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PRODUCT DESCRIPTION

Typical MAXON quality and reliability is found in the M-PAKT® Ultra Low NOx Burners, which provide the world's lowest levels of NOx and CO. NOx is typically single digits in most applications. The M-PAKT® low NOx burner is suitable for industrial air heating for ovens and dryers for paint finishing, paper making, food baking, textile production, grain drying, and make-up air heating. M-PAKT® burners substantially reduce emissions in oxidizers, incinerators, heat exchangers and process heaters.

FEATURES AND BENEFITS

- Produces extremely low emissions of NOx and CO
- Burns natural gas or propane
- Flame contained almost entirely inside the discharge sleeve
- Compact packaged design with a variety of control methods
- Durable steel outer construction with stainless steel internals

TYPICAL EMISSIONS

The M-PAKT® Ultra Low Emissions Burner produces NOx and CO emissions up to 95% less than conventional burners. Without exotic alloys or fragile ceramics, the burner reduces NOx with a patented, advanced flame stabilization. The M-PAKT® burner's advanced anchoring of the flame reduces prompt NOx while thermal NOx is suppressed with an extremely uniform mixture.

In application, the M-PAKT® Ultra Low Emissions Burner produces single digit NOx corrected to 3% oxygen. In most installations, CO production is limited to extremely low levels. Exact emissions performance may vary in your application. Contact MAXON for information on installation specific estimates or guarantees. No guarantee of emissions is intended or implied without specific written guarantee from MAXON.

Factors that can affect emissions:
- Process air direction, temperature and velocity
- Process stream constituents, especially nitrogen bearing compounds
- Combustion air quality, relative humidity and filtration
- Burner location and installation
- Fuel quality and heating value
- Emissions instrument calibration and testing protocol

Application example of M-PAKT® gas burner

1) M-PAKT® Ultra Low NOx Burner
2) Pipe train constructed for required codes and authorities
3) MAXON Shut-off Valves
4) Combustion air blower
5) System control panel

A typical air heater incorporating M-PAKT burners
MODEL NUMBERS

A coded model number is provided on the nameplate of all M-PAKT® Burners to provide an instantaneous method to identify the configuration of the product. This model number ensures accuracy in identifying your product, ordering replacement parts or communicating capabilities.

<table>
<thead>
<tr>
<th>Special (S if special, blank if not)</th>
<th>Burner type</th>
<th>Size</th>
<th>Blower</th>
<th>Discharge sleeve</th>
<th>Mechanical gas control</th>
<th>Switches</th>
<th>Filter/silencer</th>
<th>Future options</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>MPB</td>
<td>1</td>
<td>1</td>
<td>R</td>
<td>S</td>
<td>F</td>
<td>N</td>
<td>AAA</td>
</tr>
</tbody>
</table>

**Burner type**  
MPB - M-PAKT® burner

**Blower**
- 1 - 240/3/50
- 2 - 575/3/60
- 3 - 110/1/60
- 4 - None

**Discharge sleeve**
- R - RA330 stainless steel

**Mechanical gas control**
- C - Honeywell ControLinks
- S - SMARTLINK MRV
- E - External control (EB only)

**Switches**
- F - None

**Filter/silencer**
- F - Filter only
- S - Filter/silencer
- N - None
### SPECIFICATIONS OF M-PAKT® BURNERS

#### Typical burner data

**Fuel:** natural gas at 15°C with 10.9 kWh/Nm³ HHV - sg = 0.6 [1]

**Combustion air:** 15°C - 21% O₂ - 50% humidity - sg = 1.0 [1]

Stated pressures are indicative. Actual pressures are a function of air humidity, altitude, type of fuel and gas quality.

#### Packaged Burners

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<tr>
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<tbody>
<tr>
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<td>kW 120</td>
<td>20</td>
<td>5.9:1</td>
<td>6 - 23</td>
<td>6 - 23</td>
<td>22</td>
<td>197</td>
<td>86.1</td>
<td>1.5</td>
<td>82</td>
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<td>7.1:1</td>
<td>6 - 23</td>
<td>6 - 23</td>
<td>22</td>
<td>433</td>
<td>86.3</td>
<td>1.5</td>
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<td>82.0</td>
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<td>6 - 23</td>
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<td>770</td>
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<td>7:1</td>
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<td>1203</td>
<td>89.3</td>
<td>3</td>
<td>89.5</td>
<td>89.5</td>
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<tr>
<td>3.0M</td>
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<td>7.4:1</td>
<td>6 - 23</td>
<td>6 - 23</td>
<td>26</td>
<td>1685</td>
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<td>3</td>
<td>89.5</td>
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</tr>
</tbody>
</table>

[1] sg (specific gravity) = relative density to air (density air = 1.293 kg/Nm³)

[2] Sound pressure level, Lp, measured at 1 meter from the burner


[4] Capacity displayed assumes blower operation on 60Hz electrical supply. Gross output will be reduced by 17% if operated on 50Hz. Fuel and air pressures should be reduced by 30% while motorpower will reduce 40% with 50Hz operation.

