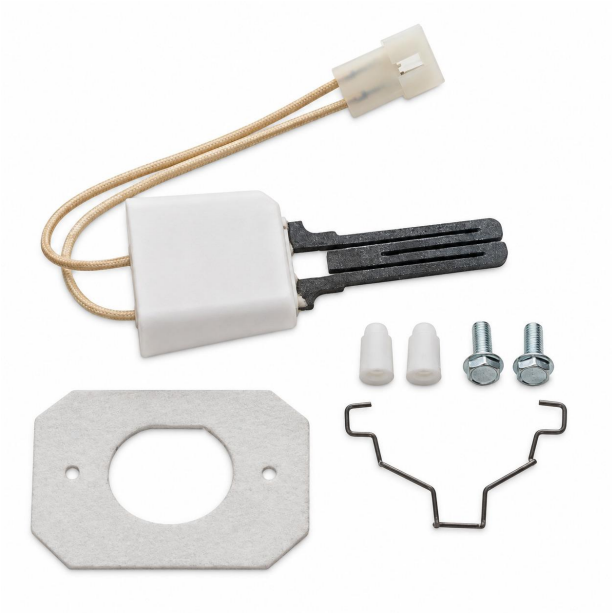
ADCERAX
ADVANCED CERAMICS

FURNACE & HVAC / PRODUCT CATALOG

Silicon Carbide Furnace Igniters

Configurations and customization for replacement and OEM projects



Featured configuration: flat element with ceramic base, leads and separate mounting components.

Find the configuration that fits your furnace project. Compare seven pictured constructions, define the dimensions that matter and prepare a focused request for quotation.

ADCERAX | HUNAN ATCERA CO.,LTD

China-based advanced ceramic manufacturer • Drawing- and sample-based review

Selection and RFQ guide. Dimensions, electrical ratings and supply scope are confirmed for the quoted configuration.

01 / CONFIGURATIONS

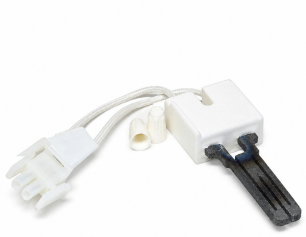
Choose a familiar construction

Start with the shape of your existing igniter or the layout of your new furnace. These photos show different bases, element forms and connection arrangements for project review.

01 Plug-connected flat igniter

A flat, slotted element extends from a shaped ceramic base, with flexible leads and a plug connector.

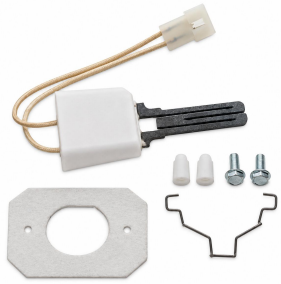
Compare: Base outline, element projection and connector keying.



02 Offset-base plug assembly

The stepped ceramic body changes the relationship between the seated base and the element exit.

Compare: Mounting face, base step and position of the exposed element.



03 Clip-and-gasket configuration

A flat-element assembly is pictured with a plug, separate mounting clip, gasket and fasteners.

Compare: Base fit, clip position and the components required in your supply scope.

04 Bracket-and-plug configuration

A shaped ceramic base and flat element are pictured with a separate wide bracket and plug-connected leads.

Compare: Bracket outline, fixing pattern and installed element orientation.

Photo references 01–07 identify pictured configurations, not orderable part numbers. Confirm the exact drawing and component list with your quotation.

01 / CONFIGURATIONS

More ways to match your part

05 Cylindrical element with holder

A grooved cylindrical element is pictured with a ceramic collar, metal holder, leads and separate connection or mounting parts.

Compare: Element diameter, holder diameter, axial projection and bracket location.

06 Ceramic-base plug assembly

A flat element and rectangular ceramic base are shown with extended looped leads and a plug connector.

Compare: Base dimensions, usable lead length, routing and connector position.

07 Bracket-option configuration

A ceramic-base igniter is pictured alongside several bracket shapes for equipment-specific review.

