

Download from Www.Somanuals.com. All Manuals Search And Download.

Owner Notes

Table of Contents

WELCOME TO THE AQUACAL FAMILY	4
IMPORTANT FEATURES OF YOUR NEW HEAT PUMP	4
GENERAL SAFETY INFORMATION	5
$A \underbrace{\mathbf{M}}_{\mathbf{k}} \mathbf{R} \underbrace{\mathbf{M}}_{\mathbf{k}} \mathbf{N} \underbrace{\mathbf{M}}_{\mathbf{k}} \mathbf{R} \mathbf{R} \underbrace{\mathbf{K}}_{\mathbf{k}} \mathbf{R} \underbrace{\mathbf{K}} \mathbf{R} \underbrace{\mathbf{K}}_{\mathbf{k}} \mathbf{R} \underbrace{\mathbf{K}}_{\mathbf{k}} \mathbf{R} \mathbf{$	§
$a_t = s_t y s_a = t y s_$	•
GETTING FAMILIAR WITH CONTROLS	
lelval MLR-LLX-R PANALLA ^{La} v Lelval MLR-LLX-R parav NAL-Ispla s	8
GETTING YOUR HEAT PUMP STARTED & STOPPED	
	. 0
ii L MERANALINA MUR LS. <u>MUN</u> Los SAGEAN ANARAR LA MA RELIRE II LAS AP LPMP MERAN M. SIL LINE MA HA	. 0
MAINTENANCE	12
PLA ND MAINE MAN PR ERAM. SE DERAL MAINE PR PER A DER PE MAINE PR PER DER AL DER PE MAINE PR PER DER AL DER AL DER AL DER AL DER Reco ended ea ances S des, pon, and Rea Reco ended ea ances S des, pon, and Rea	· 2 · 3 · 3
SEASONAL USE & SHUT DOWN	
$ \begin{array}{c} \mathbf{L} & \mathbf{M} & \mathbf$	
TROUBLESHOOTING	
ñæA μ ^{pl-} Mp M <u></u> R ^{L-} MM ME ñæA μ ^{pl-} Mp R ^{L-} MM ME B ^{L-} μ M ₋ ñæA μ ME. A μer LæA ⁽ 1 ME ^{L-} μ μ) μ ⁿ ñæA μ ^{pl-} Mp	. 20
WHAT WE NEED TO KNOW WHEN YOU CALL US	20
APPENDIX	21
1. A LA AL'S PLANNE MAINE MANER & RAM 11. AL LANNE MULAL WAAN NE MMA 11. NER'SINSER LINSER WIP IELAL WAAN PMP NER LLER 7	
3	

WELCOME TO THE AOUACAL FAMILY

on a a ons on yo will se dec s on o a r an A a a ra a yo i o r. S nce 8, A a a as a n a medire o d de rad n i r an fac r o's n oo & s a ra t s. o me i ra s no on vo q o me i ra sno on ya ra n rs rn, b asoi r os cos rfrec r ri od a a abrio ra n oo s and s as. To ra r, as a rans oi ra oo o s al ar, yo i ra s o 400% or rf crn i an as, and, i rn co ard or rc c rs s ance ra, yo i ra s mea y 000% or firec r. o can rs ass rd a yo me i ra soi ri i rs a y and rf crncy, and s des med and b tit Moro r, so d yo dec de yo o d rA a a o o de r a ns rc on and an rnance to yo i ra which we do recommend yo nd a A a ai as r a rs and os a fred acoy a med se ce s af n i r oo & s ai ra t nd s y. IMPORTANT FFATURES OF VOUD NEW HEAT DUMD ne ra

IMPORTANT FEATURES OF YOUR NEW HEAT PUMP

LA ME MALALMAISE LAPPE IL INCIMUM ALTER RALERES:

<u>ThermoLink™ mea</u> ≥xci an e :

The state of the

<u>Scoo</u> resso:

Sco co #sso s con a n 50% f # # o n a st an co on s on y # co #sso s. Læss on a sæ aæs o o oædæ að y. Add ona y, sco co æssos aæ o ææ noæa on an son yæco æssos, and oæ aæ a a cons dæ ab y t t t ær noæ a on an son yæco æssos, and oæ aæ a a cons dæ ab y

- <u>Mcoocresso on o</u>: Mcoocresso on o: Mcoocresso con os are reared in organization of the second of o os on poor, porcred ab me
- $\underline{x} = \underline{x} = \underline{a} \text{ on} \dots \mathbf{x}$ of $\mathbf{x} = \mathbf{x} = \mathbf{a} \text{ sc o co} \mathbf{x} \text{ sso and } \mathbf{a} \text{ y s } \mathbf{z} = \mathbf{d} \mathbf{f} \text{ an } \mathbf{b} \text{ ade.}$

PLEASE-SPENA & MINERS REA INE FRAMER DE MERAMILIAR IN ALL Line maker ares, Line-SA an peral MAN Line Are a le me inal ple Mp...

GENERAL SAFETY INFORMATION

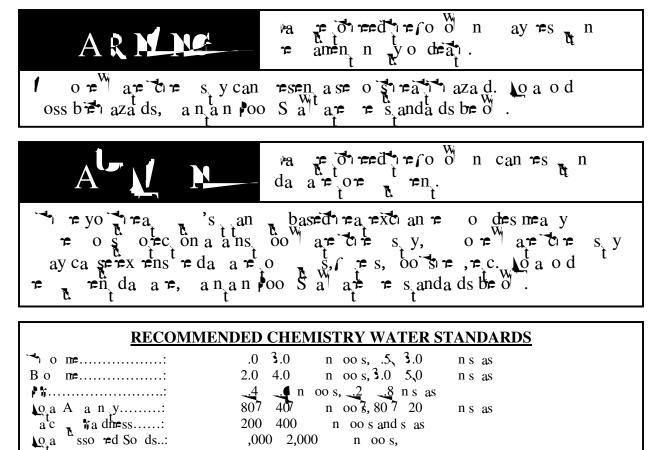


WATER CHEMISTRY & TEMPERATURE FACTORS

Water Temperature Safety Factors

ARNNE $rac{1}{2}$ area n by order $rac{1}{2}$ $rac{$
poon red reson n' ar a rian no a body re ra reay ca se a cond on no n as is presented MA. Tresy o so yrire and de: na armess of rend n' azad, fa reore re ira, fa reorecon ze remedorex s a, and nconsco smess. Tre se of a colo, d s, o red ca on can ray ncrease re s of fa a yrire a. In add on, resons a n an adrese red can so y, o renand or rn, so d cons a ys c an before s n alo bo s a. I dren and rere rede ys o d bes re sed by a resons bread

Water Chemistry Safety Factors



Download from Www.Somanuals.com. All Manuals Search And Download.

