L4031A,C Pool Heater Aquastat[®] Controller

PRODUCT DATA



GENERAL

The L4031A,C Pool Heater Aquastat[®] units are designed to control pool water temperatures and provide high limit boiler control.

FEATURES

- Pool control regulates pool water temperature.
- L4031A pool side control is ambient-temperature compensated so changes in air temperature do not affect water temperature.
- High limit provides shutdown protection to prevent boiler overheating.
- L4031A provides automatic high limit reset.
- L4031C requires manual high limit reset.
- Each limit control has its own remote-bulb sensing element and snap switch for system control.

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SPECIFICATIONS

IMPORTANT

The specifications given in this publication do not include normal manufacturing tolerances. Therefore, this unit may not exactly match the listed specifications. Also, this product is tested and calibrated under closely controlled conditions, and some minor differences in performance can be expected if those conditions are changed.

Models:

- L4031A Pool Heater Aquastat[®] Controller controls pool water temperature and provides automatic reset high limit boiler control.
- L4031C Pool Heater Aquastat[®] Controller controls pool water temperature and provides manual reset high limit boiler control.

High Limit

Range:

- L4031A: 100°F to 240°F (38°C to 116°C) (each division represents 5°F degrees).
- L4031C: 110°F to 290°F (43°C to 143°C) (each division represents 5°F degrees).

Differential:

L4031A: Fixed 5°F (3°C). L4031C: Manual reset.

Electrical Rating (A):

	120 Vac	240 Vac
Full Load	8.0	5.1
Locked Rotor	48.0	30.6
Powerpile [®] (millivoltage) is 0.25A at	0.25 to 12 V	/dc.

Pool Control

Range:

- L4031A: 40°F to 180°F (4°C to 82°C) (each division represents 5°F degrees).
- L4031C: 100°F to 240°F (40°C to 116°C) (each division represents 5°F degrees).

Differential:

L4031A: Fixed 2°F (1°C) or 5°F (3°C). When 5°F (3°C), the electrical rating is the High Limit Electrical Rating. L4031C: Fixed 5°F (3°C).

Electrical Rating:

L4031A:

Pilot Duty: 125 VA at 120 and 240 Vac. Powerpile[®] (millivoltage): 0.25A at 0.25 to 12 Vdc. L4031C: Same as high limit.

Bulb Mounting:

For list of compression fittings and immersion wells, refer to form 68-0040, Wells and Fittings for Temperature Controllers. Order separately.

Length of Capillary:

Standard, each 66 in. (1676 mm).

Case Dimensions:

See Fig. 1.

Switch Action:

Each control opens on a temperature rise.

Control Point Setting:

Visible scale that can be set with an external screwdriver adjustment.

Finish:

Gray.

Mounting Means:

Three holes in back of case.

Wiring Knockouts:

Four, for 1/2 in. conduit.

Approvals:

Underwriters Laboratories Inc. Component Recognized: File Number M466, Guide Number MBPR2.

- American Gas Association Design Certified: Report 23-11B (L4031A only).
- Canadian Standards Association Certified: File Number LR1620, Guide Number 400-E-O (L4031A only).

ORDERING INFORMATION

When purchasing replacement and modernization products from your TRADELINE[®] Wholesaler or your distributor, refer to the Tradeline[®] Catalog or price sheets for complete ordering number, or specify—

- 1. Order number.
- 2. Compression fittings or immersion wells, if desired.
- 3. Optional specifications, if desired.

If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:

- 1. Your local Honeywell Residential Sales Office (check the white pages of your phone directory).
- Residential Division Customer Relations Honeywell, 1885 Douglas Drive North Minneapolis, Minnesota 55422-4386

In Canada—Honeywell Limited/Honeywell Limitée, 35 Dynamic Drive, Scarborough, Ontario M1V 4Z9. International Sales and Service offices in all principal cities of the world.

Optional Specifications:

L4031A:

- Pool control dial marked WARMER-COOLER.
- High limit capillary exiting from top or bottom of case.
- Pool control range: 53°F to 107°F (12°C to 42°C), 100°F to 240°F (38°C to 116°C).
- Factory-set pool control limits set at 115°F, 180°F, and 200°F (46°C, 82°C, and 93°C).
- 5°F (3°C) differential on pool control.
- Adjustable differential on high limit control.
- Factory high limit stops set at 140°F, 145°F, 180°F, 195°F, 200°F, and 210°F (60°C, 63°C, 82°C, 91°C, 93°C, and 99°C).
- Capillary lengths available at 16-1/2 (high limit only), 18, 30 (pool control only), 33, 40, and 96 in. (419, 457, 762, 838, 1016, and 2438 mm).
- Case marked "Tankstat."
- No openings in cover.
- Less dial stops on pool control or both sides.
- No opening over high limit dial.
- With adjusting knob on pool control; less jumper.

