Model N is a single wall negative, neutral, or positive pressure pre-fabricated piping system intended for use in a variety of applications.

**SPECIAL GAS VENT APPLICATIONS**

- Boilers
- Water Heaters
- Furnaces

Tested and listed to UL1738/ULC-S636
UNDERWRITERS LABORATORIES LISTINGS
Model N in sizes 5” through 48” diameters have been tested and Listed (Safety Certified) by Underwriters Laboratories, Inc. (ULI) and bears the UL and/or c-UL logo signifying compliance with U.S. and/or Canadian standards. UL Listing product categories include:

(USA)
Special Gas Vent (UL1738)

(Canada)
Type BH Gas Vent (ULC-S636)

UL file numbers for Model G include MH16161

CODE AND STANDARD COMPLIANCE
NFPA (NFPA, 31, 37, 54, 96, 211)
ICC (IMC, IFGC)
IAMPO (UMC)

ASSOCIATION/COMMITTEE PARTICIPATION

• System Overview 4-5
• Guide to Component Parts 6
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  • Support/Guide Accessories 14-15
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AMPCO Sizing/Pressure Calculations

SAMPLE
System Overview

AMPCO Model N is a modular, prefabricated venting system which embody flanged joints designed for both quick assembly and pressure-sealing capabilities. They offer structural accessories needed for support attachment to building structures.

Standard gas-carrying venting parts are usable for category II & IV Boiler, Water Heater, and Furnace applications.

Features and Benefits

- Factory-built for high quality, durability and long life
- Stainless steel single wall construction
- Safety tested and listed to multiple UL standards, signifying compliance with U.S. and Canadian codes
- 5" to 48" diameters (ID) to fit the wide range of commercial applications and customer specifications
- Array of components and accessories designed to make a complete installation simple and quick
- Selkirk 5-year limited warranty for Special Gas Vent applications

Complete Line of Fittings

Model N is available in eighteen sizes, from 5" I.D. to 48" I.D. Fittings include various elbows, tees, supports and terminations, as well as a variety of accessory fittings designed to make installation simple and quick.

Each component is shipped complete and ready for installation. Each ordered part includes Inner Vee Bands, and all the necessary hardware.

All items included with each order are listed in this catalog under the part description.
Exceeding the Requirements

AMPCO, inventors of the positive pressure system concept, far exceeds the requirements of codes and other manufacturers. Results of our testing programs illustrate this fact.

Leak Tests
AMPCO conducted system pressure testing (to 15" w.c.) against leakage in the presence of UL inspectors. Results of these tests are impressive. Using the OSHA occupation standard-of-leakage rate of 50 parts per million over an eight hour period as criterion for acceptance, the AMPCO system was tested to a leakage rate of only .144 parts per million, or three-tenths of one percent (.3%) of the maximum allowable leakage per UL.

Seismic Tests
We further demonstrated the superiority of the Model N concept by conducting seismic load tests. These tests proved the structural integrity of our products under severe stress by showing that a guyed stack measuring 20 inches in diameter and exceeding 10 feet above the guying location (installed in strict accordance with the UL103 Listing) could withstand the rigors of all seismic zones.

Structural Tests
AMPCO recently tested for greater freestanding limits (termination height above a guide point). These tests, simulating stack performance under 110 mph wind conditions, again demonstrated the superiority of AMPCO products.
This page illustrates some of the major parts described on pages 8-16.

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Understanding Product Codes and Part Numbers (Example: 6N316-AG30)

All parts manufactured by AMPCO are identified by a series of numbers and letters which describe their makeup and function.

Here is how to interpret the Part Number designation for Model N products.

1. It begins with the pipe or fitting’s internal diameter (in inches) such as 8, 22, 36, etc.
2. This is followed by the Model designation, N.
3. Next, is the product’s Material designation, 316.
4. Then, following a dash, the product Code name is listed, such as AG30, JY, or MVT.

(For Product Code listings, refer to page 6.)

Thus, the Ordered Part Number for a 30-inch Adjustable Pipe, with a 6-inch I.D., made of 316 Stainless Steel inner is listed:

6N316-AG30

* Note: For products with reduction or increaser parts, the part number changes as follows:

OT - Smaller diameter listed first (before Model designation)
Larger diameter listed before Code designation

Example - For a Tapered Increaser with an 8" to 16" dia. Body:

8N316-16OT
Overlapping Vee Band
Code: VB

Vee Band for connecting inner 1/2" rolled flanges. Capable of holding 15" w.c. of pressure when properly installed.

