Coolerado C60
SUBMITTAL DATA SHEET

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

Cooling Performance

Outdoor Design Temperature . . . _____ °F DB, _____ °F WB
Elevation Above Sea Level . . . . . _____ FT
Intake Air External Static Pressure . . . . . _____ IWG
Intake Air Flow . . . . . _____ CFM
Conditioned Air Ext. Static Pressure . . . . . _____ IWG
Total Conditioned Air @ Full Speed. . . . . _____ CFM
Conditioned Air Temperature (+/- 2). . . . . _____ °F DB
Conditioned Air Added Humidity . . . . . _____ °F DP
Working Air External Static Pressure . . . . . _____ IWG
Working Air Flow . . . . . _____ CFM

Electrical Data

200-240V, 50-60Hz, 790W max., 4.0 Amp, EC Motor
(200 - 270 V with control transformer change by special request)
IFM Max Continuous BHP. 1
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

Dry Install Weight. . . . . 420 LBS
Operating Weight (wet) . . . . . 480 LBS
Shipping Dimensions . . . . . 42” W x 54” L x 58” H, 545 lbs

Water

Minimum Flow with 1/2” NPT Connection . . . . . 1.7 GPM
Supply Line Pressure . . . . . 26 - 65 PSI
1 1/2” diameter drain to approved location required

Configuration . . . . . ____Indoor ____Outdoor

Working Air Connections . . . L Side and 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) ☐2

Standard Features

- 1 year limited warranty
- EER 40+ (Energy Efficiency Ratio)
- COP 24+
- 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” x 25” x 2” 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
- Compact, easy to install, ideal height 47.5” cabinet
- High efficiency, electronically commutated motor (ECM)
- Optional auto-variable speed thermostat available
- Top 100 products of 2004 as selected by R&D 100 committee
- GreenSpec® Listed as 2006 Top 10 Green Building Products
- Supplied with water filter (30 nominal micron, 9.875” cartridge)

Coolerado C60 Fan and Performance Table

External Static Pressure (Inches H2O)	Full Speed Product Air Flow (CFM)	Full Speed Product Air Flow (M^3/S)	Full Speed Product Air Flow (LPS)	Product Air Wet Bulb Approach	Product Approx. Wet Bulb Plus T	Working Air Flow (CFM)	Working Air Flow (M^3/S)	Working Air Flow (LPS)
0.0	1,670	.79	788	94%	2	1,320	.62	622
0.1	1,580	.75	746	95%	2	1,260	.59	595
0.2	1,490	.70	703	96%	1	1,200	.57	566
0.3	1,400	.66	661	98%	1	1,140	.54	538
0.4	1,310	.62	618	100%	0	1,070	.50	505
0.5	1,220	.58	576	103%	-1	1,010	.48	477
0.6	1,130	.53	533	107%	-2	940	.44	444
0.7	1,040	.49	491	110%	-3	870	.41	411
0.8	950	.45	448	113%	-4	800	.38	376
0.9	860	.41	406	117%	-5	730	.34	345
1.0	770	.36	363	120%	-6	670	.32	316

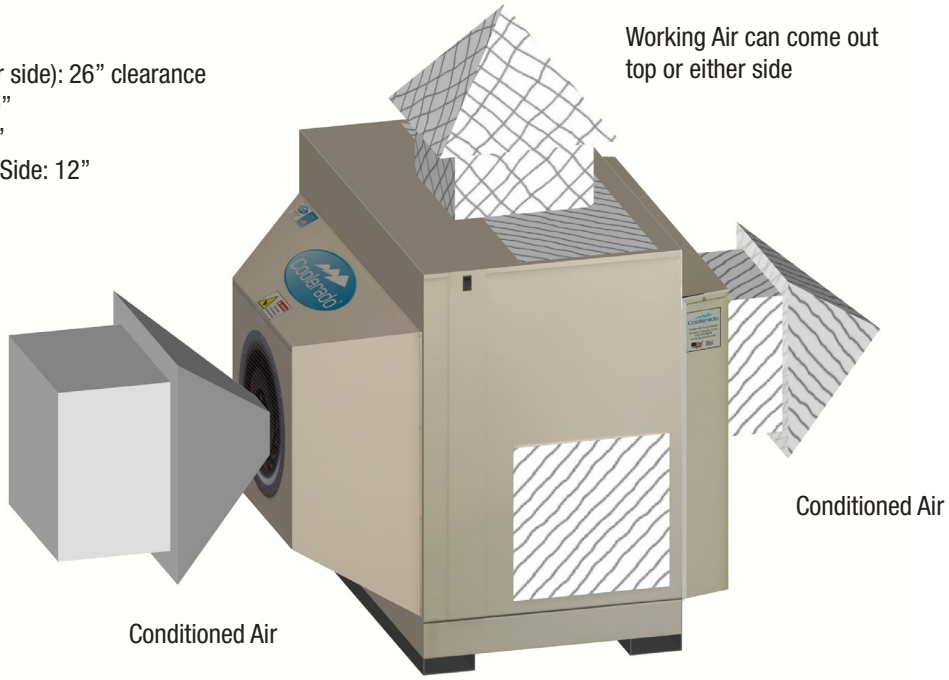
Example: Design 98 DB / 62 WB, 0.1" ext. static,
98 - 62 = 36, 36 * 0.95 = 34.2, 98 – 34.2 = 63.8 ºF Product Air Temperature ≈
Design WB + 2 = 64 ºF