Compare: Required bracket drawing, hole pattern and mounting datum.

Have a different base or element profile?

Send a drawing or clear photos of the complete part, including the base, element and connector. A similar appearance is a useful starting point; electrical requirements and installed position must also be checked.

IF YOU HAVE…	START WITH…
An existing replacement part	Its part reference, furnace model, photos and known electrical data.
A new OEM design	The assembly drawing, controller requirements and intended burner position.

Photos illustrate visible construction only. They do not establish universal interchangeability or a specific OEM cross-reference.

02 / APPLICATIONS & CUSTOMIZATION

Built around your furnace project

Use this range for equipment-specific replacement or OEM review in gas-fired furnace and HVAC systems that use a compatible hot surface ignition control.

APPLICATION	WHAT DEFINES THE REQUIRED IGNITER
Residential warm-air furnaces	The original part reference, burner layout, control sequence and available mounting space.
Commercial warm-air furnaces	The burner arrangement, igniter orientation, service access and connection route.
Rooftop HVAC gas-heating sections	The heating-section model, mounting interface, lead routing and operating environment.

Customize the details that affect fit

01 Element and ceramic-base geometry

Define the rigid envelope, exposed element length and base interface around your available space. Use a drawing to identify the seating face, critical dimensions and the required position beside the burner.

02 Electrical requirements for your control

Provide the specified operating voltage, current or power limits, resistance test conditions and ignition sequence. These requirements guide the configuration review alongside the mechanical drawing.

03 Lead length and connections

Specify the usable lead length, routing, connector or terminal reference and any relevant temperature requirements. This makes the connection arrangement part of the agreed assembly definition.

A clear reference for repeat orders

Record the agreed drawing revision, electrical requirements and component list. Use the same reference for sample approval and subsequent purchasing, with proposed changes identified before ordering.

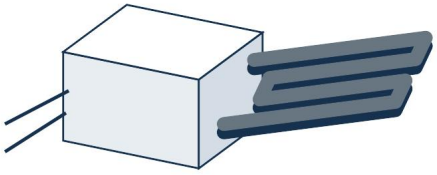
Customization is reviewed against your drawing and application. Feasibility and the final supply scope are confirmed in the quotation.

03 / DRAWING INPUTS

Flat-element assembly

Use this envelope key for configurations with a flat element. Send your actual base profile and mounting details as a drawing; the four dimensions below do not fully define an interchangeable replacement.

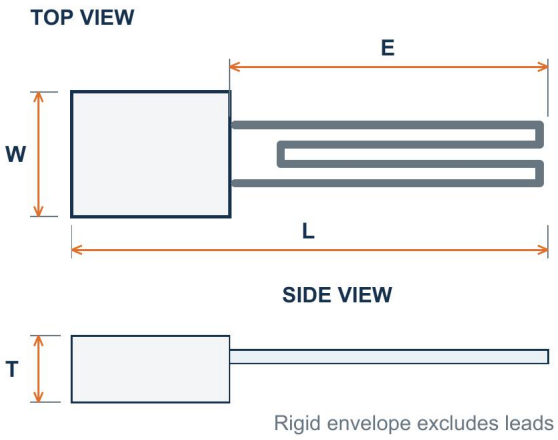
ASSEMBLY RECOGNITION



Flat slotted element and ceramic base

Leads shown shortened

GOVERNING ENVELOPE VIEWS



Rigid envelope excludes leads

Conceptual envelope key • Not to scale • Exact base, slot and element profiles are drawing-controlled.

KEY	RFQ INPUT — STATE mm OR in	REFERENCE
L	Overall rigid length	Rear of rigid base to element tip; exclude flexible leads.
E	Exposed element length	Base exit face to element tip; this is not the active-zone reach.
W	Maximum rigid width	Maximum transverse width shown in the governing view.
T	Maximum rigid thickness	Maximum rigid thickness shown in the side view.