Materials Available:

| All Stainless Construction |

Notes:
1. VB’s are a one or two-piece design.
   Included with pipe sections.

Sealant
Code: SGV550

SGV550 Sealant is for 550°F maximum flue gas temperatures, and is applied to the VEE band and pipe flange before connecting two pipes at installation.

<table>
<thead>
<tr>
<th>Inner Dia. (inches)</th>
<th>SGV550</th>
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<tbody>
<tr>
<td>5/6</td>
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<td>8/10</td>
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<td>36</td>
<td>2</td>
</tr>
<tr>
<td>42/48</td>
<td>1</td>
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Joint Assembly Parts

Joint Assembly

INNER PIPE

INNER VEE BAND

USE APPROPRIATE SEALANT
1/4" DEEP IN VEE BAND GROOVE
AND ON PIPE FLANGE

FLANGED INNER JOINTS
Single Wall Pipe

**Standard Length**  
**CODE: 18, 30, 42 & 60**

A variety of straight pipe lengths are available with Model N. Special lengths are also available and can be made with a minimum dimension of 6" long.

- **18" & 30" lengths** available in all diameters 5"- 48"
- **42" lengths** available in 6"-42" diameters
- **60" lengths** available in 8"-14" diameters
- **59" lengths** available in 16"-26" diameters

**Graphite Packing Band**

**Standard Vee Band**

**Adjustable Slip Section**

**Seal Ring (Part of VL)**

**Flow Resistance Factor is the same as standard pipe.**

Adjustable Single Wall Pipe

**Adjustable Length**  
**CODE: AG18 & AG30**

**USE:** The N-AG18/30 is used for thermal expansion compensation in any pipe line running between two fixed points.

**NOTE:** For diameters over 26", part G-AG30 must be used.

- **18" Adjustable length** available in 5"- 26" diameters
- **30" Adjustable length** available in 5"-48" diameters

**Variable Length**  
**CODE: AG18 & AG30**

**USE:** Part N-VL18 is used as length to fill odd dimensions of 4" to 14". Part N-VL30 is used to fill odd dimensions of 4" to 26".

**NOTE:** N-VL does not allow for thermal expansion.

- **18" Adjustable length** available in 5"-48" diameters

**Flow Resistance Factor is the same as standard pipe.**

**NOTE:**
1. Minimum installed length is 4".
2. AG 18 not available for 28" diameter and above.
3. Maximum installed space is when the inner slip section protrudes at least 1/2 pipe diameter into the adjacent pipe.
4. Flow Resistance Factor (K) is the same as insulated pipe lengths.
**90° Tee**  **CODE: MT**

**USE:** To join horizontal and vertical sections of pipe. The N-MT provides for connection for a drain or inspection fitting.

