USER GUIDE

EVAP 5000

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WARNINGS

The COMCOOL 50 is a portable high efficiency evaporative cooler.
It is connected to a 13 Amp.1P 230Vac. 50Hz power supply and comes fitted with a fused uk moulded plug. It has a nominal running current of 2A.
It is recommended that the supply to the machine should be protected by a 30mA RCD. These units come with three fan speeds, a high quality submersible pump and integral 90 litre water tank as standard.

- Failure to follow these instructions may result in risk of personal injury or damage to the equipment.
- Damage due to a failure to follow these instructions will invalidate the warranty.
- The appliance must be serviced by qualified engineers in compliance with local regulations.
- The appliance must be switched off and disconnected from the power supply before any work is carried out.
- There are no user controls inside the appliance casing.
- Do not place anything on top of the appliance.
- An air gap of at least 900mm should be allowed at the rear of the unit to ensure a clear airflow.
- Do not disconnect the appliance from the supply under load.
- For internal use only. Do not use out of doors.
- Extension cables should be correctly rated for the load, fully unwound and never run through water or over sharp edges.
- Always transport in an upright position.
- Site on a firm level surface and always apply the castor brakes.
- Do not transport with water tank full.
- Always inspect mains cables before connecting to the power supply.

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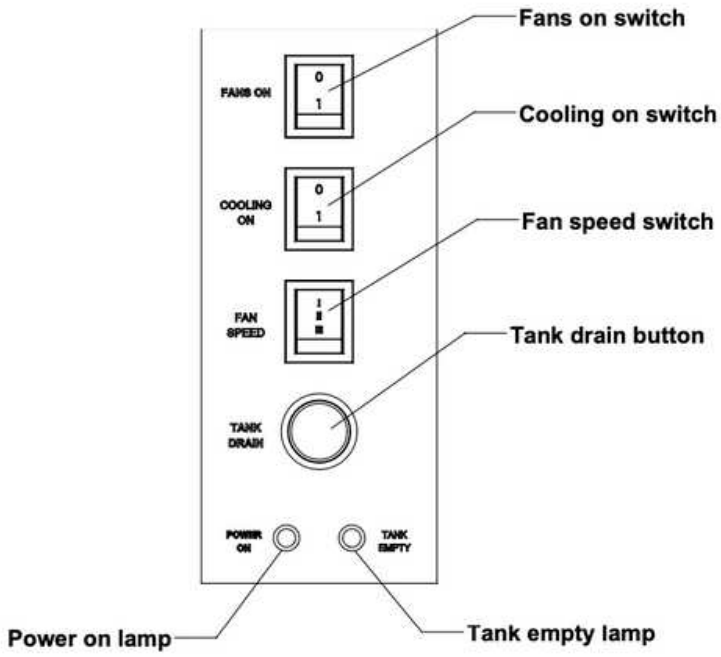
Set up and operation:

• The unit must be sited on a firm level surface and the castor brakes applied.
• The unit should be situated with the rear of the machine clear of obstructions. A minimum clearance of 900mm is recommended.
• The CC50 requires an uninterupted supply of fresh unprocessed air to operate correctly and should be sited in a well ventilated area.
• The CC50 requires a constant supply of clean water for correct operation. This can be from mains water supplied to the unit through a standard garden hose connected to a standard tap connector on the machine or by manually filling the integral water tank.
• Where using a mains water supply ensure leak free connections with a maximum system pressure of 3bar (43 PSI). Higher water pressures may damage components and will invalidate the warranty. The integral water tank is fitted with a float valve which will automatically stop the flow of water once the tank is full.
• To manually fill the water tank remove the filler cap and fill the tank with a hose or vessel with a thin spout. Once water is visible in the tank connector the tank is full. Note! when running the CC50 from a manually filled tank the 'Tank Empty' lamp will illuminate when the machine requires re-filling. The water pump will automatically switch off when the tank is empty.
• Connect the machine to a suitable power supply. The 'Power On' lamp will illuminate.
• Should an extension lead be required ensure it is correctly rated. Incorrectly rated cables may cause excessive voltage drop and damage the fan and pump motors. This will invalidate the warranty.
• Turn the 'Fans On' switch to 'I'.
• Set the 'Fan speed' switch to the desired airflow; I, II or III. Slow, medium or fast.
• Turn the 'Cooling on' switch to 'I'. This will operate the water pump and a steady stream of water will flow over the cooling pads. Note! cooling will not operate without the fan running. Small dry streaks at intervals along the cooling pad is normal and will vary depending upon ambient conditions.
• It should be noted that new cooling pads may emit an odor when first used, this is normal and will fade with use.

