AQUA LOGIC'S **DELTA STAR® Series water-cooled pool chillers**

INSTALLATION & OPERATING INSTRUCTIONS

Effective 8-17

Thank you for purchasing an Aqua logic chiller. It has been designed and built to provide years of reliable, trouble-free service. It provides a precise water temperature control up to +/- 1.0°F (0.7°C) accuracy and features a continuous LCD display of the current fluid temperatures.



BEFORE INSTALLING THE CHILLER

READ BOTH WARRANTY AND INSTALLATION INSTRUCTIONS.

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Tel: (858) 292-4773 • Fax: (858) 279- 0537 • Email: info@aqualogicinc.com • www.aqualogicinc.com
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Important: Unpacking your chiller.



This chiller was properly packed and accepted by the transportation company for shipment. It is the responsibility of the transportation company to deliver it to you in perfect condition.

APPARENT DAMAGE OR LOSS

If, upon delivery, the shipping container or equipment indicates DAMAGE IN TRANSIT, such damaged goods should not be accepted until the transportation company's agent has noted on the freight bill, which he will give you, the nature and extent of the damage. If any part of this shipment is LOST IN TRANSIT, have the shortage noted on the freight bill by the agent.

CONCEALED DAMAGE

Remove cover to inspect the chiller for damage.

If, when this equipment is unpacked, shipping damage is discovered which was not apparent upon delivery, notify the transportation company IMMEDIATELY to inspect the damaged equipment. The inspector is REQUIRED to provide you with a DAMAGE INSPECTION report.

THIS INSPECTION MUST BE REQUESTED WITHIN FIFTEEN (15) DAYS OF DELIVERY. DO NOT MOVE DAMAGED SHIPMENTS FROM POINT OF DELIVERY. RETAIN ALL CONTAINERS AND PACKING FOR INSPECTION.

Protect yourself. File your claim immediately with the transportation company! Remember, Aqua logic Inc. is not responsible for any damage after the carrier accepts a shipment. Claim for FULL VALUE REIMBURSEMENT should be made by you against the transportation company. Replacement of the damaged equipment should be requested by the purchaser as a new order.

WARNING!!!

THIS DEVICE USES HIGH VOLTAGE ELECTRICAL POWER FOR OPERATION.
SAFETY PRECAUTIONS MUST BE OBSERVED.
CAREFULLY READ AND OBSERVE THE FOLLOWING TO AVOID ELECTRICAL SHOCK OR SEVERE DAMAGE TO THE EQUIPMENT.

- We recommend, as with all electrical equipment used in or around water, that you connect your electrical equipment to a ground-fault interrupt (GFIC) protection circuit.
- **ALWAYS** turn the power off for the equipment at the source (circuit breaker) if there is any electrical problem, the electrical equipment or controller has been submerged in water.
- **ALWAYS** make sure that the electrical circuit you connect your electrical equipment to is rated at least 20% higher than the maximum current rating on the equipment.
- **ALWAYS** make sure that you operate the equipment at the correct voltage.
- Do **NOT** attempt to turn off the power at the chiller or controller if a problem occurs. Disconnect unit at the main power panel.
  Do **NOT** attempt to repair equipment. Call Aqua Logic for instructions.

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Very Important!

1. The standard target fluid temperature is limited to a range of 40° F to 80° F on all Delta Star Chillers. Without special factory installed equipment, possible damage to the unit can occur when attempting to access fluid temperatures outside this range. Aqua Logic, Inc.'s warranty does not apply to application temperatures under 40°F or above 80° F without special factory modifications.

2. Water going to the chiller should be protected by filters to keep debris from collecting in the evaporator and condenser shells. Clogged shells lead to heat exchange problems and will void the warranty.

3. Improperly installed or out of adjustment rapid sand filters can put sand into the stream of water flowing into the chiller. This condition is similar to "sand blasting" and may abrade holes in plumbing lines or the evaporator and condenser. Conditions like these would void the Aqua Logic, Inc. warranty.

   40° F to 80° F Pool Temperature Applications

   Wetted parts contain titanium, PVC plastic, rubber, and polymer. These materials are non-reactive with fresh and salt water. You must consult with Aqua Logic, Inc. if any other fluids are to be pumped through the chiller.