**NOTE:** A reduction Manifold Tee is offered.

---

**45° Lateral Tee**  **CODE: JL**

**USE:** The N-JL is used to join horizontal and vertical sections of pipe at a 45 degree angle.

**NOTE:** A reduction N-JL is offered. A, B, and C dimensions would remain the same.

---

**90° Wye**  **CODE: JY**

**USE:** The N-JY is intended for low pressure drop joining of two appliances.

**NOTE:** All openings are the same size diameter.
Single Wall Fittings

**30° Fixed Elbow**   **CODE: EL30**

**USE:** Designed to change the direction of a breeching 30 degrees in a vertical or horizontal run.

```
Part No. | Pipe Size I.D. | Dim. A | Dim. B | Dim. C
---------|---------------|-------|-------|-------
5N-EL30  | 5"            | 6 1/2 | 6 1/2 | 22 3/4
6N-EL30  | 6"            | 6 3/8 | 6 3/8 | 22 3/8
8N-EL30  | 8"            | 6 3/8 | 6 3/8 | 22 3/8
10N-EL30 | 10"           | 6 1/4 | 6 1/4 | 24 3/8
12N-EL30 | 12"           | 7 7/8 | 7 7/8 | 27 7/8
14N-EL30 | 14"           | 7 1/2 | 7 1/2 | 29 7/8
16N-EL30 | 16"           | 8 1/4 | 8 1/4 | 30 7/8
18N-EL30 | 18"           | 8 1/4 | 8 1/4 | 31 7/8
20N-EL30 | 20"           | 9 7/8 | 9 7/8 | 34 7/8
22N-EL30 | 22"           | 9 7/8 | 9 7/8 | 35
24N-EL30 | 24"           | 10 1/4| 10 1/4| 37 1/2
26N-EL30 | 26"           | 10 1/4| 10 1/4| 38 1/2
28N-EL30 | 28"           | 11 1/4| 11 1/4| 40 1/2
30N-EL30 | 30"           | 11 1/4| 11 1/4| 41 1/4
32N-EL30 | 32"           | 11 1/4| 11 1/4| 44 1/2
36N-EL30 | 36"           | 12 1/4| 12 1/4| 47 1/4
42N-EL30 | 42"           | 14    | 14    | 52 1/2
48N-EL30 | 48"           | 14 1/4| 14 1/4| 56 1/4
```

**K = 0.12 Flow Resistance Factor**

---

**45° Fixed Elbow**   **CODE: EL45**

**USE:** The N-EL45 is used to join horizontal and vertical sections of pipe at a 45 degree angle.

**NOTE:** A reduction N-JL is offered. A, B, and C dimensions would remain the same.

```
Part No. | Pipe Size I.D. | Dim. A | Dim. B | Dim. C
---------|---------------|-------|-------|-------
5N-EL45  | 5"            | 8 1/2 | 12    | 29  
6N-EL45  | 6"            | 8 1/2 | 12    | 29  
8N-EL45  | 8"            | 8 15/16| 12 7/8| 30 7/8
10N-EL45 | 10"           | 9 7/16| 13 1/4| 31 7/8
12N-EL45 | 12"           | 10 1/4| 14 1/2| 35
14N-EL45 | 14"           | 10 11/16| 15 1/8| 36 3/8
16N-EL45 | 16"           | 11 1/4| 16 1/16| 39 7/8
18N-EL45 | 18"           | 12 1/4| 17 1/16| 41 1/4
20N-EL45 | 20"           | 13    | 18 1/16| 44 1/4
22N-EL45 | 22"           | 13 3/4| 18 7/16| 45 7/8
24N-EL45 | 24"           | 14 1/4| 20 7/8| 48 1/2
26N-EL45 | 26"           | 14 1/4| 21 1/8| 50 1/4
28N-EL45 | 28"           | 15 1/16| 22 7/16| 53 1/2
30N-EL45 | 30"           | 16 7/8| 22 1/16| 56 3/8
32N-EL45 | 32"           | 17    | 24    | 58
36N-EL45 | 36"           | 18 1/4| 25 1/4| 62 1/4
42N-EL45 | 42"           | 19 3/8| 27 3/8| 67
48N-EL45 | 48"           | 21 1/4| 30 1/4| 74 3/4
```

**K = 0.15 Flow Resistance Factor**

---

**90° Fixed Elbow**  **CODE: EL90**

**USE:** The N-EL90 is used to join horizontal and vertical sections of pipe at a 90 degree angle.

**NOTE:** All openings are the same size diameter.

```
Part No. | Pipe Size I.D. | Dim. A
---------|---------------|-------
5N-EL90  | 5"            | 11 1/2
6N-EL90  | 6"            | 11 1/2
8N-EL90  | 8"            | 12 1/2
10N-EL90 | 10"           | 13 1/2
12N-EL90 | 12"           | 14 1/2
14N-EL90 | 14"           | 14 1/2
16N-EL90 | 16"           | 15 7/8
18N-EL90 | 18"           | 15 3/4
20N-EL90 | 20"           | 18
22N-EL90 | 22"           | 18 1/2
24N-EL90 | 24"           | 20 1/2
26N-EL90 | 26"           | 21 1/2
28N-EL90 | 28"           | 22 1/2
30N-EL90 | 30"           | 23 1/2
32N-EL90 | 32"           | 24 1/2
36N-EL90 | 36"           | 25 1/2
42N-EL90 | 42"           | 29 1/2
48N-EL90 | 48"           | 32 1/2
```

**K = 0.30 Flow Resistance Factor**
15° Elbow

USE: Two-piece Elbow can establish many different degrees when combined with other standard Elbows.