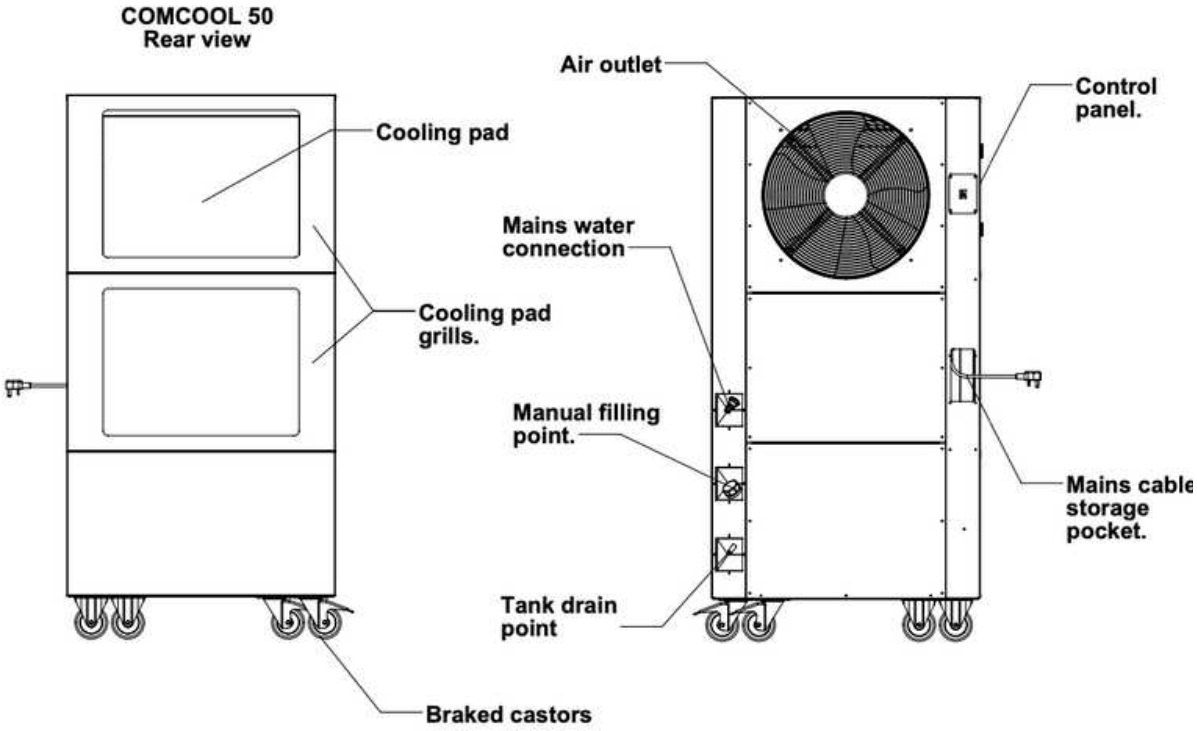
Emptying the water tank:

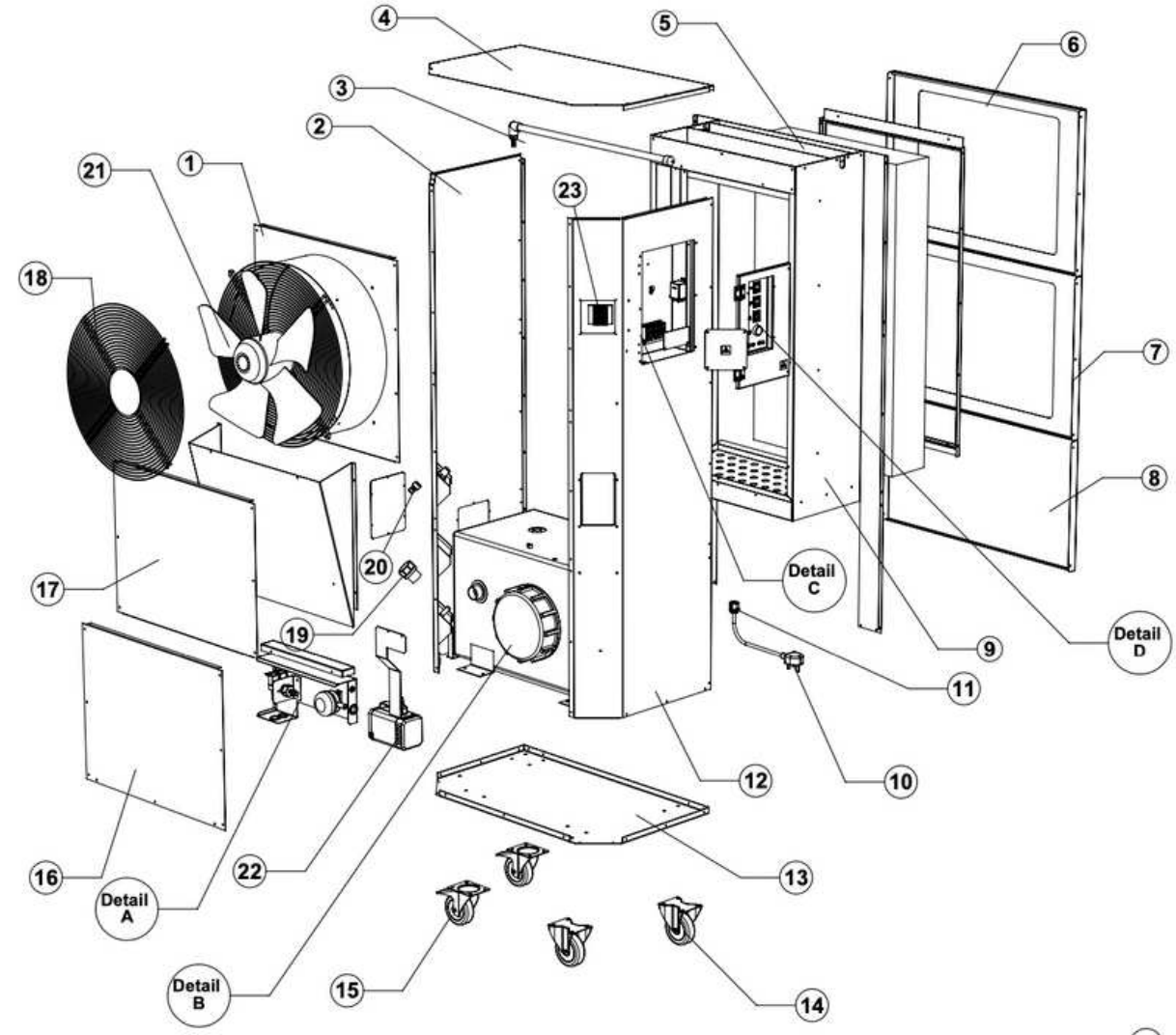
Fit a standard garden hose to the pipe stub labelled 'Tank Drain' and run to a suitable drain.
Press and hold the 'Tank Drain' button on the control panel. This button is non-latching and must be held down until the water flow ceases. A non-latching button is fitted to minimise dry running of the pump. It should be noted that a residue of water will remain in the tank and the unit should remain upright during storage or transportation.

