

## **The Lamp Aire,** *Natural Catalytic Combustion*

### *Technical information / specifications*

In the development and production of the Lamp Aire unit, four patents were filed on the Natural Catalytic Diffusion system. The Lamp Aire units use a combination of catalytic combustion, Therapeutic formulations, non-carcinogenic wicking and low heat platinum technology.

This system is the highest quality air sterilization, surpassed only by “Clean Room technology”. By the molecular combustion of airborne pollutants and the neutralization of Electromagnetic frequencies, Natural Catalytic diffusion offers revolutionary air sterilization.

The original use of catalytic combustion technology was in the early 1800’s. It was patented for use in the sterilization of the air in hospitals and mortuaries. The effectiveness was due to the small molecular size and weight allowing the attaching and attacking of free radicals in the air for an extended period of time.

Two independent research facilities did studies showing the effects of Catalytic Combustion technology to have up to 85% bactericidal effects 30 hours after the unit operation was stopped. These effects were found using only catalytic combustion without the addition of Therapeutic formulations. By then adding the sterilization constituents of the Therapeutic formulas, the bactericidal effects were increased and the neutralization of Electromagnetic frequencies is added to the performance of the system.

The damaging effects of the Electromagnetic frequencies cause a disturbance in the Pineal gland. The Pineal gland is responsible for the production of Serotonin. When the Serotonin levels are reduced, multiple health issue ensue.

DIFFUSER BACTERICIDAL EFFECTIVENESS STUDIES  
(Catalytic Diffusion technology without the addition of  
Therapeutic Essential Oil Formulas)

Study #1 -- Lyon University (France)

	Experiment 1	Experiment 2
-1 Hour	83%	91.4%
-2 Hours	83%	91.4%
-3 Hours	76%	89.2%
-30 Hours	42%	85.7%

Protocol: Diffuser operated for 30 minutes

Notes: Bacterial reduction (%)

Time after diffuser ceased operating

Study #2 – Agro Hall  
(Independent testing agency)

Results show a 48% to 69% reduction in micro-organism in a large room.

Protocol: A diffuser was burnt for 45 minutes in a 93 cubic meter room. Aerobiocollector was used before and after to determine bacterial count in multiple locations.

## Summary

When using Catalytic combustion technology without the addition of Therapeutic-grade Essential oil formulations, the bactericidal effects are significant. The prolonged effects after turning the unit off, offer superior air sterilization efficacy for environments especially prone to continuous exposure to airborne contaminants, such as exam & waiting rooms, classrooms, hospitals, airports and public buildings.

By adding the sterilization constituents of the complex Therapeutic-grade Essential oil formulas to the Catalytic combustion technology, the bactericidal effects and the neutralization of Electromagnetic frequencies is amplified, thereby adding to the performance and specifications of the system.

**ORAC Research** (oxygen radical absorbance capacity)  
 Tufts University in Boston, Massachusetts

A test developed by the USDA researchers at Tufts University identifies the antioxidant properties (measures both time and degree of free radical inhibition)

<b>Foods</b>		<b>Essential Oils</b>	
Antioxidant capacity*		Antioxidant capacity*	
Ningxia Wolfberry	25,300	Clove	10,786,875
Blueberries	2,400	Thyme	159,590
Kale	1,770	Oregano	153,007
Strawberries	1,540	Mountain savory	113,071
Spinach	1,260	Cinnamon bark	103,448
Raspberries	1,220	Cistus	38,648
Brussel sprouts	980	Eucalyptus glabulus	24,157
Plums	949	Orange	18,898
Broccoli florets	890	Lemongrass	17,765
Beets	890	Helichrysum	17,430
Oranges	750	Ravensara	8,927
Red grapes	739	Lemon	6,125
Red bell peppers	710	Spearmint	5,398
Cherries	670	Lavender	3,669
Yellow corn	400	Rosemary CT cineole	3,309
Eggplant	390	Juniper	2,517
Carrots	210	Roman chamomile	2,446
		Sandalwood	1,655

**Life Essence** therapeutic formula **Cold, Flu and Virus Relief** contains Clove, Cinnamon bark, Eucalyptus, Lemon and Rosemary oils. All of the oils in this formula are certified therapeutic-grade based on ISO and AFNOR (Association French Normalization Organization Regulation) standards. These European standards were set up to qualify the principal constituents and chemical profiles that the therapeutic-grade oils should have.

The synergistic formulations and compounds from *Life Essence* and *Lamp Aire* have a precise and specific performance on areas of weakness and imbalance in the body. The five key groups of Essential oil compounds are Monoterpenes, Diterpenes, Phenolpropenoids, Sesquiterpenes and Triterpenes. Each has a predominant function such as antimicrobial, antibacterial or antiparasitic action.

The complex therapeutic-grade formulas compound precise actives for the improvement of overall health by fighting infection, boosting immune function and increasing the oxygenation of cells. The formulations are available in the serum compounds by **Life Essence** for topical application, inhalation and ingestion. Many of the formulations have are also available in the Catalytic Diffusion **Lamp Aire** fuels, thereby giving the same physiological and pharmacological-like effects on the body as the topical serums when the Diffusion is in operation.

## Reference:

Pattnaik S, Subramanyam VR, Kole C.

- **Antibacterial and antifungal activity of ten essential oils in vitro.**  
Microbios. 1996;86(349):237-46.  
PMID: 8893526 [PubMed - indexed for MEDLINE]
- **Antibacterial and antifungal activity of aromatic constituents of essential oils.**  
Microbios. 1997;89(358):39-46.  
MID: 9218354 [PubMed - indexed for MEDLINE]

Takarada K, Kimizuka R, Takahashi N, Honma K, Okuda K, Kato T.

- **A comparison of the antibacterial efficacies of essential oils against oral pathogens.**  
Oral Microbiol Immunol. 2004 Feb;19(1):61-4.  
PMID: 14678476 [PubMed - indexed for MEDLINE]
- **Essential oils of peppermint, orange or lemongrass kill most strains of fungal and bacterial infections.**  
PositHealthNews.1998Fall;(No17):26-7.  
PMID: 11366554 [PubMed - indexed for MEDLINE]

Mimica-Dukic N, Bozin B, Sokovic M, Mihajlovic B, Matavulj M.

- **Antimicrobial and antioxidant activities of three Mentha species essential oils.**  
Planta Med. 2003 May;69(5):413-9.  
PMID: 12802721 [PubMed - indexed for MEDLINE]

Harkenthal M, Reichling J, Geiss HK, Saller R.

- **Comparative study on the in vitro antibacterial activity of Australian tea tree oil, cajuput oil, niaouli oil, manuka oil, kanuka oil, and eucalyptus oil.**  
Pharmazie. 1999 Jun;54(6):460-3.  
PMID: 10399193 [PubMed - indexed for MEDLINE]

Karaman S, Digrak M, Ravid U, Ilcim A.

- **Antibacterial and antifungal activity of the essential oils of Thymus revolutus Celak from Turkey.**J Ethnopharmacol. 2001 Jul;76(2):183-6.  
PMID: 11390134 [PubMed - indexed for MEDLINE]

Shin S.

- **Anti-Aspergillus activities of plant essential oils and their combination effects with ketoconazole or amphotericin B.**Arch Pharm Res. 2003 May;26(5):389-93. PMID: 12785735 [PubMed - indexed for MEDLINE]