



**COOLSPACE®**  
EVAPORATIVE COOLING

# Operation and Maintenance Manual

## 230V/50HZ



**GLACIER**

CS5-16-VD

CS5-16-VD-TB2

**AVALANCHE**

CS6-36-VD

**BLIZZARD**

CS6-50-VD



**WARNING**

**IMPORTANT SAFETY INFORMATION INSIDE**

Serious injury or death possible. Read, understand, and follow all safety information and instructions in the manual before operating or servicing this product.








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*Due to continuous product innovations, we reserve the right to change product specification without due notice.*

## SIGNAL WORD DEFINITIONS

 <b>DANGER</b>	DANGER indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.
 <b>WARNING</b>	WARNING indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.
 <b>CAUTION</b>	CAUTION indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.
<b>IMPORTANT</b>	IMPORTANT indicates a potentially hazardous situation which, if not avoided, MAY result in property damage.

## SAFETY NOTICE

- ◇ The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- ◇ Children being supervised should be instructed not to play with the appliance.
- ◇ Maximum altitude: < 1000 m.

## 1.0 INTRODUCTION

COOL-SPACE® is a patented and registered Trademark of Hale Industries, Inc. and manufactured in Indiana, USA.

COOL-SPACE® is a compact, self-contained, high-efficiency portable evaporative cooler capable of lowering existing temperatures by as much as 15°C.

### IMPORTANT

Carefully examine the carton for damage before opening. If the carton is damaged notify the shipping company immediately.

## 2.0 UNPACKING YOUR COOL-SPACE UNIT

The CS5-16 units are shipped in a cardboard box. Open the top panel and lift the unit out. The larger units are shipped on a wooden skid with a cardboard cover and lid. The cardboard cover simply lifts off the COOL-SPACE unit. The cooler must be lifted off the wooden skid.

NOTE: Variations in housing colour may occur.

## 3.0 SET-UP OF THE COOL-SPACE UNIT

The COOL-SPACE unit is factory tested and ready to use. The unit should be placed on a level surface, and the castors locked to prevent inadvertent movement. Follow instructions below to connect water and electrical supply.

*Set-Up instructions, including instructional videos can be found online at [www.row.cool-space.com/cool-space-support/](http://www.row.cool-space.com/cool-space-support/)*

### 3.1 CONNECTING THE WATER SUPPLY



### CAUTION

Do not connect the unit to any water source where water pressure exceeds 8 bar (827 kPa). This will cause permanent damage to the unit.

The COOL-SPACE unit comes equipped with a male garden hose water source connection. Attach the unit to a standard garden hose outlet for a water source. The unit should not be attached to any water source with operating pressure above 8 bar (827 kPa). Pressures above 8 bar (827 kPa) must use a pressure regulator which may be purchased at your local hardware store. Note: a female - 3/4" to 22mm connection may be required (not supplied) depending on local pipe sizing. If you have purchased the optional portable water tank, use a standard garden hose (not provided) to connect the tank to the cooler.

### 3.2 CONNECTING THE ELECTRICAL SUPPLY

#### IMPORTANT

The unit should be plugged into a fused or circuit breaker protected 230 Volt, 50Hz circuit that meet the minimum amperage requirements.

All models utilize standard 230-volt power supply. The unit should be plugged into a fused or circuit breaker protected 230 Volt, 50Hz circuit that meet the following minimum amperage requirements:

◇ 13A UK and IE plug

◇ 16A Euro plug

◇ 10A China, Australia and New Zealand

If the unit is custom built for a specific application, please consult the factory for proper configuration. Refer to Table 1 for amperage requirement for specific models and Table 2 for the proper 3-conductor heavy-duty extension cord requirements.



#### CAUTION

Do not exceed the amperage ratings of the extension cord. Undersized extension cords result in excessive drops in voltage, which cause the electric motors to generate excessive heat. This condition results in inefficient motor operation and premature motor failure, WHICH WILL VOID THE WARRANTY.

