

Specifications

Applications

5"-8" DuraTech is a double-wall, all-fuel chimney system for use with wood stoves, fireplaces, furnaces, boilers, ranges, water heaters, or other appliances fueled by wood, oil, coal, or gas, and zero-clearance fireplaces that are factory-built.

Materials and Construction

5"-8" diameter pipe features inner wall of .020" 430 stainless steel. Outer wall options of .016" 430 stainless steel or .021" galvalume steel. A Refractory insulation is encased between walls. Stainless steel end rings seal the pipe.

DuraTech features light weight insulation, twist-lock fittings, support boxes with factory installed starter sections, elbows with 360° swivel base, select black finish pipe lengths, five foot length pipe sections, and adjustable pipe lengths.

Clearances

2" clearance to combustibles.

Shrouds

UL Listed with DuraVent shroud specifications. Information available online at www.duravent.com or call and request L157.

Diameters

5"-8"

Listings

c-UL-us Listed to UL 103 HT and ULC S604 (MH7399)
(Stainless steel outer wall required for oil-burning installations in Canada).



UL 103 HT and ULC S604 System

DuraTech 5"-8"

With a Refractory insulation encased between dual walls, DuraTech offers the optimum in safety and performance. It keeps the outer wall of the chimney cool while ensuring high flue gas temperatures for optimum draft performance.

The inner wall is 25% thicker than competitive chimneys for an extra margin of safety. No locking bands or mechanical fasteners required.

DuraTech's sleek 1" wall design provides for easy installations through 16" on-center framing. For tight installations, a Reduced Clearance Square Ceiling Support Box is available (6" diameter DuraTech only).

Designed for normal, continuous operation at 1000°F flue gas temperatures, DuraTech is subjected to rigorous and stringent high temperature requirements of the UL standard, including one hour at 1400°F, plus three ten-minute chimney fire test at 2100°F.



UL 103 System

DuraTech 10"-24"

DuraVent now offers DuraTech in large diameters to vent large-scale residential fireplaces and building heating appliances.

10"-24" DuraTech chimney is tested and listed for continuous operation at 1000° F flue gas temperatures, one hour at 1400° F and ten-minutes at 1700° F, in accordance with the UL 103 test standard.



Specifications

Applications

10"-24" large diameter DuraTech is a 1" wall, all-fuel chimney system for use with wood stoves, fireplaces, furnaces, boilers, ranges, water heaters, or other appliances fueled by wood, oil, coal, or gas.

Materials and Construction

10"-24" diameter pipes feature an .027" 430 stainless steel inner wall and an outer wall of .029" galvalume or .027" 430 stainless steel. A Refractory insulation is encased between walls. Only stainless pipes use the stainless end rings. Regular galvalume pipe uses galvalume end rings.

Clearances

2" clearance to combustibles.

Shrouds

UL Listed with DuraVent shroud specifications. Information available online at www.duravent.com or call and request L157.

Diameters

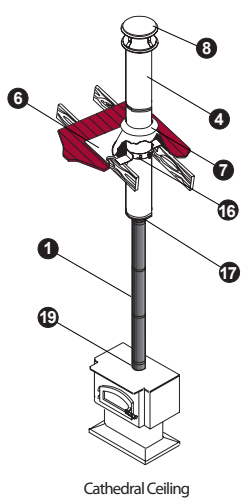
10", 12", 14", 16", 18", 20", 22", and 24".

Listings

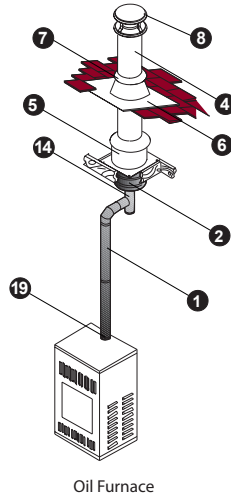
c-UL-us Listed to UL 103 and ULC S604 (MH7399)
(Stainless steel outer wall required for installation in Canada.)



