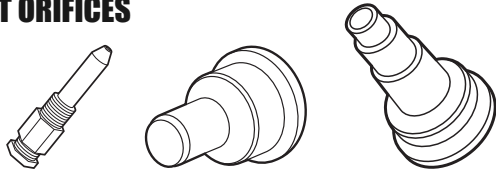


Heating Components

Compressors, Chillers, Condensers
 Motors
 Electrical
 Heating Components
 Indoor Air Quality
 Thermostats
 Oils & Chemicals
 Accessories, Supplies & Commodities
 Tools & Instruments
 Refrigeration

PILOT ORIFICES



White-Rodgers used with "E" series pilots

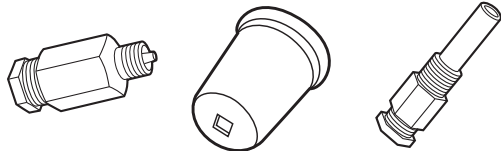
PART NO	ORIFICE SIZE	PART MARKING	TYPE GAS
LH39WD010	0.01	10U	LP
LH39WD012	0.012	12U	LP
LH39WD018	0.018	18U	NAT
LH39WD020	0.02	20U	NAT

BDP used with 732, 733, 734 and 740 pilots

PART NO	ORIFICE SIZE	PART MARKING	TYPE GAS
LH39JN001	0.017	BRIGHT	NAT

Honeywell used with Q308, Q314, Q345 pilots

PART NO	ORIFICE SIZE	PART MARKING	TYPE GAS
LH32RMO15	0.01	BLACK	LP
LH32RMO16	0.018	BRIGHT	NAT
LH32AN012	0.012	BBR12	LP
LH32AN014	0.014	BBR14	NAT



General controls used with 26T pilots

PART NO	ORIFICE SIZE	PART MARKING	TYPE GAS
LH32DB001	0.01	0.01	LP

Robertshaw used with 2CH pilots

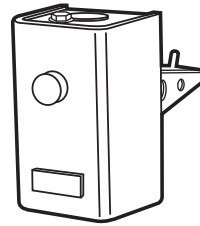
PART NO	ORIFICE SIZE	PART MARKING	TYPE GAS
LH32DB002	0.01	LP10	LP

Penn used with "J" series pilots

PART NO	ORIFICE SIZE	PART MARKING	TYPE GAS	DIM (in)
LH32RN109	0.009	4209	LP	39/64
LH32RN009	0.009	4709	LP	1-1/32
LH39GB011	0.011	4711	LP	1-9/64
LH39GB019	0.018	7218	NAT	39/64
LH39GB022	0.023	3723	NAT	39/64

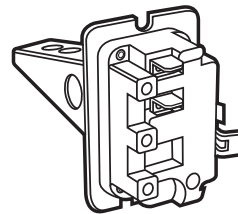
FAN, LIMIT CONTROLS

LIMIT CONTROLS



- Manual reset
- For line or low voltage circuit
- Differential limit 25° F
- Non-adjustable settings
- Element length: 3"

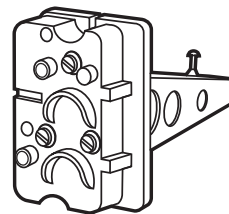
PART NO	SWITCH TYPE	TEMP SETTINGS (F)	
		OPENS	CLOSES
HH12AD204	SPST	200	175



- Temp setting: adj. 160° - 250°F (HH127ZA008) (HH680400)
- adj. 150° - 250°F (HH12ZA011)(HH680405)
- Differential: 30° F
- Switch: SPST

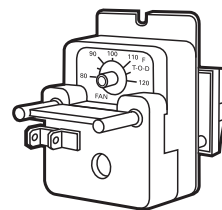
PART NO	ELEMENT LENGTH (in)
HH12ZA008	3-3/8
HH680400	3
HH680405	7-3/8
HH680405	7

FAN CONTROLS



- Knurled shafts for adjustment of temperature setting and differential
- Slotted for two screw mounting
- Switch type: SPST
- Temp setting: fan off – adj. 80° F - 120° F
- Fan differential: adj. 20° F - 50° F

PART NO	ELEMENT LENGTH (in)
HH12AB140	7
HH12AB141	3



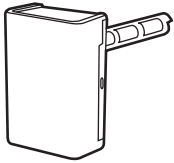
- Quick connect terminals
- 24-volt fan assist heater
- Tube construction for strength
- Slotted for 2 screw mounting
- Switch type: SPST
- Adjustable fan settings
- Temp. Setting: fan off – adj. 80° F - 120° F
- Fan differential: 30° F

PART NO	ELEMENT LENGTH (in)
HH12HA070	1-1/4

Heating Components

FAN, LIMIT CONTROLS

TOTALINE® COMBINATION FAN, LIMIT CONTROLS



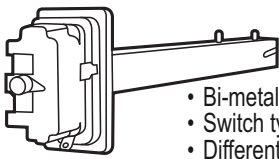
- Manual fan switch
- Individual fan and limit switches
- Helical bi-metal for precise setting
- SPST switch
- Adjustable settings
- Differential: limit - 25°F

• Temperature setting:

Fan off/on - ADJ. 90°F-135°F (P232-0001,0002)
 - ADJ. 90°F-130°F (P232-0003)

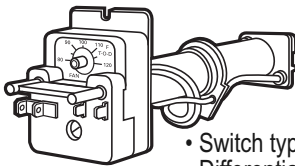
Limit Opens - ADJ. 100°F-250°F (P232-0001,0002)
 - ADJ. 100°F-220°F (P232-0003)

