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100% Effective Natural Hormone Treatment
Menopause, Andropause And Other Hormone Imbalances
Impair Healthy Healing In People Over The Age Of 30!

Blow Away Your Soot!

By Thomas Yoon

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A boiler that has been running for a long time is sure to have soot deposits on its tubes and furnace.

This is especially prominent in boilers using heavy fuel oil for burning. Although the fuel will be heated and filtered before combustion, it still contains a lot of impurities. The by-products of combustion as well as imperfect combustion cause the soot to form. The soot is deposited on the heating surfaces.

During the combustion of the fuel oil in a steam boiler, hot gases are formed. These hot gases are used to heat up the water in the boiler to form steam.

With the deposits of soot, a lot of the heat energy is not able to be transferred to the water, but instead is lost through the chimneystack. The soot layer acts as a heat insulator for the tubes and shells of the furnace. The heat is unable to reach the water.

This not only causes the boiler efficiency to be lowered, but a more serious problem can also occur. The soot can catch fire!

A soot fire can be detrimental to the strength of the boiler because it can cause serious localized hotspots to occur at the tubes. These localized hotspots can even reach temperatures that weaken the materials of the tubes.

Blow Away Your Soot!

Soot blowers are installed to blow away these soot deposits. Steam is normally used as a medium for blowing away the soot.

The operation of the soot blowers goes like this:

1. Steam is channeled to the soot blower pipeline.
2. The operator of the soot blower will open a drain valve to drain off any water in the steam. This is to make sure that the steam going through the soot blower is dry.
3. Once the steam is considered dry, the drain valve is shut off, and the soot blower is turned. Most soot blowers are constructed in such a way that when it is rotated, a steam

port is uncovered and steam can enter into it.

4. The steam shoots out from the soot blower tube that is inside the boiler fireside. Many small holes for the steam to emerge are drilled along the length of the tube. As the tube rotates, the position of the steam jet will also move with it. After a full rotation, all the areas around the soot blower tube should be clear of soot. (However, it depends on how thick the soot is, the speed at which the soot blower is rotated, and how efficient the soot blowing is)
5. After completing the soot blowing, the steam supply is shut off again.

The operation of the soot blower can be done manually or by remotely controlled motor drive. A motor driven soot blower will usually include some means of turning manually in case the motor fails.

The soot that is blown away from the heat transfer surfaces of the boiler will be carried together with the hot gases out through the chimneystack.

If there is a dust collector, the soot will be caught by it, otherwise it goes out to the environment as particles of carbon and ash.

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Vacuum Cleaners

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Evoking The Right Moods With Aromatherapy Candles

By Bryan Josling

For your wedding anniversary this time, you planned a lovely evening, complete with a sumptuous dinner by the candle light. Though everything went right according to your plans, it were the candles that spoiled the evening. First, the table got all dirty with burnt wax all over it. Second, the soot and smoke marred the romantic atmosphere.

The ordinary candles that we get in the market are made out of paraffin. Paraffin is a petroleum-based product and thus results in more soot and smoke when the candle is burnt. So, if you are using these candles, be prepared for the unclean burning. However, if you want to avoid these, go for aromatherapy candles.

Aromatherapy candles are made from essential oils of plants. And lighting the room is only a secondary feature of these candles; the primary use is in stimulating oneself physiologically and therapeutically. It is well known that aromas and fragrances are effective for evoking mood and emotions. So if you are looking forward to romantic evening, just use aromatherapy candles and see how your beau says just the right words.

The market place has a wide range of options for you to choose in aromatherapy candles. Choose from floating, pillars, gel, votive and jar candles. If you are free and want to do something creative then go for designing aromatherapy candles for yourself. It is easy. You must be aware of the basic preparation method and have a knowledge of essential oils. And lo! Your candle is ready.

Lavender is the most popular oil used in the preparation of these candles. Light a candle when you are taking bath. Or place a candle by the dining table. Lavender has stress relieving features and will keep you stress free for the entire day.

You have a large choice in fragrance too. Just understand the mood you want to stir up and make your

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choice. If you are suffering from sleeplessness, you can use Sage, Chamomile, and Ylang Ylang. Looking for uplifting mood, use Rosemary and Grapefruit induced aromatherapy candles. Similarly, there are candles with aromas of Eucalyptus, Geranium, Peppermint, and many more.

The wax used for preparation of the candles must preferably be natural. The soot released from paraffin candles has been associated with many diseases. Vegetable based wax like soy, palm and beeswax burn clean and for long. They release less soot.

However, while purchasing aromatherapy candles, one must be cautious. What is sold as aromatic candles may be made of synthetic wax and fragrances. These may be toxic at times. So choose the aromatherapy candles with care.

Bryan Josling is working with the Horticultural Research Station in Adelaide. He has also been involved with research on Plants. To find Aromatherapy essential oils, Aromatherapy Massage Oils, essential oils wholesale visit

<http://www.ndaroma.com>



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