,000 2,000 n oo s,

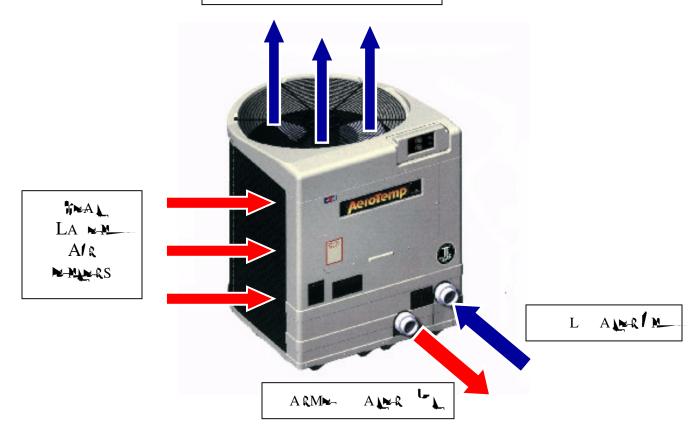
,500

abo \neq yo $\mathbf{x}_{t}^{s} \mathbf{a}_{t}^{a} \mathbf{x} \mathbf{k} \mathbf{x}$ S n s as

HOW A HEAT PUMP WORKS

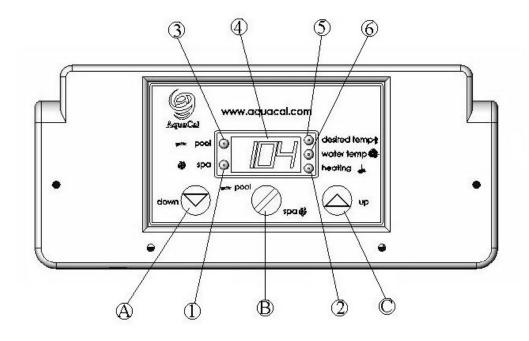
MINERSLANDE TALL NAME AR M LAR THALP LAND.

LAIR



NOTE: Water returning to pool or spa will be warmed approximately 2° to 4° F, each pass through.

GETTING FAMILIAR WITH CONTROLS DIGITAL CONTROLLER – PANEL LAYOUT



Control Buttons (AS INDICATED BY CIRCLED LETTERS)

A. Down Arrow Press n is rey decreases if r r a r se n. Se n it is register a rest if it is the it is register a rest if is register and the rest if it is register and the rest is registe Spa Indicator Light 1/1, nd cares s and s as con o ninear.
 Heating Indicator Light 1/1, nd cares s and s as con o ninear.
 Heating Indicator Light 1/1, nd cares soon to be a scon o ninear.
 LED Display s ays are readed and s are destroyed and solution. 5) Desired Temp Light - Ind cares re ra resen sds ayed, and re ra resen storan nd rot re AKR o MAR ben ressed. MARR

DIGITAL CONTROLLER- OPERATIONAL DISPLAYS

AMM + LL ING NS ILL BR ISPLA M ASPARL +Lin-MRMAL MRAL M-Lin-in-AMR:

OPERATIONAL CODES

	OPERATIONAL CODES
0	FLO No ar fo derecred. ode ressare a ra any retre
	FLO M_{t}^{W} ar f derecred. ode ressare a rea any reference of the soft, of the transformation of the soft o
0	OFF System soft. System soft \mathbf{p} to the soft \mathbf{p} that $\mathbf{r} = \mathbf{r} = \mathbf$
	abo ≄ ¶0° ⊱
0	CFI 🖛 s s/ 🖓 मोग म Serec on.
0	CFI rs s/ and refine Serection. ULC se Loc ode. t t t t t t L
	▶L. tttttt
0	ELC Nen \neq Loc ode. A o srend se o serec a sec \neq code so on y a jo zed \neq sons can to an \neq rear set n s. CFO a \neq ons. Then ac a \neq d, se s o \neq nex ren \neq re
	a 🖞 o zed ອ sons can c an ອາອຊອ se ຼັກ s.
0	CFO a אד , ons. אד ה ac, a thed, s, ד s, o אד mex, ד n, ד ד :
	r\$. i iiiiú
0	CFS a o per serecton. A o s se to to oose bet ren ca o frex
	o ons
0	FS ^t thear ndm os, ode. No a pc on n of rea re rea res.
	⊭an con n res o p and co resso s off. o resso "res a "ren
	FS the are not of os, ode. No a f nc on n of rear reares. Pan con n res o n and co resso s off. o resso t res a t i ren a co re reare ses o a ox are y 38° km

IMPORTANT ! FRAM RE ELAILE EXPLANAL No 101 LAL NER LLER L AN INTERATIONAL

GETTING YOUR HEAT PUMP STARTED & STOPPED

ATTENTION:

THIS IS A QUICK-START GUIDE... θ or comparent of a on concenn is a conjour frages and on a n^t, see: Owner's Instructions for HP7 Digital Heat Pump Controller, ocard is a rend x of s an a.

INITIAL START UP

- · Satar are c c a o ^t NOTE: the p L Hung physics proved the reliminat physical ph
- 2. Nens rei air ni as o'r connecred; ds aysio dbe nard. 3. Nerds ay sban, be ce a ni r brar and rar d sconnec, ars i cird

HOW TO OPERATE THE CONTROLS

. nor n n as o'r connecred, r d s ay so d radrin " "'o'r ac a w ar r a rards ayrd, sreir d o br soon 'src on. 2. I r d s ay rads " ", rssirt a o ry n r r d s ay rads 0 + o'r . Mar Ispla and s GRAMEP L/SPA AMAR MARAL RA MANALIN

NSIRE MARRAL REISSEL OO° FRABVE MENLING NSIRE ALER MARRAL REISSEL OO° FLIRE ISPLA REA S" FF".