#### AMPERAGE REQUIREMENTS

MODEL NUMBER	VOLTS $\pm$ 10%	FREQUENCY (Hz)	RUNNING AMPS
<b>CS5-16-VD</b>	230	50	1.8
<b>CS5-16-VD-TB2</b>	230	50	1.8
<b>CS6-36-VD</b>	230	50	4.2
<b>CS6-50-VD</b>	230	50	5

Table 1: Electrical Requirements

#### 3-CONDUCTOR HEAVY- DUTY EXTENSION CORD REQUIREMENTS

LENGTH	CORD SIZE			
	16 GA	14 GA	12 GA	10 GA
6	13 A	15 A	15 A	15 A
16	13 A	14 A	15 A	15 A
32	10 A	12 A	13 A	15 A

Table 2: Cord Size Requirements

**NOTE: POWER CORD CAN ONLY BE REPLACED BY THE MANUFACTURER OR AN AUTHORIZED AGENT.**

## 4.0 OPERATING PROCEDURES

Operating procedures, including instructional videos can be found online at [www.row.cool-space.com/cool-space-support/](http://www.row.cool-space.com/cool-space-support/)

There are 3 factors to consider when determining where to place the COOL-SPACE unit.

1. **Fresh air supply:** The inlet side of the unit (pad side) requires a constant, uninterrupted supply of fresh air for maximum performance. A distance of 1 metre clear space to any obstructions at the rear or inlet side of the unit is recommended.
2. **Discharge air flow:** The cool air discharged from the unit should be free of obstruction to allow the air to circulate in order to maximize the cooling zone.
3. **Ventilation:** In order to operate at maximum effectiveness, it is helpful to have provisions to remove the air discharged from the COOL-SPACE unit from the cooling area. This ensures that the COOL-SPACE unit does not recirculate air that has already been through the evaporative cooling process.

The COOL-SPACE unit must be placed on a level surface to operate correctly. The units create an oval shaped air pattern that can reach out as far as +20 metres with larger fans. Obstacles such as racks and workbenches may interfere with the air flow. An attempt should be made to locate the unit in such a manner that interruption of the air pattern is held to a minimum. Multiple units may be required to cover larger areas.

When the COOL-SPACE unit is placed near a wall or other vertical obstruction, it is recommended that there be a space of at least 1 metre between the back (pad side) of the unit and the obstruction. This ensures that a clear supply of fresh air is able to get to the inlet of the unit.

### OPERATIONAL WEIGHTS:

**CS5-16-VD Unit:** 68 kg. (unit) + 10 kg. (pad operating weight) + 60 kg. (60 L. reservoir) = 138 kg.

**CS5-16-VD-TB2 Unit:** 82 kg. (unit) + 10 kg. (pad operating weight) + 200 kg. (200 L. reservoir) = 292 kg.

**CS5-36-VD Unit:** 123 kg. (unit) + 27 kg. (pad operating weight) + 174 kg. (174 L. reservoir) = 324 kg.

**CS-50-VD Unit:** 191 kg. (unit) + 45 kg. (pad operating weight) + 242 kg. (242 L. reservoir) = 478 kg.

### 4.1 FILLING THE UNIT WITH WATER

Once the COOL-SPACE unit has been connected to a water source as described in 3.1, turn the water supply valve on and the unit will fill with water. The float valve will shut off the water flow when the sump is full.

### 4.2 STARTING THE FAN

Set the fan switch to the "ON" position and adjust the speed to your preferred setting.

### 4.3 STARTING THE PUMP AND ADJUSTING THE WATER FLOW

#### IMPORTANT

DO NOT flood the pads with water. New pads will take a few days before they become completely saturated. It is normal to have several dry streaks on the face of the pads about 25 to 50 mm wide. If the streaks are larger adjust the flow control knob to allow more water to flow onto the pads. **NOTE:** New pads may also emanate an odour under initial operating conditions from the resin used to construct the media. Flush the pads by running the pump without the fan running for at least 12 hours. Empty the sump and refill. Repeat if odour still exists.

**NOTE:** Run the fan while adjusting the water flow. Once the sump is full, the pump switch may be turned to the 'ON' position. The flow control knob will need to be adjusted on initial start-up. It is located at the side of the unit; it controls the volume of water that is delivered to the top of the cooling pads.