   If humid or wet conditions exist where chiller is to be located, care must be taken to prevent water from getting on electrical components.

4. Allow only qualified licensed personnel to supply electric power to chiller. Installation must be done in accordance with local and national electrical code. Delta Star chillers need a fusible disconnect installed within five feet. The chiller needs a dedicated power supply. **Do not** share the power feed to with any other peripheral devices such as pumps, ultraviolet light sterilizers, or filters. Interlock device prevents the chiller from energizing without the pump being on.

5. Double check electrical specifications on unit's electrical access cover plate making sure of voltage, amperage, phase, and cps before energizing. (**Do not** remove any covers with electrical power on.)

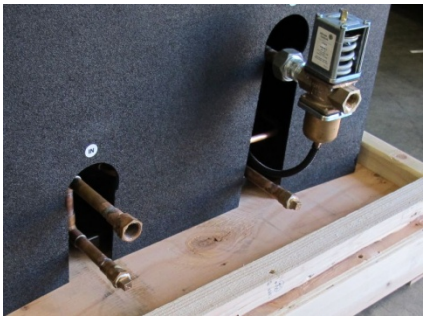
6. **Fluid must flow through the chiller at all times.** See chiller specification sheet or product label for minimum and maximum flow rates. Flow rates less than specification may result in evaporator freeze up and cracking evaporator shells and or over heating due to lack of water flow to the condenser. Aqua Logic Inc. does not warranty evaporator shells operating under low flow conditions and compressor burn outs due to overheating.

7. Incoming water pressure to the inlet of the evaporator and condenser must not exceed 100 psi. Pressures over 100 psi may cause damage to the evaporator and condenser shells not covered under warranty.

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Installation Instructions:

1. Place the chiller on a level concrete or metal pad with at least two (2) feet of space around the unit to allow room for access to the unit and for maintenance. If the chiller is to be mounted outdoors, make sure the unit is not directly under an area where there is water runoff from the roof or in a area where flooding can occur.



2. Connect the plumbing from the building cold water supply to the condenser. ½" FPT copper pipe water fittings located on the chiller. Make sure the building supply water is ample enough to allow the chiller to function correctly. (See the chiller specification sheet for water flow rates).

3. Connect the plumbing from the pool to the 1-1/2" FPT PVC water fittings on the chiller. Be careful not to over tighten the plastic fittings. See "Chiller By-pass Plumbing" pg 9



4. Install optional flow switch either on the water inlet or outlet side with at least 12 inches of straight pipe on the inlet side.

5. Check for water leaks.

6. Plug-in the temperature controller to the flow switch and then to the chiller.

Installation must proceed in accordance with national building and electrical codes by qualified technicians only.

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Initial Start-up: Read all of the instructions before energizing unit.

Caution: It's important to allow the oil in the compressor to warm-up at least 8 hours before starting up the unit. If the ambient air temperature is below 60˚F, apply power to the unit and set controller so the compressor does not energize or by-pass the heat exchanger water supply so the flow switch will not activate the unit.

1. Turn on water pump and set the correct water flow rate.
2. Open water valves to the condenser.
3. Apply power to the unit.
4. Adjust temperature set point to desired water temperature. (See "Chiller Control Set-up") When the temperature control calls for cooling, the chiller will turn on and pull the water temperature down to the desired set point and then shut off. When the water temperature rises above the differential setting, the chiller will repeat the cycle and cool down to temperature set point.

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Temperature Controller Set-up

This digital controller has been pre-programmed with all the necessary parameters to ensure reliable service and operation. The controller is pre-set from the factory with a temperature range from 30 °F to 100 °F with a display resolution of 1 degree °F and with a 1 °F temperature differential.

Installation.

1. Mount control on a wall or any vertical surface that water can't splash on it.
2. Plug-in the control to chiller.
3. Submerge the titanium temperature sensor in the tank or sump. (DO NOT submerge sensor in the water beyond the warning label)

Temperature Controller Setpoint Set-up



To modify the set point* temperature. Press and release the "SET" button. SP will be displayed. Press the "SET" button again and the pre-programmed set point temperature will be displayed. Press the up arrow ▲ to increase or the down arrow ▼ to decrease the set point.
Once the desired set point value has been selected, do not touch any of the keys for 1 minute or press the "SET" and the "DOWN" ▼ arrow at the same time. The control will then revert to displaying the current water temperature, but will now control the water temperature to the desired set point.