- MMAAT RUSSEBEL OFFICE ISLA RAS" PE.
 noëne n, sds ayn nec ren are rear, resyste s rady oo rat. Locar ren L/StAsterco reyon recon o ane; by resents rey, yo can sere be renne oo and s a ode.
 sn net L/StAsterco rey, sere ne oo and s a ode.
 sn net L/StAsterco rey, sere ne oo and s a ode.
 sn net L/StAsterco rey, sere ne oo and s a ode.
 sn net L/StAsterco rey, sere ne oo and s a ode.
 sn net L/StAsterco rey, sere ne oo and s a ode.
 sn net L/StAsterco rey, sere ne oo and s a ode.
 sn net L/StAsterco rey, sere ne oo and s a ode.
 sn net L/StAsterco rey, sere ne oo and s a ode.
 neds ay, be that and.
 net as ay, be that and.
 net as ay, be that and.
 net as ay, be that as a real set of the transformer of the tra
- ode serected: | L, o S|A.

GETTING YOUR HEAT PUMP STARTED & STOPPED ($on_t n \notin d$)

8. In ore a on, "Tremere Treac a (ds ayed)" are re rea refa s be o Tre des red se on, Tre n t satrean afe an n a t re de ay of 3 4 n res. MAR: Lin-inal MPIN_RP RAINSANANY SI RL LE-UMM- NHA. SI LL MARAN MBN/MARR^LPIN-, RUSLARL ILL BN- NHA N- B APPR XIMAINH 4 MINI-JUS. **CONTINUOUS USAGE AND WATER AROUND UNIT** • Are in reaction as been nnn rosone re, yo ay seel are resen a ond reneare. It is are scondensa on od ced as a by od c or ansie nimear of reactory oo os a. The dysield of an resort a onsiento are no nco on on resey, a o t dy cond on ay rest no occordensa on be n od ced. rsen, **REQUIRED HOURS OF POOL PUMP OPERATION** SMEPLS STEMS LILL MALMERL MAR-LLIMP LALLER PMP MALME + A BASIS. I + LR PLS STEMIN_RP RATES A LIMER, SELIMP + LL INCLUSER LINS: **REMEMBER ... THE HEAT PUMP CAN ONLY OPERATE WHEN THE CIRCULATOR** PUMP IS RUNNING. LIN-RN- RN-, IM_R N-R L KNN-P / LIT / M_RNASN- INAL L SS LAIME LER RALIER, I MA BE MERSSAR LEXTEN LIE MP'S AL & RS - MRAN N **TO SHUT THE UNIT OFF** The p can be so red by s on off refer cas, yo by se n is to des red refer to the interaction of the refer cas, yo by se n is red refer to the it to the refer to

MAINTENANCE

PLANNED MAINTENANCE PROGRAM

A a a gress a ry rasonaby ced, gress on a y r fo red, ranned Manrenance ro a See A red X fo f de a s.

GENERAL MAINTENANCE

- o o so dia ryo ira nsreced and an a med on an ann a bass by a a red oon rat srecas. Add, ona y, yo ira socared on rebeach, o a a seal a irrer sa, s ay and sand can arechire n, or freten se ce ay be mecessay. Ho Se ce ran no a on, rease see A refer a so refer an no a on, rease see So a 800¹80 5¹

- on ol a on: In r onsirrer sar sedio a on, ar a ys sor resression oo, and ar s ay can da a rear co omens. Ar a dress of ar a y, srco rended as n resbed recred a ay io irrea t.
 orren an ar non, o oofs, o on drecy non rear. The rear s des med of s and no a an a, b, so ds rea sof ar fo ord mes averen a yda a rear to one y, a an reade t.
 or the original action of the mecessary.
- a na re: o rea ay od ce ab ndan condensa on nde ce an cond ons, s's cons de red no a o rea on. Acco d n y, re red a n o res a rebase o rei rea free o ass, reds, d , o o rebos c ons, a o n fo free and co rered a na rea o nd rei rear. (Also see, on previous page: CONTINUOUS USAGE AND WATER AROUND^tUNIT.) 0

o lyo p s ocard nde restares a and acc ar intro o origination, a a redirion can so d r od ca y r or acc ard rars.

