



## INNOVATIVE SOLUTIONS FOR ALL AREAS OF YOUR FACILITY

### Frees Systems Innovations

As the leader in delivering guaranteed air quality management systems and services to the FRP Composites industries, Frees, Inc. has developed innovative systems to address the specific issues faced by FRP facilities. The **Frees Directed Air Flow System™** is a unique concept in airflow compliance management that addresses all areas of your facility through:

- Ventilation Control
- Dust Control
- Worker Comfort Control
- Emissions Control
- Process/Productivity Control

### Ventilation Control in Gel Coat, Lamination and Other Styrene Vapor-Producing Areas

The **Frees Directed Air Flow System™** insures that your plant operates safely within the strict limits required by OSHA. The hazardous styrene monomer vapors produced in the gel coat and lamination processes must be controlled. The **FDAFS** system accomplishes this more effectively, with less air, and at a lower cost than conventional ventilation systems. Frees is proud to offer the only written performance guarantee for compliance with OSHA's 50 PPM TWA limit for worker exposure to styrene. FREES uses "Third Party" verification of <50 ppm compliance in:

- Gel Coating Areas
- Lamination Areas
- Barrier Coat Areas
- Adhesives Areas

### Dust Control in Trimming and Grinding Operations

A **Dust-Free™** system can greatly improve the working conditions in what is normally a difficult, uncomfortable, and potentially hazardous work environment. It also contains much of the dust that could adversely affect the quality of nearby parts. The fiberglass particles created by trimming and grinding are contained within the grinding booth, transported away from the workers and collected for proper disposal. Our system removes the dust and returns clean air back to the workspace. The **Dust-Free™** system is a re-circulating system, which means:

- No heat loss during colder seasons.
- No EPA air permitting requirements.
- No unwanted dust migrating to sensitive areas of the plant.
- YES! Higher part quality
- YES! Higher worker productivity

### State-of-the-Art Automatic Control and Monitoring System

**Frees Direct Digital Controls** provide automatic operation of expensive makeup air systems to minimize operating costs and equipment wear and tear. These intelligent systems determine when styrene-producing activity is occurring, and insure proper ventilation levels. When an area is idle, the ventilation equipment is cycled off or reduced to minimum levels. With **Frees Directed Air Flow System™**

- Save money on natural gas and electricity
- It often takes less air to achieve the goal
- Monitor equipment and building temperatures
- Can send emails to notify of problems
- Incorporate lighting and air compressors into the system

### **Worker Comfort Control**

Recent studies have shown that high temperatures in the workplace directly affect the productivity of workers. In fact, one study showed a 45 percent decrease in worker productivity due to high workplace temperatures. More comfortable working conditions can also have a positive impact on product quality, worker absenteeism, and can reduce employee turnover. We have economical solutions to give workers in gel coat, lamination, and grinding areas, as well as product assembly and other areas a more comfortable and productive working environment. This efficient cooling can also result in:

- Higher productivity
- Higher product quality
- Lower absenteeism
- Lower employee turnover

### **Your Expert “Partner”**

Our years of experience in hundreds of marine and other composites manufacturing facilities makes us more than just a ventilation specialist. We will work with you as a partner to review your application methods, evaluate equipment and material specifications, and help solve technical challenges unique to your facility. We examine your process flow, plant layout, and work directly with your manufacturing and facilities personnel.