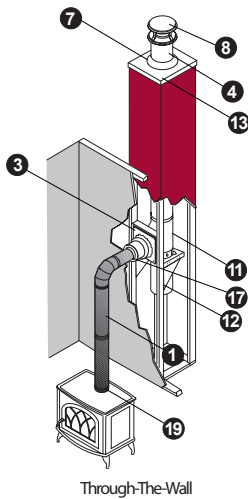
Typical Installations For 5"- 24" DuraTech



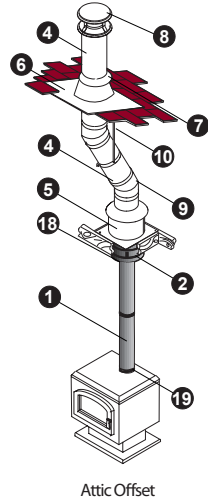
Cathedral Ceiling



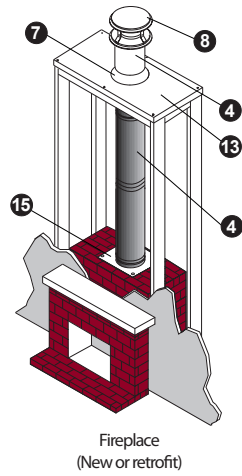
Oil Furnace



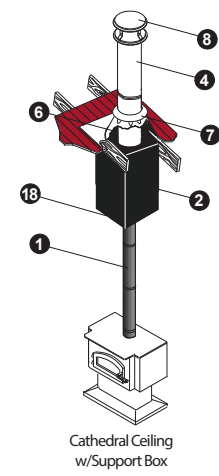
Through-The-Wall



Attic Offset



Fireplace
(New or retrofit)

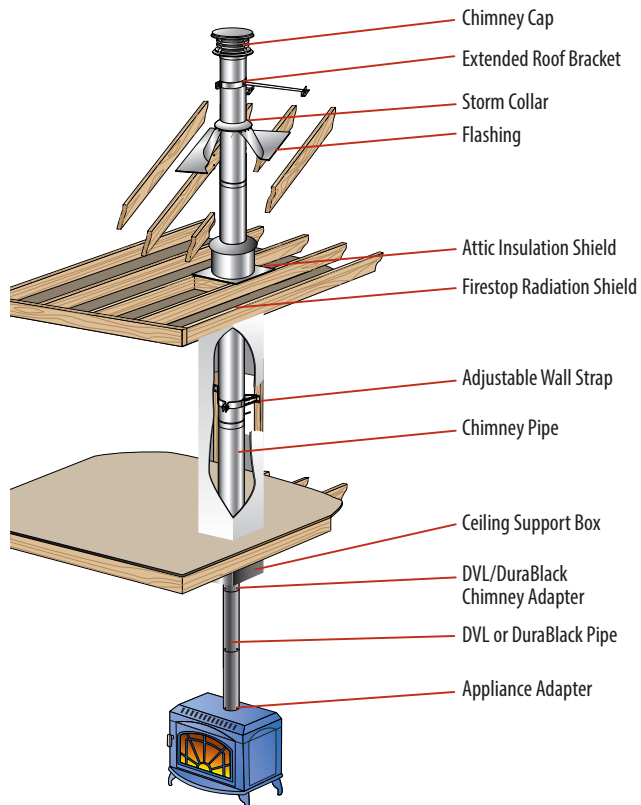


Cathedral Ceiling
w/Support Box

| Installation Key | | | |
|------------------|-------------------------|----|---|
| 1 | DVL or DuraBlack | 11 | Tee with Tee Cap |
| 2 | Ceiling Support | 12 | Tee Support |
| 3 | Wall Thimble | 13 | Chase Top Flashing |
| 4 | Chimney Pipe | 14 | Base Tee/Double Tee |
| 5 | Attic Insulation Shield | 15 | Anchor Plate or Anchor Plate with Damper |
| 6 | Flashing | 16 | Roof Support |
| 7 | Storm Collar | 17 | Finishing Collar |
| 8 | Chimney Cap | 18 | DVL Adapter, DuraBlack Slip Connector, or Snap-Lock Adapter |
| 9 | Elbow | 19 | DVL Adapter (w/ or w/o damper) |
| 10 | Elbow Strap | | |

Refer to our Typical Installation drawings to select the appropriate component parts for your installation.