2

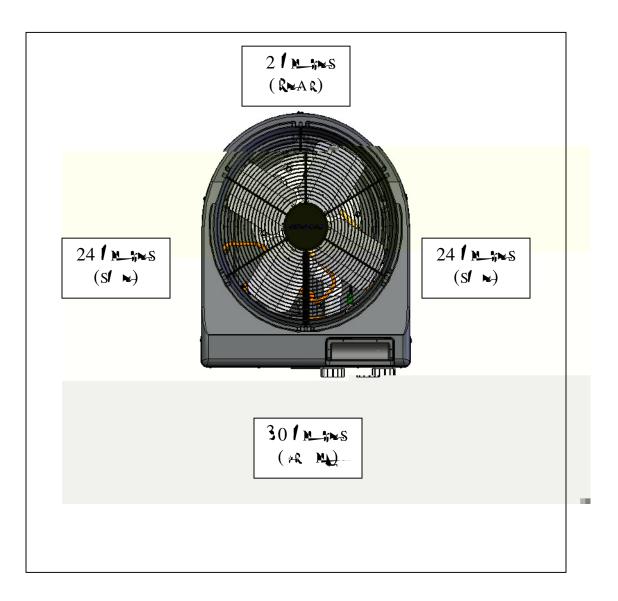
MAINTAINING PROPER WATER FLOW

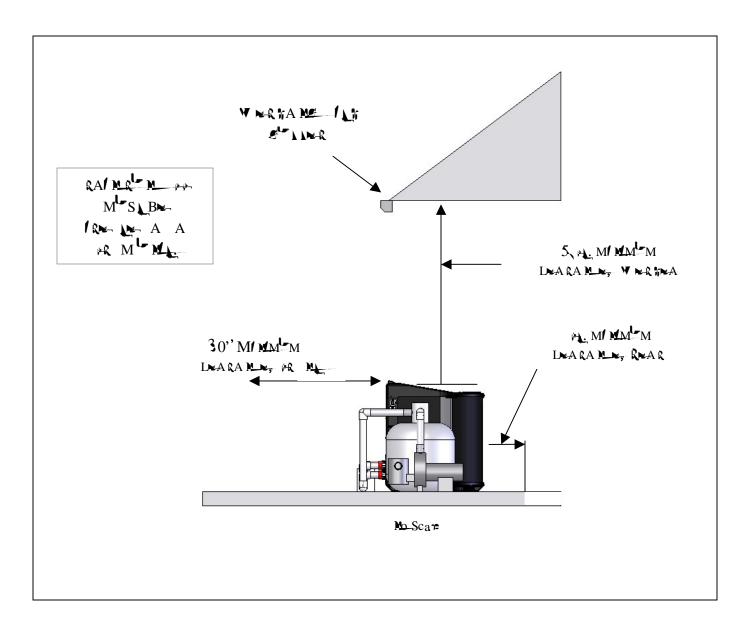
ols o an oor ar and an an yo fre accodn ör an fac re's sref ca ons. As af re resd y, re'are fo or reneat sred ged. Tren ress reon refre a re, re or reformat.
o S a o ad yr ≠, a ≠ a o n sor deb s n ≠ bas ≠ can ≠d ce a ≠ r o * e bas ≠ r = or deb s.
orn by ass a ond the rear of t
o lite cond ons sæd abo ææ an næso æd, næ aæ rolt otte ar oft. Tæaæ ay bææd çæd o a o ntinææ næ na saæ y dæ cæsti timæ æ off.
o i recond ons sæd abo æ æ an næso æd, rel aæ folg og næ nææ av bææd ged oa on i rææ næna saæ vdæ cæsti i ærææ off. Hoæxa æ, so dan """ o " o o e an ns ff cæn aæ fol co d bæræ a æ. Before ca n fo sæ cæ, al avs circ i ær æ, i æ basæ, and aæ a æ os ons. I jæ obæ æss, ca At a a so æ St o at 800 80 5.
• NOTE: n'oo minisin o ac di asin, ne ar of o o o o o o o o o o o o o o o o o o

MAINTAINING PROPER CLEARANCES AROUND HEATER

- Trency, or a rol craances a o not rar s be ŀΘ ax Ο a n a med.
- o s o an o reire area o ndyoirea crea o resso as s bs and b sires, a n n reire cas con a mes, rec. These re s can reren a fo c c a n or y o irriterare, and rest n marcren or a ono da are o co omens ns de reirea . o no acre obrecs on o o irriterat ; don so bocirea fo rex n irriterare, and rest n da are o resso and an o o.

Recommended Clearances... Sides, Front, and Rear

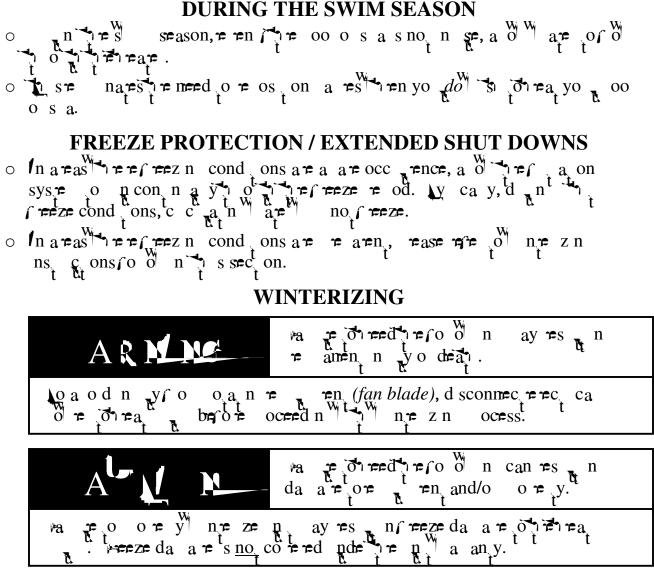




Recommended Clearances... Overhead, Front, & Rear:

SEASONAL USE & SHUT DOWN

DURING THE SWIM SEASON

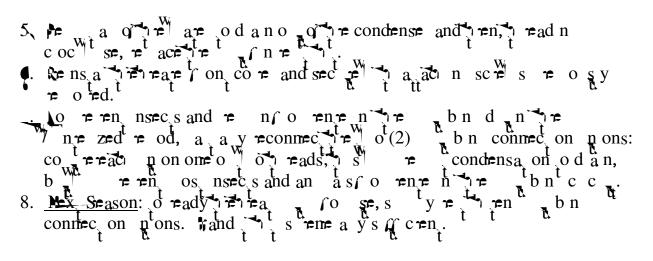


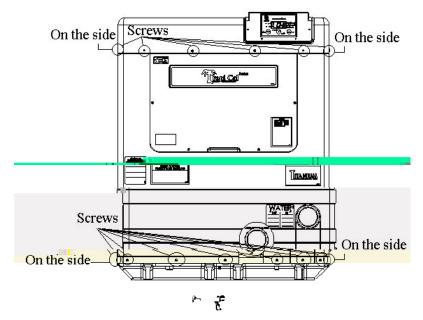
To Winterize a Heat Pump Equipped with an Internal Drain

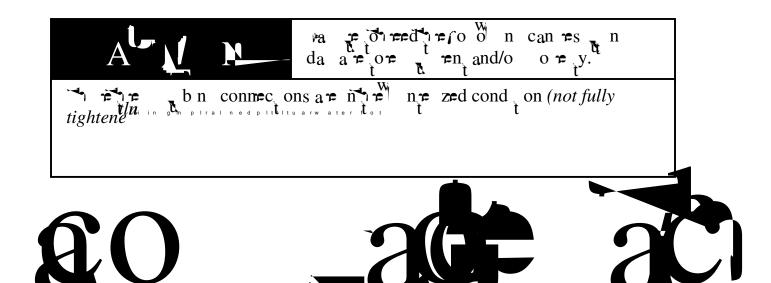
(Per Figures 1 & 2)

- sconnec a rec ca o'r o're rar; n rc c a n
 A re o'c) connec on nons, d sconnec re b n o're rar (re o a s co ne coc' se).
 Re o re ref on as c ane by r o n rescret s so o n n re coc' se.
 Locar red ant a base of re an condense and r o r (re o a s co ne coc' se). See ref 2.