P/N	ELEMENT LENGTH (in.)
P232-0001	8
P232-0002	5
P232-0003	11.5



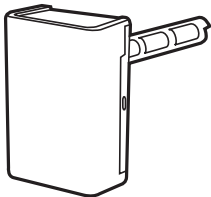
- With fan assist heater to prevent nuisance fan starting
- Individual sensing elements
- Bi-metal actuated
- Switch type: SPST
- Differential: fan - 80° F, except HH12KA250 which is 50° F limit - 30° F
- Element length: 7" (except HH12ZW125 which is 5")
- Temp setting: fan off -ADJ. 90° F-120° F

P/N	TEMP. SETTING LIMIT OPENS (°F)	SETTINGS ADJUSTABLE
HH12KA250	250	FAN
HH12KD020	190	FAN
HH12KD021*	150-250 ADJ	FAN, LIMIT
HH12KD022*	150-250 ADJ	FAN, LIMIT
HH12KD023	220	FAN
HH12KD024	125	FAN
HH12KD025	170	FAN
HH12ZW125	125	FAN



- Slotted for 2 screw mounting
- Rigid tube construction
- 24 volt fan assist heater
- Quick connect electrical terminals
- Switch type: SPST
- Differential: fan - 35°F; limit - 40° F
- Temp setting: fan off - ADJ. 80° F - 120° F

P/N	TEMP. SETTING LIMIT OPENS (°F)	SETTINGS ADJUSTABLE
HH680505	259	5/3/2004



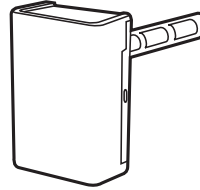
- Individual fan and limit switches
- Helical bi-metal for precise setting
- SPST switch
- Adjustable settings
- Differential: limit -25°
- Temperature setting:
 Fan on - 20 to 90 seconds after fan assist heater energized (HH12AT016)
 Fan off - ADJ. 100° F
 Limit opens - ADJ. 150° F-250° F

P/N	ELEMENT LENGTH (in.)
HH12AT005	5
HH12AT008	8
HH12AT015	11.5
HH12AT016	8

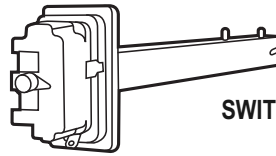
- Temperature setting:
 Fan off/on -ADJ. 90°F-135°F(HH12AT005,008)
 -ADJ. 90°F-130°F (HH12AT015)
 Limit opens -ADJ. 100°F-250°F (H12AT005,008)
 -ADJ. 100°F-220°F (HH12AT015)

P/N P232-L4064B Fan and limit control

- Fast response bimetal element with larger surface area allows faster rotation during temperature change response.
- Faster temperature change recognition for safer operation.
- Wider opening steel surrounding bimetal element allows hot gas penetration for faster temperature sensing and improved temperature tracking.

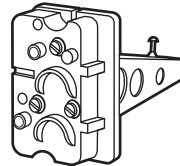


TOTALINE PART NUMBER	HONEYWELL PART NUMBER	DESCRIPTION
P232-L4064B-11	L4064B2210	Fan & Limit 11-1/2"
P232-L4064B-8	L4064B2228	Fan & Limit, 8"
P232-L4064B-5	L4064B2236	Fan & Limit, 5"



SWITCH - COMBINATION FAN AND LIMIT

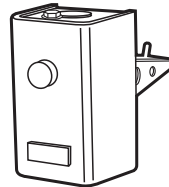
P/N	ELEMENT Length (in.)	SWITCH CLOSSES ADJ FAN RANGE (F)	SWITCH OPENS ADJ FAN RANGE (F)	SWITCH CLOSSES ADJ FAN RANGE (F)	SWITCH OPENS ADJ FAN RANGE (F)
HH680501	6	90-120	75 FIXED	230 FIXED	30 FIXED
HH680502	7	90-120	35 FIXED	200 FIXED	30 FIXED
HH680504	7	90-120	75 FIXED	240 FIXED	30 FIXED
HH680506	7	90-120	50 FIXED	150-250	30 FIXED



FAN SWITCH - INSERTION TYPE

- Knurled shafts for adjustment of temperature setting and differential
- Slotted for two screw mounting.

P/N	ELEMENT LENGTH (in.)	SWITCH CLOSSES ADJUSTABLE FAN RANGE (°F)	SWITCH OPENS ADJUSTABLE FAN RANGE (°F)	SWITCH TYPE
L4068E1047	3	80-120	25 FIXED	SPST
HH680201	3	70-140	25-45	SPST
HH680203	3	80-120	65 FIXED	SPST
HH680204	7	70-140	25-45	SPST
HH680205	7	80-110	65 FIXED	SPDT



FAN LIMIT SWITCH - INSERTION TYPE

P/N	ELEMENT LENGTH (in.)	SWITCH CLOSSES ADJUSTABLE FAN RANGE (°F)	SWITCH OPENS ADJUSTABLE FAN RANGE (°F)	SWITCH TYPE
HH680401	7	180 FIXED	10 FIXED	SPDT
HH680402	7	190 FIXED	30 FIXED	SPDT
HH680403	7	200 FIXED	30 FIXED	SPDT
HH680404	7	210 FIXED	30 FIXED	SPDT
HH11KT165	7	165 FIXED	30 FIXED	SPDT
HH12ZB178	7	180 FIXED	40 FIXED	SPST
HH12ZA162	3	160 FIXED	30 FIXED	SPST
HH12ZA169	7	170 FIXED	40 FIXED	SPST

Compressors, Chillers, Condensers

Motors

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