CODE: EL15

Slope Transition

USE: Used to create immediate 1/4" on 12" slope on horizontal runs. Typically used in pairs (one at lower (inlet) end, other at upper (outlet) end of sloped [1/4 on 12] horizontal run)

CODE: ST

Cleanout Tee Cap

USE: Used to close Tee opening at the base of a stack or the end of a horizontal run.

CODE: TCN

Drain Tee Cap

USE: Provides a drain at the base of a vertical chimney when connected to the MT or JL

CODE: TC

Drain Section DS

USE: Used with open stack terminations for draining off rain water from inside vertical or horizontal flue.

CODE: DS

Step Increaser/Reducer

USE: Used when pipe diameter change is required in a small space. Make sure condensate build-up in large diameter is drained away downstream of increaser.

CODE: OS

Eccentric Increaser

USE: The primary increaser used for changing diameters, due to flat bottom for effective condensate flow back to drain.

CODE: EOT
## Connection Accessories

### Fan Adapter FA

**USE:** Designed to secure Model N to fan inlet.

**CODE:** FA

![Fan Adapter FA Diagram]

### Hood Transition

**USE:** Securing Model N to flanged appliance outlets.

**CODE:** TS

![Hood Transition Diagram (Flanged)]

### Hood Transition (Unflanged)

**USE:** Securing Model N to unflanged appliance outlets.

**CODE:** TSU

![Hood Transition (Unflanged) Diagram]

## Joint Assembly Parts

### Seal Ring

**USE:** Used for non-welded attachment to appliances having an unflanged or collar outlet.

**CODE:** SR

![Seal Ring Diagram]

## Support/Guide Accessories

### Wall Guide Assembly

**USE:** Same use as FR, but with factory-supplied bracing.

**CODE:** WG

![Wall Guide Assembly Diagram]

**Ordered Part Included:**
One FR, four struts, and six brackets.

**Notes:**
1. Assembly will maintain a 6” to 11” clearance between pipe I.D. and supporting structure.

**Materials Available:**
- Painted Steel

### Wall Support Assembly

**USE:** “Limited” support assembly with factory-supplied bracing.

**CODE:** WA

![Wall Support Assembly Diagram]

**Ordered Part Includes:**
One FR, two CFs, two HCBs, five brackets, two struts, and all hardware except connection at wall.

**Notes:**
1. Assembly will maintain a 5” clearance between pipe I.D. and supporting structure.

**Materials Available:**
- Painted Steel
**Plate Support Assembly**

**USE:** Used for supporting the load of the stack and as a fixed point anchor near fittings.

**CODE:** PA

**Ordered Part Includes:**
Split (square) plate, one CF, two HCBs and hardware.

**Plate Thickness:**
- 0.188" for sizes 5" through 20" I.D. diameters
- 0.250" for sizes 22" through 36" I.D. diameters
- 0.375" for sizes 42" through 48" I.D. diameters

**Notes:**
1. Two 316 Stainless Steel HCBs should be ordered separately for stainless steel outer projects.
2. PA fabricated from 304 Stainless Steel is available upon request and is non-returnable. Allow extra manufacturing time.