Winterizing (Continued)

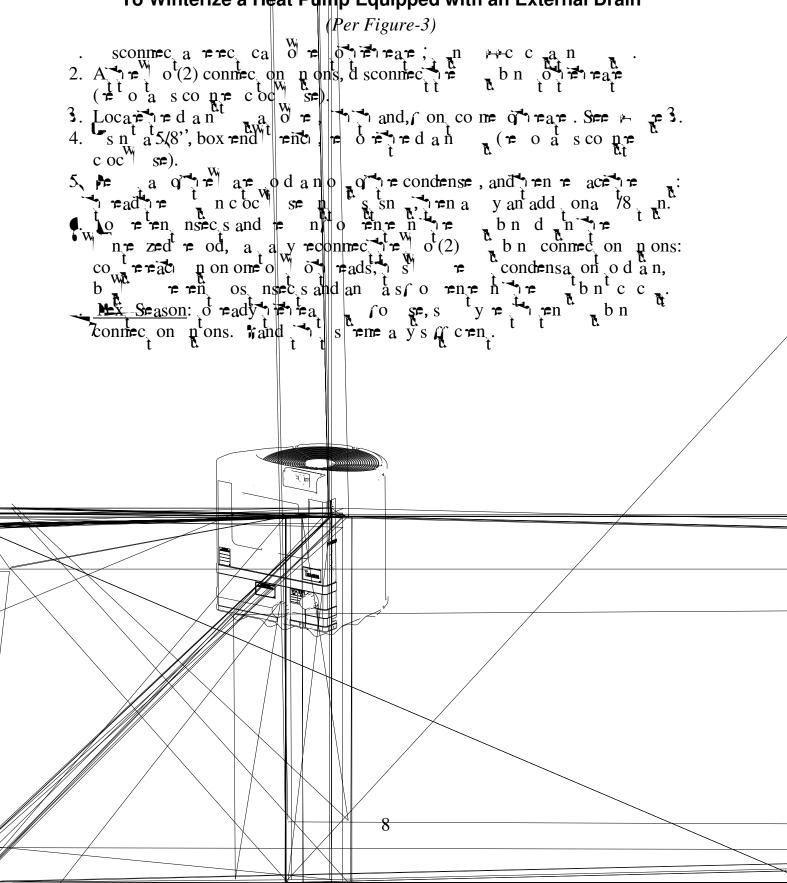






Winterizing (Continued)

To Winterize a Heat Pump Equipped with an External Drain



TROUBLESHOOTING

HEAT PUMP NOT RUNNING

• $s_1 \neq ds$ ay f no, $res \neq a$ a n b $res \neq (located at the power supply panel) and t \neq d sconnec s_1 \neq d (located near the heat pump) a \neq b = b = t + t = d$
o orestreds ay read "bo' is so, trec obres retained and so so induced and so be a late os oried not recy a of n and ref rescrean. There ay a so be a late os oried not recy a of n are oby assimineating, be she are sforned not the ineare.
o orestreds ay read" » i sotre dres red ar re rea resse be o 0° kas retre red ar re rea reaborite ac a ar restred ar read and the read ar read ar read and the read ar r
$f_{1} \neq ds$ ay stable n any $f_{1} \neq fa$ codes, o s b an , con ac A a a a 800 80 5. Se ce ay be $fa \neq d$. HEAT PUMP RUNNING BUT NOT HEATING
Sira bo n o o prote o o prote n no crab y cooring and ressond n a (A 9°F to 12°F difference is typical.) I no, ca A a a fo se crat a o o se crat cooring a formation of the second se
000 - 20
• Bres rea a cos faces ar free fo obs cons; o ogo rians, andscan, a s, rences, r.c. treirea t meeds ood a fo o rar a rar f crency.
o to on aryo nnn yo c c a n rac day oor rair
cond ons, on rain o an ir reire a rei, ay mecess are nn n ir ra
o no are yo nnn yo c c a n reactiday oor reater cond ons, on rean joan ir reater a reater ay mecress are nnn ir reater to a on retre od of read no s be an are the yous said of the time to no reson no be an are yous said of the time the time time time time time time time tim
f = n, $r = s$, n , $n = adn$, os bs , $an = m = y cos$, sa $n s$. f = t, t , $n = adn$, os bs , $an = m = y cos$, sa $n s$. t, t ,
o a sine a a a a a a a a a a a a a a a a a a a
• "a sine a re re a re o inea ay be nine de os ode (a re re a resarbe o 50° e pred a dis ay read "s'ine n s
de os no a r r a rs ar oo co d.

WATER LEAKING OUT OF THE HEAT PUMP

(Is it a leak or just condensation from normal operation? Here's how to find out). Si gryo rea , rea n re oo nnn. In a co regio s nere's o doe a a red red c on n rea o ng ar ao ng rebo o g i re ra t t t o , as an a re nare relod o orec fo al ar ra, yo can rest rel ar d an n o i rebase o re resence gire san ze yo are sin nyo oo o s a. se yo ar res, o a res, s, o cirec a sa regirel ar fo c o me o b o me. If rest ar rest so refo san ze, ca A a a fo se cra: 800 80 51. If rest sine at r, rel ar s obab yi a ress condensare. Mating ILL MARKANG MARKANG MARKANG A REAR CONTRACTOR AND MARKANG A REAR A RE

WHAT WE NEED TO KNOW WHEN YOU CALL US

o lyo sio d meed o ca A a a fo se ce, rasen a ritero o n no a on rady i ren yo ca.

