



**2011-2012  
Application Selection and  
Cross-Reference Guide**

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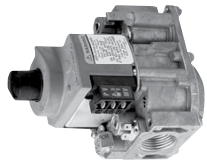
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# Residential Combustion

Honeywell Residential Combustion is the industry leader in combustion controls for applications including warm air furnaces, boilers, water heaters, hearth, pool and spa heaters, and service parts. Our products are used on appliances utilizing natural gas, propane, heating oil, and electric fuels and first and foremost assure the safe operation of heating and cooling appliances. Sold primarily through OEM and wholesale channels, our family of products has both the largest breadth and depth of offering in the HVAC industry.

Our offerings include like-for-like replacement parts and a full line-up of universal products that cover almost any application, making Honeywell the only brand of replacement parts you'll ever need. The pages in this guide feature our universal products and exciting new offerings for the upcoming heating season!



## Universal Products

The only thing we can't replace is you! In the HVAC industry today time is money, particularly in the service department, and time lost is money lost. Every time your tech can't complete a job, you could lose money. Every time the tech has to head to the supply house, you could lose money. Every time the tech can't make it to that last call of the day because of extra trips to the supply house, you could lose money. With a parts strategy that includes Honeywell's Universal product portfolio you'll have the right part and you'll make more money nearly every time!

The stocking recommendations included in this guide are shown by regional area, U.S. and Canada, and are averaged by product sales. They should be adjusted accordingly to your business size and needs.



Product Line	Universal Service Part	RESIDENTIAL COMBUSTION UNIVERSAL PRODUCTS RECOMMENDED INVENTORY GUIDE										Direct Service Part Replacement (Gas Valves)		
		U.S. Northeast	U.S. Mid-Atlantic	U.S. North-NW	U.S. South-SE	U.S. West	Canada Eastern	Canada Central - West						
Ignition Controls	S9200U1000	10	10	10	10	10	6	6						
	S8510U3009	24	24	24	12	12	24	24						
	S8910U1000	10	10	10	3	6	6	6						
	Y8610U4001	4	4	4	2	6								
	Y8610U6008	6	6	6	2	6	2	2						
	Q3200U1004	20	20	20	20	20	20	20						
Warm Air Thermo-couple	Q3200U2002	6	6	6	6	6	6	6						
	ST9120U10011	12	12	12	6	6	12	8						
Gas Valves	Q340A1080 (U.S.)	100	100	100	20	20	100	100	6	6	10	6	10	VR8200A2124 VR8200A2132
	Q340A1438 (Canada)													
Gas Valves	VR8200A2744	12	12	12	6	6								
	VR8200A2322 (Canada)							6			10			
	VR8200H1236 (Canada)							12			12			
	VR8345M4302	12	12	12	6	8	8	12						VR830AM3509 VR830AM4507 VR830AM3506
	VR8300A4516	12	12	12	3	6	4	6						VR8300A4508 VR8300A3500 VR8204A2076
	VR8245M2630	3	3	6	2	2	6	8						VR8204M1091 VR8205A2024 VR8205H1003
	VR8345H4655	3	3	3	2	2	2	2						VR8305A2555 VR8304Q4511 VR8305Q4500
	VR8345Q4563	2	2	2	NA	NA	1	2						VS820A1054 VS820A1336
	VS820A1088	6	6	6	NA	3	4	6						
	L724U1002	18	18	2	NA	NA	12	8						
	L724FR1000	18	18	2	NA	NA	12	8						
	W8735S1000	18	18	2	NA	NA	12	8						
W8735S1008	18	18	2	NA	NA	12	8							
Oil Controls	R7284U1004	10	10	4	NA	NA	12	4						

## New for 2011-12

As an industry leader in innovation and new product development Honeywell is always working to provide solutions that make your job easier and more profitable. This heating season we are improving our line of products in the residential combustion market place. The legendary R7284 Universal Digital Electronic Oil Primary offers technicians a field configurable Universal control with intelligent diagnostics that improve system troubleshooting and reduce unnecessary part swapping. The S8610 Universal Intermittent Pilot Ignition Module got a facelift in 2010. The revamped control features direct pilot flame current readout, a simplified timing lock in mechanism and easier to read trouble codes. The S9200 Universal Integrated Furnace Control replaces over 140 furnace boards and includes a complete set of wiring harnesses for universal compatibility and simplified installation. The LED indicators provide system status, performance and diagnostic information. The Honeywell AquaReset® offers homeowners with oil fired hydronic heating systems energy savings in a simple to install offering for the technician. Glowfly® the Universal Hot Surface Igniter was the buzz last year with its one-of-a-kind six pack offering and visual cross-reference making it a must-have for any service truck. Look for the new, updated packaging for Honeywell's Universal Products. The color packaging includes product specs and easy cross-referencing to make your job easier.

### R7284 Universal Digital Electronic Oil Primary

After decades of setting the industry standard the time has come for a new Digital Universal Electronic Oil Primary. Its analog predecessor is a living legend—and Honeywell has taken it further—with a new integrated digital Quick-Fix Indicator for easy diagnostics and programming. The new case design provides an optimum viewing angle for the multi-lingual display along with providing increased wiring space in the junction box. The redundant burner relay and watchdog circuits make this control more reliable than ever before. Simply put, it takes a legend to make one™.



### S8610 Universal Intermittent Pilot Ignition Module

The best just got better. The updated version of the S8610U will give improved performance in challenging applications and simplify troubleshooting on service calls. Technicians will be able to get direct flame current readout with a standard micro-ammeter and quickly be able to determine flame strength direct from the board. A single LED shows device status along with error codes that have been simplified to allow for faster troubleshooting. It's everything you've come to expect from the Universal control with a whole lot more.



### Glowfly®

Introducing the Honeywell Glowfly. It's a whole new species. Replacing over 110 installed silicon carbide models, with a superior universal bracketing design, one of a kind visual cross-reference packaging and it's made from next generation OEM quality Silicon Nitride the Glowfly is the only igniter you will need. Pick up a six pack and light up your igniter business!



# Gas Valves

Honeywell has taken the guesswork out of gas valve selection with our complete line of universal gas valves. Contractors appreciate the reliability, ease of installation and time saved by carrying a select few gas valves on their truck. Carrying a few Honeywell Universal gas valves on each truck reduces the amount of inventory needed while still making sure technicians can complete the job in one trip. Honeywell's tried and tested gas valves ensure you will be getting the best product available on the market, every time.

When selecting a gas valve for your next job, look for these Honeywell features:

- Universal application
- Reduced inventory
- Easy installation and adjustments
- Compact design



## VR8345M/VR8345Q/VR8345H/ VR8245M

### Universal Electronic Ignition Gas Valve

- Wide-capacity control for almost any IP, HSI or DSI gas-fired appliances
- Compact fit simplifies field replacement
- Use with 24 Vac heating appliances, using natural, manufactured or LP gas
- Use the VR8345Q for a two-stage application, VR8345M for a standard and VR8345H for a slow-opening application
- Capacities from 20 to 200 (VR8245) cfh or 30 to 415 (VR8345) cfh



## VR8300/VR8200

### Universal Standing Pilot Gas Valve

- Combination gas controls for use in 24 Vac, gas-fired, standing pilot appliances with capacities from 20 to 200K Btu/h natural gas, 400 to 200K Btu/h LP gas
- Includes safety shutoff, manual valve, two automatic operators, pressure regulator and pilot adjustment
- Universal replacement for virtually all Honeywell and competitive standing pilot valve models



## VS820

### Millivolt Combination Gas Valve

- Self-powered automatic control
- Use with 750 mV pilot generator
- Easy to install and service with all the adjustments and connections accessible from the top of the control
- 34 to 425 cfh capacity



# Gas Valves Selection Guide

TRADE REPLACEMENTS (Double-Check Specifications Before Replacement)		SPECIFICATIONS				ACCESSORIES		
Universal Service Part	Direct Service Part Replacement	Opening Characteristics (Standard, Step)	Inlet/Outlet Size (in.)	Pressure Regulator Setting (psi)	Temperature Range	Q540 Thermocouple	Includes 3/4" x 1/2" Reducer Bushing	Natural to LP Conversion Kit
VRB300A4516	VRB300A458	Standard	3/4 x 3/4	3.5 in. wc (0.57 MPa)	0° to 175 F (-18° to 79 C)	None	Two	One
	VRB300A390	Standard	1/2 x 3/4	3.5 in. wc (0.57 MPa)	0° to 175 F (-18° to 79 C)	None	One	One
	VRB300A4516	Standard	3/4 x 3/4	3.5 in. wc (0.57 MPa)	0° to 175 F (-18° to 79 C)	One	Two	One
	VRB20A2076	Standard	1/2 x 1/2	3.5 in. wc (0.57 MPa)	0° to 175 F (-18° to 79 C)	None	None	One
VRB245M2530	VRB24M1091	Standard	1/2 x 1/2	3.5 in. wc (0.57 MPa)	-40° to 175 F (-40° to 79 C)	None	None	One
	VRB20A2024	Standard	1/2 x 1/2	3.5 in. wc (0.57 MPa)	0° to 175 F (-18° to 79 C)	None	None	One
	VRB30A2530	Standard	1/2 x 1/2	3.5 in. wc (0.57 MPa)	-40° to 175 F (-40° to 79 C)	None	None	One
	VRB20A11003	Show	1/2 x 1/2	3.5 in. wc (0.57 MPa)	0° to 175 F (-18° to 79 C)	None	None	None
VRB345M4555	VRB34M4593	Show	3/4 x 3/4	3.5 in. wc (0.57 MPa)	0° to 175 F (-18° to 79 C)	None	None	One
	VRB34M4555	Show	3/4 x 3/4	3.5 in. wc (0.57 MPa)	0° to 175 F (0° to 79 C)	None	Two	One
	VRB34M4599	Standard	1/2 x 3/4	3.5 in. wc (0.57 MPa)	-40° to 175 F (-40° to 79 C)	None	One	One
	VRB34M4597	Standard	3/4 x 3/4	3.5 in. wc (0.57 MPa)	-40° to 175 F (-40° to 79 C)	None	Two	One
VRB345M4302	VRB30A4596	Standard	1/2 x 3/4	3.5 in. wc (0.57 MPa)	-40° to 175 F (-40° to 79 C)	None	One	One
	VRB34M4302	Standard	3/4 x 3/4	3.5 in. wc (0.57 MPa)	-40° to 175 F (-40° to 79 C)	None	Two	One
	VRB20A2255	2-Stage	1/2 x 1/2	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40° to 175 F (-40° to 79 C)	None	None	One
	VRB30A4511	2-Stage	3/4 x 3/4	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40° to 175 F (-40° to 79 C)	None	Two	One
VRB345M4663	VRB30A4590	2-Stage	3/4 x 3/4	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40° to 175 F (-40° to 79 C)	None	One	One
	VRB34A4563	2-Stage	3/4 x 3/4	1.7 in. wc Low Fire; 3.5 in. wc High Fire	-40° to 175 F (-40° to 79 C)	None	Two	One
	VRB20A2124	Standard	1/2 x 1/2	3.5 in. wc (0.57 MPa)	0° to 175 F (-18° to 79 C)	One	None	One
	VRB20A2132	Standard	1/2 x 1/2	3.5 in. wc (0.57 MPa)	0° to 175 F (-18° to 79 C)	None	None	One
VRB20A2744	VRB20A2744	Standard	1/2 x 1/2	3.5 in. wc (0.57 MPa)	0° to 175 F (-18° to 79 C)	None	None	One
	VRB20A1054	Standard	3/4 x 3/4	3.5 in. wc (0.57 MPa)	32° to 175 F (0° to 79 C)	None	Two	None
	VRB20A1336	Standard	3/4 x 3/4	10.0 in. wc (2.48 MPa)	32° to 175 F (0° to 79 C)	None	Two	None
	VRB20A1088	Standard	3/4 x 3/4	3.5 in. wc (0.57 MPa)	32° to 175 F (0° to 79 C)	None	Two	One

**Notes:**

All italicized values have a 1/4" compression fitting. All the VR valves come set for natural gas, but can be converted to LP gas. The VS20A1054 is for natural gas. The VS20A1336 is for LP gas. All the VR valves have inlet and outlet pressure taps. The Q520 valves have just an outlet pressure tap.