Add the details that make the part fit

Include the element width and thickness, ceramic-base outline, seating face, notches and fixing features. Mark the dimensions and tolerances that control installation, rather than relying on the overall envelope alone.

Keep lead dimensions separate

Measure lead length from the agreed exit point to the specified termination reference. Identify the connector housing, terminal arrangement and required orientation with a photo or part reference.

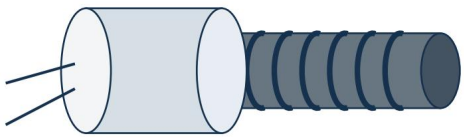
All entries are customer-specified inputs, not published size limits. Use the installed-position checks on page 7 to locate the ignition zone.

03 / DRAWING INPUTS

Cylindrical-element assembly

For cylindrical constructions, distinguish the element diameter from the holder diameter. Define the collar, holder and bracket interfaces in the accompanying drawing.

3D BODY RECOGNITION

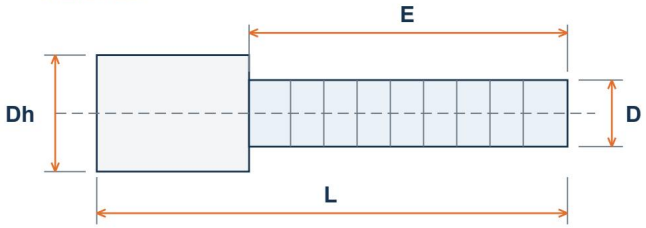


Cylindrical element and holder

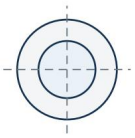
Separate bracket and leads excluded

GOVERNING ENVELOPE VIEWS

SIDE VIEW



AXIAL END VIEW



Outer diameters

Profile by drawing

Conceptual envelope key • Not to scale • Grooves, collar details and mounting features follow the actual drawing.

KEY	RFQ INPUT — STATE mm OR in	REFERENCE
L	Overall rigid axial length	Rear of rigid holder to element tip; exclude leads and separate bracket.
E	Exposed element length	Defined holder front reference to element tip.
D	Maximum element diameter	Outside envelope of the cylindrical element.
Dh	Holder outside diameter	Outside envelope of the rigid holder shown in the key.

Define the holder and mounting interface

Provide the holder profile, ceramic collar geometry and bracket fixing pattern. Identify any locating shoulder or seating surface that establishes the installed position.

Show the element profile clearly

Use a drawing or detailed photo to identify the cylindrical element and its external features. State critical profile dimensions and tolerances on the drawing; do not derive them from this illustration.

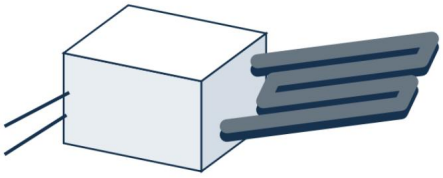
All entries are customer-specified inputs. Match the mounting datum and active-zone reference separately; an axial length alone does not establish furnace fit.

04 / SYSTEM FIT

Locate the ignition zone

Compare the mounting reference and element position in the furnace, then review the electrical requirements against the same assembly definition.

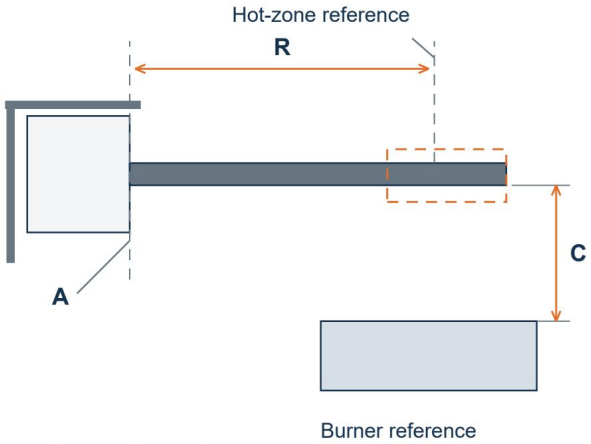
ASSEMBLY RECOGNITION



Flat slotted element and ceramic base

Leads shown shortened

INSTALLED SIDE REFERENCE



Conceptual relationship - not to scale

Conceptual relationship only • Not to scale • Use the approved furnace drawing for position and clearance.