#### CAUTION

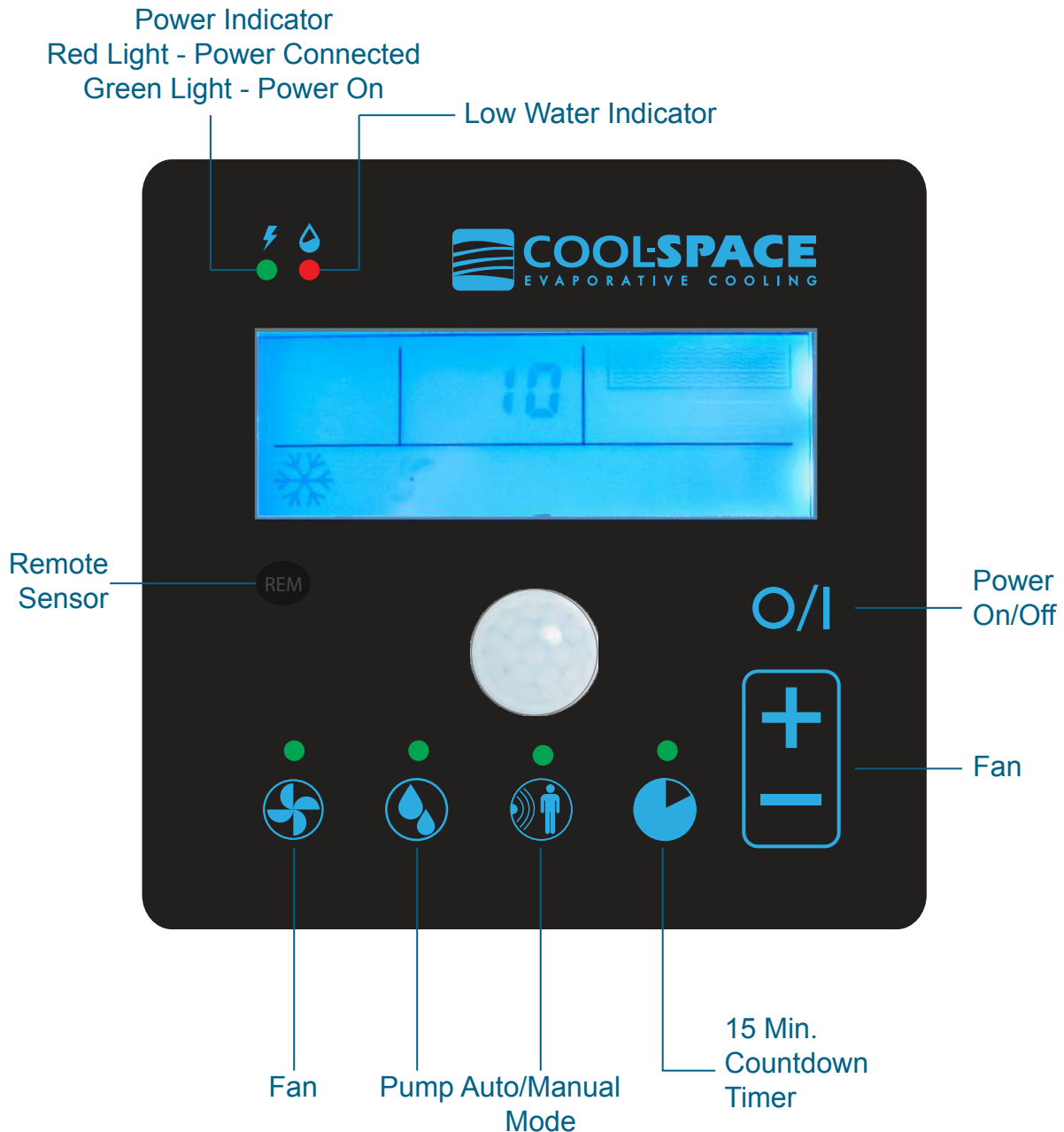
Prolonged use of hard water without proper water treatment will create mineral deposit build up causing the pump to fail which is NOT COVERED BY WARRANTY

#### IMPORTANT

Pump equipped with LOW WATER CUT OFF which may take up to 5 minutes to reset each time the power is turned on.

### 4.4 INTUITIVE CONTROL PANEL

The BLIZZARD-50 comes equipped with an intuitive control panel.