Control Systems

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

Clearance Tolerences

Minimum clearances:
Filter Side (can be either side): 26" clearance
Opposite Control Side: 0"
Air Intake (fan) Side: 12"
Conditioned Air Plenum Side: 12"
Top: 6"



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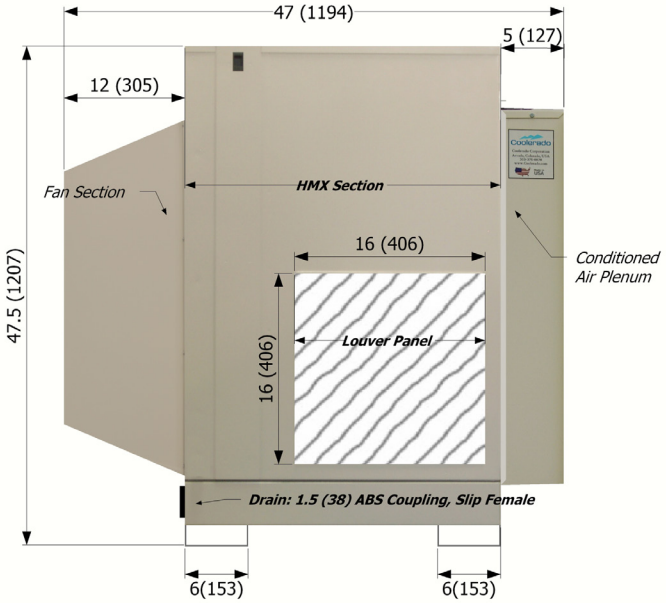
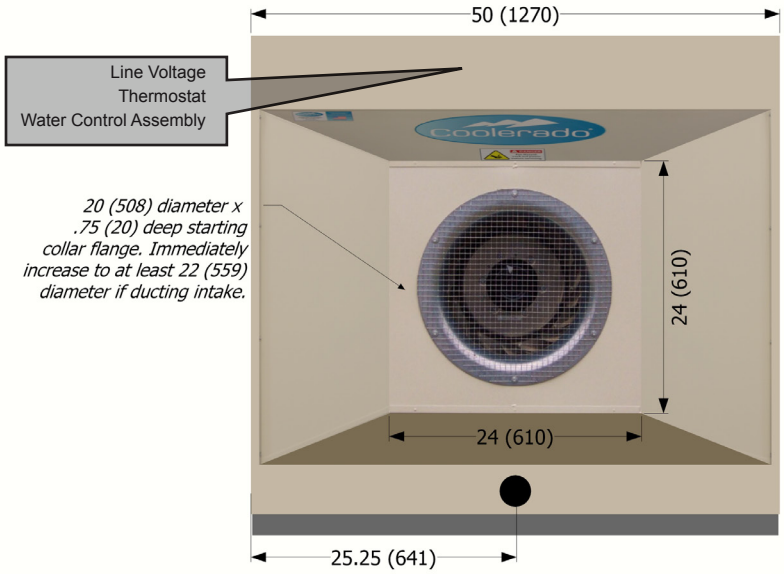
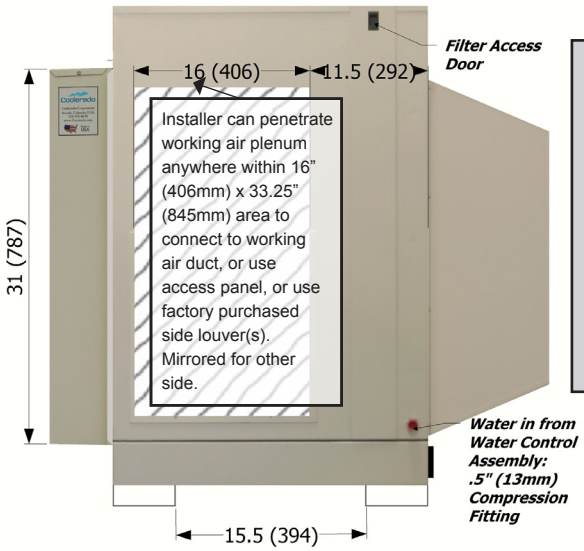