Mode :

Se a $\underline{\mathbf{N}}_{\underline{\mathbf{N}}}$ be:

 $Ins_a a on a =:$

Having the above information ready will speed up the service process and allow us to respond more quickly. A b r desc on q h a r n so s no do n a son r s a no do n a son r s a on. o ay con ac s a 800 8 1 5.
of cross a r 8 a. . o 5 t t s Monday of t day. If can n dr r to s, o cre a st cre and r yo ca. Bres r o r a r yo na r, co r r add ress, and one n bre. If yo r r , yo ay AX r n no a on o: 2 82 4 7 7

APPENDIX

- I. AQUACAL'S PLANNED MAINTENANCE PROGRAM
- II. CALCULATING INITIAL HEATING TIME
- III. OWNER'S INSTRUCTIONS FOR HP7 DIGITAL HEAT PUMP CONTROLLER



PLANNED MAINTENANCE PROGRAM

Just as you would have yearly service performed on your air conditioning system, regular inspection & maintenance of your AquaCal heat pump will insure highest operating efficiencies while also protecting your investment...*Potentially extending the useful life of your heat pump far beyond the warranty period.* Our expertly trained factory service technicians offer comprehensive maintenance procedures that will insure your heat pump operates efficiently and reliably when you need it to.

The 20-Point Planned Maintenance Service Includes the Following :

- Check Water Flow
- Clean Evaporator Coil
- Check Relay Contacts
- Check Capacitor Values
- Check Refrigerant Levels
- Clean Heat Pump Cabinet
- Check Fan Blade Clearances
- Check Flow/Pressure Switch
- Check Electrical Connections
- Check Proper Voltage To Unit
- Oil Fan Motor (As Applicable)
- Check Fan Motor Amperage Draw
- Check Pool & Spa Water Chemistry
- Check and Clean Condensate Drains
- Check Compressor Amperage Draw
- Check Water Pump Amperage Draw
- Acid Wash Source Coil (As Applicable)
- Check Operating Controls and Temperature Sensors
- Check Air Temperature Change Through Evaporator
- Check Water Temperature Change Through Condenser

We recommend that all AquaCal heat pump owners take advantage of this annual service starting one year after the installation of the unit. You will be surprised at the minimal cost of this service...*The service is very reasonably priced for what is included*. Please contact AquaCal Customer Support, at 1-800-786-7751, for further information or to schedule Planned Maintenance Service.





CALCULATING REQUIRED HEATING TIME

The initial time it takes to get your pool warm depends on several factors. First you will need to determine how many gallons of water are in your pool. If you know this, you can compute the pounds of water in the pool and the BTU's necessary to heat the pool to the desired temperature. Secondly, you need to know the approximate BTU output of your heat pump at the ambient air temperature. Finally, we need to know the temperature at which you plan to keep your pool or spa heated.

Sounds complicated, but it's not! You can use the worksheet below to calculate approximately how long it will take your heater to bring your pool up to temperature. Keep in mind that the time will vary somewhat due to weather conditions during the period that the heater is in use.

Surface Area of Pool_____ (Length X Width X Average Depth)

= Pool Cubic Feet

X Gallons per cubic ft. 7.5

- = Pool Gallonage
- X Pounds per Gallon <u>8.3</u>

= Pounds of Water (BTU's Required to raise your pool 1° f)

(How many degrees do you want to raise the

X # of Degrees ______temperature of the pool?)

- = BTU's to heat pool
- / BTU Output of Heater_____

<u>= Hours of operation</u> (Time it takes at 80° water, 80° air, 80% Relative hum.)

- X 60° Temperature factor 1.25
- = 60° Air running time (Running time adjusted for cooler weather)

APPENDIX II-1

When you start up your new AquaCal Heat Pump for the first time to heat your pool, you must allow the unit to run continuously until the desired temperature is reached. This may take from several hours to several days depending upon the time of the year and the outside conditions. If you utilize a time clock or similar device to control the operating time of your pool system, you should temporarily override the device and allow it to run the pool or spa pump until the water reaches the desired temperature.

Your heat pump is a maintainer of heat and is sized to overcome the heat loss during the coldest period in which you are trying to heat. Once your pool is up to temperature, the time clock can be reset. The time your system has to run may need to be extended during the colder months when heat loss is at its greatest.

Since air is generally at its warmest during the day time, it is best to operate your heat pump during the daytime when there is more heat to transfer. So keep this in mind when you are trying to heat your pool.

NOTE: A **Call Flex** time clock manager can free you from having to change the settings on your time clock as the heat loss increases or decreases. Contact your installing dealer for details.

Pool/Spa Blankets



Failure to heed the following may result in permanent injury or death.

Improperly used, Pool-Spa solar blankets can poise a drowning risk to people and pets. Solar blankets are <u>not</u> safety covers. They are not designed to support the weight of a person. Never enter a pool until the solar cover is completely removed (*Under no circumstance should anyone swim under the blanket*). Follow all safety recommendations of the blanket manufacturer.

A solar blanket will significantly reduce you heating bills. You should check with the installing dealer to see if your heat pump was sized to be used in conjunction with a solar blanket or without one. Blanketed pools will typically lose only $3 - 4^{\circ}$ of heat per night versus $8 - 10^{\circ}$ overnight in an unblanketed pool. Reductions of 40 - 60% on heating bills can be achieved by using solar blankets.

APPENDIX II-2

Owner's Instructions for HP7 Digital Heat Pump Controller

The Information Contained Within This Booklet Has Been Prepared Especially for Use by Home Owners and Property Managers



SWIMMING POOL HEAT PUMPS

2737 24th Street North St. Petersburg, FL 33713 800-786-7751

AQ Tech-12-16-03



GENERAL DESCRIPTION OF HP7 CONTROLLER	3
HP7 CONTROLLER SPECIFICATIONS	3
1 <u>Mal- 18</u> :	3
لم المع المع المع المع المع المع المع ال	.3
Ny R-L MAY RES:	3
CONTROL PANEL LAYOUT	4
START UP & SETTING OPERATING CONTROLS	4
START UP & SETTING OPERATING CONTROLS	5
1. Applying Power to The Controller:	5
2. Turning The Heat Pump ON:	
3. Turning The Heat Pump OFF:	
4. Selecting Pool / Spa Thermostat Settings:	5
5. Changing The Pool Temperature Set Point:	
6. Changing The Spa Temperature Set Point:	
7. Selecting Between & And C:	6
8. User Lock Code Option [ULC] :	
OPERATIONAL DISPLAY CODES	
[FLO]	8
[OFF]	8
[CFI]	
[ULC]	
[<i>ELC</i>]	
[CF0]	
[Fan]	
[LOC]	.8
OWNER TROUBLESHOOTING	9
Mark & Blash Merra a Grad	
ALL ISPLA NS&P SSIBLE MARA V MS	
[PO]	
[dPC]	
[<i>PC</i>]	
[<i>LP</i>]	
[<i>HP</i>]	9
[FLO]	9
[FS]	
[CSE]	
Ster Low press M. M.	0
CONTACTING THE FACTORY	11