**O/I** Turns machine on and off



- Default Speed is 6
- Press **+** to increase speed
- Press **-** to decrease speed



Turns fan on and off in manual mode



Turns pump on and off in manual mode

Switches machine between auto and manual mode

In Auto Mode

- Indicator light will be on
- Machine will run when motion is detected
- When no motion detected, machine will run for 10 minutes and then shut down



Puts machine into shutdown mode

- When pressed the pump shuts off and the fan will continue to run for 15 minutes and then shut down
- Works in auto and manual mode



## 5.0 MAINTENANCE AND STORAGE

Maintenance instructions, including instructional videos can be found online at [www.row.cool-space.com/cool-space-support/](http://www.row.cool-space.com/cool-space-support/)



### WARNING

#### ELECTRICAL SHOCK HAZARD

Disconnect the power supply before performing any service or maintenance.  
Failure to do so may result in serious injury or death.

### 5.1 REMOVING THE COOLING MEDIA TO ACCESS THE INSIDE OF THE UNIT

In order to perform any maintenance on internal components, the cooling pads must be removed to access the inside of the unit.

1. Remove the bolts connecting the pad retainer bar (pad-side) from the housing.
2. Remove top pads on CS6-36-VD.
3. Starting with the center pad(s), tilt pads from the top; lift out of the unit.

**NOTE:** Reinstall pads correctly according to the markings on the pads.

### 5.2 DAILY MAINTENANCE

#### IMPORTANT

When shutting down the unit at the end of each use, the pump should be turned off approximately 15 minutes before the fan is turned off. This will allow the pads to drain and dry out. To avoid disfiguring the housing the unit should be drained after every use. These simple guidelines will ensure long and efficient pad life as well as help to control mildew and bacteria growth, and unit longevity.

### 5.3 PERIODIC MAINTENANCE

Depending on how often the COOL-SPACE unit operates, this procedure should be performed anywhere from every week for heavy use to monthly for light use. Shut down the unit and drain the water sump. The cooling pads act as a filtering agent and remove dust and other particles from the incoming air stream. These particles will flow into the sump and collect there. Also, impurities in the water will collect in the sump.

#### DRAINING THE WATER SUMP

1. Close the water flow valve and open the drain valve or remove drain plug located at bottom of reservoir.
2. Run pump until sump is dry then immediately shut off pump.
3. Turn unit off and disconnect the power supply.
4. Remove cooling pads, refer to section 5.1.
5. Clean out reservoir with either a towel or wet/dry vacuum.
6. Remove the water spray bar and its plug. Insure holes are free of debris.
7. Reinstall pads and pad retainer.

To keep the COOL-SPACE unit operating at peak efficiency, ensure that the cooling pads are kept clean and dust-free. Dust and other particles have an adverse effect on the media's ability to introduce water into the air stream. If the pad surface becomes dirty or dusty, clean with a soft brush and water.

### 5.4 STORAGE

1. Remove the pads, as described in section 5.1
2. Clean with a soft brush and water to remove dust and debris (never use bleach)
3. Drain sump using procedure described in section 5.3 and wipe dry
4. Store in a dry area and cover to prevent dust build-up. Covers can be found online at [www.cool-space.com](http://www.cool-space.com).



Troubleshooting guides and repair instructions, including instructional videos can be found online at [www.row.cool-space.com/cool-space-support/](http://www.row.cool-space.com/cool-space-support/)

### 6.1 TROUBLESHOOTING



#### WARNING

##### ELECTRICAL SHOCK HAZARD

Disconnect the power supply before performing any service or maintenance.  
Failure to do so may result in serious injury or death.

The COOL-SPACE unit consists of three systems: the fan, water distribution and pump. It is important to determine which system of the COOL-SPACE unit the problem is associated with. This may not always be obvious, in that certain problems may be associated with more than one system.

When determining which system has a problem, you must define the associated problem, (e.g. the pump is not running). Although this might seem a bit simplified, several things may cause this particular problem. So while defining the problem, a careful check of all systems should be made to fully understand the extent of the problem.

If you have a complete understanding of all of the systems of the COOL-SPACE unit and how they depend on each other, it will be simple to define and solve any problem.