[5] Air differential pressure measured between chamber pressure test port and burner air test connection.

[6] Allow at least 10% more pressure at air valve inlet.

Contact MAXON for operating pressures for burners produced prior to May 2007.

#### External Blower Burners

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<thead>
<tr>
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<td>EB2</td>
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<td>21</td>
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<td>6 - 23</td>
<td>30</td>
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<td>82</td>
<td>82.0</td>
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<td>74</td>
<td>1300</td>
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<td>81</td>
<td>82.0</td>
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<td>EB5</td>
<td>kW 1320</td>
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<td>6 - 23</td>
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<td>11</td>
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<td>82.0</td>
</tr>
</tbody>
</table>

[1] sg (specific gravity) = relative density to air (density air = 1.293 kg/Nm³)


[4] Air differential pressure measured between chamber pressure test port and burner air test connection.

[5] Capacity displayed assumes blower operation on 60Hz electrical supply. Gross output will be reduced by 17% if operated on 50Hz. Fuel and air pressures should be reduced by 30% while motorpower will reduce 40% with 50Hz operation.

[6] Allow at least 10% more pressure at air valve inlet.

Contact MAXON for operating pressures for burners produced prior to May 2007.
MATERIALS OF CONSTRUCTION

The M-PAKT Ultra Low NOx burner is constructed from durable, industrial steel and stainless steel components.

<table>
<thead>
<tr>
<th>Burner Part</th>
<th>Material</th>
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<tbody>
<tr>
<td>Housing</td>
<td>1010 steel</td>
</tr>
<tr>
<td>Gas nozzle</td>
<td>304 stainless steel (1.4301)</td>
</tr>
<tr>
<td>Cone</td>
<td>330 stainless steel (1.4333)</td>
</tr>
<tr>
<td>Discharge sleeve</td>
<td>330 stainless steel (1.4333)</td>
</tr>
<tr>
<td>Impeller</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Fan case</td>
<td>Steel</td>
</tr>
</tbody>
</table>

SELECTION CRITERIA

M-PAKT burner versions

M-PAKT Ultra Low NOx Burners are available as packaged burners with integral blower and fuel/air ratio control valves.

M-PAKT may also be ordered as an EB model for use with a remote blower. EB M-PAKT burners also include required fuel/air ratio control valves.

Application details

M-PAKT Ultra Low NOx burner is suitable for use in industrial air heating, drying, baking and curing applications. The burner produces extremely low levels of NOx and CO for air quality compliance and end product sensitivities.

Process temperature

The M-PAKT may be used in applications up to 538°C. Consult page 1-1.7-15 for guidance on selecting proper burner configurations.

Process flows and oxygen content

M-PAKT burners may be applied in inert process streams as the burner supplies all the required air for combustion and the flame is fully contained in its discharge sleeve.

Process flows up to 12 m/s are allowed perpendicular to the discharge sleeve although this will affect emissions performance. For best emissions performance, limit the flow velocity at the burner’s discharge to < 5 m/s. Protection plates or secondary sleeves are acceptable to limit the cross velocity.

Process back pressure

Packaged burner models with integral fan may be applied to applications with pressures between -10 mbar and +5 mbar.

EB models may be used for extended capacities or for higher application pressures. Consult MAXON for assistance with high back pressure applications.

Piloting and ignition

Ignition of M-PAKT burners should be restricted to the pilot. While direct ignition may be possible, it is not recommended.

The M-PAKT burner is provided with an independent pilot burner. The pilot should only be operated as interrupted or intermittent. Standing pilots are not permitted as the flame scanner will not distinguish between the pilot and main flame.

In low oxygen or high moisture applications, an air feed for the pilot may be used. Consult pages 1-1.7-8 to 1-1.7-12 for location and size of pilot air connections. Pilot air is not required in most applications.