L4031C:

- Factory high limit stop set at 250°F (121°C).
- NOTE: Not all combinations of options are available. For information, contact your Honeywell Sales Representative or TRADELINE[®] Dealer.

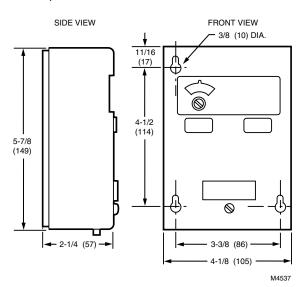


Fig. 1. Dimensions of L4031 in in. (mm).

INSTALLATION

CAN CAUSE PROPERTY DAMAGE,

SEVERE INJURY OR DEATH.

This product is intended for use only in systems with a pressure relief valve.

When Installing this Product...

- Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
- 2 Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
- Installer must be a trained, experienced service technician.
- After installation is complete, check out product operation as provided in these instructions.

Disconnect power supply before beginning installation to prevent electrical shock or equipment damage.

The L4031 can be mounted either vertically or horizontally on a wall or panel, or directly on a tank. This device can be installed with the case and bulbs as far apart as the tubing permits. In all cases, the equipment manufacturer directions should be followed, if available. If not, follow the general instructions in the Location section.

Location

- 1. Locate the high limit bulb in the hot water outlet header of the heater. Locate the pool control bulb in the return water header of the heater.
- 2. Uncoil no more tubing than needed. Sharp or repeated bending of the tubing can cause damage.
- 3. If the tubing is subjected to vibration, protect it against wear when it comes in contact with another surface.

Mounting

- 1. Remove the cover by loosening the cover screw on the lower front of the controller.
- 2. Fasten the case to a convenient wall or panel with screws through the three mounting holes in the back of the case.
- 3. Replace cover.

To Install Remote Bulb (Order Fittings or Wells Separately)

NOTE: Bulb must be bottomed in well for correct response.

Using Bulb Compression Fitting (Fig. 2)

- 1. Screw the fitting into boiler or pipe tapping.
- 2. Slide sealing washer onto bulb.
- 3. Insert bulb into boiler fitting until bulb bottoms.
- 4. Slide split sleeve into fitting.
- 5. Place clamps A and B on assembly so sleeve is drawn into fitting when screws are tightened.
- NOTE: Make sure that nub on clamp A engages space between sleeve and clamp.
- 6. Tighten clamp screws evenly.

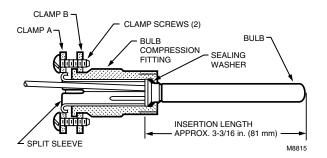


Fig. 2. 104486 Bulb compression fitting.

Using Capillary Compression Fitting (Fig. 3)

- 1. Screw fitting into boiler or pipe tapping.
- 2. Place packing nut on tubing.
- 3. Slide bulb completely through fitting.
- Place composition disk and four slotted brass washers on tubing in the order shown in Fig. 3. Turn brass washers so that slots are 180 degrees apart.
- 5. Slide seal assembly into fitting and tighten packing nut.

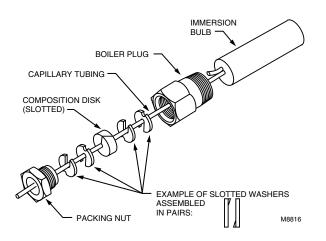


Fig. 3. 104484 Capillary compression fitting.

Using Immersion Well (Fig. 4)

- 1. Screw the well into the boiler or pipe tapping.
- 2. Insert the bulb into the well, pushing the tubing until the bulb bottoms in the well.
- 3. Attach the retainer clamp to the end of the well spud. Loosen the draw nut and spread the jaws of the clamp with a screwdriver if necessary. See Fig. 4.
- 4. With the retainer clamp attached to a well spud (be sure jaws of clamp hook over the ridge at the end of the spud, as shown at point A), adjust tubing to fit through retainer clamp groove, as shown at point B.
- 5. Tighten draw nut so retainer clamp is firmly attached to well spud and tubing is held securely in place.