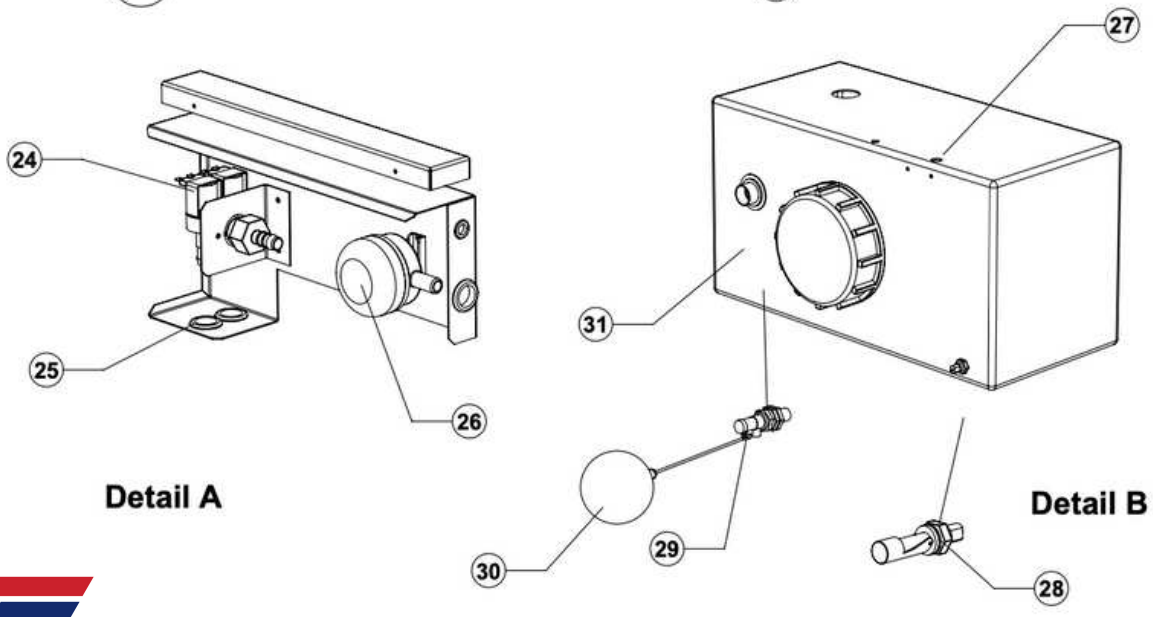
CC50 controls:



CC50 Front & rear views:

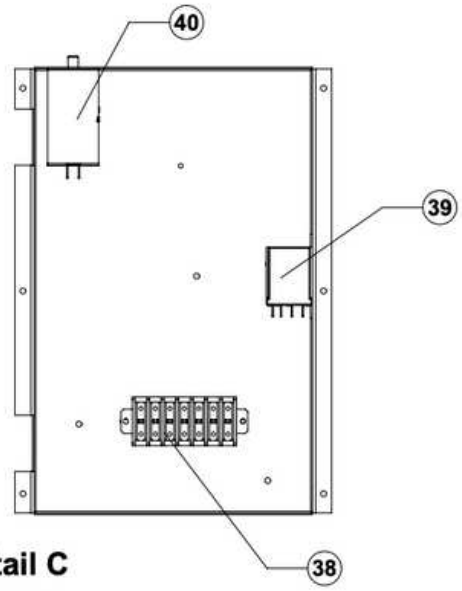




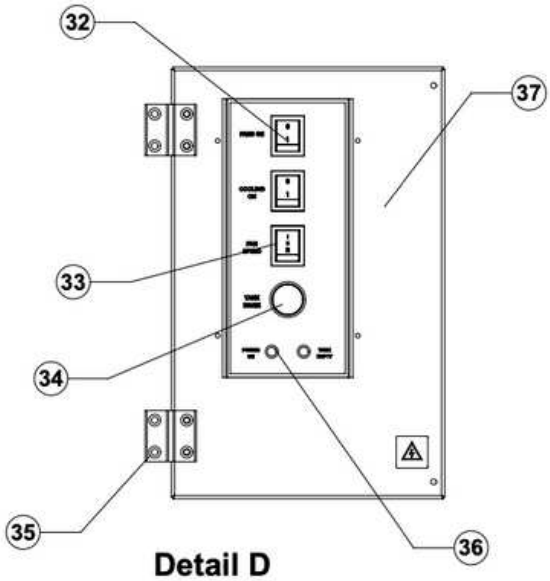


Detail A

Detail B



Detail C



Detail D

Spare parts:

DRAWING#	DESCRIPTION	PART NUMBER
1	FRONT TOP PANEL	BW0201234
2	LEFT SIDE PANEL	BW0201235
3	PVC DRIPPER RAIL ASSEMBLY	ME0401120
4	TOP PANEL	BW0201236
5	COOLING PAD	ME040184
6	REAR TOP PANEL	BW0201237
7	REAR MIDDLE PANEL	BW0201238
8	REAR BOTTOM PANEL	BW0201239
9	GALVANISED META SET	BW0201241
10	1.25MM X 5M 13A MAINS CABLE C/W PLUG	EL020126
11	M20 CABLE GLAND C/W LOCKNUT	ME040201
12	RIGHT SIDE PANEL	BW0201241
13	BASE PANEL	BW0201242
14	100MM FIXED CASTOR	ME010211
15	100MM SWIVEL CASTOR C/W BRAKE	ME010212
16	FRONT BOTTOM PANEL	BW0201243
17	FRONT MIDDLE PANEL	BW0201244
18	OUTLET GRILL	BW010517
19	WHITE ACCESS PLUG	ME040170
20	BRASS ½ " HOSE CONNECTOR	ME0401115
21	500MM AXIAL FAN ASSEMBLY	FA010112
22	SUBMERSIBLE PUMP	ME0401116
23	PLUG-IN TERMINAL BLOCK	EL020425
24	2 WAY DIVERTER VALVE 90? 13MM OULET	ME040164
25	HOSE TAIL SWIVEL STRAIGHT 3/4" X 12MM	ME040183
26	INLINE FILTER/STRAINER 1/2"	ME040165
27	PLASTIC WATER TANK 8 " CAP	ME0401117
28	FLOAT SWITCH	EL030143
29	FLOAT VALVE	ME040167
30	PLASTIC BALL FLOAT	ME040168
31	32MM TANK CONNECTOR WITH FLEXIBLE ELBOW	ME0401118
32	I/0 ROCKER SWITCH	EL030135
33	3 POSITION ROCKER SWITCH	EL030134
34	TANK PURGE SWITCH ASSEMBLY	EL030137
35	PLASTIC HINGE	ME040332
36	9mm INDICATOR LIGHT	EL030709
37	ELECTRICS COVER PANEL	BW0201246
38	CLIP TOGETHER TERMINAL BLOCK	EL020417
39	16A RELAY 62.82	EL030211
40	CAPACITOR P2 10uF	EL030312
41	12MM ID FLEXIBLE HOSE (Not shown)	ME040182
42	BRAIDED FLEXIBLE HOSE ½ ". (Not shown)	ME0401119