KEY	WHAT TO PROVIDE
A / Mounting datum	Identify the actual seating face, bracket orientation and fixing pattern.
R / Active-zone reach	State the required reach from A to the specified ignition-zone reference; use mm or in.
C / Installed clearance	State the required gap to the burner and nearby metalwork; use mm or in.

Electrical requirements to include

INPUT	REFERENCE TO SEND
Supply and load	Voltage at the igniter terminals (V), supply type/frequency (Hz), and current (A) or power (W) limits.
Resistance test	Required range (Ω), measurement temperature (°C) and test method, if specified.
Ignition control	Controller reference, heating target and time (s), initial/retry sequence and any sensing requirement.
Operating conditions	Specified ambient conditions, airflow and cycling requirements for your evaluation.

Identify unknown values as unknown. Do not select a replacement from dimensions or a resistance reading alone; use the equipment requirements for final approval.

05 / SAMPLES & PURCHASING

Agree the part before repeat supply

Use the same drawing, component list and acceptance criteria from initial review through sample evaluation and repeat orders. This gives both sides a clear reference for the quoted part.

AGREE BEFORE SAMPLE REVIEW	RECORD FOR ACCEPTANCE
Geometry and installed fit	Drawing revision, critical dimensions, mounting datum and position checks. If the assembly seals the burner box, include the gasket interface and sealing/assembly requirements.
Electrical requirements	Rated requirements and test conditions, including the defined resistance check.
System evaluation	Your controller sequence and furnace evaluation requirements.
Delivery condition	Lead protection, packaging, identification and any requested inspection records.

Can I start with an old part or photos?

Yes. Send an available part reference, clear photos and the furnace model. Include the mounting position and connector. Missing information can be identified during review; a photo alone does not confirm compatibility.

Can brackets, clips, gaskets and fasteners be included?

Specify the components you need with the igniter and provide their drawings or references where available. Confirm each item in the quotation and component list; accessories pictured in this catalog are not automatically included.

Can I request samples before a production order?

Ask for a sample plan with your drawing, required quantity and acceptance criteria. Sample availability, preparation requirements, price and timing are confirmed for the project.

What are the minimum order quantity and lead time?

Send your sample or production quantity, expected repeat demand, delivery destination and target date. MOQ, pricing and lead time are confirmed in the quotation for the agreed configuration.

For repeat orders, reference the approved drawing revision and notify ADCERAX of any furnace, control or component changes before reordering.

06 / REQUEST A QUOTE

Send the part you need to match

Start with the information you have. A drawing or clear old-part photo can begin the review; the final specification is agreed as the missing details are resolved.

REPLACEMENT PROJECT	NEW OEM PROJECT
Existing part number and furnace model Photos of the part, base and connector Mounting-position photo or drawing Known electrical requirements	Assembly drawing and revision Required element and base geometry Controller and ignition sequence Installed position and space limits

Include these details with either route

ITEM	WHAT TO SEND
Dimensions	Flat or cylindrical inputs from pages 5–6, plus critical tolerances and mounting details.
Electrical and system fit	Operating requirements and the A/R/C references on page 7; identify any unknowns.
Connection and supply scope	Lead length, connector reference and any separately required mounting components.
Acceptance	Sample evaluation criteria, requested documentation and packaging needs.
Quantity and schedule	Sample and production quantities, destination, target delivery date and repeat demand.

Ask for a quotation against a defined scope

Identify the requested configuration and supplied components, drawing revision, sample or production quantity, packaging and delivery requirements. This makes the quotation easier to compare and the next step clearer.

Discuss your furnace igniter project

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View the furnace igniter product page

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Final dimensions, electrical requirements, component scope and commercial terms follow the agreed quotation and drawing.