ACCESSORIES			COMPETITIVE REPLACEMENT		
3/4" Straight Flange	Includes 1/2" x 3/8" Reducer Bushing	Remote Rod Adapter	Honeywell	White-Rodgers	Robertshaw
None	None	None	VRB30A4013, VRB30A4011, VRB30A4037, VRB30A4045, VRB30A4057, VRB30A4065, VRB30A4104, VRB30A4120, VRB30A4153, VRB30A4161, VRB30A4203, VRB30A4359, VRB30A4367, VRB30A4375	3601-405	700-400, 720-406 (720DEF)
None	None	None	VRB30A4003, VRB30A4011, VRB30A4037, VRB30A4045, VRB30A4057, VRB30A4065	3603-300, 3603-400, 3603-433, 3603-258	720-404 (720DEF) 720-403, 720-400, 720-402
None	None	None	VRB30A41201, VRB20A41213, VRB20A42001, VRB20A42175, VRB20A42003, VRB20A42225	700-400	
One	One	None	VRB20A41075	3601-204, 3601-205, 3601-206, 3601-305, 3603-304	722-079 (200PERHC)
One	One	None	VRB20A42003	3602-214, 3642-214	722-051 (2000DERHC), 720-051
None	One	None	VRB20A41106, VRB20A4165, VRB20A4243, VRB20A4245, VRB20A4276	3603-304, 36E22-214	720-079 (720DEF), 720-080 (720DEF-LP)
None	None	None	VRB30A4013, VRB30A4033, VRB20A4206		
None	None	None	VRB20A4106, VRB20A4165		720-071 (720PER-S7C), 720-071 (720PER-S7D), 720-072 (720PER-S7C), 720-073 (720PER-LP-S7D)
None	None	None		36E9-304, 36E24-214, 36E52-214	700-052
None	None	None			
None	None	None	VRB30A4402		
One	None	None	VRB30A4406, VRB30A4415, VRB30A4231	36E22-214, 36C86-423	720-051 (720DEF)
None	None	None		36E36-304, 36C86-423, 36E32-423	
None	One	None	VRB20A2062, VRB20A2746, VRB20A2787, VRB20A2381	36E54-214	
None	None	None	VRB30A4453	36C76-405, 36C76-420, 36C76-463	
None	None	None	VRB30A4138, VRB30A4146	36013-208, 36E54-214	
None	None	None		36E96-314, 36013-405	720-082 (720PERC-4)
One	One	None	VRB20A2116, VRB20A2264, VRB20A2322		720-400 (720DEF), 720-402 (720DEF)
One	One	None			720-400 (720DEF), 720-402 (720DEF)
One + One Elbow	One	None	VRB20A2322		
None	One	None	VS20A105, VS20A1013, VS20A1047, VS20A1276, VS20A2634, VS20A1622	36030-300, 36E200-383, 36030-400, 36E200-463	
None	One	None	VS20A1211, VS20A1740, VS20A1120, VS20A1386, VS20A1872, VS20A1906		
None	One	Yes	VS20A1387, VS20A2003, VS20A1815, VS20A1038, VS20A2011		

\*Canadian Numbers

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)



## SmartValve™ System Controls

Honeywell SmartValve™ combines gas flow control and electronic ignition into a single unit, providing safety and simplified wiring and appliance construction. You'll find Honeywell SmartValves on equipment ranging from furnaces, water heaters, boilers and rooftops to infrared heaters, cooking units and much more.

### SmartValve™

- Family members cover the full range of opening characteristics (slow, normal, fast) and ignition systems (hot surface, hot surface pilot)
- Universal kits include natural to LP conversion and 3/4" to 1/2" bushings
- Universal family increases service efficiency and reduces truck and warehouse inventory



\* Diagnostic Testers  
Flame Current Kit #395466  
Input Voltage Harness #396085

## Q3450C1185/Q3450C2092

### SmartValve Pilot Burner

The Q3450 SmartValve pilot burners provide pilot flame ignition and sensing for SmartValve intermittent pilot systems. They consist of replaceable igniter-flame rod assembly, bracket assembly, pilot target, ground electrode, orifice assembly, compression fitting and spring clip. The igniter lights the pilot burner. The flame rod proves the pilot flame and the pilot flame lights the main burner



- Used with SV9500/SV9600 SmartValve™ System.
- Replaceable Igniter-Flame Rod Assembly (Q3400A).
- Integral keyed plug provides quick, convenient connection of igniter and sensor to SV9500/SV9600.
- Q3450 has front or 20 degree right, left flame pattern.
- Natural and LP gas orifices available.
- Variety of target styles available.
- Variety of mounting brackets available.

## Q3400

### Hot Surface Pilot/Sensor Assembly

The Q3400A Igniter-Flame Rod Assembly replaces the original igniter-flame rod assembly in the Q3450 and Q3480 pilot hardware used with the SV9500 and SV9600 SmartValve system. The Q3400A has a unique keyed plug connector that will only fit the SV9500/SV9600 systems.

- Can be replaced without removing the pilot burner
- Max temp 250° C
- Order SKU Q3400A1024



# SmartValve™ Control Systems Selection Guide

		SPECIFICATIONS				Includes	
Ignition/Application	Universal Service Part	Gas Type	Opening Characteristics	Ambient Temperature Range	Natural to LP Conversion Kit	3/4" x 1/2" Reducer Bushings	
HSI Water Heaters	SV9570A2518	Natural	Standard Opening	0° to 150° F (-18° to 66° C)	No	None	
	SV9570A2526	LP					
Intermittent HSI Pilot with Combustion Air Control and Limit Monitoring Forced Air Furnace	SV954102561	Natural	2-Stage	-40° to 175° F (-40° to 79° C)	Yes	None	
	SV9641M4510		Standard Opening		Yes	Two	
Direct Ignition, General Application	SV9510M2511	Natural	Standard Opening	-40° to 175° F (-40° to 79° C)	Yes	None	
	SV9520M2536		Slow Opening				
	SV9510K2539		Fast-Slow Opening	0° to 175° F (-18° to 79° C)	Two		
	SV9520H8513						
Intermittent HSI Pilot, General Application	SV9601M4571	Natural	Standard Opening	-40° to 175° F (-40° to 79° C)	Yes	None	
	SV9501M2528		Fast-Fast				
	SV9501M8129		Slow Opening	0° to 175° F (-18° to 79° C)	None		
	SV9502H2522						
	SV9602P4816		Step Opening	-40° to 175° F (-40° to 79° C)	Two		
	SV9602P4824						
SV9602P4832							
SV9602P4840							

SPECIFICATIONS		CROSS-REFERENCE	
Includes	OEM Brands	Replaces	
Extension Harness	A.O. Smith	SV9570A2064, SV9570A2070, SV9570A2096	
	A.O. Smith	SV9570A2062, SV9570A2088, SV9570A2187	
No	ICP, Hell, Tempstar, Arcoaire, Comfortmaker, KeepRite	SV954002464, SV954103098	
	ICP, Hell, Tempstar, Arcoaire, Comfortmaker, KeepRite, Mistek, SlanvFin	SV9541M2094, SV9540M2229, SV9540M2260, SV9540M4116, SV9540M4124, SV9540M2278, SV9540M2245, SV9540M3126, SV9540M4132	
No	Modine	SV9510M2347, SV9510M2362, SV9510M2302, SV9510M2412, SV9510M2354, SV9410M2390, SV9510M2388, SV9510M2420	
	Roberts Gordon	SV9420M2331, SV9520M2403, SV9420M2323	
No	Armstrong, Concord, AirEase	SV9510H2228, SV9510M2133, SV9510M2158, SV9510M2141, SV9510M2166	
		SV9520H8042, SV9520H8034, SV9520H8067, SV9520H8026	
No	ICP, Hell, Tempstar, Arcoaire, Comfortmaker, KeepRite	SV9601M4167, SV9601M3003, SV9601M4225	
		SV9501M2056, SV9501M2080, SV9501M2718, SV9501M2726, SV9501M2031, SV9501M2049, SV9501M2239, SV9501M2700, SV9501M2734, SV9501M2742, SV9501M2064	
Yes	Laars, Utica, Armstrong, Concord, AirEase	SV9501M8103	
	Burnham, ICP, Hell, Tempstar, Arcoaire, Comfortmaker, KeepRite	SV9501H8415, SV9501H2417, SV9501H2409, SV9502H706, SV9502H2704, SV9501H8423, SV9501H2425	
Yes	Burnham	SV9501P2004, SV9601P4107, SV9501P2063, SV9502P2101, SV9602P4105	
	Burnham	SV9501P2087, SV9601P4172, SV9502P2127, SV9602P4121	
Yes	Burnham	SV9501P2020, SV9501P2046, SV9601P4149, SV9601P4164, SV9502P2119, SV9502P2135, SV9602P4113, SV9602P4139	
		SV9601P4115	

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)



## Ignition Modules

Honeywell ignition controls have a long history of safe and reliable performance. Grow your business while reducing inventory with Universal ignition modules. A full lineup of Universal replacement electronic control is available for nearly all intermittent or hot surface ignition applications from gas-fired furnaces to boilers.

When selecting ignition modules for your next job, look for these Honeywell features:

- Universal application with field adjustable timings
- Flexibility for use in single-rod or dual-rod systems
- Quality, reliability and safety of field proven controls
- Simplified installation



### S8610U

#### Universal Intermittent Pilot Ignition Module

- Flame voltage auto-adjusts for improved operation
- Usable in both single-rod or dual-rod systems
- Field-selectable pre-purge and ignition trial timings
- Simple, diagnostic LED helps direct service effort
- Direct pilot flame current readout with standard micro-ammeter
- Plug in vent damper connection simplifies installation
- Replaces over 400 Honeywell and competitive models



### S8910U

#### Universal Hot Surface Ignition Module

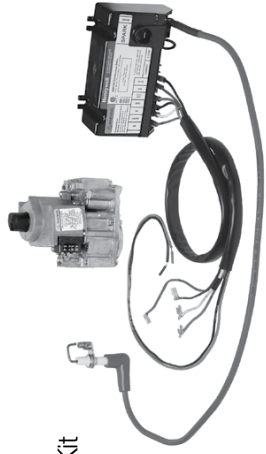
- Easy field replacement for most hot surface ignition modules
- Single-rod or dual-rod systems
- LED diagnostics and field-adjustable ignition timings
- Natural or LP gas
- All retrofit accessories included
- Replaces over 650 Honeywell and competitive products



### Y8610U

#### Universal IP Retrofit Ignition System Kit

- Use with 24 Vac gas-fired atmospheric furnaces, boiler and heating appliances
- Convert standing pilot appliance to electronic ignition
- Natural or LP gas



# Ignition Modules Selection Guide

APPLICATIONS			TIMINGS					
Universal Service Part	Ignition System	Flame Sensor	Ignition Sequence (Note 1)	Ignition Trials to Lockout (Note 1)	Ignition Trial Time	Between Trial Time	Pre-Purge	Flame Failure Response Time
<b>S8810U1000</b>	Line Volt Hot Surface Ignition	1 or 2 Rods	P	1 or 3 Field Selectable	4 sec. or 7 sec. Field Selectable	96 sec., 3 Trial Mode Only	32 sec.	1.5 sec.
<b>S8810U3009</b>	Intermittent Pilot	1 or 2 Rods	C	C	15 sec. or 90 sec. Field Selectable	5 Minute Delay After Failed Trial for Ignition	0 sec. or 30 sec. Field Selectable	2.0 sec. max.
<b>Y8610U6006</b>	Conversion for Standing Pilot	Single Rod	C	C	15 sec. or 90 sec. Field Selectable	5 Minute Delay After Failed Trial for Ignition	0 sec.	2.0 sec. max.
<b>Y8610U4001</b>	Conversion for Standing Pilot	Single Rod	C	C	15 sec. or 90 sec. Field Selectable	5 Minute Delay After Failed Trial for Ignition	0 sec.	2.0 sec. max.

**Notes:**

1. Ignition Sequence

C Continuous retry—After trial for ignition, pilot gas shuts off for five minutes, then another trial for pilot ignition takes place.

P The number of trials for ignition and trial time is determined by the selection tab. If a selection tab is not installed, the module will operate at four seconds trial time and one ignition trial.