This indicates that the chiller or heater should be energized.

Temperature Differential:

When the water has reached the set point temperature, the chiller will switch off and will not switch back on until the water temperature has changed by 1 °F. This value is known as the temperature differential between on and off cycles. Refer to the temperature control parameters table to change the settings.

Display Calibration and Program Parameters

If the displayed water temperature on the control is different from the system water temperature, than an adjustment to the control can be done. The easiest way to calibrate the control is to press and hold the "Set" button for 8 seconds. The parameter "O" will be displayed. Wait 4 seconds. Then press the "SET" button and the "SP" will be displayed. Use the down ▼ or up ▲ arrow until you see the menu parameter "P1". Then press the "SET" button one time. The display will show "0". Press the up or down arrows to adjust to the temperature offset. Once you have set the correct temperature offset, press "SET" button one more time and then wait 1 minute or press the "SET" and the "DOWN" ▼ arrow buttons at the same time to quit the programming. The display should return to the water temperature. The display should read correct water temperature readout.

See page 3 "DC SINGLE STAGE TEMPERATURE CONTROL PROGRAMMABLE PARAMETERS TABLE" to change other settings

To adjust other parameters in the control contact Aqua Logic, Inc. for help.
PH: 858.292.4773 or email: info@aqualogicinc.com

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DC SINGLE STAGE TEMPERATURE CONTROL PROGRAMMABLE PARAMETERS TABLE

Parr.		Description	Units	Range	Factory Settings	Note Change
1	SP1	Set Point	Degrees	r1 to r6	75	
2	r0	Differential / Hysteresis	Degrees	1 to 20°	1	
3	r1	Lower value set point	Degrees	-50 to 150 °C -50 to 302 °F	30°F	
4	r2	Higher value set point	Degrees	-50 to 150 °C -50 to 302 °F	100°F	
5	d0	Heating or Cooling	Option	Ht or Co	Co	
6	d2	Time for Defrosting	Minutes	0 to 59	0	
7	d8	Interval Time between Defrosts	Hours	0 to 24	0	
8	c0	Min. time stop for compressor	Minutes	0 to 59	0	
9	c1	Continuous cycle time	Hours	0 to 24	0	
10	c2	On time of fault cycle	Minutes	0 to 99	0	
11	c3	Off time of fault cycle	Minutes	0 to 99	0	
12	P0	Temperature scale selection	Option	°C / °F	F	
13	P1	Ambient Probe Adjustment	Degrees	-10 to 10°	0	
14	H5	Parameter Access Code	Number	0 to 99	0	
15	H6	Probe input type	Option	Ptc / Ntc	Ptc	
16	t0	Max. temperature on display	Degrees	-50 to 150 °C -50 to 302 °F	100°F	

PARAMETER DESCRIPTIONS

SP = Set Point. Temperature desired to regulate the machine. Can vary from r1 to r2.
r0 = Differential. Heating: If temperature is ≥ SP then output is OFF. If temperature is < SP - r0 then output is ON. **Cooling**: If temperature is ≥ SP + r0 then output is ON. If temperature is < SP then output is OFF.
r1 = Lower Set Point Limit.
r2 = Upper Set Point Limit.
d0 = Heat or Cooling Control. Ht = heating control, Co = cooling control.
d2 = Not used
d8 = Not used.
c0 = Minimum Time for Compressor to be OFF. Minimum time for the compressor to stop until it can start again.
c1 = Continuous Cycle Time. The remaining time for a continuous cooling cycle.
c2 = ON Time of fault cycle, during probe error.
c3 = OFF Time of fault cycle, during probe error.
P0 = Selection of Engineering units between F and C.
P1 = Ambient Probe Calibration. Offsets temperature in degrees to adjust the ambient probe.
H5 = Access Code to Parameters. Factory-set to 0.
H6 = Selection of Input Probe Type: PTC or NTC.
t0 = Temperature Display Limit. Maximum temperature shown on the display, although the real temperature can be greater.

OPERATION IN CASE OF ERROR

If the probe or thermostat memory should fail, the chiller or heater will turn off.