**Materials Available:**
- Painted Steel

**Support Strap**

**USE:** Available in 5" through 28"—N only. 0.188" Thick Rolled Steel.

**CODE:** SS

**Materials Available:**
- Painted Steel

**Angle Rings**

**USE:** Used for guiding and/or supporting horizontal installations.

**CODE:** HR & FR

**HR - Half Ring**

**FR - Full Ring**

**Part No.** | **Bolt Hole** | **I.D. of Ring** | **# of Holes** | **Size of Angle** | **Angle**
--- | --- | --- | --- | --- |
5N-HR | 9 | 5 1/8 | 6 | (1) | 45
6N-HR | 10 | 6 1/8 | 6 | (1) | 45
8N-HR | 12 | 8 1/8 | 6 | (1) | 45
10N-HR | 14 | 10 1/8 | 6 | (1) | 45
12N-HR | 16 | 12 1/8 | 6 | (1) | 45
14N-HR | 18 | 14 1/8 | 6 | (1) | 45
16N-HR | 20 | 16 1/8 | 6 | (1) | 45
18N-HR | 22 | 18 1/8 | 6 | (1) | 45
20N-HR | 24 | 20 1/8 | 6 | (1) | 45
22N-HR | 26 | 22 1/8 | 10 | (2) | 22.5
24N-HR | 28 | 24 1/8 | 10 | (2) | 22.5
26N-HR | 30 | 26 1/8 | 10 | (2) | 22.5
28N-HR | 32 | 28 1/8 | 10 | (2) | 22.5
30N-HR | 34 | 30 1/8 | 10 | (2) | 22.5
32N-HR | 36 | 32 1/8 | 10 | (2) | 22.5
36N-HR | 40 | 36 1/8 | 10 | (2) | 22.5
42N-HR | 46 | 42 1/8 | 10 | (2) | 22.5
48N-HR | 52 | 48 1/8 | 10 | (2) | 22.5

1. Size of Angle = 1 1/8 X 1 1/8 X 3/8
2. Size of Angle = 2 X 2 X 3/8

**Materials Available:**
- Painted Steel

**Ventilated Storm Collar**

**USE:** Combustible wall penetration. Due to flange on pipe the VSC must be up sized. Additional Storm Collar must be used to close the gap. Refer to table below for VSC and SC parts.

**CODE:** VSC

**Ventilated Roof Thimble**

**USE:** For use where pipe passes through a combustible roof or structure. Also guides the chimney 6" above the roof line. Refer to table below for all necessary parts.

**CODE:** MVT

**Materials Available:**
- Painted Steel

**Pipe Size** | **I.D.** | **THB Part No.** | **MVT Part No.** | **VSC Part No.** | **SC Part No.**
--- | --- | --- | --- | --- | ---
5 | 5 | 5P-THB | 5P-MVT | 5P-VSC | 5G-SC
6 | 6 | 6P-THB | 6P-MVT | 6P-VSC | 6G-SC
8 | 8 | 8P-THB | 8P-MVT | 8P-VSC | 8G-SC
10 | 10 | 10P-THB | 10P-MVT | 10P-VSC | 10G-SC
12 | 12 | 12P-THB | 12P-MVT | 12P-VSC | 12G-SC
14 | 14 | 14P-THB | 14P-MVT | 14P-VSC | 14G-SC
16 | 16 | 16P-THB | 16P-MVT | 16P-VSC | 16G-SC
18 | 18 | 18P-THB | 18P-MVT | 18P-VSC | 18G-SC
20 | 20 | 20P-THB | 20P-MVT | 20P-VSC | 20G-SC
22 | 22 | 22P-THB | 22P-MVT | 22P-VSC | 22G-SC
24 | 24 | 24P-THB | 24P-MVT | 24P-VSC | 24G-SC
26 | 26 | 26P-THB | 26P-MVT | 26P-VSC | 26G-SC
28 | 28 | 28P-THB | 28P-MVT | 28P-VSC | 28G-SC
30 | 30 | 30P-THB | 30P-MVT | 30P-VSC | 30G-SC
32 | 32 | 32P-THB | 32P-MVT | 32P-VSC | 32G-SC
36 | 36 | 36P-THB | 36P-MVT | 36P-VSC | 36G-SC
42 | 42 | 42P-THB | 42P-MVT | 42P-VSC | 42G-SC
48 | 48 | 48P-THB | 48P-MVT | 48P-VSC | 48G-SC
Roof Penetrations

**Roof Penetrations**

**Storm Collar**

**USE:** Used above the TF and PTF for complete weatherization above the roof.

**CODE:** SC

**Notes:**
1. Requires P600 sealant when installing.

**Materials Available:**

| Aluminized or Galvanized Steel | 304 | 316 |

**Rain Cap (Heatfab Saf-T Vent)**

**USE:** Provides the greatest degree of wind protection and required for use on Category II applications. Sizes available are from 5"-32". Rain cap adapts to G pipe models via the following parts ordered separately: Saf-T Vent Double Flange Adapter (CCA_PS) and Vee-Band (VB). Reference illustration and table below.