#### NECESSARY TOOLS:

Although the COOL-SPACE unit is designed to be simple to maintain, it will be necessary to have some basic hand tools (screwdrivers, pliers, adjustable wrenches, etc.) as well as a volt/ohm metre when troubleshooting the electrical system.



#### CAUTION

Please use caution when troubleshooting or repairing all electrical components. Be certain that all power is disconnected from the COOL-SPACE unit before the cooling pads or fan guard are removed to gain access to the fan.

## 6.0 TROUBLESHOOTING/REPAIR

### 6.2 TROUBLESHOOTING GUIDES

#### FAN SYSTEM

##### FAN WON'T RUN AND MAKES NO SOUND

**Check power cord, extension cord, switches, circuit breaker**

- Reconnect power or extension cord
- Reset breaker

##### FAN WON'T RUN - MAKES HUMMING SOUND

**Blade in contact with shroud**

Re-center blade hub

**Motor stalled (will not turn by hand)**

Replace motor

##### BREAKER TRIPS OR FUSE BLOWS WHEN FAN IS STARTED

**Motor stall**

Replace motor

**Check power source for min. 230v/10 amp**

Upgrade power supply

**Extension cord gauge too small**

Replace with heavier cord

##### MOTOR OVERHEATS, SHUTS OFF AND RESTARTS SEVERAL MINUTES LATER

**Extension cord gauge too small**

Replace with heavier cord

**Inlet air obstructed or too close to wall**

Provide minimum 1 metre inlet clearance

**Faulty motor**

Replace motor

##### FAN MOTOR WON'T RUN - SWITCH MAKES SOFT CLICKING SOUND

**Ensure that switch is making good contact**

Replace switch if needed

##### FAN BLADE DOESN'T TURN - UNIT MAKES SQUEALING SOUND

**Motor stall (will not turn by hand)**

Replace motor

##### FAN WILL NOT REACH SPEED BUT TURNS AND MAKES HUMMING SOUND

**Check Capacitor (where visible) and motor electrical connections**

Replace capacitor or motor

**Extension cord gauge too small**

Replace with heavier cord

#### INTUITIVE CONTROL PANEL ERROR CODES

##### E1 - OVER CURRENT PROTECTION

**Current draw too high**

- Check extension cord size
- Check motor spins freely
- Check airflow not obstructed
- Replace motor

##### E2 - OVER VOLTAGE PROTECTION

- Supply voltage too high  $\geq 253V$
- Try different circuit
- Install Voltage Regulator

##### E3 - LOW VOLTAGE PROTECTION

**Supply voltage too low  $\leq 207V$**

- Try different circuit
- Install voltage regulator

##### E4 - LOSS OF PHASE PROTECTION

**Motor phase imbalance**

Loose or disconnected motor wire, Replace motor

##### E7 - OVERLOAD PROTECTION

**Motor running too hot**

Check extension cord size, Check motor spins freely, Check airflow not obstructed, Replace motor

##### F6 - COMMUNICATION FAILURE

**Failure of communication between control panel and control board**

Check connection of control cable, Check control cable not broken

## 6.2 TROUBLESHOOTING GUIDES

## WATER SYSTEM

**The water distribution system consists of two (2) assemblies:**

1. The Water Inlet Assembly
  - Brass bulkhead fitting
  - Float valve assembly
2. The Hose and Valve Assembly
  - Spray Bar Assembly
  - Valve Assembly
  - Connection Hose

**FLOOR AT SIDE OF UNIT IS WET**

***Water inlet hose is loose at supply hose or inlet hose is loose at bulkhead fitting.***

Tighten connections and/or replace hose washers.

**UNIT OVERFLOWS FROM RESERVOIR OR IS SPITTING WATER THROUGH FAN**

***Float valve hose is loose at bulkhead fitting or at float valve.***

Tighten connections and/or replace hose washers

***Water pressure is too high to allow float valve to shutoff (8 bar or 827 kPa max)***

Reduce water pressure by adding an inline reducer

***Float valve not properly seated***

Check all hoses for leaks

**WATER SPITTING FROM THE UNIT**

***Check The Hose and Valve Assembly***

- Reduce flow control setting
- Replace cracked hose and valve assembly
- Tighten hose connections
- Adjust spray bar
- Ensure pads were installed correctly