Error Messages

In normal operation, the probe temperature will be shown. In case of alarm press the “SET” and the “DOWN” ▼ arrow buttons at the same time to quit the alarm. An error messages will be shown:

- **Er** – Memory error
- **--** Shorted –circuited probe error
- **oo-** Open probe

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Hi / Low refrigerant pressure cutout switch

The pressure switch serves a both a high and low refrigerant safety cutout to protect the chiller. If there is no water or low water flow through the condenser the pressure will build-up and cause the switch to trip off. When there a refrigerant leak, the switch will protect the chiller from functioning.

To reset the switch:

1. Remove black chiller cover and locate the Hi / Low pressure cutout.
2. Press the brass button to reset the chiller.





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Chiller Maintenance

Safety Precautions

1. Always wear safety eye wear and work gloves when installing and maintaining equipment.
2. Never assume electrical power is disconnected. Disconnect and check with meter.
3. Keep hands out of areas when power is connected to equipment.
4. R-417A (NU-22) a escaping into the air can cause frost-bite burns.
5. R-417A (NU-22) is toxic when burned.

Pool Side Heat Exchanger Cleaning:

The pool side heat exchanger should be cleaned approximately every 12 months or as needed to allow proper performance.

WARNING:

When using bleach and acid special care should be observed.
Always wear hand, eye and body protection. Use rubber gloves.

DO pour acid or bleach into the water. **DO NOT** pour water into acid or bleach solution. **DO NOT** perform acid and bleach flushing at the same time. The gas generated by the mixture is poisonous and can result in serious injury or death.

To remove organic deposits from titanium tube bundle:

1. Isolate the pool side heat exchanger. (see drawing next page)
2. Mix 1 part bleach to 3 parts distilled water in 20 gallon tank or larger container.
3. Circulate via pump the solution through heat exchanger for approximately one to two hours or as needed.
4. Thoroughly rinse heat exchanger with clean water.

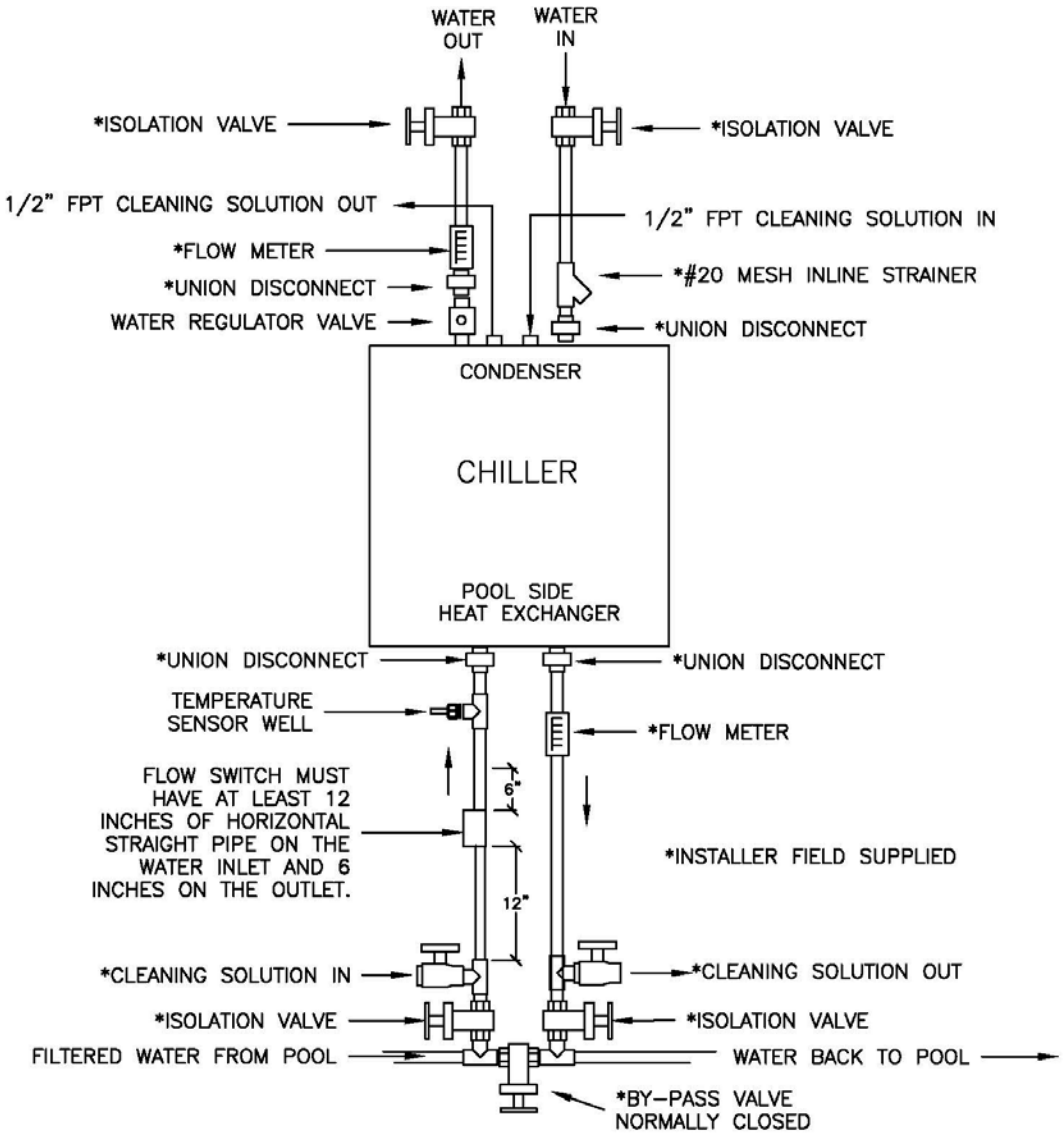
To remove mineral deposits from titanium tube bundle:

Use the same steps as above, but use muriatic acid instead of bleach. Be sure to follow the muriatic acid manufacturer's instructions for use and safety.

Condenser Cleaning:

The condenser should be cleaned approximately every 12 months or as needed to allow proper performance. Use the same steps as above, use muriatic acid to remove mineral deposits.

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CHILLER PLUMBING WITH BY-PASS

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Chiller Trouble Shooting Chart

Symptoms		Check / Solution
Chiller not functioning	Fuses or circuit breaker	1. OK > Temperature Control. 2. No power > Replace fuses
	Temperature Control	1. OK > Pressure cutout switch 2. No display > Replace control 3. Check settings. 4. Error code > (see page 6)
	Flow Switch	1. Pool water flow. 2. Water flow OK > Wiring > Replace flow switch.
	Pressure Cutout Switch	1. Check condenser entering water flow and water temperature. 2. Check for low refrigerant pressure > Check Refrigerant level. 3. Liquid gauge high pressure > Check water to condenser. 4. No water through condenser> Check water regulating valve. 5. Reset switch (see page 7)
	Compressor	*Not running > Check start components > Replace compressor.
Chiller running but has low cooling		1. Clean heat exchanger and or condenser. (see page 8 & 9) 2. *Check compressor. 3. *Check refrigerate running pressure levels. 4. Check tank system requirements. Call Aqua Logic for help.

> Go to next
*Call HVAC technician to check out the chiller.

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Chiller Start-up

Job Name	
Date	
Model No.	
Serial No.	

Unit Run Volts / phase	
Unit Run Amps	
Pool Water flow rate (GPM)	
Condenser Water Temp In	
Condenser Water Temp Out	
Pool Incoming Water Temp (˚F)	
Freon Suction Temperature	
Freon Liquid Temperature	
Superheat ˚F	

Start-up procedure:

Caution: It's important to allow the oil in the compressor to warm-up at least 8 hours before starting up the unit. If the ambient air temperature is below 60˚F, apply power to the unit and set controller so the compressor does not energize or by-pass the heat exchanger water supply so the flow switch will not activate the unit.

1. Remove the cover of the unit. (If applicable)
2. Attach refrigeration suction and liquid hoses and an Amp / Volt meter to the unit.
3. Turn on water pump to heat exchanger. Note: (Make sure water flow rate is within published rate of the chiller.)
4. Adjust the controller below the indicated water temperature to turn on the unit. (After 2-5 minutes the compressor should activate.)
5. Once the chiller is operating for approximately 15 minutes, record the information that's listed above.