**CODE:** CCA_RC

**Notes:**
1. Requires P600 sealant when installing.

**Materials Available:**

| Aluminized or Galvanized Steel | 304 | 316 |

**Tall Flashing TF**

**USE:** Used in conjunction with SC for weatherization at the roof.

**CODE:** TF

**Notes:**
1. Requires P600 sealant when installing.

**Stack Cap**

**USE:** Provides partial protection with low flow resistance. May require a drain at base of stack. Not permitted for CAT II applications.

**CODE:** SK

**Notes:**
1. Requires P600 sealant when installing.

**Pitched Tall Flashing PTF**

**USE:** Same function as TF, except for use on a pitched roof.

**CODE:** PTF

**Notes:**
1. Requires P600 sealant when installing.

**Exit Cone**

**USE:** Will increase stack exit velocity 1½ times. Requires a drain at the bottom of stack.

**CODE:** EC

**Notes:**
1. Requires P600 sealant when installing.

**Part No.** | **Dim. A** | **Dim. B**
--- | --- | ---
5N-SK | 2½" | 10½"
6N-SK | 3 | 10½"
8N-SK | 4 | 13½"
10N-SK | 5 | 17
12N-SK | 6 | 20½"
14N-SK | 7 | 24
16N-SK | 8 | 27½"
18N-SK | 9 | 30½"
20N-SK | 10 | 34¼"
22N-SK | 11 | 37½"
24N-SK | 12 | 41
26N-SK | 13 | 44¼"
28N-SK | 14 | 47½"
30N-SK | 15 | 51¼"
32N-SK | 16 | 54½"
36N-SK | 18 | 61½"
42N-SK | 21 | 71¼"
48N-SK | 24 | 82

**Part No.** | **Dim. A**
--- | ---
5N-EC | 4½"
6N-EC | 4½"
8N-EC | 6½"
10N-EC | 8½"
12N-EC | 9½"
14N-EC | 11½"
16N-EC | 13½"
18N-EC | 14½"
20N-EC | 16½"
22N-EC | 18
24N-EC | 19½"
26N-EC | 21¼"
28N-EC | 2¾"
30N-EC | 24½"
32N-EC | 26½"
36N-EC | 29½"
42N-EC | 34½"
48G-EC | 39½"
## Material Thickness

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Inner Gauge</th>
<th>Material</th>
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<tbody>
<tr>
<td>5&quot;-32&quot;</td>
<td>20</td>
<td>.035&quot; - 316 SS</td>
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<tr>
<td></td>
<td>20</td>
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<tr>
<td>36&quot;</td>
<td>20</td>
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<td>18</td>
<td>.048&quot; - 316 SS</td>
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<td>18</td>
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</table>

* Gauge is approximate.
## Technical Data

### Operating Temperatures and Clearances to Combustibles

#### Table I-1: Model N316

**Min. Airspace Clearance-to-Combustible Construction**

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe ID</th>
<th>Max. Appliance Operating Temperature</th>
<th>Clearance to Combustible Material</th>
<th>Orientation</th>
<th>Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>5-12&quot;</td>
<td>230°F*</td>
<td>0&quot;</td>
<td>Vert. &amp; Horiz.</td>
<td>Fully Enclosed</td>
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<td>14-48&quot;</td>
<td>194°F*</td>
<td>0&quot;</td>
<td>Vert. &amp; Horiz.</td>
<td>Fully Enclosed</td>
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<td>1&quot;</td>
<td></td>
<td></td>
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<td>6-12&quot;</td>
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<td>16-18&quot;</td>
<td>4&quot;</td>
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<td>20-22&quot;</td>
<td>5&quot;</td>
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<td>24-26&quot;</td>
<td>6&quot;</td>
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<td>5-48&quot;</td>
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<td>Noncombustible material</td>
</tr>
</tbody>
</table>

* Permitted to be fully enclosed with combustibles at 0" clearance per ULC-S636
AMPCO manufactures engineered solutions for venting today’s high-efficiency combustion installations. AMPCO engineered systems are manufactured of high technology materials which resist the highly corrosive effects of combustion exhaust. Traditional methods require time-consuming, labor-intensive installations which consume valuable building space and which later require expensive routine maintenance. Utilizing a system of both standard pre-engineered products with custom-manufactured components, AMPCO engineers a cost-effective venting system which consumes little space and which assembles easily in the field.

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Ward Industries
Milcor
Portals Plus
Roof Products & Systems