TROUBLE SHOOTING GUIDE

FAULT	POSSIBLE CAUSE	SOLUTION
NO COOLING/ WATER FLOW.	FANS AND OR COOLING NOT SWITCHED ON.	CHECK ALL SWITCHES ARE ON.
	WATER TANK EMPTY	CHECK WATER TANK LEVEL. CHECK TANK EMPTY LAMP.
	POWER SUPPLY INTERRUPTED.	CHECK POWER SUPPLY. CHECK 'POWER ON' LAMP
	PUMP FILTER BLOCKED	CHECK FILTER AND CLEAN
	FAULTY ROCKER SWITCH.	CHECK SWITCHES AND REPLACE IF NECESSARY.
	FAULTY RELAY.	CHECK RELAY AND REPLACE IF NECESSARY.
	FAULTY PUMP	CHECK PUMP AND REPLACE IF NECESSARY.
FAN MOTOR NOT RUNNING.	POWER SUPPLY INTERRUPTED.	CHECK POWER SUPPLY. CHECK 'POWER ON' LAMP
	FAULTY ROCKER SWITCH.	CHECK SWITCHES AND REPLACE IF NECESSARY.
POOR COOLING PERFORMANCE	WATER TANK EMPTY	CHECK WATER TANK LEVEL. CHECK TANK EMPTY LAMP.
	COOLING PADS DIRTY	CHECK COOLING PADS AND CLEAN.
	WATER DISTRIBUTOR TUBE BLOCKED.	CHECK TUBE AND CLEAN.
	PUMP FILTER BLOCKED	CHECK FILTER AND CLEAN
WATER LEAK	COOLING PADS DIRTY	CHECK COOLING PADS AND CLEAN.
	WATER DISTRIBUTION TRAY BLOCKED	CHECK TRAY AND CLEAN
	FLOAT VALVE FAULTY	CHECK FLOAT VALVE AND REPLACE IF NECESSARY.

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CC50 maintenance:

WARNING!
RISK OF ELECTRIC SHOCK.
DISCONNECT THE POWER SUPPLY BEFORE REMOVING ANY PANELS OR PERFORMING ANY MAINTENANCE.
RISK OF INJURY OR DEATH!

Removal and cleaning of the cooling pad:

- For efficient operation of the CC50 it is important to regularly clean the cooling pad to prevent the build up air borne particles on the pad.
- For cleaning and maintenance the cooling pad should be dried by running the fan only before removal from the machine.
- Remove the two cooling pad grills using a No2 pozi driver.
- Carefully remove the 150mm cooling pad.
- Cooling pads should be cleaned with a soft brush or compressed air. Ensure all grills are secured before operation.
- Please note! Sterilizing fluid should be added to the machine through the manual filling point. Please follow the instructions on the particular product for the required concentration.

Cleaning of the pump filter element:

- Regular cleaning of the pump filter element is necessary to ensure correct operation of the pump. Failure to clean the filter element will damage the pump and invalidate the warranty.
- To access the pump filter disconnect the machine from the power supply and remove the front access panel to locate the pump compartment using a No2 pozi-driver.
- Locate the filter and unscrew the clear plastic filter cap.
- Remove the gauze filter element and clean in fresh water. Remove any detritus from the element housing.
- Re-fit the filter element and cap ensuring the silicone 'o' ring is correctly located. Clean up any water spillages before re-fitting all covers.

Accessing the submersible pump:

• Always ensure the tank is empty before attempting to access the submersible pump.
• The pump is located inside the water tank.
• Remove the machines front access panel.
• Remove the screw cap from the front of the water tank.
• Remove the two securing screws from the front of the water tank using a No 2 pozi screwdriver.
• Remove the support plate.
• It should be noted that the pump and it's mounting bracket need to be withdrawn from the tank together by reaching into the tank and tipping the pump onto it's side. In this position it can
be withdrawn through the tank opening. Sufficient hose and powercable has been provided to allow for the pump removal without cutting hoses or cables.
• The base of the pump can be removed and washed in soapy water. The pump requires no further user servicing.
• Re-fitting is the reverse of this procedure. Always check the tank cap for leaks before putting the machine back into service.