FEATURES AND FUNCTIONS				CROSS-REFERENCE			
Type of Gas	Ignition Source	Typical Ignition Hardware	Includes	Honeywell	White-Rodgers	Robertshaw	Johnson Controls
Nat or LP	Switched Line Voltage	Norton 201, Norton Z71, Hot Surface Elements, Q354 Flame Rod		S88C1004, S88C1012, S88C1046, S88C1087, S89C1103, S89D1002, S89G1005, S89G1013, S89G1021, S89G1047, S89H1003, S89H1011, S89H1029, S89J1006, S89C1007, S89D1006, S89G1003, S89G1011, S89G1029, S89G1037, S89D1002, S89D1010, S89H1028	50E47-1 thru 50E47-79, 50E47-101 thru 50E47-179, 50E47-201 thru 50E47-279, 50E47-301 thru 50E47-379, 50F47-1 thru 50F47-79, 50F47-101 thru 50F47-179, 50F47-201 thru 50F47-279, 50F47-301 thru 50F47-379	HS780-17NL-104A, HS780-17NL-108A, HS780-17NL-304A, HS780-17NL-308A, HS780-17NR-104A, HS780-17NR-308A, HS780-34NL-108A, HS780-34NL-308A, HS780-34NR-104A, HS780-34NR-308A, HS780-34PL-308A	CSA42 43, 44, 45, 46, 48, 49, G60, G65, G67, G70 Series
Nat or LP	Internal	Q345, Q3451, Q3452	Integral Damper Connector	S86 Series, S90 Series, S9600 Series, S9610 Series, S9620 Series, S9660 Series, S9670 Series, S9680 Series	50D49-350, 50D49-960, 50D49-361, 50D50-943, 50D49-401	780-002, 780-003, 780-715, 780-735, 780-736, 780-737, 780-846, SP715, SP715A, SP7350, SP7351, US715U, SP735, SP750 Series	
Nat or LP	Internal	Adapter for Pilot Burner Included		Y8610U3003			
Nat or LP	Internal	Adapter for Pilot Burner Included					

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)

# Universal Hot Surface Igniter

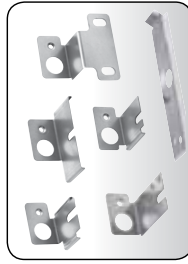
Replacing a hot surface igniter can be a tricky job. Furnace designs and specifications change. Appliance designs can be tight and difficult to maneuver in. Then there's the need to carry a variety of replacement parts to match the range of hot surface igniter configurations out there. Now, those challenges have one reliable solution: Glowfly® from Honeywell.

When selecting an igniter for your next job, look for these Honeywell features:

- Next-generation OEM silicon nitride quality for any installation
- Custom designed bracketing for universal installation
- The strongest warranty in the industry
- Avoid being caught unprepared with the unique truck-ready six-pack
- Graphic instructions provide for quick and accurate bracket selection and installation



**Match and mount simplicity.**  
Simply remove the old igniter and compare it with the diagrams on Glowfly's unique packaging guide to determine the correct mounting bracket for the job.



**Six brackets. 110+ possibilities.**  
Every Glowfly comes fully equipped with six custom mounting brackets that are optimized to replace over 110 igniter applications from nearly every furnace manufacturer without modification.

Q3200U2002  
Six Pack

Q3200U1004  
Single Pack



Gas Controls

## Igniter Bracket Replacement Cross Reference<sup>a</sup>

MANUFACTURER	OEM #	Q3200U BRACKET <sup>b</sup>	MANUFACTURER	OEM #	Q3200U BRACKET <sup>b</sup>	MANUFACTURER	OEM #	Q3200U BRACKET <sup>b</sup>
American Road Equip.	201W	A	Moline	5476832A	C	Fennstar	1098048	D
Arco Air	1096048	D	Mor-Flo	3200618	A		340038901	A
Armstrong Air	1380680	D		511-330-193	B		B138188901	B
	383228001	A	Nordyne	105141000	A		B144676901	A
	LH9-323001			632-0770	B		B144676902	B
	LH9-323001A			632-0880	A		B340038901	A
Carrier/ Boyan/ Payne	LH9-323002	B or E <sup>c</sup>		201	B		IGN23	A
	LH9-323002A			271			IGN28	B
	LH9-323003			201D			IGN30	B
	LH9-323003A			201K			IGN34	A
	LH9-323004		Norton/SJ Gobain	201L			9302-094	A
	C-238	A		201N	A		62821-001	A
	C242			201R			62821-002	
Coleman	1474-051	A		201W		Wayne Home Equip.	511-330-139	
	1474-052	A		271N			511-330-190	
Comfort Maker	1096048	D		271NM	D		511-330-193	
Detroit Radiant	201D	A		271P	A		767A-301	A
DNO Ind.	20834	A		271W	B		767A-303	F
Ducane	20015201	B	Raypak	600915	B		767A-306	
Energy Tech	10389	A	Rheem	62-22441-01	A		767A-311	A
	1474-051	A		90436600	B		767A-350	
Excon	1474-052	A		41-402	A		767A-353	F
	025-32625-000	B		41-403	B		767A-354	A
Excon Coleman	B1401009	D		41-404	B		767A-357	F
	B1401018	C		41-405	A		767A-361	A
Goodman	B1401018S	D		41-406	B		767A-364	
	50018	A		41-408	A		767A-366	B
HS Smith	1096048	D	Robertshaw	41-409	B		767A-370	B
Hill	09650	A		41-410	A		767A-371	A
Hupp Industries	1009604	A		41-412	D		767A-372	A
	1096048	D		41-418	C		767A-373	D
Intercity	75-92-104	A		1386654			767A-376	B
	75-92-105	A		1386672	B		767A-377	A
Majestic	201N	A	Snyder General	1386680			767A-382	B
	201W	A	Superior Fireplace	94851	A		9050	A
Metzger						Williamson	025-27766-000	
							025-27774-000	A
						York	025-29043-000	
							025-29050-000	

<sup>a</sup> Table data is correct to the best of Honeywell's knowledge as of this publication's date. However, some appliances may have igniter applications that are beyond the capabilities of this kit.

<sup>b</sup> For igniters that require bracket A, use the template to determine the tab to be removed.

<sup>c</sup> For Carrier sealed combustion furnaces, you must use bracket E and retain the existing orange gasket for use with bracket E.

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)

# Thermocouples/Thermopiles

Contractors depend on Honeywell for easy installation and reliable performance. Built for long service life, the Honeywell Q313A, Q340A and Q390A will work for nearly all pilot-generated millivolt applications.

When selecting a thermocouple or thermopile for your next job, look for these Honeywell features:

- Variety of lead lengths
- Easy installation
- Many accessories included
- Durability



## Thermocouple and Thermopile Selection Guide

Lead Length (in.)	THERMOCOUPLES					Cross-Reference	
	US Super Tradeline	Canada	Tradeline	White-Rodgers	Robertshaw		Husky
18	Q340A1066	Q340A1405	Q390A1095	H06E-516, H06E-18		K16BT-18	K19AT-18
24	Q340A1074	Q340A1413	Q390A1046	H06E-524, H06E-24	1970-24, 1980-24	K16BT-24	K19AT-24
30	Q340A1082	Q340A1421	Q390A1053	H06E-530, H06E-30	1970-30	K16BT-30	K19AT-30
36	Q340A1090	Q340A1439	Q390A1061	H06E-536, H06E-36	1970-36, 1980-36	K16BT-36	K19AT-36
48	Q340A1108	Q340A1447	Q390A1103	H06E-548, H06E-48		K16BT-48	K19AT-48

THERMOPILES						
Model	Item	Lead Length (in.)	Connection	Tradeline/Super Tradeline	Notes	
Q313	Q313A1022	35	Nut & Spade Terminal	Tradeline		
	Q313A1139	35	Clip & Spade Terminal	Super Tradeline	Push-In Clip	
	Q313A1170	35	Clip & Spade Terminal	Super Tradeline	PGB Adapter (393946)	
	Q313A1188	35	Nut & Spade Terminal	Super Tradeline	Push-In Clip, 1/2" Attaching Nut	
	Q313A1055	47	Nut & Spade Terminal	Tradeline	1/2" Attaching Nut	
	Q313A1105	75	Nut & Spade Terminal	Tradeline	1/2" Attaching Nut	

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)

### Q313A

#### Replacement Thermopile

- Variety of lead lengths
- Push-in clip, split nut and adapter assembly included
- Male nut connector for Pilotstat included
- Generates 750 mV in a millivolt heating system



### Q340A

#### Universal Thermocouple

- Variety of lead lengths
- Push-in clip, split nut and adapter assembly included
- Male nut connector for Pilotstat included
- Generates 30 mV in standing pilot systems
- The Q340A is a premium thermocouple with the long life and durability that your customers demand; built with a maximum amount of copper, the Q340A will provide long-lasting service that reduces callbacks and keeps your customers happy



### Q390A

#### Universal Thermocouple

- Variety of lead lengths
- Push-in clip, split nut and adapter assembly included
- Male nut connector for Pilotstat included
- Generates 30 mV in standing pilot systems
- For situations where a utility grade thermocouple is the best solution, the Q390A is the right choice



# Universal Electronic Fan Timer

Replaces all others. The new universal platform that will not only integrate control of all combustion blower and circulating fan operations in a gas warm air appliance but also replace most ST9120, ST9141 and ST9160 fan timer boards. Save room on your truck or on your shelves with a supply of ST9120U1011 timers and know you're covered.

When selecting fan timers for your next job, look for these Honeywell features:

- Universal application
- Easy installation
- Quality construction for long service life



## ST9120U1011

- Replaces 44 existing Honeywell controls to reduce inventory
- Integrates control of all combustion blower and circulating fan operations in a gas warm-air appliance
- Replaceable fuse
- DIP switch selectable heat and cool delay on and off times
- Diagnostic LED
- EAC and HUM convenience terminal connections and continuous low speed indoor air circulation are provided

ST9120U REPLACES OVER 44 EXISTING MODELS			
ST9101A1006	ST9120C3018	ST9120G4038	ST9160B1001
ST9101A1014	ST9120C4008	ST9120U1003	ST9160B1019
ST9101A1022	ST9120C4016	ST9141A1002	ST9160B1027
ST9120A2004	ST9120C4040	ST9141A1028	ST9160B1035
ST9120B1005	ST9120C4057	ST9141B1001	ST9160B1043
ST9120C1012	ST9120C5005	ST9150A1003	ST9160B1050
ST9120C1020	ST9120C5013	ST9160B2000	ST9160B1068
ST9120C2002	ST9120D3009	ST9150B2018	ST9160B1076
ST9120C2010	ST9120G2024	ST9150B2026	ST9160B1084
ST9120C2028	ST9120G2032	ST9160B2034	ST9160C1000
ST9120C3000	ST9120G4004	ST9160A1002	ST9160C1018

# Universal Electronic Fan Timer OEM Replacement Guide

RECOMMENDED DIP SWITCH SETTING						
Replaced Control Model Number	Original OEM Appliance	1	2	3	4	5
ST9101A1006	Rheem	off	off	off	off	off
ST9101A1014	Rheem	off	off	off	off	off
ST9101A1022	Trade	off	off	off	off	off
ST9120A1006	Armstrong	off	off	off	off	off
ST9120A2004	Armstrong	on	off	on	off	off
ST9120B1005	Ducane	off	on	off	off	off
ST9120C1012	Snyder General	on	off	off	off	off
ST9120C1020	Nordyne	on	off	off	off	off
ST9120C2002	York	off	off	off	off	off
ST9120C2010	Ducane	off	off	off	off	off
ST9120C2028	Armstrong	off	off	off	off	on
ST9120C3000	ICP	off	off	on	on	off
ST9120C3018	Bard	on	off	off	off	on
ST9120C4008	ICP	off	off	on	on	off
ST9120C4016	ICP	off	off	on	on	off
ST9120C4040	ICP	off	off	on	on	off
ST9120C4057	ICP	off	off	on	on	off
ST9120C5005	ICP	off	off	on	off	off
ST9120C5013	ICP	off	off	on	off	off
ST9120D3009	Goodman	off	off	on	off	on
ST9120G2008	ICP	on	off	off	on	off
ST9120G2016	ICP	off	off	off	on	off
ST9120G2024	Skymark	off	on	off	on	off
ST9120G2032	Skymark	off	on	off	off	on
ST9120G4004	ICP	off	off	on	on	off
ST9120G4012	ICP	off	off	on	on	off
ST9120G4038	Trade	off	off	on	on	off
ST9120U1003	Trade	off	off	on	off	off
ST9141A1002	Consolidated Industries	off	off	on	off	on
ST9160B1035		off	off	off	off	off
ST9160B1068	Armstrong	on	off	off	off	on
ST9160B1076	Ducane	off	off	off	off	off
ST9160B1084	ICP	off	off	on	off	on
ST9120U Factory Default Setting		off	off	off	off	off

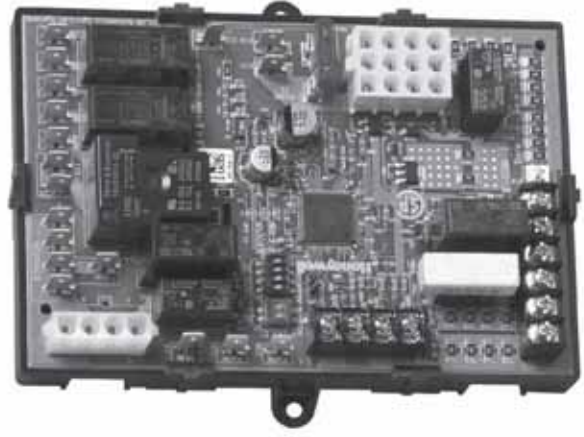
For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)

# Universal Integrated Furnace Control

The Honeywell Hot Surface Ignition Universal Integrated Furnace Control offers universal compatibility and remote monitoring and diagnostics. Able to replace a large number of furnace controls in single-stage heating and cooling appliances, Honeywell UIFCs are the only controls you need for residential natural or liquid propane fueled furnaces.