Do not secure draw nut so tightly that retainer clamp could collapse tubing

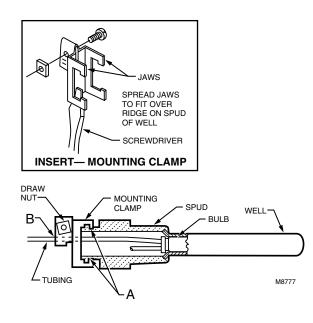
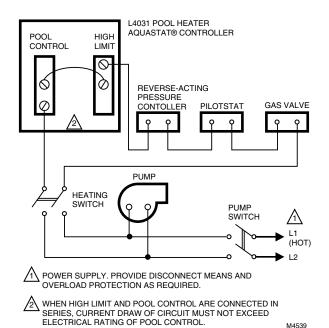


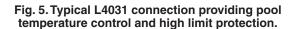
Fig. 4. Immersion well fitting.

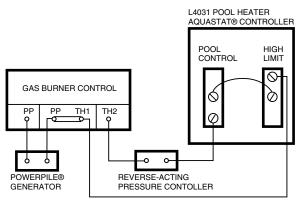
Wiring

All wiring must comply with local codes and ordinances.

In all installations, follow the equipment manufacturer instructions. If not available, use hookups in Figs. 5, and 6.







M4538

Fig. 6. Typical L4031 connection in a self-generating gas system.

SETTING AND CHECKOUT

Setting

To set the control point of each control, insert a screwdriver in the slotted head visible through the cover, and turn the dial of each control to the desired setting (Fig. 7).

Because systems differ, the correct setting for one system may not apply to another. In all cases, the equipment manufacturer recommendations for setting should be followed.

Checkout

WARNING CAN CAUSE PROPERTY DAMAGE, SEVERE INJURY OR DEATH. This product is intended for use only in system

This product is intended for use only in systems with a pressure relieve valve.

Always conduct a thorough checkout when the installation is complete. Make sure the controller was installed and adjusted properly by putting it into operation and observing at least one complete cycle. Further adjustment can then be made to provide for more exact requirements.

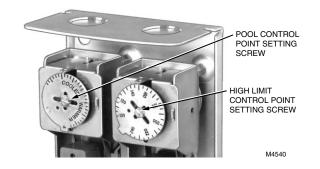


Fig. 7. Internal closeup view of L4031A pool heater Aquastat[®] Controller setting screws.

		SHEE	T (M	MSD	S)	
ISSUED: Dec 2 1986	REVISED): Jan 15	1992	DS	9021	l
SECTION I		EMER	GENCY	TELEPH	ONE N	0.
TRADE NAME (if None, Put Chemical) Heat Conductive Compound			1-888	-809-378	7	
CHEMICAL NAME AND SYNONYMS NA						
MANUFACTURER'S NAME Honeywell, Inc.						
ADDRESS (Number, Street 1985 Douglas Drive North City, State, Zip Code) Minneapolis		MN		4	55422	
SECTION II - HAZARDOUS ING	REDIENT		%	TLV	PEL	UNITS
Petroleum hydrocarbon	0000A-06-7		60-70	NE	NE	
Barium, acetate tallow fatty acids complexes (*)	68201-19-4		5-10	NE	NE	
Aluminum, as Al, Pyro Powders	A7429-90-5		25-30 1-5	5 NE	5 NE	mg/m3
Part No. 120650 (0.5 oz. tube); Part No. 107408 (4 oz. can	Dent No. 10					
chemical identity and C.A.S. number witheld as trade secret $H=0$, $F=1$, $R=0$, $PPE=Sec$. VII (*) SARA 313 Reportable; (C) Ceiling Value; (S) Skin Notation; CAS compound for TLV and PEL purposes; Numbers beginning with 0000	pursuant to 29	CFR 1910	.1200 (i)	. HMIS	RATIN	G:
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	SECTION V - HEALTH HAZARD INFORMA	TION
	been found regarding acute exposures to this material.	DS 9021
Prolonged a	FECTS/SYMPTOMS nd/or repeated contact may cause skin, eye, and mucous membrane irritation. These f good personal hygiene practices are used. No irritation has been noted in all the ye	e potential effects are greatly ears of production and packaging.
CARCINOGEN	IICITY NTP yes no X IARC yes no X OSHA yes no X	OTHER NA
	FIRST_AID	
EYES	Immediately flush eyes with water for 15 minutes. Obtain medical attention if irrit	ation persists.
SKIN	Remove excess with cloth or paper. Wash with soap and water. Obtain medical at continues.	
INHALATION	Inhalation is unlikely to be a route of exposure. However if this does occur, removes symptomatically.	ve victim to fresh air and treat
INGESTION	Contact local poison control center or physician IMMEDIATELY.	
	SECTION VI - REACTIVITY DATA	
STABILITY	Stable.	
	LITY Strong oxidizing agents and halogens.	
DECOMPOSIT	10N Carbon dioxide, carbon monoxide, oxides of barium.	
POLYMERIZA	TION Will not occur.	
	SECTION VII - SPILL OR LEAK PROCEDU	IRES
PROCEDURES Use absorba	s nt material to clean up spills. Place in appropriate containers for proper disposal.	
	OSAL METHOD n accordance with Local, State and Federal regulations.	
	SECTION VIII - SPECIAL PROTECTION INFOR	MATION
RESPIRATOR	Y None.	
EYEWEAR	Not normally required. However, use chemical safety goggles or faceshield if especially if material is heated.	potential for eye contact exists,
CLOTHING/ GLOVES	Not normally required. However, protective clothing and gloves are recomme remove from skin and clothing.	ended because material is difficult to
VENTILATION	No special ventilation is required when working with this product.	
	SECTION IX - ADDITIONAL INFORMATI	ION
This product or heat.	t is not hazardous according to DOT criteria. Keep containers closed until ready for 2^{2}	use. Do not store near open flame
APPROVAL	David E. Downs, CIH, CSP Manager, Industrial Hygiene	2 1 <u>3 152</u> DATE
The information con report obsolete. Th	ntained herein has been developed based upon current available scientific data. New information may be developed from time herefore, no warranty is extended as to the applicability of this information to the user's intended purpose or for the conseque	e to time which may render the conclusions of this ances of its use or misuse. MBH039