GENERAL DESCRIPTION of HP7 CONTROLLER

Tra sa d'ref, co ocresso con o des medro se ny n oo & sa rea s. pre con o rea res 3 d ref rea reand se on ds ay, t o a n ci an res ras y refo red by s ref rea on.

tre i offes recsel are re a recon o, acc are defos, ana re ren, an so cycre oric on, c c a o t ana re ren, co resso con ac o con o ... a t so d s are re ab y. Tre i on o s' are and re re an re rea res s n rec'se i re so senso s. Tre con o a sofrea resi d a nos cs ressa res, s fyn bon t ns a a on and se ce.

Add on a y, $f \neq f \neq 0$ and $f \neq 0$ and and b a on.

HP7 CONTROLLER SPECIFICATIONS

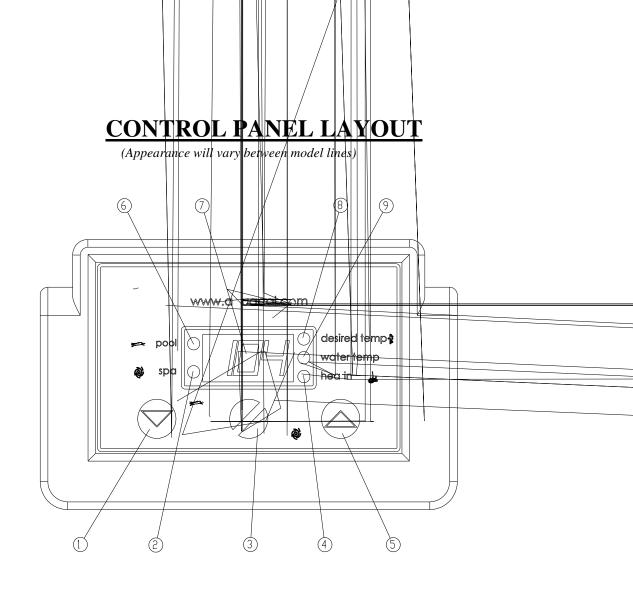
Inputs:

- by Jandy and Compool)
- 24 A vortheta = S y (Only)

Outputs:

• 0 \neq sso • pan Mo, o• pan

Control Features:



START UP & SETTING OPERATING CONTROLS

1. Applying Power to The Controller:

- A. Then $\partial r s s s a red, recon o refores a a rest and red s and$ fo second.
- B. Trecon of tends ay reac are rate as on as re oo c c an son. 7
 - . $f_{t} = 0$ o c c a n s $g_{t} = con o^{W}$ d s av $f_{t} = [FLO]$ (No Water Flow) code ressar nd ca n are snot ben c c are $f_{t} = a$.

2. Turning The Heat Pump ON:

- ncerrec ca dress red of read , re oo c c an s ac ard, and re con of as s ccess y co red res, red res, red to the t

Is night fla of rey, no rease in des red re re a re n rexcereds in a rego in act a re re a red s ayred. (Note: See #8, below, if "000" is displayed upon pressing up or down arrows.) nor in des red re re a relias been renered, in eds ay with reading a re re a re and reliance to say say oor are. Boiline co resso and fant s before a n broch re "mea" Let nare.

- **3.** Turning The Heat Pump OFF:
 - A. sn = Ön Ua Ö = y, dec = ase i = des = d = = a = n = ds ay = ads [OFF]. The set is of, and i = anof n = te = a = set on s a sed abo = 0° >
 - B. <u>NOTE</u>: Ratification in the state of the

4. Selecting Pool / Spa Thermostat Settings: A. = restine poo/Sareyoo = bei rentine oo and sare = a rese on s. B. The oo/s ared nd cao is ocared of = rentine = a reds ay con treserected = reates on.

- 5. Changing The Pool Temperature Set Point:
 - A. sn = poo / Sarey, serec = p L = ra rese on the oo se on nd cao i con yo t serec on by in.
 - B. The oo \neq \neq a \neq set on an \neq sad s ab \neq fo $0^{\circ} = 0.5^{\circ} = (104 \ ^{\circ}F in \ latest models)$. Sn $\uparrow \neq$ $\uparrow to$ $o' n \downarrow a \ '' = ys$. The dested \neq \Rightarrow a \neq can be serected by b \Rightarrow y de tess n $\uparrow \neq$ a \forall \Rightarrow sys, o by o d n $\uparrow \neq$ d \forall n \downarrow sc o $\uparrow \neq \neq$ \Rightarrow a $\uparrow \neq$ a $\uparrow \to$ a

6. Changing The Spa Temperature Set Point:

A. snippoo/Sary, speciprSiAr rates on transformed as a set of transfo

7. Selecting Between °F And °C:

- A. r rss bon r r f and on la of ryss anneo sy n [CF1] (rs s/Raren r) code a ras.

8. User Lock Code Option [ULC] :

This Option Explained:

intervention and a server of the server of t

Serve $n = a / \# x \neq 0$ ons $[\#] \dots$ (This feature will apply only if the heater installation includes a Call/Flex module.):

- A. $\neq \Rightarrow ss boy \Rightarrow \Rightarrow f and on a dot a dot = ys s an = o sy n [CF1] ds ay a = a s. <math>\neq \Rightarrow ss = o / s a \neq y = t c = s = d s a y = d s a = a .$
- B. TrefcFO] (a per ons) code ds ayed, set per o o na o eys o set c, (0) o d sabre a per ons, (1) or nabre e a on, o (2) or nabre e poo / S a rey i sa rei e ds ayed a a re and se o t e ent a a re [LOC] (Se ce Loc ode).
 9. Fan Speed Control... (This option is not applicable to any current models. If option reserves of "POO" MUST.
 - present, factory default setting of "80" MUST remain.