Ratio control

For greater assurance of optimal emissions or for less stable application pressures, MAXON suggests the use of parallel positioning actuator systems. MAXON’s SMARTLINK MRV and Honeywell ControlLinks™ provide high resolution control of the air and fuel valve for absolute control of air fuel ratio. The external control option allows the M-PAKT burner to be used with an external air/fuel ratio control system such as SMARTFIRE®.

Unlike inferior pressure regulators, high resolution parallel positioning provides absolute control even during transient conditions. This type of absolute control has proven to optimize efficiency while minimizing emissions of industrial burners.

M-PAKT is not recommended for use with hi/lo or on/off control schemes.

Combustion air control and piping

Do not rotate combustion air blowers on packaged M-PAKT burners. EB M-PAKT burners require combustion air to enter the burner parallel to the burner’s long axis.

Fuels

M-PAKT burners provide low NOx performance on natural gas and propane only. Other clean fuel gases may be used in the burner, but performance and emissions may change.

Expected emissions

In typical applications with specified excess air, the M-PAKT Ultra Low NOx burner will produce only 5% to 10% of the NOx of conventional burners. CO is controlled to extremely low levels but varies according to the specific application parameters of each installation.

Flame development

The flame of the M-PAKT is entirely contained within the discharge sleeve of the burner making the effective flame length zero. Avoid locating the discharge of the burner close to walls, equipment or product as the exiting gases may be 1500°C or higher.
Discharge sleeve recommendations

<table>
<thead>
<tr>
<th>Desired Excess Air Adjustment</th>
<th>Application Temperature</th>
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<td>&lt; 530°C</td>
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<tr>
<td></td>
<td>530°C - 760°C</td>
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<tr>
<td>55 - 70%</td>
<td>OK</td>
</tr>
<tr>
<td>40 - 55%</td>
<td>OK</td>
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</tbody>
</table>

Filter/silencer
Optional round or square filter/silencer assemblies are available. Burner sound levels with and without silencer can be found in table on page 1-1.7-5. For dimensions, refer to pages 1-1.7-8 through 12.
DIMENSIONS

0.4M & 0.9M Packaged Burners - gas control method “S”

1) 1/8” NPT combustion air pressure test port
2) Observation port
3) Gas pressure test port
4) 1/4” NPT pilot gas inlet
5) Air pressure switch connection
6) Chamber pressure test port
7) Spark ignitor
8) Flame scanner connection 1” NPT-F
9) Gas inlet 0.4M - 1/2” NPT (F) 0.9M - 3/4” NPT (F)

Dimensions in mm unless stated otherwise

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G slot</th>
<th>H square</th>
<th>I Ø</th>
<th>J Ø</th>
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<tr>
<td>1020</td>
<td>318</td>
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<td>592</td>
<td>45°</td>
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<td>393</td>
<td>514</td>
<td>444</td>
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Dimensions in mm unless stated otherwise

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<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
<th>P Ø</th>
<th>Q</th>
<th>S</th>
<th>T</th>
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<td>1325</td>
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<td>683</td>
<td>82</td>
<td>417</td>
<td>264</td>
<td>117</td>
<td>711</td>
<td>622</td>
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</tbody>
</table>
1.5M, 2.5M and 3.0M Packaged Burners – gas control method “S”

1) Chamber pressure test port
2) Air pressure switch connection
3) Gas pressure test port
4) Observation port
5) Combustion air pressure test port
6) 1/4” NPT pilot gas inlet
7) 1” NPT-F flame scanner connection
8) 1/2” NPT pilot air inlet (if required)
9) Spark ignitor
10) Gas inlet 1.5M - 1” NPT (F) 2.5M - 1-1/4” NPT (F) 3.0M - 1-1/2” NPT (F)

Dimensions in mm unless stated otherwise

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C Ø</th>
<th>D</th>
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<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L Ø</th>
<th>M Ø</th>
<th>N Ø</th>
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<td>294</td>
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<td>635</td>
<td>673</td>
<td>366</td>
<td>756</td>
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EB2 and EB3 (External Blower) Burners – gas control method “S”

1) 1/8” NPT combustion air pressure test port
2) 1/4” NPT pilot gas inlet
3) Gas pressure test port
4) Observation port
5) Air pressure switch connection
6) Spark ignitor
7) 1” NPT-F flame scanner connection
8) Chamber pressure test port
9) Gas inlet
  EB2 - 1/2” NPT (F)  EB3 - 3/4” NPT (F)