RIGHT SIDE VIEW

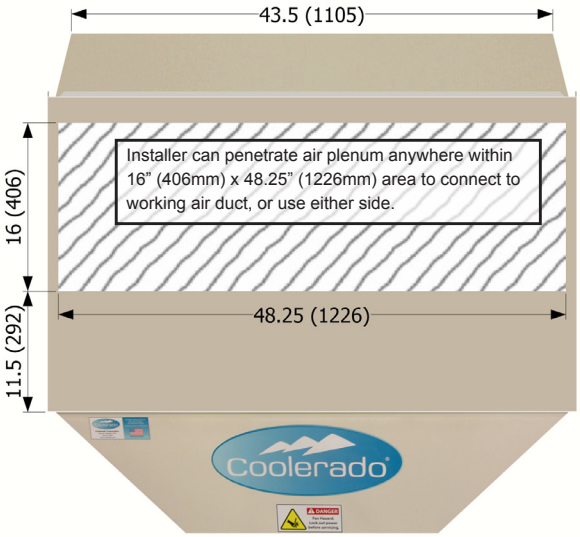


FAN SIDE VIEW

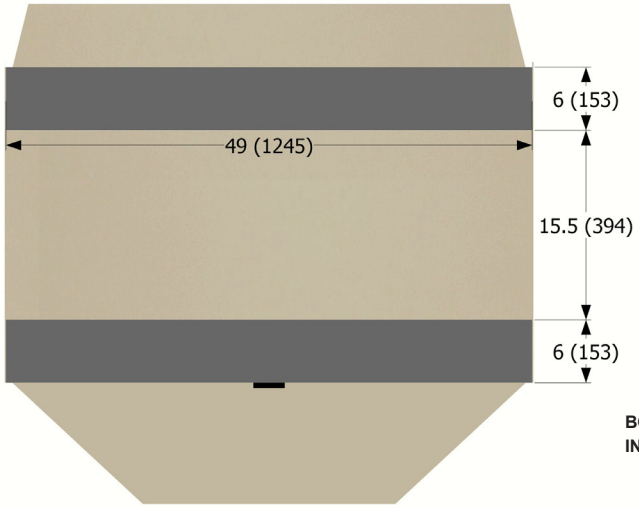


LEFT SIDE VIEW

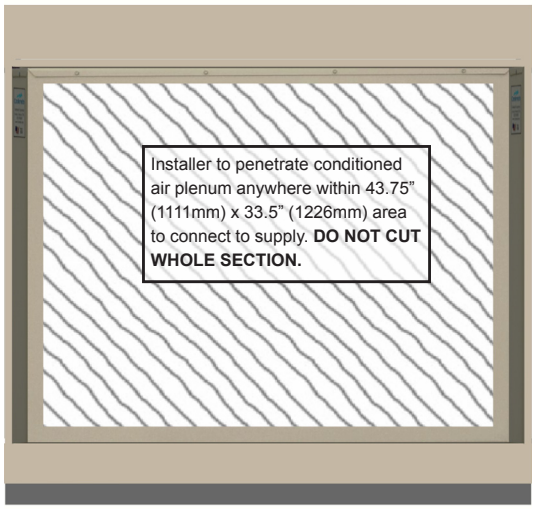
Note: Working air is saturated and water will collect in duct connected to working air section. Slope duct drain back into air conditioner, or to appropriate outside location. Avoid low spots in working air ducts.



TOP VIEW



FEET VIEW



CONDITIONED AIR PLENUM VIEW