Comments:

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Installation & Maintenance Inspections

Aqua Logic, Inc, Models DS-10WC and MT-5WC SPA.

Project Name: **Pool Type:** **Date:**
Inspected by:
Licensed electrician (print name): **Cell:**
Company / Company Address & Phone:

The following items should be inspection at installation and yearly.

- Ground lug and wire size. (MT-5WC SPA only)
  The service ground lug is located within the chiller cabinet near the Power Distribution Block (PDB). The ground wire must be insulated copper. The ground wire must be the same size or larger than the ungrounded conductors.

- Internal wiring and components.
  Inspect internal wires and components at installation for tightness. During transportation the chiller is subject to vibration which can cause loose wires and equipment. Yearly inspect the wires for tightness and/or overheating.

- Ground-fault Circuit Interrupter protection
  A Ground-fault Circuit Interrupter (GFCI) is not required if: the chiller is 3 phase or rated over 250 Volts or has a load of more than 50 Amps. ***See UL 680.44(B).***

- Supply Circuit Breaker
  Chillers with a current load below 50 Amps must have a GFCI circuit breaker unless the chiller is rated 3 phase or over 250V.
  The breaker is to be rated at 125% of the rated load.

Model	Load	GFCI Circuit Breaker	Volts	Wire Size
DS-10-WC	9.5 Amps	20 Amp	208-240V 1Ø	#12 @ 90°C
MT-5WC SPA	16 Amps	20 Amp	208-240V 1Ø	#10 @ 90°C

The ground wire must be the same size or larger than the ungrounded conductors.

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CHILLER LIMITED WARRANTY TERMS

(PLEASE READ CAREFULLY)**:**

All Aqua Logic Chillers are warranted against defects and workmanship for a period of one (1) year from the date of original end-user purchase. The limited one year warranty covers only the parts and labor based upon Aqua Logic service cost and Aqua Logic is not liable for field repair work without prior written or verbal agreement with Repair Authorization (RA) number with a fixed maximum charge.

On split chiller and heat pump installations, Aqua Logic will not warranty refrigerate components and copper lines between condenser and heat exchanger.

The warranty applies only to the original purchaser and is not transferable.

The warranty covers only the repair or replacement of Aqua Logic products and is limited to Aqua Logic's cost of defective parts.

Once Aqua Logic determines that the defect is due to parts or workmanship and that the product is under warranty, Aqua logic will repair or replace the product solely at their discretion.

Our warranty does not include the following:

- Damage caused by freezing, inadequate or no water flow.
- Damage caused by improper installation or maintenance by user or their agent.
- Damage caused due to misapplication of the product.
- Damage caused by corrosion, abuse, accident, alteration or improper use.
- Damage caused by flood, fire, earthquake, tornado or other acts of God.
- Damage caused by electrical spikes, surges, brownouts or improper voltage or amperage.
- Damage caused by failure of any third party equipment (ie., controller, pump, etc.)
- Incidental damage to other equipment, property or livestock.
- Damage caused by a refrigeration technician in the field with poor installation technique ie., incorrect refrigerant copper line size between condensing unit and heat exchanger, bad brazed copper joints and dirty copper lines.

In the event of a defect or failure of the product, immediately contact Aqua logic for assistance. Aqua Logic will at their discretion:

- Provide user-replaceable parts to restore the unit to proper operation.
- Provide a Repair Authorization (RA) number with a specified dollar limit for a qualified technician to provide a field repair.
- Provide a Return Authorization (RA) number to return the unit with original packaging to Aqua Logic, Inc., 8268 Clairemont Mesa Blvd, San Diego, CA 92111 by prepaid freight. You need to include the serial number as well as proof of purchase and /or a copy of the original bill of sale along with the RA number. COD shipments will be refused

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Aqua Logic Water Chiller Warranty Activation

(Applies to models DS-10WC and MT-5WC SPA water chillers manufactured by Aqua Logic, Inc.)

READ THE INSTALLATION MANUAL BEFORE PROCEEDING WITH INSTALLATION!

THIS SHEET MUST BE COMPLETED AND SIGNED BY QUALIFIED, LICENCED ELECTRICAIN CONTRACTOR.
FAX OR MAIL TO AQUA LOGIC TO ACTIVATE WARRANTY ON THIS WATER CHILLER.