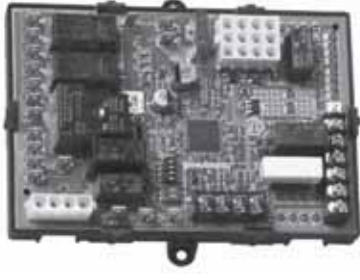
When selecting furnace controls for your next job, look for these Honeywell features:

- Replaces over 140 furnace controls
- Complete set of wiring harnesses for universal compatibility, simplified installation and field-adjustable timings
- LED indicators provide system status, performance and diagnostic information
- EnviraCOM™ communications enabled



# HSI Universal Integrated Furnace Control

- Complete set of wiring harnesses for universal compatibility and simplified installation allowing for direct replacement of competitive boards
- LED indicators provide system status, performance and diagnostic information
- EnviraCOM™-enabled for easy setup of local or remote monitoring and diagnostic systems
- Ready for remote services, whether you're replacing old controls or installing new equipment like the VisionPRO™ IAQ, Telephone Access Module or EnviraZONE™
- Engineered for reliability and long-term performance



S9200U1000 REPLACES THESE INTEGRATED FURNACE CONTROLS	
Amara	10207701, 10207702, 10207703, 10207710
Goodman	1809913, B1809913, B18099-13
ICM	ICM280
ICP	1010606; 1380-686, 1380-699
Lennox	1214201
Nortyne	624557, 624557-0, 624564, 624564-0, 624591, 624591-A, 624591-B, 624591-C, 624591-D, 624628, 624628-0, 624631-0, 624631-A, 624631-B, 710128A, 902378, 902896, 903106, CAR903106
Rheem/Robertshaw	62-24268-01, 62-24268-02, 62-24268-03, 695-200
Texas Instruments	60T-1, 60T-2, 6TF3, 4TF-5
Trane	D330927P01, D330930P01, D330934P01, D340035P01, D340036P01, D340037P01, D340038P01, D340039P01, D340040P01, D340041P01, D340042P01, D340043P01, D340044P01, D340045P01, D340046P01, D340047P01, D340048P01, D340049P01, D340050P01, D340051P01, D340052P01, D340053P01, D340054P01, D340055P01, D340056P01, D340057P01, D340058P01, D340059P01, D340060P01, D340061P01, D340062P01, D340063P01, D340064P01, D340065P01, D340066P01, D340067P01, D340068P01, D340069P01, D340070P01, D340071P01, D340072P01, D340073P01, D340074P01, D340075P01, D340076P01, D340077P01, D340078P01, D340079P01, D340080P01, D340081P01, D340082P01, D340083P01, D340084P01, D340085P01, D340086P01, D340087P01, D340088P01, D340089P01, D340090P01, D340091P01, D340092P01, D340093P01, D340094P01, D340095P01, D340096P01, D340097P01, D340098P01, D340099P01, D340100P01
United Technologies	1012-925A, 1012-925B, 1012-925C, 1012-965A, 1012-965B, 1012-965C, 1012-965D, 1012-965E, 1012-965F, 1012-965G, 1012-965H, 1012-965I, 1012-965J, 1012-965K, 1012-965L, 1012-965M, 1012-965N, 1012-965O, 1012-965P, 1012-965Q, 1012-965R, 1012-965S, 1012-965T, 1012-965U, 1012-965V, 1012-965W, 1012-965X, 1012-965Y, 1012-965Z, 1012-966A, 1012-966B, 1012-966C, 1012-966D, 1012-966E, 1012-966F, 1012-966G, 1012-966H, 1012-966I, 1012-966J, 1012-966K, 1012-966L, 1012-966M, 1012-966N, 1012-966O, 1012-966P, 1012-966Q, 1012-966R, 1012-966S, 1012-966T, 1012-966U, 1012-966V, 1012-966W, 1012-966X, 1012-966Y, 1012-966Z, 1012-967A, 1012-967B, 1012-967C, 1012-967D, 1012-967E, 1012-967F, 1012-967G, 1012-967H, 1012-967I, 1012-967J, 1012-967K, 1012-967L, 1012-967M, 1012-967N, 1012-967O, 1012-967P, 1012-967Q, 1012-967R, 1012-967S, 1012-967T, 1012-967U, 1012-967V, 1012-967W, 1012-967X, 1012-967Y, 1012-967Z, 1012-968A, 1012-968B, 1012-968C, 1012-968D, 1012-968E, 1012-968F, 1012-968G, 1012-968H, 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1012-971V, 1012-971W, 1012-971X, 1012-971Y, 1012-971Z, 1012-972A, 1012-972B, 1012-972C, 1012-972D, 1012-972E, 1012-972F, 1012-972G, 1012-972H, 1012-972I, 1012-972J, 1012-972K, 1012-972L, 1012-972M, 1012-972N, 1012-972O, 1012-972P, 1012-972Q, 1012-972R, 1012-972S, 1012-972T, 1012-972U, 1012-972V, 1012-972W, 1012-972X, 1012-972Y, 1012-972Z, 1012-973A, 1012-973B, 1012-973C, 1012-973D, 1012-973E, 1012-973F, 1012-973G, 1012-973H, 1012-973I, 1012-973J, 1012-973K, 1012-973L, 1012-973M, 1012-973N, 1012-973O, 1012-973P, 1012-973Q, 1012-973R, 1012-973S, 1012-973T, 1012-973U, 1012-973V, 1012-973W, 1012-973X, 1012-973Y, 1012-973Z, 1012-974A, 1012-974B, 1012-974C, 1012-974D, 1012-974E, 1012-974F, 1012-974G, 1012-974H, 1012-974I, 1012-974J, 1012-974K, 1012-974L, 1012-974M, 1012-974N, 1012-974O, 1012-974P, 1012-974Q, 1012-974R, 1012-974S, 1012-974T, 1012-974U, 1012-974V, 1012-974W, 1012-974X, 1012-974Y, 1012-974Z, 1012-975A, 1012-975B, 1012-975C, 1012-975D, 1012-975E, 1012-975F, 1012-975G, 1012-975H, 1012-975I, 1012-975J, 1012-975K, 1012-975L, 1012-975M, 1012-975N, 1012-975O, 1012-975P, 1012-975Q, 1012-975R, 1012-975S, 1012-975T, 1012-975U, 1012-975V, 1012-975W, 1012-975X, 1012-975Y, 1012-975Z, 1012-976A, 1012-976B, 1012-976C, 1012-976D, 1012-976E, 1012-976F, 1012-976G, 1012-976H, 1012-976I, 1012-976J, 1012-976K, 1012-976L, 1012-976M, 1012-976N, 1012-976O, 1012-976P, 1012-976Q, 1012-976R, 1012-976S, 1012-976T, 1012-976U, 1012-976V, 1012-976W, 1012-976X, 1012-976Y, 1012-976Z, 1012-977A, 1012-977B, 1012-977C, 1012-977D, 1012-977E, 1012-977F, 1012-977G, 1012-977H, 1012-977I, 1012-977J, 1012-977K, 1012-977L, 1012-977M, 1012-977N, 1012-977O, 1012-977P, 1012-977Q, 1012-977R, 1012-977S, 1012-977T, 1012-977U, 1012-977V, 1012-977W, 1012-977X, 1012-977Y, 1012-977Z, 1012-978A, 1012-978B, 1012-978C, 1012-978D, 1012-978E, 1012-978F, 1012-978G, 1012-978H, 1012-978I, 1012-978J, 1012-978K, 1012-978L, 1012-978M, 1012-978N, 1012-978O, 1012-978P, 1012-978Q, 1012-978R, 1012-978S, 1012-978T, 1012-978U, 1012-978V, 1012-978W, 1012-978X, 1012-978Y, 1012-978Z, 1012-979A, 1012-979B, 1012-979C, 1012-979D, 1012-979E, 1012-979F, 1012-979G, 1012-979H, 1012-979I, 1012-979J, 1012-979K, 1012-979L, 1012-979M, 1012-979N, 1012-979O, 1012-979P, 1012-979Q, 1012-979R, 1012-979S, 1012-979T, 1012-979U, 1012-979V, 1012-979W, 1012-979X, 1012-979Y, 1012-979Z, 1012-980A, 1012-980B, 1012-980C, 1012-980D, 1012-980E, 1012-980F, 1012-980G, 1012-980H, 1012-980I, 1012-980J, 1012-980K, 1012-980L, 1012-980M, 1012-980N, 1012-980O, 1012-980P, 1012-980Q, 1012-980R, 1012-980S, 1012-980T, 1012-980U, 1012-980V, 1012-980W, 1012-980X, 1012-980Y, 1012-980Z, 1012-981A, 1012-981B, 1012-981C, 1012-981D, 1012-981E, 1012-981F, 1012-981G, 1012-981H, 1012-981I, 1012-981J, 1012-981K, 1012-981L, 1012-981M, 1012-981N, 1012-981O, 1012-981P, 1012-981Q, 1012-981R, 1012-981S, 1012-981T, 1012-981U, 1012-981V, 1012-981W, 1012-981X, 1012-981Y, 1012-981Z, 1012-982A, 1012-982B, 1012-982C, 1012-982D, 1012-982E, 1012-982F, 1012-982G, 1012-982H, 1012-982I, 1012-982J, 1012-982K, 1012-982L, 1012-982M, 1012-982N, 1012-982O, 1012-982P, 1012-982Q, 1012-982R, 1012-982S, 1012-982T, 1012-982U, 1012-982V, 1012-982W, 1012-982X, 1012-982Y, 1012-982Z, 1012-983A, 1012-983B, 1012-983C, 1012-983D, 1012-983E, 1012-983F, 1012-983G, 1012-983H, 1012-983I, 1012-983J, 1012-983K, 1012-983L, 1012-983M, 1012-983N, 1012-983O, 1012-983P, 1012-983Q, 1012-983R, 1012-983S, 1012-983T, 1012-983U, 1012-983V, 1012-983W, 1012-983X, 1012-983Y, 1012-983Z, 1012-984A, 1012-984B, 1012-984C, 1012-984D, 1012-984E, 1012-984F, 1012-984G, 1012-984H, 1012-984I, 1012-984J, 1012-984K, 1012-984L, 1012-984M, 1012-984N, 1012-984O, 1012-984P, 1012-984Q, 1012-984R, 1012-984S, 1012-984T, 1012-984U, 1012-984V, 1012-984W, 1012-984X, 1012-984Y, 1012-984Z, 1012-985A, 1012-985B, 1012-985C, 1012-985D, 1012-985E, 1012-985F, 1012-985G, 1012-985H, 1012-985I, 1012-985J, 1012-985K, 1012-985L, 1012-985M, 1012-985N, 1012-985O, 1012-985P, 1012-985Q, 1012-985R, 1012-985S, 1012-985T, 1012-985U, 1012-985V, 1012-985W, 1012-985X, 1012-985Y, 1012-985Z, 1012-986A, 1012-986B, 1012-986C, 1012-986D, 1012-986E, 1012-986F, 1012-986G, 1012-986H, 1012-986I, 1012-986J, 1012-986K, 1012-986L, 1012-986M, 1012-986N, 1012-986O, 1012-986P, 1012-986Q, 1012-986R, 1012-986S, 1012-986T, 1012-986U, 1012-986V, 1012-986W, 1012-986X, 1012-986Y, 1012-986Z, 1012-987A, 1012-987B, 1012-987C, 1012-987D, 1012-987E, 1012-987F, 1012-987G, 1012-987H, 1012-987I, 1012-987J, 1012-987K, 1012-987L, 1012-987M, 1012-987N, 1012-987O, 1012-987P, 1012-987Q, 1012-987R, 1012-987S, 1012-987T, 1012-987U, 1012-987V, 1012-987W, 1012-987X, 1012-987Y, 1012-987Z, 1012-988A, 1012-988B, 1012-988C, 1012-988D, 1012-988E, 1012-988F, 1012-988G, 1012-988H, 1012-988I, 1012-988J, 1012-988K, 1012-988L, 1012-988M, 1012-988N, 1012-988O, 1012-988P, 1012-988Q, 1012-988R, 1012-988S, 1012-988T, 1012-988U, 1012-988V, 1012-988W, 1012-988X, 1012-988Y, 1012-988Z, 1012-989A, 1012-989B, 1012-989C, 1012-989D, 1012-989E, 1012-989F, 1012-989G, 1012-989H, 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1012-992V, 1012-992W, 1012-992X, 1012-992Y, 1012-992Z, 1012-993A, 1012-993B, 1012-993C, 1012-993D, 1012-993E, 1012-993F, 1012-993G, 1012-993H, 1012-993I, 1012-993J, 1012-993K, 1012-993L, 1012-993M, 1012-993N, 1012-993O, 1012-993P, 1012-993Q, 1012-993R, 1012-993S, 1012-993T, 1012-993U, 1012-993V, 1012-993W, 1012-993X, 1012-993Y, 1012-993Z, 1012-994A, 1012-994B, 1012-994C, 1012-994D, 1012-994E, 1012-994F, 1012-994G, 1012-994H, 1012-994I, 1012-994J, 1012-994K, 1012-994L, 1012-994M, 1012-994N, 1012-994O, 1012-994P, 1012-994Q, 1012-994R, 1012-994S, 1012-994T, 1012-994U, 1012-994V, 1012-994W, 1012-994X, 1012-994Y, 1012-994Z, 1012-995A, 1012-995B, 1012-995C, 1012-995D, 1012-995E, 1012-995F, 1012-995G, 1012-995H, 1012-995I, 1012-995J, 1012-995K, 1012-995L, 1012-995M, 1012-995N, 1012-995O, 1012-995P, 1012-995Q, 1012-995R, 1012-995S, 1012-995T, 1012-995U, 1012-995V, 1012-995W, 1012-995X, 1012-995Y, 1012-995Z, 1012-996A, 1012-996B, 1012-996C, 1012-996D, 1012-996E, 1012-996F, 1012-996G, 1012-996H, 1012-996I, 1012-996J, 1012-996K, 1012-996L, 1012-996M, 1012-996N, 1012-996O, 1012-996P, 1012-996Q, 1012-996R, 1012-996S, 1012-996T, 1012-996U, 1012-996V, 1012-996W, 1012-996X, 1012-996Y, 1012-996Z, 1012-997A, 1012-997B, 1012-997C, 1012-997D, 1012-997E, 1012-997F, 1012-997G, 1012-997H, 1012-997I, 1012-997J, 1012-997K, 1012-997L, 1012-997M, 1012-997N, 1012-997O, 1012-997P, 1012-997Q, 1012-997R, 1012-997S, 1012-997T, 1012-997U, 1012-997V, 1012-997W, 1012-997X, 1012-997Y, 1012-997Z, 1012-998A, 1012-998B, 1012-998C, 1012-998D, 1012-998E, 1012-998F, 1012-998G, 1012-998H, 1012-998I, 1012-998J, 1012-998K, 1012-998L, 1012-998M, 1012-998N, 1012-998O, 1012-998P, 1012-998Q, 1012-998R, 1012-998S, 1012-998T, 1012-998U, 1012-998V, 1012-998W, 1012-998X, 1012-998Y, 1012-998Z, 1012-999A, 1012-999B, 1012-999C, 1012-999D, 1012-999E, 1012-999F, 1012-999G, 1012-999H, 1012-999I, 1012-999J, 1012-999K, 1012-999L, 1012-999M, 1012-999N, 1012-999O, 1012-999P, 1012-999Q, 1012-999R, 1012-999S, 1012-999T, 1012-999U, 1012-999V, 1012-999W, 1012-999X, 1012-999Y, 1012-999Z, 1013-000A, 1013-000B, 1013-000C, 1013-000D, 1013-000E, 1013-000F, 1013-000G, 1013-000H, 1013-000I, 1013-000J, 1013-000K, 1013-000L, 1013-000M, 1013-000N, 1013-000O, 1013-000P, 1013-000Q, 1013-000R, 1013-000S, 1013-000T, 1013-000U, 1013-000V, 1013-000W, 1013-000X, 1013-000Y, 1013-000Z,