		Material Safety Data Sheet (MSDS)								HEALTH FLAMMABILITY REACTIVITY					0 1 0 B
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SEC	TION	I - MANUFAC	ÌĽ	RER	AN	DP	RO	DUC		NЕ	ORN	Λ£	TIC)N	
Manufacturer N	ame: Ho	oneywell, Inc.							Em	erger	ncy Tel	eph	one In	forma	tion
Trade Name :	He	at Conductive Compo	und								1-88	8-80	9-378	7	
Chemical Name or Synonym:		-					· · · · ·								
Mfg Address : 1985 Douglas Drive North									conductiv heat tra						
City :	City : Minneapolis State : MN Zip : 55422							applic	ations.				•		
		SECTION II -							13	<u>yek</u>	3				
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CAS Number		Chemical Na	ame			Pe	rcent	PEL	С	S	TLV	С			313?
00057-11-4	Stearic					_	1-2 24-34	15			10			g/m3	N Y
07429-90-5 64742-41-2	Mineral	ım, as Al					20-26	5	_L I		5			g/m3 g/m3	N N
64742-53-6		eated Dist. Lt. Naphthe	nic M	lineral (Sil	1	20-26	5			5			g/m3	N
64742-65-0		t., Dewaxed, Heavy Pa			211		13-23	5			5	1 1		g/m3	N
68649-42-3		yldithiophosphate			-		0-2						N/		Y
68815-49-6		Hydrostearate/Sebaca	te Co	mplex			3-7				10		m	g/m3	N
		rs for items with no valid CAS ar Contact" notation: "TLV" is Thre													ue; "S"
Additional Information	Par	t No. 120650 (0.5 oz. tube); l ute amounts of lithium and n	Part No	o. 107408	(4 oz. ca	n); Par	t No. 19							y also c	ontain
		SECTION III	- H	AZA	rds	D	ENT	IFIC	АŢ		1				
Emergency Ove Low toxicity and c burn but is not flar Eye Health Effe	overall haz mmable.	ard. Excessive skin con	tact m	ay cause	e derma	titus.	Materia	al is alum	ninum	n flako	e mixed	l witł	n grea	se, wł	ich will
None expected.	Direct cont	act with eye will cause irri	itation.												
Skin Health Effe Excessive contact		stoms : se skin irritation and derm	natitus.												
Inhalation Healt None expected du										<u></u>					
Ingestion Health None expected.	n Effects/	Symptoms :													
NA- Not Applicable	NE-No	t Established UN- Unkno	own										Pa	ige 1 o	f 4