INITIAL	DESCRIPTION OF CHECK (Model: DS-10WC)
	Power feed (including Ground) is of proper gauge wire.
	Power feed is of 208-240 volt 1 Phase voltage and protected by suitable 2 pole 20 Amp GFI circuit breaker.
	GFI test button are operational.
	Wall receptacle of the correct type #6-15R to match chiller power plug-in cord.
	All plug-in power cord connections for fit and function.
	All plug-in power cord connections for grounding to wall receptacle.
	All plug-in power cord connectors are dry and have drip loop.

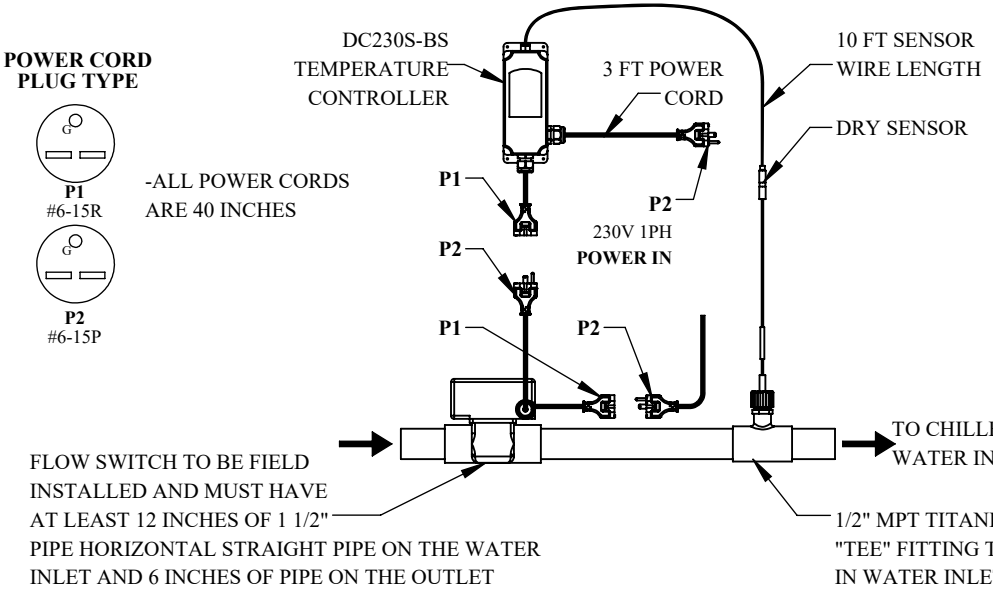
INITIAL	DESCRIPTION OF CHECK (Model: MT-5WC SPA)
	Power feed (including Ground) is of proper gauge wire.
	Power feed is of 208 -240 Volt 1 Phase and protected by suitable 2 pole 20 Amp GFI circuit breaker.
	GFI test button for operation.
	All wiring to the chiller of proper gauge stranded copper wire.
	All holes in power J box enclosure sealed with UL Listed Type 12 sealing device.
	Area in front of Enclosure is free and clear of obstruction according to NEC and UL508 regulations.

Chiller Model No.:	
Chiller Serial No.:	
Customer Name:	
Customer Location:	
Date Checklist Completed:	
Completed By (Print name)	
Completed By (Sign name)	
Phone Number:	