# Universal Integrated Furnace Control Selection Guide

SKU	HARNES	FIELD SETTINGS RECOMMENDATION				SAFETY TIME SETTINGS		
		SW1	SW2	SW3	SW4	SW1	SW2	
1809913, 61809913, 61809913	Main Harness E & Inducer/HSI Harness F	On	Off	60/90/120/180	60/90/120/180	Off	On	
ICM280	Main Harness E & Inducer/HSI Harness F	Check Control Field Settings						Check Control Safety Timings
1010806	Inducer/HSI Harness A	On	Off	60/90/120/180	60/90/120/180	Off	Off	
1390496							On	
1390498							On	
1214201	Inducer/HSI Harness A	On	Off	On	Off	Off	Off	
624557, 6245570, 624557-0	Main Harness D & Inducer/HSI Harness B	On	Off	60/90/120/180	60/90/120/180	On	Off	
624564, 6245640							Off	
624591							Off	
624591A, 624591-A							Off	
624591-B							Off	
624591-C							Off	
624591-D							Off	
624628, 624628-0							Off	
6246310, 624631-0							Off	
624631A, 624631-A							Off	
624631-B	Off							
710128A	Off							
902696	Off							
902378	Off							
902696	Off							
903116, CA8903106	Off							
62-24288-01	Off							
62-24288-02	Off							
62-24288-03	Off							
695-200	Off							
D330827001	Inducer/HSI Harness A	On	Off	60/90/120/180	60/90/120/180	Off	Off	
D330839001							Off	
D330894001							Off	
D340359001							Off	
D3403594001							Off	
D340774001							Off	
D341235001							Off	
50A55-571 <sup>†</sup>							Off	
50A55-473							Off	
50A50-474							Off	
50A50-406	Off							
50A50-471	Off							
41F-5	Off							
60T-1	Off							
60T-2	Off							
61F3	Off							
1012-925A	Off							
1012-925B	Off							
1012-925C	Off							
1012-955A, 1012955A	Off							
1012-83-8651B	Off							
10129230, 1012-8320	Off							
1012-83-3330A/5C1	Off							
1012-83-3337A	Off							

<sup>†</sup> Wiring harness G should be used if the control being replaced has a 2-pin inducer/igniter connector instead of a 4-pin inducer/igniter connector.

Use with only 120 VAC Appliances

SKU	HARNES	FIELD SETTINGS RECOMMENDATION				SAFETY TIME SETTINGS	
		SW1	SW2	SW3	SW4	SW1	SW2
10207701	Inducer/HSI Harness A	On	Off	On	Off	Off	On
10207702							On
10207703							On
10207710							On
50A50-110							Off
50A50-111							Off
50A50-112							Off
50A50-113							Off
50A50-142							Off
50A50-143							Off
50A50-205	Off						
50A50-206	Off						
50A50-207	Off						
50A50-209	Off						
50A50-230	Off						
50A55-71	Off						
50A55-741	Off						
50A55-741	Off						
50A55-965	Off						
50A50-268	Off						
50A50-288	Off						
50A50-295	Off						
50A50-296	Off						
50A50-438	Off						
50135730, 501357-700	Off						
50135743, 501357-743	Off						
50A55-120	Off						
50A55-143	Off						
50A55-285	Off						
50A55-286	Off						
50A55-288	Off						
50A55-408	Off						
50A55-474	Off						
50A55-843	Off						
0310682800, 031-01682-100	Main Harness E & Inducer/HSI Harness F	On	Off	On	Off	Off	Off
031-00862-700							Off
031-0140-001							Off
031-0140-701							Off
031-0140-702							Off
031-01234-000							Off
031-01234-700							Off
031-01235-000							Off
031-01235-700							Off
031-07256-000							Off
031-07265-000	Off						
031-07267-000	Off						
031-07267-400	Off						
031-07267-601	Off						
031-07267-901	Off						
031-07284-000	Off						
031-07284-701	Off						
3101933000, 031-01933-000	Inducer/HSI Harness A	On	Off	60/90/120/180	60/90/120/180	Off	On
031-01972-000							Off
031-01972-400							Off
031-02166-000							Off
031-02166-600							Off
031-09166-000							Off
031-09167-000							Off
33101933000, 331-01933-000							Off
331-09167-000							Off
331-09172-200							Off
43101972100, 431-01972-100	Off						
6951A08-1401	Off						
6951A08-1401A, 6951A08-1401B, 6951A08-1401C, 6951A08-1401D, 6951A08-1401E, 6951A08-1401F, 6951A08-1401G, 6951A08-1401H, 6951A08-1401I, 6951A08-1401J, 6951A08-1401K, 6951A08-1401L, 6951A08-1401M, 6951A08-1401N, 6951A08-1401O, 6951A08-1401P, 6951A08-1401Q, 6951A08-1401R, 6951A08-1401S, 6951A08-1401T, 6951A08-1401U, 6951A08-1401V, 6951A08-1401W, 6951A08-1401X, 6951A08-1401Y, 6951A08-1401Z	Off						
6951A08-1403	Off						
P03101267001, P031-01267-001	Off						
PTH031011400-00	Off						
CAR33101972200	Off						
CAR03101973000	Off						
CAR50A55843	Off						
031-00682	Off						

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)

# Fan and Limit Controls

Honeywell fan and limits combines high temperature limit with circulating blower control. As an industry standard for many years, these controls have a large and varied installed base. You'll find Honeywell fan and limits on a wide range of furnace equipment. Our universal family increases service efficiency and reduces truck and warehouse inventory.