Dimensions in mm unless stated otherwise

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<th>G slot</th>
<th>H Ø</th>
<th>I Ø</th>
<th>J</th>
<th>K Ø</th>
<th>L</th>
<th>M</th>
<th>N Ø</th>
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Dimensions in mm unless otherwise stated

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<th>Y</th>
<th>Z</th>
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EB4, EB5, & EB6 (External Blower) Burners – gas control method “S”

1) Air pressure switch connection
2) Chamber pressure test port
3) Gas pressure test port
4) Observation port
5) Combustion air pressure test port
6) 1/4” NPT pilot gas inlet
7) 1” NPT-F flame scanner connection
8) 1/2” NPT pilot air inlet (if required)
9) Spark ignitor
10) Gas inlet EB4 - 1” NPT (F) EB5 - 1-1/4” NPT (F) EB6 - 1-1/2” NPT (F)

Dimensions in mm unless stated otherwise

<table>
<thead>
<tr>
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<th>C</th>
<th>D Ø</th>
<th>E Ø</th>
<th>F</th>
<th>G</th>
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<th>I</th>
<th>J</th>
<th>K</th>
<th>L Ø</th>
<th>M Ø</th>
<th>N Ø</th>
<th>O</th>
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<td>4</td>
<td>463</td>
<td>673</td>
<td>635</td>
<td>14</td>
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Dimensions in mm unless stated otherwise

| P  | Q | R | S | T | U | V | W | X   | Y   | Z Ø | AA | BB | CC |
|----|---|---|---|---|---|---|---|-----|-----|-----|----|----|----|----|
| 22.5° | 294 | 500 | 170 | 300 | 378 | 827 | 364 | 29.78 | 756 | 370 | 468 | 784 | 711 | 20° |
EB7 (External Blower) Burners - gas control method “S”

1) Air pressure switch connection
2) Chamber pressure test port
3) Gas pressure test port
4) Observation port
5) Combustion air pressure test port
6) 1/4” NPT pilot gas inlet
7) 1” NPT-F flame scanner connection
8) 1/2” NPT pilot air inlet (if required)
9) Spark ignitor
10) Gas inlet 1-1/4” NPT (F)

Dimensions in mm unless stated otherwise

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<th>D Ø</th>
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<th>J</th>
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<th>M Ø</th>
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<td>463</td>
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<td>635</td>
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Dimensions in mm unless stated otherwise

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<th>Q</th>
<th>R</th>
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<th>T</th>
<th>U</th>
<th>V</th>
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<th>X</th>
<th>Y</th>
<th>Z Ø</th>
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<td>122</td>
<td>300</td>
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<td>365</td>
<td>853</td>
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<td>880</td>
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</table>
Alternate gas control methods - gas control method “C”

0.4M & 0.9M Honeywell ControLinks actuator with square filter/silencer option

1) 1/8" NPT combustion air pressure test port
2) Observation port
3) Gas pressure test port
4) 1/4" NPT pilot gas inlet
5) Air pressure switch connection
6) Chamber pressure test port
7) Spark ignitor
8) Flame scanner connection 1" NPT-F
9) Gas inlet
   0.4M - 1/2" NPT (F)
   0.9M - 3/4" NPT (F)

Dimensions in mm unless stated otherwise

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F square</th>
<th>G</th>
<th>H</th>
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1.5M, 2.5M & 3.0M Honeywell ControLinks actuator with square filter/silencer option

1) Chamber pressure test port
2) Air pressure switch connection
3) Gas pressure test port
4) Observation port
5) Combustion air pressure test port
6) 1/4" NPT pilot gas inlet
7) 1" NPT-F flame scanner connection
8) 1/2" NPT pilot air inlet (if required)
9) Spark ignitor
10) Gas inlet
   1.5M - 1" NPT (F)
   2.5M - 1-1/4" NPT (F)
   3.0M - 1-1/2" NPT (F)

Dimensions in mm unless stated otherwise

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D square</th>
<th>E</th>
<th>F</th>
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**Accessories and options**

**Spark ignitor**

1) Spark ignitor
2) Spark ignitor does not thread into this item. Slip fit.

<table>
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<tr>
<th>Burner size</th>
<th>Dimension X</th>
<th>Spark Ignitor</th>
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<tbody>
<tr>
<td>0.4M &amp; 0.9M, EB2, EB3</td>
<td>262</td>
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<td>1.5M, EB4</td>
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<td>2.5M, EB5</td>
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<td>3.0M, EB6</td>
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<td>EB7</td>
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**Filter/silencer**

<table>
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<th>Dimensions in mm unless stated otherwise</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
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