic cycle
- ABS pan, frame, and internal components
- Powder coated, electro-galvanized steel housing
- All electrical/water connections can be accessed from front panel
- Easy to connect power/control wiring
- Integrated control module for reliable, economical operation
- Patented, high technology, poly heat and mass exchanger (HMX)
- Biocide integrated into HMX fibers
- Removable panels - greater durability, ease of access
- No chemical refrigerants or ozone depleting chemicals
- No humidity added or removed
- Fresh, outside air for better indoor air quality (IAQ)
- Filtered air with reduced dust, pollens and allergens
- No tool air filters access - 4 standard size 20" (508mm) x 25" (635mm) x 2" (50.8mm) MERV 8 ring frame air filters
- Tapered intake air plenum for fan efficiency/even air distribution
- Starting collar molded into fan intake for easy duct connection
- Conditioned air plenum provided – accommodates most any size, shape, duct
- Optional factory working air louvers can be mounted in side access panels
- High efficiency, electronically commutated motor (ECM)
- Optional auto-variable speed thermostat available
- Supplied with water filter (30 nominal micron, 9.875" cartridge)
- 4 lifting lugs on the bottom of the unit for easier and safer handling during installation
- Drain with multi dimensional port and screwed into the base
- Pre-cut exhaust cut out on the top
- Service covers with tear drop mounting holes to avoid need to completely remove the screws
- Adjustable feet to level the unit on uneven ground
- Pressure measurement port in the wet section for balancing the air flow thru the HMX's
- Low water pressure cut off switch
- Made in the USA

COOLERADO C60 FAN PERFORMANCE TABLES

CONTROL SYSTEMS

Coolerado C60 Performance Table*										
External Static Pressure		Full Speed Product Air Flow			Approx. Product Air Wet Bulb Approach	Product Approx. = WB + below		Working Air Flow		
Inches H ₂ O	Pascal	CFM	CMH	LPS		F	C	CFM	CMH	LPS
0.00	0	1550	2630	729	94%	2	1.1	1200	1380	560
0.10	0.13	1470	2490	690	95%	2	1.1	1140	1310	540
0.20	49.8	1380	2340	650	96%	1	.6	1070	1230	500
0.30	74.7	1300	2200	611	98%	1	.5	1000	1150	470
0.40	99.5	1220	2070	570	100%	0	0	940	1080	440
0.50	124.4	1130	1910	530	103%	-1	-.6	870	1000	410
0.60	149.3	1050	1780	490	107%	-2	-1.1	810	930	380
0.70	174.2	970	1640	460	110%	-3	-1.7	750	860	350
0.80	199.1	900	1520	420	113%	-4	-2.2	700	800	330
0.90	224	810	1370	380	117%	-5	-2.8	630	720	300
1.00	248.9	720	1220	340	120%	-6	-3.3	560	640	260

*Performance at sea level: Performance increases ~0.5% for every 1,000 feet / 305 m increase above sea level.

Example: Design 98F DB / 62F WB, 0.1" ext. static, $98 - 62 = 36$, $36 * 0.95 = 34.2$, $98 - 34.2 = 63.8$ °F
Product Air Temperature = Design WB + 2 = 64 °F

Example: Design 36C DB / 16C WB, 0.1" ext. static, $36 - 16 = 20$, $20 * 0.95 = 19$, $36 - 19 = 17$ C
Product Air Temperature = Design WB + 1.1C = 18.1 °C



Optional Auto-Variable Speed Thermostat
Surface Mounted
3.5"W x 5"H x 1.25"D
Requires 4 Low Voltage Conductors

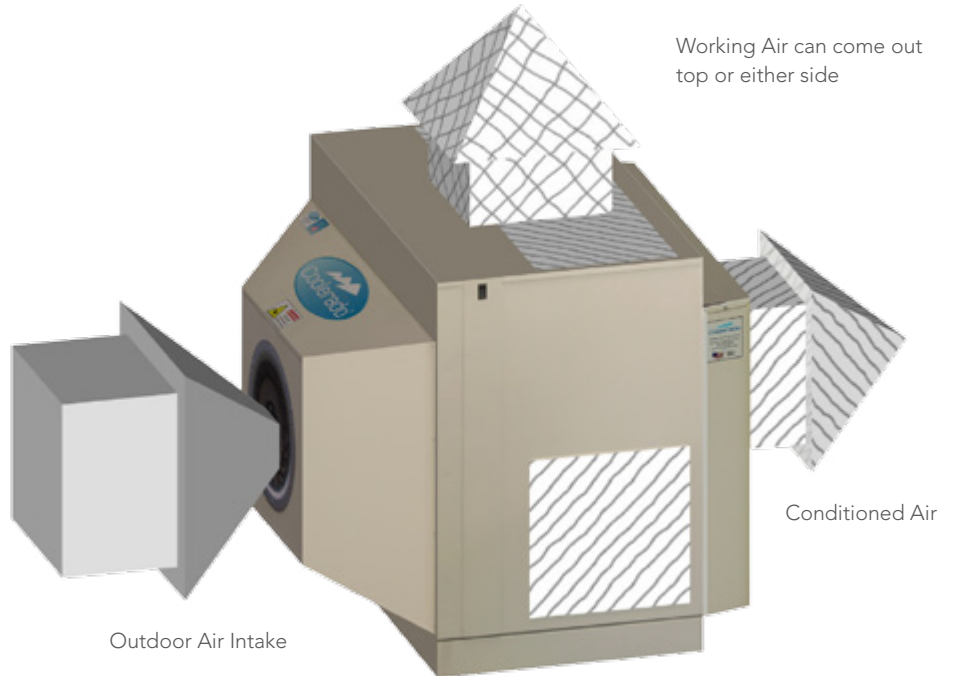
CLEARANCE TOLERANCES

Sides: The C60 units have the air filter access doors on the sides. These access doors are placed on both sides of the unit. When exhausting the working air from the top, two C60 units can be installed side by side but 26" (660.4 mm) clearance is needed on the opposite sides of the units to be able to access and change the air filters.

When exhausting working air from the sides, leave 26" (660.4 mm) on both sides.

Top: 6" (152 mm) for installation if not exhausting out the top.

Outside Air Intake, fan side: 24" (610 mm).



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