Key features for the family of universal fan and limits:

- Family members cover the full range of insertion — 5", 8", 11-1/2"
- Adjustment tool and cross-reference allow for field adjustment to factory settings
- Universal kit accessories reduce inventory

## L4064

### High Limit and Fan Controller

- Used in all types of forced-air heating systems
- Three wiring terminal options available for easy installation
- Available in a variety of fan and high-limit setting ranges
- Controls adapt to many competitive mounting holes in replacement applications
- Push-in receptacles for stripped wire
- L4064 models for timed fan on
- Special high temperature limit models available
- Suitable for line voltage, low voltage or millivoltage control applications



## L6064

### High-Limit and Two-Speed Fan Controller

- Provides two-speed fan control
- Continuous low-speed and high-speed on-call for heat
- Same overall size and mounting as L4064
- Same specifications as L4064



# Fan and Limits Selection Guide

MODEL	OS#	REGION	ELEMENT INSERTION LENGTH (IN)	REPLACES	HIGH LIMIT STOP (F)	FAN-ON STOP (F)	FAN-OFF STOP (F)	MANUAL FAN BUTTON	MANUAL RESET	SWITCHING ACTION
L4064	L4064B2228	US/ Canada	5	L4064B1600, L4064B3440, L4064B3010, L4064B1683, L4064B2228, L4064B2640, L4064B2889, L4064B2947, L4064B3374, L4064B3432, L4064B2897, L4064B3598, L4064B3515, L4064E2502, L4064E2585, L4064E2628, L4064F1086, L4064A2501, L4064A1339, L4064A1503	160 to 200	110 to 125	85 to 100	Yes	No	Fan: SPST — N.O. (make on res), Limit: SPST — N.C. (break on res)
				L4064W1072, L4064W1163, L4064W1197, L4064W1056, L4064W1064, L4064W1286, L4064Y1565	200	120	90	Yes	No	Fan: SPST — N.O. (make on res), Limit: SPST — N.C. (break on res)
				L4066B9367, L4064B1610, L4064B1691, L4064B2000, L4064B2303, L4064B2962, L4064B2774, L4064B3572, L4064B3570, L4064B3659, L4064B3690, L4064B3691, L4064B3690, L4064E2462, L4064E2544, L4064E2270, L4064A3268, L4064A2070, L4064A1725, L4064A1347, L4064A1511, L4064A2774	170 to 250	120 to 140	90 to 104	Yes	No	Fan: SPST — N.O. (make on res), Limit: SPST — N.C. (break on res)
				L4064R1019, L4064R1118, L4064R1126	180 to 250	125	100	Yes	Yes	Fan: SPST — N.O. (make on res), Limit: SPST — N.C. (break on res)
				L4064W1007, L4064W1171, L4064W1130, L4064W1271, L4064W1205, L4064W1288, L4064T1707, L4064T1715, L4064T1780, L4064T2083, L4064T2440, L4064W1015, L4064Y1573	150 to 220	100 to 185	90 to 120	Yes	No	Fan: SPST — N.O. (make on res), Limit: SPST — N.C. (break on res)
				L4064A1321, L4064A1453, L4064A2758, L4064A3046, L4064B3580, L4064B3465, L4064B1592, L4064B1725, L4064B1931, L4064B2210, L4064B2723, L4064B2863, L4064B2854, L4064B3086, L4064B3044, L4064B3077, L4064B2756, L4064B3069, L4064E2551	170 to 250	122 to 130	90 to 104	Yes	No	Fan: SPST — N.O. (make on res), Limit: SPST — N.C. (break on res)
				L4064R1100, L4064R1069, L4064R1035, L4064R1027	170 to 250	125	100	Yes	Yes	Fan: SPST — N.O. (make on res), Limit: SPST — N.C. (break on res)
				L4064T1046, L4064T2457, L4064W1213, L4064W1254, L4064Y1540	200 to 210	125 to 130	100	Yes	No	Fan: SPST — N.O. (make on res), Limit: SPST — N.C. (break on res)
				L6064A1094, L6064E1020	180 to 200	105 to 125	90 to 100	No	No	Fan: SPDT, Limit: SPST — N.C. (break on res)
				L6064A1045	Carada	8	L6064A1086	200	125 to 130	100
L6064A1037	Carada	11.5	L6064A1003, L6064A1079, L6064A1151	200	125 to 165	85 to 100	No	No	Fan: SPDT, Limit: SPST — N.C. (break on res)	

\* Some models limit, Fan On and Fan Off need to be adjusted.

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)

# Oil Primaries

Honeywell has set the standard for oil-fired furnaces, boilers and water heaters when it comes to oil primary controls. In addition to delivering dependability and high quality products, Honeywell has gone one step further to create an easy-to-use oil primary control designed to simplify installation and enhance maintenance. Our latest innovation will redefine that standard as the next generation of controls proves, it takes a legend to make one.

When selecting an oil primary for your next job, look for these Honeywell features:

- Universal application with field adjustable timings
- Integrated display allows for setup without using an external tool
- Advanced diagnostics that direct the technician to the likely cause of ignition failure
- Legendary performance and reliability



## R7284U1004

### Universal Digital Electronic Oil Primary

- A single part number for nearly all applications helps reduce inventory cost
- 16 character two line tri-lingual display, provides simple programming and diagnostics
- No additional tool to purchase to take advantage of all control features
- Monitors igniter and cad cell and alerts technician what component caused ignition failure
- Error history and baseline readings provide system performance trends



**5-YEAR WARRANTY**

## R8184

### Protectorelay® Oil Burner Control

- Industry-standard intermittent ignition control
- Solid-state, flame-sensing circuit
- 45-second timing, safety switch
- Mounts on standard 4" x 4" junction box
- External button to manually reset safety switch after lockout

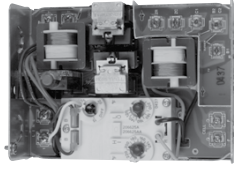


**2-YEAR WARRANTY**

## R8182

### Combination Protectorelay® and Hydronic Heating Controllers

- Immersion-type Aquastat® controller and oil burner primary control
- Provides high limit and low limit/circulator control
- Use in intermittent ignition applications
- Circulator zone control with ZC and ZR terminals on R8182D, E, H, J



**2-YEAR WARRANTY**

## W8735S3000

### EnviraCOM™ Alarm Module

- Works with any alarm generating EnviraCOM enabled control
- Local LED alarm present and communication active indication
- Simple low-voltage, 5-wire installation



# Oil Primaries Selection Guide

OIL PRIMARIES							
Ignition Type	Universal Service Part	Specifications					
		Lockout Time (Sec.)	Valve On Delay (sec.)	Blower Off Delay (min.)	Alarm Contacts	Manual Trip Lever w/ LED Indicator	
Interrupted	R7284U1004	15	0/15	0/2/4/6	Yes*	Yes	
							15
							0/25
		30	0/15	0/2/4/6		No	
		45	0/15	0/2/4/6	Yes*	No	
Intermittent	R7284U1004	15			Yes*		
		30					
		45				Yes	
	R8184M1051	45			Yes*		

(1) Includes 40 VA transformers and heat/cool thermostat connections for warm-air furnace applications.

\*Alarm accessory module required. EnvisiCOM™ Alarm Module W8735S000

Direct Service Part	Features and Functions		Includes	Upgraded Cross-Reference
	Mounting	Differential Temperature (F) High Limit Low Limit/ Calculator		
R8182D1079	Vertical	10 to 25	Heat-Conductive Compound	R8182E1118
R8182D1111	Horizontal	10 to 25	Heat-Conductive Compound	R8182D1129
R8182H070	J Box	10 to 25	Heat-Conductive Compound	
R8182J1042	J Box	15 fixed	Heat-Conductive Compound	R8182J1059

## STACK SWITCHES

Model Number	Ignition Type	Replaces
RA116A1055	Intermittent	RA116A1063
RA117A1047	Interrupted	

Cross-Reference					
Honeywell	Beckett	Carlin	White-Rodgers		
R7184U1004, R7184P1031, R7184P1049, R7184P1056, R7184P1064, R7184P1072	7505P125M	50200-02S, 602000-02S, 6020002S015120, 6020002S030015, 6020002S030030, 6020002S030120, 6020002S030300, 6020002S030010			
R7184A1026, R7184A1075, R7184A1000	7505A0000	40200-02S	669-640, 669-670		
R7184B1024, R7184B1032, R7184B1016	7505B1500				
R7184P1080, R7184P1098	7505P1515				
R7184U1012					
R7184A1018, R7184A1034		42230-02S	669-440, 669-445, 669-470, 669-540		
R7184U1020					
R7184A1042					
R8184G1294, R8184G1302, R8184G4066, R8184G4074, R8184G4033, R8184G4090, R8184G1427, R8184G4058	7505A0000		668-601, 668-670		
R8184G1993, R8184G1302, R8184G4074, R8184G4033			668-501		
R8184G1286, R8184G1427, R8184G1458, R8184G4009, R8184G4025, R8184G4082, R8184G4108	48245-S		668-401, 668-415, 668-430, 668-515		
R8184M1002			668-430		

## CAD CELL SELECTOR GUIDE

Product Number	CAD Cells (1)	Lead Length (in.)	Wire Termination	Mounting Bracket	Includes	TradeLine Value	Replaces	White-Rodgers	Westwood
C554A1463	130367	60	2 Flag 1/4" OC	Type R	A, B, E, J and P Mounting Brackets and Fuel Line Adaptor	Super TradeLine	C554A1307, C554A1315, C554A1398, C554A1133, C554A1174, C554A1372, C554C1570, C554A1216, C554A1927, C554A1794	956-154	TMK-60
C554A1794	130367	60	Stripped	Type R	E Mounting Bracket and Fuel Line Adaptor	TradeLine	C554A1307, C554A1927	956-11 956-154	TMK-60

### Notes:

\*18320 replacement CAD cell 7.5 MA minimum sensitivity at 2' candles.

\*\*130367 high-sensitivity CAD cell 12 MA minimum sensitivity at 2' candles.

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)

# Outdoor Reset

The AquaReset improves comfort and efficiency inside because it knows the weather outside. Our new product is designed to help homeowners save on energy costs by operating their boiler at more efficient settings based on the actual outdoor temperature while providing the necessary heat to maintain a comfortable indoor temperature. Integrating easily into any Honeywell outdoor reset ready electronic Aquastat, this product provides easy installation and up to 15 percent energy savings for the homeowner.



## L7224R1000 Honeywell AquaReset Outdoor Reset System

- Designed to improve boiler efficiency by automatically resetting boiler water temperature based on outdoor temperature
- Upsell opportunity for contractors during a oil-fired service call
- Boost mode ensures homeowner comfort needs quickly met when control in reset
- Meets 2012 DOE mandate to include advanced control on boilers
- Compatible with EnviraCOM Alarm Module (W8735S3000)

## W8735S1000 Honeywell AquaReset Outdoor Reset Kit

- Designed to improve boiler efficiency by automatically resetting boiler water temperature based on outdoor temperature
- Upsell opportunity for contractors during a new boiler installation when an Outdoor Reset Ready Aquastat is present
- Simple installation with three wire connection to the Aquastat
- Compatible with any L7224 or L7248 Outdoor Reset Ready Aquastat



## W8735S1008 Honeywell AquaReset Domestic Hot Water Kit

Required for domestic hot water override with some Honeywell's AquaReset installations\*

- Compatible with Honeywell AquaReset system and kit
- Ensures domestic hot water needs are met when combining AquaReset with an indirect DHW tank.
- Easy three-wire installation to AquaReset module



\* Kit required to enable domestic hot water override functionality with indirect DHW tank when the Z1 terminal on the Aquastat® is not used or available for DHW demand. See instructions or visit [customer.honeywell.com](http://customer.honeywell.com) for complete details.



\*Honeywell Inc. 1979 Study; Control Systems Providing Energy Savings with single and multi-zone Hydronic Heating. 15% is the average energy savings and can only be achieved when installing an outdoor reset model, domestic hot water priority is off and the unit is installed as directed.

# Aquastats®

The boiler industry standard, Honeywell Aquastats have a proven track record, wide OEM new equipment usage and a large installed base. Our electronic Aquastat family builds on this reputation while adding performance-enhancing features. Honeywell service parts have you covered, offering universal compatibility and improved service call efficiency — while keeping both distributor and contractor satisfaction in mind.

