



## Agriculture & Process Drying



InSpire, a transpired solar collector, can reduce drying time and cut costs for drying coffee. (Coffee dryer used to reduce moisture content of harvest in Colombia)

Many industrial processes requiring high volumes of airflow and rapid turns of indoor air can benefit by improving indoor air quality while reducing the heating load of their present air handling systems. For this purpose, ATAS International manufactures InSpire, a solar air heating system. By pre-heating outside ventilation air before it enters the building, fresh air changes reduce energy consumption. This system can easily be incorporated into process drying technology.

Transpired solar air heating systems have been used in a wide variety of agricultural and industrial process drying applications including:

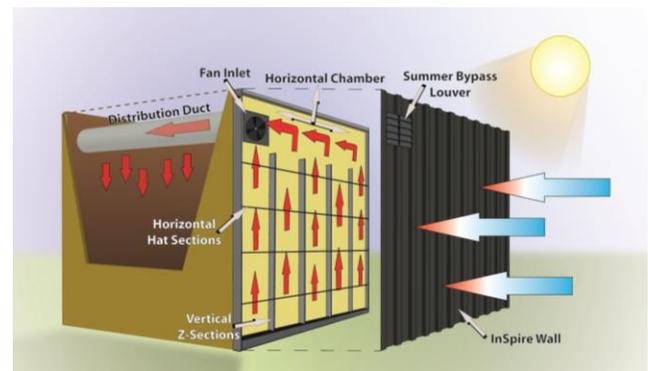
Coffee	Tea	Herbs
Spices	Flowers	Cocoa
Nuts	Fruit	Tomatoes
Wood	Corn	Compost
Peat	Manure	Grains
Coconut Coir	Soybeans	Tobacco
Scuba Equipment		

Sunlight striking the surface of the dark sheet metal panels heats the metal. Air at the panel surface is warmed and then passes through the panel into a plenum. The warmed air is then either, 1) drawn into the building thereby pre-heating outside ventilation air, or 2) ducted to a process dryer.



InSpire is used for drying scuba equipment at the Kirby Morgan Dive Center, Santa Maria, CA

InSpire is remarkably adaptable and can be designed for use with any building requiring heating and/or ventilation. Every job is custom-engineered based on building type and project site criteria. High-performance computer modeling software is used to produce a site-specific plan. As a result, the system can be designed as either an entire wall or a modular unit. As a modular, it can be roof-mounted, ground-mounted, or wall-mounted. As a wall system, InSpire is a structural panel installed overtop of any water resistive barrier that also meets the minimum fire safety requirements for commercial duct construction



With InSpire you can:

- ✓ Lower energy consumption
- ✓ Reduce dependency on propane or other sources of energy
- ✓ Produce a strong return on investment with a short payback period.