	SECTION IV - FIRS	ST AID MEASURES
Eyes : Flush eyes	s with water for 15 minutes. Obtain medical	attention if irritation persists.
Skin : Remove e	xcess with cloth or paper. Wash with soap	and water. Obtain medical attention if irritation develops or continues.
Inhalation : Inhalation symptoma		ver if this does occur, remove victim to fresh air and treat
	cal poison control center or physician IMME	DIATELY.
	SECTION V - FIRE AN	ND EXPLOSION DATA
Flammability : N	Flammable Will Conditions:	burn if exposed to flame.
Flash Point (Method)	: >383 F (COC)	Autoignition Temperature: >600C
LEL: NA		UEL: NA
Extinguishing Media :	CO2, dry chemical or foam.	
Special Procedures :	None. As in all fire situations, firefighters sl	nould wear SCBA.
Unusual Fire & Explosion Hazards :	None. Aluminum powder can react with w this reaction is not expected.	ater to release flammable hydrogen gas. In the form of this product,
Hazardous Combustion Products :	Oxides of carbon	
Sensitivity to Impact :	None	Sensitivity to None Static Electricity :
Additional Information :	NA	
SEC	CTION VI - ACCIDENTA	L RELEASE PROCEDURES
Spill Procedures (Less than One Galllon) :	Scrape up and dispose as solid waste in ac	cordance with state and federal regulations.
Spill Procedures (More than One Gallon) :	Not expected due to product packaging siz	e.
	SECTION VII - HAND	LING AND STORAGE
Handling and Storage Procedures:	Keep container closed until ready for use.	
NA- Not Applicable NE-	Not Established UN- Unknown	Page 2 of 4

Heat Conductive Compound

	No special	ventilation is required when	working with this product.	
Respiratory :	None.			
Eyes :		illy required. However, use c f material is heated.	chemical safety goggles or faceshield if	potential for eye contact exists,
Clothing/Gloves		lly required. However, prote m skin and clothing.	ctive clothing and gloves are recomme	ended because material is difficult to
	ECTO	N IX - PHYSICA	L AND CHEMICAL P	PROPERTIES
Boiling Point (d	egrees C):	UN	Melting Point (degrees C)): NA
Vapor Pressure	(mm Hg):	NA	Percent Volatiles :	NA
Vapor Density (air = 1) :	NA	Specific Gravity :	.86
Evaporation Ra	te: NA		Oxidizing Properties :	None
Solubility :		Negligible	pH:	NA
Oil/water Coeffi	cient :	NE	Odor Threshold :	NE
Stability -	Stable.	ECTION X - ST	ABILITY AND REAC	TIVITY
Stability :		zing agents and halogens.		
la e e se e etibilite :	Ŭ			N
Incompatibility :	Carbon diaxi	ido, oarbon monovido		
Decomposition		ide, carbon monoxide		
Decomposition	Will not occu	Jr.	COLOGICAL INFOR	MATION
Decomposition Polymerization	Will not occu	Jr.	COLOGICAL INFOR	MATION
Decomposition Polymerization Eye : Skin :	Will not occu SEC	ur. CTION XI - TOX TD Lo: 386 g/kg/22W-1:ET,	A (for grease component); Skn-mo	
Decomposition Polymerization Eye : Skin :	Will not occu SEC NE Skn-mouse:	ur. CTION XI - TOX TD Lo: 386 g/kg/22W-1:ET,		

Heat Conductiv	e Compound				···-		<u></u>	
SEC	ETION XI -	IOX	COLOGIC/	<u>A-IR</u>	EOR	MATIC	<u>DN (</u>	Continued)
Sensitization :	None			Irritan	cy :	No specific	c data; irrit	latant on repeated contact
Mutagenicity :	None			Terat	ogenicity	Non e		
Reproduction :	None			Syner	gistic :	None		
Conditions Agg	ravated By Exposu	re: Exis	ting skin rash or der	matitus				
Carcinogenicity	NTP :	N	IARC :	N	OSHA:		N	Other: NA
	SECTI	<u>ON X</u>		ee	<u>ALINI</u>	ORM	(A) I	ON
Ecological Information :	No specific data av	ailable; v	vould be similar to ot	ther hydr	ocarbon co	ompounds	such a	s oil
Chemical Fate Information :	Hydrocarbon comp	onents w	<i>r</i> ill biodegrade in soil	; relative	ly persister	nt in water	•	
	SECTIO)N X	II - DISPOS	SAL (SONS	IDER		DNS
Waste Disposal Procedures :	Dispose of as solid	waste in	accordance with Lo	cal, Stat	e and Fede	eral regulat	ions.	
	SECTION	XIV.	TRANSPO	DRTA	ATION	INIC	DRM	ATION
Shipping and Labelling Info:	Not regulated by D	от						
	SECTIO	ON X	V - REGUL		RYIN	FORM	MAN f	ION
Other Regulatory Information :	pounds; not regula	ated unde	er Sections 301; Alu	minum a	ompounds	s regulated	under	orts if amounts exceed 10000 Section 313. Not regulated in ISHA Hazard Communication
	SECTI	OND		(ON	AL INI	-ORN		ON
Keep containers o	losed until ready for	use. Do	not store near open	flame or	heat.			
	herein has been developed b no warranty is extended as to							time which may render the conclusions of t

NA- Not Applicable NE- Not Established UN- Unknown

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Honeywell

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