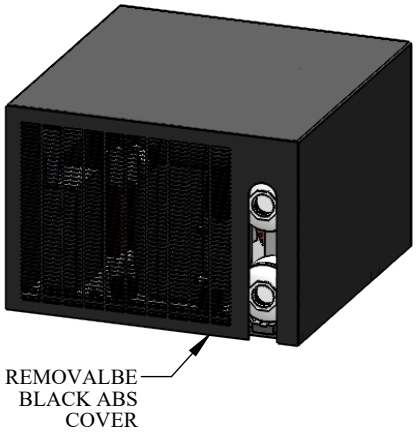
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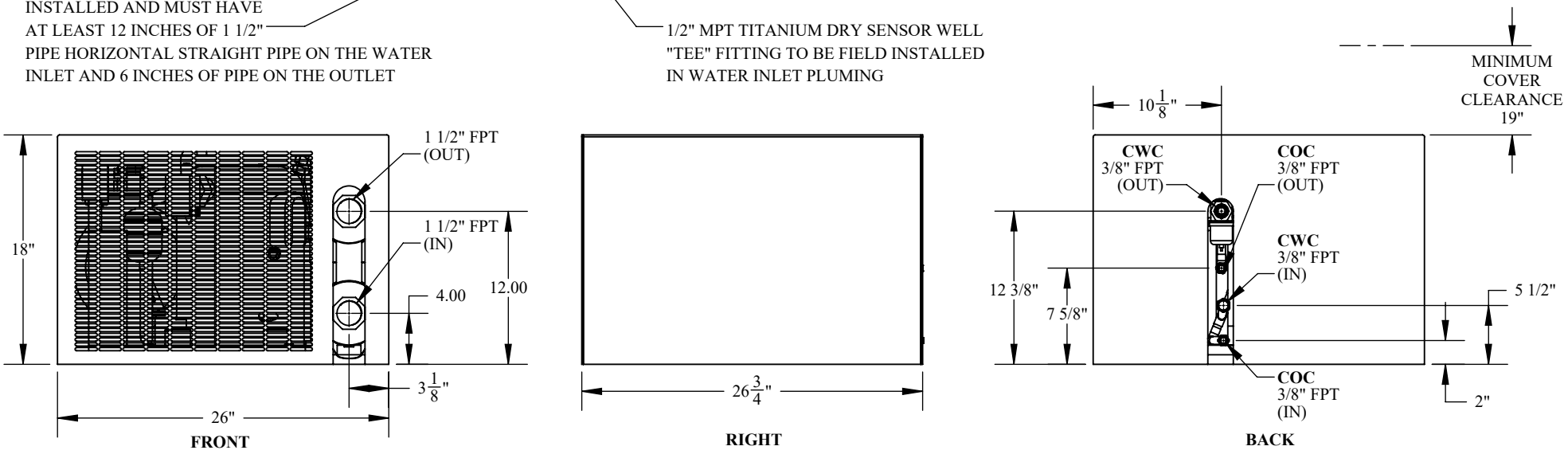
DS-10-WC SPA CHILLER SPECIFICATION

FOR INDOOR FRESH AND SALT WATER APPLICATIONS



CONDENSER WATER FLOW VS. TEMPERATURE	
°F / °C	WATER FLOW (GPM)
50 / 10	.5
55 / 12.7	1
60 / 15.5	1.5
65 / 18.3	1.8
70 / 21	2
75 / 23.8	3
80 / 26.6	4
PRESSURE DROP 15 PSIG MAXIMUM	





CHILLER SPECIFICATIONS										
MODEL NO.	HP	NOMINAL BTUH	REFRIGERANT TYPE / CHARGE (OZ.)	VOLTS / PHASE	AMPS.	WATTS	WATER FLOW RATE (GPM)	*CITY WATER USE (GPM)	SHIPPING WEIGHT (LBS.)	SHIPPING DIMENSIONS (IN.)
DS-10-WC	1 1/2	21,000	R-422B / 54	230 / 1	10.5	2415	25-40	2	250	36 x 32 x 25

CWC: CITY WATER CONNECTION
COC: CLEAN OUT CONNECTION

NOTE:
* CITY WATER GPM USE IS BASED ON THE ENTERING TEMPERATURE BETWEEN 50-80°F WITH A MAXIMUM WATER INLET PRESSURE OF 60 PSIG. PRESSURE DROP ACROSS THE CONDENSER IS ~15 PSIG.
· WATER FLOWS THROUGH UNIT ONLY WHEN THE UNIT IS RUNNING.
· CITY WATER AND CLEAN OUT CONNECTION LOCATIONS MAY VARY.
· MINIMUM CLEARANCE AROUND THE UNIT IS 4".
· ALL DIMENSIONS ARE APPROXIMATE AND CAN CHANGE WITHOUT NOTICE.

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DRAWING #	SHEET TITLE
PDF-0018	DS-10-WC SPA CHILLER SPECIFICATION

DESCRIPTION				
DRAWN BY	DATE	REVISION	SCALE	SHEET #
Chris Tran Rojas	3/30/2020			1 OF 1