- DVL/DuraBlack Chimney Adapter must be used when connecting DVL pipe to a Ceiling Support Box or Finishing Collar. When connecting DuraBlack pipe, a DVL/DuraBlack Chimney Adapter, DuraBlack Slip Connector, or Snap-Lock Adapter must be used.
- Wall Thimble must be installed with an appropriate length of chimney pipe for all horizontal through-the-wall installations. To accommodate thicker walls, the telescoping pieces of the Wall Thimble can be separated, and a field-fabricated extension may be installed.
- Attic Insulation Shield must be used in all installations that pass through an attic, regardless of whether the attic is insulated or not.
- Firestop Radiation Shield must be used when a chimney passes through a floor or ceiling without a support box.



Planning Your Installation

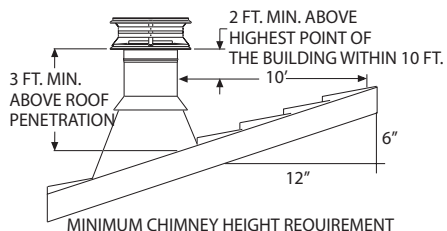


Figure 1

The following recommendations are general guidelines to assist in the layout and selection of the chimney components needed for your installation. Always follow DuraVent Installation instructions before installing your chimney system, found with the cap or support box. Installation instructions can be viewed online at www.duravent.com.

- The diameter of the chimney should match the outlet size of the appliance. An improperly sized chimney results in poor draft and excessive creosote formation.
- Measure the diameter of the appliance flue outlet. Select the chimney and either DVL or DuraBlack connector stovepipe with the same size diameter as the appliance flue outlet. For fireplace installations, refer to the sizing chart in the back of this catalog section.
- Determine if the installation is a through-the-roof installation or a through-the-wall installation. A through-the-wall installation will require additional components (Wall Thimble, Tee/ Cap, Tee Support, and Wall Straps).
- Install the chimney in the interior of the structure whenever possible. A cold exterior chimney will produce less draft and will generate more creosote.
- If possible avoid offsets that serve to restrict the natural draft. A straight vertical installation is more efficient and less likely to develop creosote. If an offset is required to avoid rafters or other obstructions, measure the horizontal distance required and the vertical height available. Both 15° and 30° elbows are available. Elbows have a 360° swivel base to allow orientation of elbow direction only. Elbows are fixed at 15° or 30°. Elbows greater than 30° are not allowed in the United States. A maximum of two offsets (four elbows) in a single installation are permitted. Refer to the offset table in the back section of this catalog. At least one Elbow Strap is required for each offset. Elbow Straps ensure adequate support.
- Determine the minimum chimney height above the roof line. Building codes require a minimum of 3' above the roof penetration and at least 2' higher than any portion of a building within 10'. See figure 1. The termination cap is installed above that point. If the chimney extends 5' or more above the roof penetration an extended roof bracket is required. An additional roof bracket is needed every 5'.
- Measure the roof pitch. For example a 6/12 pitch has a vertical rise of 6" over a horizontal distance of 12". Select the appropriate flashing.
- Determine the total length of chimney and stovepipe required for the installation. To calculate the installed length of 5"-8" DuraTech pipe, subtract 1 1/4" per joint. For 10"-24" diameter, subtract 1" per joint. Subtract 1 1/4" per joint of DuraBlack stovepipe. Subtract 1 1/2" per joint of DVL stovepipe. Minimum chimney height, at sea level, of straight vertical chimney is 10' to 15' above the appliance outlet. Higher elevations, or the use of elbows or a tee, will require approximately 30% to 60% more height to provide an adequate draft.
- For a UL approved shroud, see the DuraTech Shrouds Installation Instructions (L157). View online at www.duravent.com, under support > literature.
- Be fire safe. Maintain at least 2" clearance to combustibles. Follow local building codes and have your chimney inspected by a certified professional.

