

NITROTHERMSPRAY[®]

International & USA Patent - Method and equipment

Distributed By:



Managed Air Systems LLC[®]

Integrated Sales, Installation and Service

Revolutionary

NITROTHERMJET



EUROSIDER[®]



THE **NITROTHERMSPRAY**[®] SYSTEM

1. Improves quality of less skilled painters
2. Higher DOI (Distinction of image)
3. Controlled formation of orange peel
4. Elimination of mottling
5. Increases transfer efficiency
6. Eliminates wait time between 1st and 2nd coats
7. Decreases flash times
8. Reduces overspray and rebounding paint
9. Improves colour matching in solvent and water borne paints
10. Removes surface moisture
11. 50 to 100% reduction of solvents
12. 100% control of delivery
13. Reduced application time by min. 25 - 50%
14. Reduction of outlet pressure
15. Minimum 40% increase in production
16. Change of Polarity to promote attraction
17. Reduces VOC's emissions
18. Allows the return of pure oxygen back to the environment
19. Eliminates all the major uncontrollable variables in spray painting
20. Extends life of booth filters and less booth maintenance

The **NITROTHERMSPRAY SYSTEM** by **Eurosider** has revolutionized spray painting with an innovative method that offers high quality finishing and real savings in costs. Both method and machine have USA and **international patents**.

The Eurosider system replaces the traditional fluid carrier of filtered compressed air with that of a nitrogen enriched one (up to 99,5%) that is clean, dry and ionized. Nitrogen is anhydrous, inert, and because the nitrogen produced is also ionized this system eliminates all problems associated with moisture and static electricity.

The nitrogen extracted by means of selected permeation is also free from impurities such as dust, oil, oil fumes and other chemical contaminants present in the feed air. This means that the paint does not react in any way to

the carrier as it passes through the spray gun or during application. The results had using both solvent and water borne have been revolutionary.

By heating the nitrogen we reduce the viscosity of the paint and the need for solvents. In recent tests solvent were reduced up to 50%. In fact with certain products, high solids for example, solvents were eliminated all together making it possible to reduce the number of coats of paint and varnish. This makes paint spraying easier and has proved to be decisive in accelerating flash off and evaporation times and in particular in reducing the overspray effect, where with the elimination of static electricity the paint goes further, lays down flatter, and there is less waste, a cleaner working environment and fewer contaminants in the atmosphere.

With Nitrothermspray each coat adheres to the surface being sprayed rapidly and without altering the properties of the paint. Sags, runs, drips and orange peel become a thing of the past.

This system can be used with all kinds of air compressors, paints, spray guns and in all temperatures. Where there is more than one spraybooth the distribution of nitrogen is made simple by using our **Top Spray** system.



NITROTHERMSPRAY

Example 1



Example 2



Example 3



NITROTHERMSPRAY • Static Elimination System				
Minimum nitrogen purity 95%				
Model	Air inlet pressure		Nitrogen outlet	
	bar/g	PSI	Nm ³ /h	Cuft/h
NTS J 10	6	87	6	206
	8	116	9	301
	10	145	11	399
NTS J 10 PK	6	87	8	279
	8	116	11	374
	10	145	13	466
NTS J 20	6	87	9	33
	8	116	14	487
	10	145	18	646
NTS J 20 PK	6	87	13	452
	8	116	17	604
	10	145	21	752
NTS J 30	6	87	21	752
	8	116	28	971
	10	145	35	1236
NTS J 40	6	87	19	666
	8	116	28	975
	10	145	37	1292
NTS J 60	6	87	43	1504
	8	116	55	1942
	10	145	70	2472
NTS J 80	6	87	38	1332
	8	116	55	1949
	10	145	73	2585

The above data is approximate and can vary according to fluctuations of inlet air pressure and working and ambient temperature.

Our Mission and Values

Managed Air Systems is the premier (largest and most respected) supplier of Industrial Finishing and Vehicle Refinishing equipment in the Northeast.

We have built our company around a “culture of excellence” in customer satisfaction. To do this, we have endeavored to employ the best people, represent the best products, and develop the best business reputation throughout our territory.

We believe in building long-term relationships with our customers, providing comprehensive customer support before, during, and after the sale. The customer’s best interest is always more important to us than an immediate sale. We’re not after the one-time sale. We want relationships that produce multiple sales and lasting satisfaction.

Design & Consulting

Managed Air Systems is more than a supplier of equipment to the Vehicle Refinishing and Industrial Finishing Industries. We are an equipment integrator. We provide complete solutions for our customers’ finishing needs.

Our Product Categories

Our experienced design team provides total solutions for coating applications, through Auto CAD design, mechanical and electrical services and PLC programming functions for custom and standard applications.

- * Standard & Custom Spray Booths
- * Large Vehicle Finishing Booths
- * Automotive Prep Stations
- * Powder Coating Spray Booths
- * Paint Mixing Rooms
- * Aviation Paint Spray Booths
- * Blasting Booths
- * Finishing Systems
- * Spray Booth Filters
- * Industrial Ovens
- * Truck Spray Booths
- * Pre-treatment Washers & Parts Washers
- * Open Face & Bench Paint Booths
- * Dust & Fume Extraction
- * Air Compressors & Purifications Systems
- * Solvent Recovery Systems
- * Conveyers & Material Handling Carts
- * Plural Component Fluid Delivery Systems
- * Application Equipment
- * Abatement Technology & Data Recording



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