When selecting an Aquastat for your next job, look for these Honeywell features:

- Broad range and flexibility covers a variety of applications and needs
- Universal versions allow multiple mounting and configuration capability
- Universal versions reduce inventory and assure truck availability
- Electronic versions include communications as a standard feature, allowing add-on efficiency, troubleshooting and monitoring capability
- EnviraCOM™ communications enabled



## L7224

### Universal Oil Electronic Aquastat

- Diagnostic updates through easy-to-read LED displays
- +/- 2° F accuracy and faster response times
- Adjustable high- and low-limit differential
- Outdoor reset functionality available with W8735S1000
- Provides multizone control
- Thermowell horizontal or vertical and flush mounting
- EnviraCOM™ communications enabled
- Add alarm contacts with W8735S3000



MULTI-FUNCTION

## L8124/L8148

### Triple Aquastat Relay

- Oil and gas versions
- High-limit or high-and-low-limit versions
- Mounts directly on boiler horizontally or vertically
- Provides multizone control
- Immersion-type controllers that combine high limit protection with low limit and circulator control in forced hydronic heating systems
- The L8148 includes a transformer to provide power for the low-voltage control circuit
- Gas versions include a transformer to provide power for the low voltage circuit



## L6006/L4006

### Aquastat Controller

- Totally enclosed Micro Switch snap-acting switches operate on temperature rise to setpoint
- Visible control point scale and external adjustment screw permit easy setting
- Horizontal or vertical insertion of sensing element
- Direct or well immersion of the sensing element
- SPST and SPDT switching action



SINGLE-FUNCTION

## L6008/L4008

### Aquastat Controller

- Visible control point scale and external adjustment screw permit easy setting
- Horizontal or vertical mounting of the remote element into boiler, tank or other container
- Fast-responding remote temperature sensor
- SPDT or SPST switching action





# Single-Function Aquastat® Selection Guide

SENSOR AND THERMOWELL		FEATURES AND FUNCTIONS					
Product Number <sup>1</sup>	Switch Configuration	Thermowell Included	Thermowell Spud Size — 1/4 NPT (in.)	Capillary Length (in.) <sup>2</sup>	Manual Reset	Operating Temperature Range (F)	Factory Stop (F)
L4006A1009		Yes	1/2	1-1/2		100 to 240	
L4006A1017		Yes	1/2	1-1/2		100 to 240	
L4006A1132		Yes	3/4	3		100 to 240	160
L4006A1678				3		100 to 240	
L4006A1959				3		40 to 180	
L4006A1967		Yes	1/2	1-1/2		100 to 240 <sup>3</sup>	
L4006A2007				3		100 to 240	
L4006A2148				3		100 to 200	
L4006E1042					Yes	130 to 270 <sup>3</sup>	240
L4006E1067				3	Yes	130 to 270	
L4006E1091	SPST - N.C. (break on rise)			3	Yes	130 to 270	
L4006E1125				3	Yes	100 to 200	
L4006H1004				1-1/2		100 to 240 <sup>3</sup>	240
L4006G1022				3		100 to 200	
L4008A1015				66		100 to 240 <sup>3</sup>	
L4008A1130				120		130 to 270	
L4008A1189				66		130 to 270	
L4008E1156				66	Yes	130 to 270	250
L4008E1305				66	Yes	100 to 240	240
L4008E1313				66	Yes	100 to 200 <sup>3</sup>	
L4008E1347				66	Yes	40 to 180 <sup>3</sup>	
L4008B1007	SPST - N.O. (make on rise)	Yes	1/2	1-1/2		100 to 240	
L4008B1155				3		100 to 240	
L6006A1004		Yes	1/2			100 to 240	
L6006A1012		Yes	1/2	1-1/2		100 to 240	240
L6006A1145				3		100 to 240	
L6006A1244				3		100 to 240	
L6006C1018	SPDT					65 to 200	
L6008A1093				66		-30 to 70 <sup>3</sup>	
L6008A1192				66		100 to 240	240
L6008A1242				66		100 to 200 <sup>3</sup>	

All mounting is universal horizontal or vertical mounting unless noted. All Tradeline Aquastats®

<sup>2</sup> Capillary Length

If less than 3" then insulation depth of thermowell

<sup>3</sup> All manual reset models comply with the CSD-1 requirement for Manual Reset. Devices with maximum Range of 200°F, 190°F, 180°F are designed to meet local code requirements regarding maximum setpoints. Units having scale ranges above 240°F do not comply with ASME Section IV for boilers, use 240 Maximum range Aquastats.

<sup>4</sup> Electrical Ratings

- A Millivolt: 0.25 A @ 0.25 to 12 Vdc; AFL: 8 A @ 120 Vac; 5.1 A @ 240 Vac; ALR: 48 A @ 120 Vac; 30.6 A @ 240 Vac
- B Millivolt: 0.25 A @ 0.25 to 12 Vdc; AFL: 1.3 A @ 240 Vac; 8 A @ 120 Vac; ALR: 48 A @ 120 Vac; 30.6 A @ 240 Vac
- C AFL: 2.5 A @ 120 Vac; 1.3 A @ 240 Vac; ALR: 15.6 A @ 120 Vac; 7.8 A @ 240 Vac
- H AFL: 8 A @ 120 Vac; 1.3 A @ 240 Vac; ALR: 48 A @ 120 Vac; 30.6 A @ 240 Vac

FEATURES AND FUNCTIONS		NOTES		CROSS-REFERENCE	
Differential Temperature (F)	Electrical Ratings <sup>4</sup>	Notes	OEM or Trade Product Number		
5 Fixed	A				
5 to 30	A		L4080B, L4080D Families, L4006A1058, L4006A1827, L4006A2015		
5 Fixed	A		L4006A2023		
5 to 30	A				
2 Fixed	B				
5 to 30	A				
5 to 30	A				
5 to 30	A				
5 to 30	A	Canada Only	L4006E1091, L4006E1109, L4006E1117, L4006E1125, L4006E1133		
	A				
	D	Bracket for Strap-On Mounting			
7	H	Canada Only			
5 to 30	A				
5 to 30	A				
5 to 30	A				
	A		L4008E1040, L4008E1246, L4008E1321		
	A		L4008E1271, L4008E1313		
	A	Meets Certain State Specific Boiler Inspector Requirements			
	A				
5 Fixed	A				
5 to 30	A		L4006B1189, L4008B1163		
5	A				
5 to 30	A		L6006A1160, L6006A1269, L6006A1301, L6006A1327, L6006A1335		
5 to 30	A	Horizontal Mount Only	L4006A1004		
5 to 30	A				
5 to 30	A	Includes Surface Mount Using 1/4" NPT Female Threads or Surface Mount Through Base of Case	L6006C1034, L6006C1059		
5 to 30	A		L6008A1010		
5 to 30	A				
5 to 30	A				

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)

# Multi-Function Aquastat® Selection Guide

Product Number	FUEL		LOW LIMIT		HIGH LIMIT	
	Gas	Oil	Operating Range, Low Limit (F)	Differential Temperature, Low Limit (F)	Operating Range, High Limit (F)	Differential Temperature, High Limit (F)
L6081A1010	•	•	110 to 220		130 to 240	10 fixed
L6081A1036	•	•	110 to 220	10 to 25	130 to 240	10 fixed
L8148E1265	•				180 to 240	15 fixed
L8124E1016	•		110 to 220	10 to 25	130 to 240	10 fixed
L8148J1009	•				120 to 240	8 fixed
L7224U1002		•	110 to 220	10 to 25	130 to 240	5 to 20 adj.
L8124A1007		•	110 to 220	10 to 25	130 to 240	10 fixed
L8124C1003		•	110 to 220	10 to 25	130 to 240	10 fixed
L8124G1020		•	110 to 220	10 to 25	130 to 240	10 fixed
L8124L1011		•	110 to 220	10 to 25	130 to 240	10 fixed
L8148A1017		•			140 to 240	8 fixed

\* Replacement Sensors for the 7224U.

OS Number	Length
50001464-001	12"
50001464-004	36"
50001464-005	48"

FEATURES AND FUNCTIONS					CROSS-REFERENCE	
Factory Stop (F)	Switching Action	Anticipator Setting	Mounting	Notes	OEM Part Number	
	SPDT		H		L6081A1069	
	SPDT		H		L4081A1023, L4081A1148, L4081A1155, L4081A1171, L4081A1189, L4081A1197	
	2 SPST: High Limit & Circulator	0.2 A	V		L8148E1158, L8148E1182, L8148E1216, L8148E1085	
	2 SPST: High & Low Limit	0.2 A				
240	2 SPST: High Limit & Circulator	0.2 A	VH			
	3 SPST: High and Low Limit, Circulator	0.1 A	VH/F	Universal Oil Digital Display and Settings Used with Oil Burner Applications, Envirowarm® Communications	All L8124A or C, L8148A or C, L7224A or C, L7248A, or C, L8151A	
		0.2 A	V		L8124A1015, L8124A1015, L8124A1049, L8124A1106, L8124A1114, L8124A1130, L8124A1155, L8124A1015	
	2 SPST: High & Low Limit	0.2 A	H		L8124C1094, L8124C1102	
	2 SPST: High & Low Limit	0.2 A	V		L8124G1004, L8124G1012	
	2 SPST: High & Low Limit	0.2 A	H		L8124L1003, L8124L1029, L8124G1038, L8124G1046	
240	2 SPST: High Limit & Circulator	0.2 A	H		L8148A1155, L8148A1157, L8148A1124, L8148A1090, L8148A1082, L8148A1009	

For a complete cross-reference, visit [www.customer.honeywell.com](http://www.customer.honeywell.com)

# Relays/Contactors/Transformers

Honeywell offers a complete range of relays, contactors and transformers for all your residential and commercial HVAC applications. All Honeywell products are designed to exceed safety and industry life cycle standards. In order to meet these criteria, a statistically significant sample of Honeywell products are tested to failure and to our stringent qualification requirements. This testing methodology enables Honeywell to verify that these products will exceed industry standards.

## Relays

Honeywell's switching relays are available in multiple configurations for various applications. For whatever you need — general purpose relays or electric heat relays — Honeywell has you covered.

- **General Purpose and Heavy-Duty Switching Relays** — R4222, R8222, R4228 and R8228 for use in refrigeration and air-conditioning equipment, appliances and vending machines
- **Time Delay Relay** — ST82 combines the R8222 or R8228 relay for use in compressor-run air conditioning and heat pump systems; this product features an electronic timer that delays blower shut off after the compressor has shut off.
- **Fully Enclosed Line and Low-Voltage Fan Relays** — R4225 and R8225 for control of line voltage fan motors and auxiliary circuits.



RELAYS							
Input Voltage/Coil Voltage	Switching	Product Number	Full Load Amp Rating	Frequency	Dimensions (in.) H x W x D	Electrical Connections (main)	Special Features
24 Vac	DPST N.O.	R8228D1018	6.5	A	1 7/8 x 2 5/32 x 2 3/8	Q	Pilot duty 80 sec. shut off delay
	DPDT (1 P & 1 P Duty)	R8228V1003					
	DPDT — Pilot Duty	R8228N1011					
	DPDT	R8228D1014					
24 Vac	SPDT	ST82D1004	12	A	2 7/32 x 2 1/16 x 2 9/16	Q	
	DPDT	R8228B1067					
120 Vac	DPDT	R4222D1013		B	1 7/8 x 2 5/32 x 2 3/8	L	
	SPDT	R4222B1082					
208/240 Vac	DPDT	R4222D1021		A	1 7/8 x 2 5/32 x 2 3/8	Q	
	SPDT	R4222B1017					
24 Vac	DPST N.O.	R8228D1003	14	B	2 11/16 x 2 1/2 x 3 7/16	L	
	SPDT, 1 N.O., 1 N.C.	R4228A1008					
24 Vac	SPDT	R8228B1012	18	A	1 7/8 x 2 5/32 x 2 3/8	Q	
	DPST	R8228A1005					
24 Vac	DPST	R8228A1021	7	B	2 3/16 x 2 3/32 x 2 1/4	CHS	Extra mounting hardware
	DPST	R8228A1021					
24 Vac	<b>ELECTRIC HEAT RELAYS</b>						
	<b>ELECTRIC FURNACE SEQUENCER</b>						
24 Vac	7.2						
	B 3 1/16 x 4 13/16 x 2 11/32						
24 Vac	<b>ELECTRIC HEAT CONTACTOR</b>						
	30						
24 Vac	2 3/16 x 2 1/4 x 3 5/16						
	Q, S						

Frequency:	A — 60 Hz/50 Hz; B — 60 Hz; C — 50 Hz	SPST:	Single Pole Single Throw
Approvals:	UL, CSA	DPST:	Double Pole Single Throw
Temp. Rating:	30° F to +150° F, 1.15 F max for R8225	DPDT:	Double Pole Double Throw
Connectors:	CHS — Combination Head Screw; L — Leadwires; Q — Quick connect; T — terminals	SPDT:	Single Pole Double Throw

## Transformers

Honeywell offers NEMA — standard DC20-1992 and general purpose transformers. These transformers are available with single or multiple input voltages and with foot, conduit and plate mounting options. Transformers with circuit breakers that can be manually reset by pressing a button are also available. Honeywell also designs transformers for specific environmental requirements and with specialized termination options.