What makes us different from the rest?

DuraTech: The optimum in safety and performance for an all-fuel chimney.



| DuraTech Feature | Benefit | DuraTech Feature | Benefit | DuraTech Feature | Benefit |
|--|---|--|---|---|---|
| 5" through 24" diameter selection | Gives the installer the largest variety of diameters to fit and size the fireplace or stove properly. | | Ensures complete insulation coverage between inner and outer walls, preventing any hot spots from appearing due to expansion of the metal walls during operation. Hot spots could cause a fire. | 15 and 30 Degree Elbows come with swivel base | The swivel base allows an installer to line up the elbow without unlocking and repositioning the elbow, saving time and money. |
| 6", 9", 12", 18", 24", 36", 48" and 60" pipe lengths | Gives the installer the greatest variety of lengths to reach the desired height with ease and least amount of pipe sections. | 1" Refractory Insulation Blanket | | 15 and 30 Degree Elbows come in kits | This ensures that the installer gets both the offset and return elbow along with an elbow support bracket to make a properly code approved offset. |
| Twist Lock End Rings for 5" - 8" | Allows the installer to safely and easily connect and disconnect chimney sections without mechanical fasteners. Encases insulation to prevent exposure to outside elements. No locking bands required. | Factory Installed Starter Section in the Support Box | Allows the installer a safe, quick and easy connection of chimney to the support box. | Limited Lifetime Warranty | The best Warranty in the industry. 15 years 100%, 15 years and up 50%. Gives the installer and home owner the greatest peace of mind in a quality installation. |
| 430 Stainless Steel Inner Wall | Corrosion resistant stainless steel with the smallest amount of expansion when exposed to heat. Prevents hot spots from appearing which could cause a fire. | DuraTech offers 3 support box heights. 12", 24", 36" along with flat and round supports | Gives the installer the most options when dealing with ceiling slopes. Creating the most aesthetically pleasing installation possible. | Adjustable Tee and Wall Support Brackets | Guarantees proper clearance to combustibles, allowing the installer to work around changing exterior wall surfaces, avoiding any field fabrication or code violation. |
| .020" thick Stainless Steel Inner Wall for 5"-8" | Thickest inner wall construction in the industry providing the best protection from creosote fires. | Reduced 10" wide Support Box for 6" diameter DuraTech | Allows for the smallest area of framing while still maintaining safe and approved clearances to combustibles. Could prevent having to reframe around chimney. | Shroud Specifications | Shroud specs allow the installer to create a UL listed shroud to hide the termination at the top of the chase for safest installation. |
| Light Weight Construction | Light weight Thermo Tech insulation makes pipe sections lighter (5lbs per ft for 6" diameter) to allow the manufacture of 5' lengths, thus the installer has fewer trips up the ladder for a quick and easy installation. | DuraVent offers 3 easy options to attach Connector Pipe to Chimney System with the DVL/DB adapter or the DB slip connector | Allows installer to connect DVL, DuraBlack or stovepipe to the support box or finishing collar for an easy and quick installation. Adapter screws into support box and ensures a firm connection between stovepipe and support box. | Adjustable Height Attic Insulation Shield | Allows the installer to accommodate deep attic insulation without having to field fabricate an extension. Saves time and money. |
| 1" Double Wall Insulated Pipe | Has the smallest outside diameter available to allow easy placement between studs. i.e. 8" O.D. on 6" diameter pipe. Saves from having to reframe around the chimney. | | | Removable Top Plate and Spark Arrestor on termination cap | Easy cleaning of chimney without having to disconnect and remove the cap. Saves time and money in cleaning. |