**WATER LEAKING FROM DRAIN VALVE**

***Check for worn washer, stem or open drain valve***

- Replace washer
- Replace drain valve

**TOO MANY DRY STREAKS ON THE PADS**

***Check for blocked holes in the spray bar or adjust water flow***

- Remove spray bar, remove plug and clean tube and holes
- Open water flow control valve

## PUMP

**PUMP MOTOR WILL NOT RUN WHEN SWITCH IS TURNED ON**

***Turn fan on to check for power***

- If fan doesn't start check breaker and cord plug-in
- If fan does start; check for power to and through pump switch (when turned on)

***Ensure water level is high enough to make the low-water cut-off circuit***

Fill water reservoir

**PUMP MOTOR HUMS WHEN SWITCH IS TURNED ON, BUT DOES NOT PUMP WATER**

***Obstruction in impellor***

Remove object(s)

***Pump motor failure***

Replace pump

**BREAKER TRIPS OR FUSE BLOWS WHEN SWITCH IS TURNED ON**

***Check power cord length and breaker rating***

Refer to page (2) for unit amperage draw and to determine required cord gauge

***Check for locked-up pump***

Replace pump

**PUMP RUNS BUT DOES NOT PUMP WATER**

***Air lock in outlet side of pump***

Turn off and on to bleed

***Ensure the impellor is turning in pump***

If not, replace pump

## 6.0 TROUBLESHOOTING/REPAIR

### 6.3 REPAIR PROCEDURES



#### CAUTION

Repairs should be performed by a qualified technician!



#### WARNING

##### ELECTRICAL SHOCK HAZARD

Disconnect the power supply before performing any service or maintenance.  
Failure to do so may result in serious injury or death.

#### FAN MOTOR REPLACEMENT FOR CS5-16-VD, CS5-16-VD-TB2

1. Remove cooling pads (see section 5.1 for pad removal instructions)
2. Remove the black motor wiring plate and disconnect motor wires. (Mark each wire with a marker or marker tape to allow for easy matching when installing new motor.)
3. Remove the (4) nuts and bolts that mount the motor, fan, and support braces (complete fan assembly).
4. Replace new fan assembly.
5. Secure with (4) nuts and bolts.
6. Replace any wire ties that were removed when taking out the old fan assembly.
7. Replace the black motor wiring plate.
8. Reinstall pads and connect power

#### FAN MOTOR REPLACEMENT FOR CS6-36-VD, CS6-50-VD

1. Remove cap from bottom of motor. Disconnect wires. Clip wire ties.
2. Remove (4) fan mounting bolts from the front. (Support fan to ensure it doesn't fall.)
3. Pull the fan out of the unit.
4. Remove blade mounting nut and blade.
5. Remove mounting arms by loosening (8) bolts holding the arms to the motor. (Make note of arms positions for reinstallation.)
6. Install arms and blade on new motor.
7. Install fan in opening and secure with mounting bolts.
8. Reconnect wires and attach cord to motor arm with wire ties to keep them out of fan.

#### PUMP REPLACEMENT FOR CS5-16-VD-TB2

1. Loosen PVC Union
2. Remove pump and PVC pipe
3. Unplug the cord from the top of the pump by removing 2 screws
4. Unscrew PVC pipe from the pump
5. Reverse steps 1-4 to reinstall the new pump
6. Reinstall cooling pads and guards, reconnect power, and test pump

#### PUMP REPLACEMENT FOR CS5-16-VD, CS6-36-VD, CS6-50-VD

1. Unscrew fitting from pump
2. Unplug the cord from the top of the pump by removing (2) screws
3. Remove pump from water sump and install new pump
4. Reverse the above procedures to reconnect the wiring, lift pump bracket and reconnect the hose. Secure wires to fan frame with wire ties to clear the fan blades. Be sure to position the plug correctly.
5. Reinstall cooling pads and guards, reconnect power and test pump.

**6.4 TECHNICAL SUPPORT**

Support and service is available directly from your distributor or the COOL-SPACE Technical Support Hot Line at 001-317-577-0337, email [sales@cool-space.com](mailto:sales@cool-space.com) or visit [www.cool-space.com](http://www.cool-space.com).

