



wood boilers and water storage tanks

Wood Heating has never been easier!

you can SWEEP, REFILL AND LIGHT this boiler

in **5** minutes



The VEDOLUX boilers built by Värmebaronen are indoor wood **boilers** that offer very **efficient burning** in excess of 2000° F, producing a virtually **smoke-free** operation inside and outside where you and your neighbors can breathe

easy. These boilers are truly a **user friendly** wood heating solution!

The VEDOLUX wood **gasification** boilers are **always** combined with **heat storage** tanks, allowing you to burn **the least** amount of wood possible, by **“batch”** burning while still meeting the demand all day even if there isn't an active fire!

WHAT is BATCH BURNING and why WATER STORAGE?

Batch burning is fully burning a load of wood to completion, avoiding idle or smoldering. This requires a hot water storage tank because often the house load only needs a small portion of the full output created by a single load of wood. All the extra heat not used by the home during a burn cycle gets stored and is held in reserve for later heating needs. The boiler operation compares to charging a battery....The *charger* is the boiler and the hot water storage tank is the *battery*. *Charging* or burning is required after the house demand depletes the stored hot water from the previous burn cycle. Heating capability from this type of system extends well beyond the burn cycle.

Fires always run at full output while charging the storage system. Fires that idle or are forced to smolder generate unburned smoke and cause creosote... And are not efficient. Vedolux boilers avoid this scenario by running at full output, then after the wood is completely consumed, shut down. The low mass and ample exchange area of these boilers allow for a rapid climb to operating temperatures, usually within 20 minutes of lighting.

Water storage combined with an efficient wood boiler excel in Spring and Fall. Stored heat may last several days from a typical 3.5 hour burn time during weather where you have large temperature swings. For an average winter day the heat demand may require a morning and evening firing. Water storage is essential for efficient wood boiler operation because the nature of wood burning requires a full and complete burn for true clean combustion.

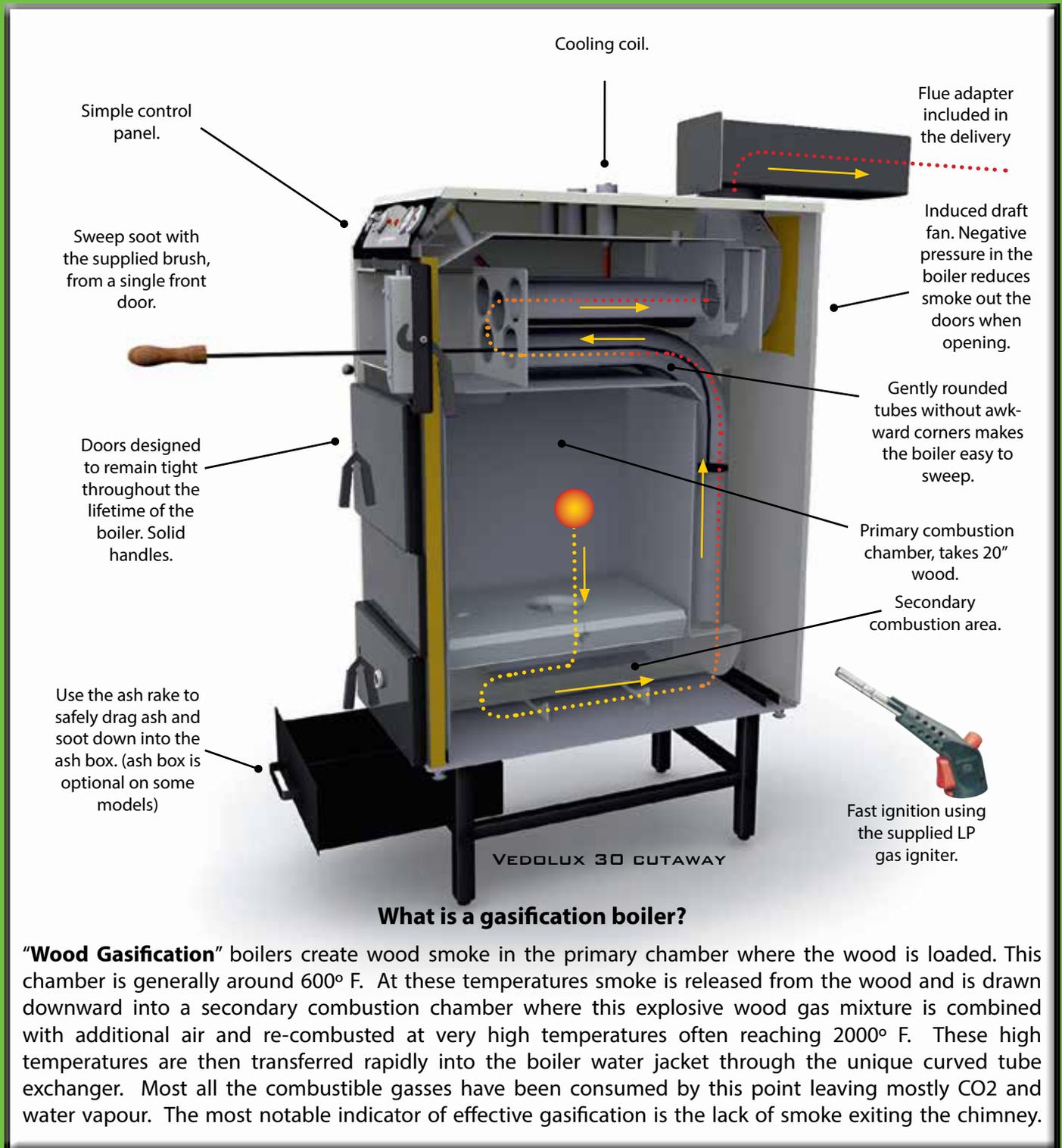


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Dealer opportunities

SmokeLess Heat LLC is the North American importer for  of Sweden.

This is how a good wood-fired boiler should be designed



Each Varmebaronen VEDOLUX boiler model shares this **unique curved tube exchanger design**, enabling easy cleaning **from the front** and **speedy ignition** in just a few minutes. The boiler effectively re-burns the gasses within 5 minutes from lighting. Only a **clean boiler** is efficient: soot coating the exchangers causes valuable heat to escape up the chimney. Choose a boiler that makes it easy for you to light and keep clean!



VEDOLUX 50

VEDOLUX 40

← **NATURAL DRAFT**

Two VEDOLUX boiler models present a wood gasification boiler without the use of fans or electric controls. The natural draft models require a specific size chimney for operation. A good draft is required for the inverse burn. No electric is required for the burn but a pump needs to run to move the hot water to the storage tank. The BTU output from these models ranges from 136K-170K BTU.

INDUCED DRAFT FAN →

Three VEDOLUX boiler models offer a wood gasification boiler with an induced draft fan providing the draft. These models work well with chimneys that might not have enough draft for the natural draft boiler. The control is very simple using mechanical thermostats and switches and doesn't use a computer. The BTU output from these models ranges from 100K-185K BTU.



VEDOLUX 30

VEDOLUX 37

VEDOLUX 55



VEDOLUX 350

VEDOLUX 450

VEDOLUX 650

← **LAMBDA CONTROLLED**

Three VEDOLUX boiler models showcase a wood gasification boiler with the highest levels of efficiency available to a wood burner. These models have a computerized *lambda* control that drives the boiler airflow automatically. The oxygen sensor monitors the flue gasses throughout the burn and performs draft fan air adjustments in real time to maintain an optimal burn. The BTU output from these models ranges from 120K-220K BTU.