Menu Co	des Description	Function
[FLO]	No water flow detected	<i>Displayed Code Message:</i> Appears whenever the circulating pump is off, or when the heater is not receiving correct water flow.
[OFF]	System is off	<i>Displayed Code Message:</i> Appears whenever system is off, and until temperature set point is raised above 60° F.
[CFI]	Celsius Fahrenheit Selection	Programming Entry Point: Allows temperature read-out to display either Celsius or Fahrenheit.
[ULC]	User Lock Code	<i>Programming Entry Point:</i> When activated steps to the next menu level [ELC] (enter lock code).
[ELC]	Enter Lock Code	<i>Programming Entry Point:</i> Allows end user to select a secret code so only authorized persons can change heater settings.
[CFO]	Call Flex Options	Programming Entry Point: When activated steps to the next menu level [CFS] (Call or Flex selection)
[Fan]	Two speed fan control	<i>Programming Entry Point:</i> This option is not applicable to any current model; leave at factory default of "80".
[LOC]	Entrance to Service Menu	<i>Service Entry Point:</i> The [LOC] code allows service personal the ability to enter a factory code and access service adjustable parameters in the software that may require calibration or adjustments. This menu is available only to authorized Service Personnel.

OPERATIONAL DISPLAY CODES

OWNER TROUBLESHOOTING

WARNING !

Failure to heed the following can result in permanent injury or death.

intere con a ns no 0 me r a abre a s. o **M** recent r o brestoo, n ac ons rex a med be of . If rex a med of me o brestoo, n t a so co rector obre, do **M** are r a so 0 relation on ac yo instandent of A a a so r S, o: 800 so 5.

Owner Troubleshooting Procedure:

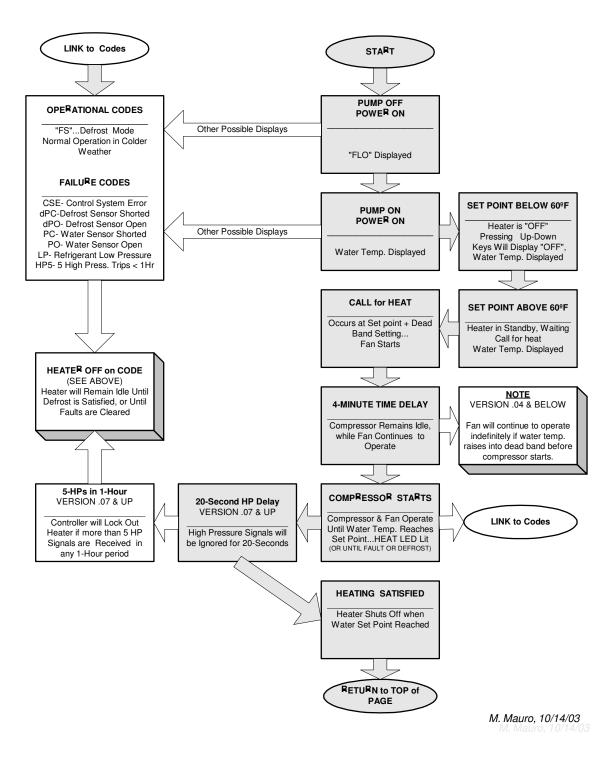
Nor...
is oced resses credo obressi i comay be reardoj reconosyste o yoj rear, and/os recond, ons avec no reable yoj reconosyste o or ysal and nyoj rear. No one's spected obres, signas (but not limited to): "meare Lea no are', "mean no to the mean no i", rec... rease me of reare in ressonance."
Ins recorect are for or reare: Vares or yse, frectan, and nnn;
Ins recorect are for or reare: Vares or yse, frectan, and nnn;
Ins recorect are for or reare: Vares or yse, frectan, and nnn;
Ins recorect are for or reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare: Vares or yse, frectan, and nnn;
Ins recorect are for reare reare; or yse, frectan, and nor transback to Section Entitled: START UP & SETTING OPERATING CONTROLS.).
Inds ays no so no created or provide are for yse, frectan, and reo's to ys

Fault Display Codes & Possible Owner Actions

Code	Error Description	Owner Actions
[dPO]	ra os Senso ren	on ac ns a n drar o A aca so r S o
[PO]	ar rar Senso en	ontactinstan dn=a≠ o A aca so ≠ S o t t t t t t t t t t t t t t t t t t t
[dPC]	🖌 os senso 🕏 o ed	on _l ac _i ns _i a n d≢a≠ o A aca sio ≠ S o
[PC]	are fre ra fre senso so red	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
[LP]	ໃຫຼ່ an sys ອ້ຽ ສະs ອີ່ປັດກາ	onac nsa n dn=a≠ o A aca so ≠ S o t t t t t t t t t t t t t t t t t t t
[HP]	kaj re an syster in the system is a system in the system in the system is a system in the system in the system is a system in the system in the system is a system in the system i	onac nsa n d⊫a≠o A aca so ≠ S o t t t
[FLO]	derecred	$ \int_{\Gamma} \cos \pi c \int_{\Omega} \int_{\Omega} \partial \pi dr = n \operatorname{ext}_{T} \operatorname{ext}$
[FS]	n°reare n denços, ode t t	PD -a/pc on n o \neq a \neq a \neq a \neq s san con n \neq s o p and co \neq sso s off. o \neq sso \neq s a \neq a
[CSE]	on o sysree o t t -	on or ay mered obre reset sconnectiren reconnectore o reare; reo con n resonactor actives a contractore o A aca so re Sto



HP-7 (6200P) Sequence of Operation



CONTACTING the FACTORY...

Should you ever experience problems with your heater, or if you simply desire further information about your heater's operation, our Customer Support staff stands ready to assist. Please call us toll-free at: 1-800-786-7751.

We Sincerely Appreciate Your Business.... Thank you for choosing AQUACAL for your swimming pool and spa heating needs.



SWIMMING POOL HEAT PUMPS

2737 24th Street North St. Petersburg, FL 33713 800-786-7751 Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com