**7.0 WARRANTY**

Warranty Information and product registration can be found online at [www.row.cool-space.com/warranty](http://www.row.cool-space.com/warranty)

Under normal use, the warranty covers the unit and its components for thirty-six (36) months from date of invoice. Refer to the manufacturer's Warranty Policy for details.

**7.1 WARRANTY PARTS**

Warranty replacement parts are available through your local distributor or supplier where you purchased your COOL-SPACE unit. If you have any questions or concerns, please contact us direct at 00 44 7979 243154 [simon.hartles@cool-space.com](mailto:simon.hartles@cool-space.com). Please have your model number and serial number ready.

**DO NOT DISCARD FAULTY PARTS**

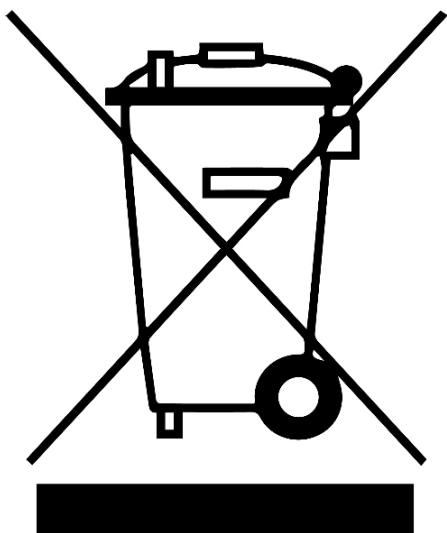
Check with the Manufacturer as they may need to be returned for warranty credit.

**7.2 OPTIONAL ACCESSORIES AND REPLACEMENT PARTS**

Accessories and replacement parts are available from your local distributor or supplier. To order parts or for help finding a distributor or supplier visit the COOL-SPACE website at [www.cool-space.com](http://www.cool-space.com) or call 00 44 7979 243154 [simon.hartles@cool-space.com](mailto:simon.hartles@cool-space.com).

FAN MOTOR	
CS-F16.1-VD-50HZ	CS5-16-VD, CS5-16-VD-TB2 45cm (18") Fan Assembly with Motor
CS-M36-220V	CS6-36-VD 90cm (36") Variable Speed 50HZ
CS-M50-VD-50HZ	CS6-50-VD 127cm (50") Variable Speed 50HZ
SWITCHES	
CS-E110	On/Off Pump & Single Speed Fan
CS-E180 + CS-E172	CS6-36-VD Variable Speed controller + knob
CS-E199-VD	CS5-16-VD, CS5-16-VD-TB2 220/230 VD Controller
PUMP	
CS-E192-2	CS5-16-VD, CS6-36-VD, CS6-50-VD
20CM (8") PADS	
CS-H610 + CS-H611	CS5-16-VD, CS-16-VD-TB2 (3 required (1 x CS-H610) + (2 x CS-H611))
CS-H613	CS6-36-VD (5 required)
CS-H48-140	CS6-50-VD (6 required)
FLOAT ASSEMBLY	
CS-P143	CS5-16-VD, CS6-36-VD, CS6-50-VD (Post 2017) ½" Compact Water Control Valve (Vertical )
CS-P142	CS5-16-VD-TB2 (Post 2017) ½" Compact Water Control Valve (Horizontal)

**FOR EXPLODED VIEW DRAWINGS PLEASE GO TO [WWW.COOL-SPACE.COM](http://WWW.COOL-SPACE.COM)**



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Inappropriate disposal may be harmful. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.





**COOLSPACE®**  
E V A P O R A T I V E C O O L I N G

## International Sales Office

PO Box 6916

Bridgnorth WV16 9ED UK

00 44 7979 243154

[simon.hartles@cool-space.com](mailto:simon.hartles@cool-space.com)

[www.cool-space.com](http://www.cool-space.com)

### DISTRIBUTOR:



Cross Hire Services  
11 Broomhill Road ,  
Tallaght, Dublin 24  
Ireland

P: 1890 247 266

[info@crosshire.ie](mailto:info@crosshire.ie)  
[www.crosshireservices.ie](http://www.crosshireservices.ie)



MADE IN USA



REV 24FEB2020 PN CS5-16-VD, CS5-16-VD-TB2, CS6-36-VD, CS6-50-VD 230V/50HZ MANUAL