### TRANSFORMERS

Electrical Ratings (VA)	Electrical Ratings (Input Voltage)	Product Number	NEMA Rated	Mounting	Main Connections	Secondary Connections	Frequency	Dimensions (in.) H x W x D	Special Features
19 VA	120 Vac	AT20A1123		F	L	L		2 x 2 1/4 x 1 7/8	
		AT72D1006		P	S	S		3 7/32 x 2 7/32 x (1 1/16 into 2 in. above plate)	
40 VA	120 Vac	AT72D1089		F	L	L		3 7/32 x 2 7/32 x 3 1/16	
		AT72D1188		P	M	S		3 7/32 x 2 7/32 x 2 15/16	
		AT72D1683		M	M	S			Available only in Canada
		AT72D1956	Yes	M	M	S	A	3 7/32 x 2 7/32 x 3 1/16	Available only in Canada
48 VA	277 Vac	AT72D1753		M	S	S			Available only in Canada
		AT87A1189		F	L	L			Energy limiting overload protection
50 VA	120/208/240 Vac	AT87A1155		F	L	L		2 15/16 x 2 7/32 x 2 1/4	Built-in protection, Primary winding turnout
		AT87A1106		M	S	S			Metal end bells
20 VA	120/208/240 Vac	AT120E1028		F	L	L		1 11/16 x 3 3/16 x 1 3/4	Metal end bells
		AT120A1004		M	S	S		2 7/8 x 1 7/8 x 2 15/16	Metal end bells
40 VA	120 Vac	AT140A1000		M	S	S		3 3/16 x 2 3/8 x 3 1/8	Metal end bells
		AT140B1206		F	L	L		1 11/16 x 3 1/2 x 1 3/4	Plastic end caps
		AT140A1018		M	S	S	B	3 3/16 x 2 3/8 x 3 1/8	Plastic end caps
		AT140B1214		F	L	L		1 11/16 x 3 1/2 x 1 3/4	Plastic end caps
50 VA	120/208/240 Vac	AT150A1007		M	L	L		1 11/16 x 3 3/16 x 1 3/4	Metal end bells
		AT150F1022	No	M	L	L		3 3/16 x 2 3/16 x 3 5/8	Button for resetting circuit breaker & metal end bells
50 VA	208/277/480 Vac	AT150F1030		M	L	L		3 3/16 x 2 3/16 x 3 5/8	Button for resetting circuit breaker & metal end bells
		AT150B1252		F	L, Q	L, Q	A	1 11/16 x 3 1/2 x 1 3/4	Plastic end caps
75 VA	208/277/480 Vac	AT175A1008		M	S	S		3 3/16 x 2 3/8 x 3 5/8	Button for resetting circuit breaker & metal end bells
		AT175F1023		M	L	L	B	3 3/16 x 2 3/16 x 3 15/16	Button for resetting circuit breaker & metal end bells
75 VA	208/277/480 Vac	AT175F1031		M	L	L		3 3/16 x 2 3/16 x 3 15/16	Button for resetting circuit breaker & metal end bells
		AT88A1005		F	F	L	A		Internally fused secondary for overload protection
	208/240 Vac	AT88A1021		F	F	L			
	480 Vac	AT88A1047		F	F	L			

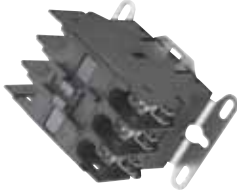
Frequency: A — 60 Hz/50 Hz; B — 60 Hz; C — 50 Hz  
 Mounting: F — Foot; P — Plate; M — Foot, Conduit, Plate (F models do not come with plate options)  
 Connections: L — Leadwires (Ø in. to 13 in.); Q — Quick Connects; S — Screw Terminals  
 Approval: UL, CSA

# Relays/Contactors/Transformers

## Contactors

Honeywell offers definite-purpose contactors for heating, cooling and refrigeration applications.

- Available in 1, 2, 3 and 4 pole configurations.
- Multiple input voltage range from 24/120/208/240 configurations.
- Available in 25, 30, 40, 50, 60, 75 and 90 Amp configurations.
- Meet ARI 780 and UL/CSA/CUR standards.
- Quick connects for coil termination.
- Hex screw and quick connects on units up to 30 A; lugs on units rated at 40 A and above.



## Fan Centers

For fan centers (relay and transformer combination), R8285 and R8239 NEMA rated units offer low-voltage control of line-voltage fan motors and auxiliary circuits in heating, cooling or air-conditioning systems.



Hex screw and quick connects on units up to 30 A; lugs on units rated at 40 A and above.

ECONOMY CONTACTORS										
Poles	Contact (AFL) 240, 277, 480/600 (600 Vac)	Contact Resistive 240, 277, 480/600 (600 Vac)	Coil Connections	Main Connections	Dimensions (in.) H x W x D	Product Number	Coil Connections	Cutler Hammer	Furnas	Mars
1 with shunt	30	48 A	CHS	CHS	2 7/82 x 2 1/2 x 3 5/16	DP108A1000	CHS	C25BNC19T	4E6G0AJ	91320, 17311
		48 A	CHS	CHS	3 1/4 x 3 5/8 x 3 7/8	DP230A1003	CHS	C25BNC230T	4E6G0AJ	61354, 17321
		40 A	CHS	CHS	2 7/32 x 3 5/16 x 2 5/32	DP230B1002	CHS	C25BNC30A	4E6G0AJ	61346, 17322
2		40 A	Q	Q	2 7/32 x 2 1/2 x 3 5/16	DP240C1001	Q	C25BNC30B	4E6G0AJ	61347, 17323
		24 Vac				DP240A1002		C25BNC24T	4E6G0AJ	61355, 17421
		120 Vac				DP240B1001		C25BNC24A	4E6G0AJ	61356, 17422
		208/240 Vac				DP240C1000		C25BNC24B	4E6G0AJ	61357, 17423
<b>POWERPRO CONTACTORS — ARI 780/780 RATED</b>										
1 with shunt	25	30 A	CHS	CHS	2 7/32 x 2 1/2 x 3 5/16	DP1025A5005	CHS	Not Available	4E6G10AJ	61315
		30 A	CHS	CHS	2 7/32 x 2 1/2 x 3 5/16	DP1030A5013	CHS	Not Available	4E6G10AJ	61316
		40 A	CHS	CHS	2 23/64 x 2 1/2 x 3 5/16	DP1040A5004	CHS	Not Available	4E6G10AJ	61330
		20	CHS	LC	2 7/32 x 2 1/2 x 3 5/16	DP220A5021	CHS	Not Available	4E6G20AJ	61310
		120 Vac				DP220B5028		Not Available	4E6G20AJ	61336, 14122
		24 Vac				DP230A5004		Not Available	4E6G20AJ	61345, 13104, 91321, 60510
		24 Vac				DP230A5012		Not Available	4E6G20AJ	61346, 13105
		120 Vac				DP230B5003		Not Available	4E6G20AJ	60031
		120 Vac				DP230B5011		Not Available	4E6G20AJ	61347, 13106, 60512, 60032
2		208/240 Vac	CHS	CHS	2 5/16 x 3 5/16 x 2 5/32	DP230C5002	CHS	Not Available	Not Available	6,051, 229, 323
		208/240 Vac				DP230C5010		Not Available	Not Available	60153
		277 Vac				DP230D5001		Not Available	Not Available	60153
		24 Vac				DP240A5003		C25DFE24T	4E6G30AJ	13107, 91421, 61355, 61755, 60525,
		120 Vac				DP240B5002		C25DFE24A	4E6G30AJ	13108, 91422, 61356, 61756,
		208/240 Vac				DP240C5001		C25DFE24B	4E6G30AJ	13109, 91423, 61357, 61757, 60527, 14423
		24 Vac				DP240A5005		C25DFE24C	4E6F30AJ	61430, 13113, 60515, 13007, 91331
		120 Vac				DP240B5002		C25DFE24D	4E6F30AJ	61431, 13114, 61352
		208/240 Vac				DP240C5001		C25DFE24E	4E6F30AJ	61432, 13115, 61353, 60517, 13009
		24 Vac				DP240A5002		C25DFE24F	4E6F30AJ	60530, 14425, 61435, 13013, 91451
		24 Vac				DP240B5001		C25DFE24G	4E6F30AJ	60532, 60182, 61442, 13015, 91433
		120 Vac				DP240C5001		C25DFE24H	4E6F30AJ	61460, 13615, 91531
3		60 A				DP265A3001		C25DFE30A	4E6F30AJ	61461
		120 Vac				DP265B3000		C25DFE30B	4E6F30AJ	60217, 60202, 61462, 13821, 91533
		120 Vac				DP265C3000		C25DFE30C	4E6F30AJ	61470, 13625, 91631
		120 Vac				DP265D3000		C25DFE30D	4E6F30AJ	61471
		120 Vac				DP265E3000		C25DFE30E	4E6F30AJ	60227, 60207, 61472, 13827, 91633
		24 Vac				DP267A4016		C25DFE30F	4E6F30AJ	60235, 61475, 13248, 91721
75		120 Vac				DP267B5015		C25DFE30G	4E6F30AJ	60237, 61476
		208/240 Vac				DP267C5014		C25DFE30H	4E6F30AJ	60245, 61477, 13245, 91723
		120 Vac				DP268B5006		C25DFE30I	4E6F30AJ	61481
90		208/240 Vac				DP268C5005		C25DFE30J	4E6F30AJ	60247, 61482, 13282
		24 Vac				DP240A5001		C25DFE40A	4E6F25AJ	61450, 13016
4		120 Vac				DP240B5000		C25DFE40B	4E6F25AJ	61451
		208/240 Vac				DP240C5000		C25DFE40C	4E6F25AJ	61452
<b>ELECTRIC HEAT CONTACTOR</b>										
2	30	24 Vac	Q, S	Q, S	2 3/16 x 2 5/16 x 3 5/16	R8246A1038	Q, S	TCS, O		

Connectors:	BHS — Bridge Head Screw; Q — Quick Connect; SS — Sems Screw; CHS — #10-32 Combination Head Screw; S — #6 Screw; TCS — Terminal Clamp Screw; LC — Lug Connector
Temp Rating:	-4 F to 148 F
Approvals:	UL, CSA ARI - 780; 600,000 cycle mechanical life; 200,000 cycle electrical life; 10,000 cycle recycle life

FAN CENTERS									
Electrical Ratings (VA)	Electrical Ratings (Input Voltage)	Switching	Product Number	NEMA Rated	Dimensions (in.) H x W x D	Main Connections	Secondary Connections	Frequency	Special Features
40 VA	120 Vac	DPDT	R8239B1043	Yes	4 1/2 x 4 3/16 x 3 3/32	L	L	A	Super Trideline™ Available only in Canada
		DPST	R8239D1007						Trideline
		DPST (1 Power, 1 Pilot)	R8239D1015						Trideline
50 VA	120/208/240 Vac	SPDT	R8239A1052						Super Trideline
40 VA	120 Vac	DPDT	R8239B1076						Trideline
		SPDT	R8239A1048						Trideline
50 VA	120/208/240 Vac	DPDT	R8239B1053	No	4 3/16 x 4 1/2 x 2 13/16				Trideline
		DPDT	R8239D5001						Trideline
Frequency:	A — 60 Hz/50 Hz; B — 60 Hz								
Approvals:	UL, CSA								
Temp Rating:	-20 F to +105 F								
Connectors:	L — Leadwires								
Mounting:	Standard 4 x 4 in. Junction box								
	* Super Trideline models include extra hardware.								

## Defrost Controller

Choose the ST74 low-voltage time/temperature defrost controller for heat pumps.

- Resets the defrost cycle by remote contact closure.
- Mounts in outdoor section of heat pump.
- Utilizes special moisture barrier to protect circuitry.



DEFROST CONTROLLER		
Operation	Time On	Time Off — Selectable
Remote Contact Closure	10 min.	50/70/90 min.
		Product Number ST74A1053

## Auxiliary Switches

Honeywell Auxiliary Switches work Honeywell models of 3-pole contactors.

AUXILIARY SWITCHES					
Product Number	Circuits	Configuration	Dimensions (in.) H x W x D	Contact Ratings (Resistive)	Use With
DP3AUX-1NO	1	Normally Open snap-on		Maximum (Inrush) Current at 120/240/480/600 V	
DP3AUX-1NC	1	Normally Closed snap-on			
DP3AUX-1NO-1NC	2	Normally Closed/Normally Open snap-on	2 26/32 x 2 1/32 x 7/16	10 A	DP3030 — DP3090 Contactors
DP3AUX-2NO		Normally Open snap-on		60/30/15/12 Amps	
DP3AUX-2NC		Normally Closed snap-on			



**Learn More**

Call toll-free 1-800-328-5111,  
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visit [customer.honeywell.com](http://customer.honeywell.com).

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