

## HEAT TREATMENTS...THE FUTURE OF PEST MANAGEMENT

**Mimoun Abaraw\***

**Temp-Air Division of Rupp Industries, inc.**

The process of using heat as a method of controlling pests is not new. Heat treatments were introduced in the United States as early as 1911 but chemicals have experienced more popularity through the years. Heat is an excellent alternative to chemicals... it is non-toxic and has been proven to be very effective.

### **Heat treatments offer a variety of benefits for insect and pest elimination:**

- It controls the entire insect life cycle from eggs to adult bugs
- Heat leaves no damaging residue on equipment or machinery
- Heat reduces set-up and clean up time
- Since heat is no threat to humans, sections of a facility can continue to operate while a treatment is occurring in another part of the same building
- Overhead costs are also decreased because no additional insurance is required, added security is not needed, and local authorities do not need to be contacted
- Heat may also diminish the frequency of plant shutdowns
- Heat is universally available and acceptable

### **TEMP-AIR's patented heat treatment process\*:**

From beetles (red flour, cigarette confused red) to the Indian moth, TEMP-AIR's patented heat treatment process is an extremely effective means of controlling pests. TEMP-AIR's process uses 100% outside air. This method creates positive pressure and allows for a more even distribution of air throughout the facility than using re-circulating heat. The process generates four to six air changes each hour, pushing hot air into corners, cracks and crevices ...making it virtually impossible for pests to hide anywhere in the facility.

\* Patent No. 6,141,901

### **The TEMP-AIR process is extremely effective.**

TEMP-AIR's process brings the temperature of the treated area up to 130° and maintains that temperature for the period of time required for the specific type of pests that are being treated. Heaters are placed outside the building or in such a manner that outside air is drawn across the heat source. Ductwork and fans are used to control the flow of air and maintain a constant temperature throughout the heated space including hard to reach areas.

The temperature in the treatment area is brought up to approximately 10 degrees F per hour in order to preserve the structural integrity of the building. After the treatment area's temperature has been maintained for the specified time, the heaters are shut off but the blowers remain on to gradually cool down the facility.

On a regular basis during the heat treatment, TEMP-AIR's professional service technicians walk the facility monitoring the temperature. Wireless sensors are also placed throughout the treatment area. By using both of these monitoring methods, service technicians can keep the temperatures constant throughout the entire treatment area and be sure that there are no cool spots for pests to hide.

### **TEMP-AIR has the right equipment for every job.**

TEMP-AIR has the largest and most versatile fleet of temporary heating equipment in the country. Heaters range from 60,000 to 4.5 million BTUs with air delivery from 450 to 25,000 CFM. No matter what size job you have, TEMP-AIR has the perfect combination of equipment for your facility. TEMP-AIR also has the capability to use a variety of different fuels - propane, natural gas, electricity, steam or hot water, which allows TEMP-AIR to customize a treatment application to the space being heated.

For Your next treatment, turn up the heat with the TEMP-AIR advantage:

- Over 35 years of extensive experience in the temporary heating industry
- Choice of energy options including natural gas, propane, steam, hot-water and electric
- The largest range of heater capabilities - from 60,000 (450 CFM) to 4.5 million (25,000 CFM) BTUs/Hr
- Accurate estimating and calculation of heat loss
- Equipment delivery, set-up, start-up and tear-down
- 24-hour, on-site job supervision by trained service technicians
- Hourly inspections of equipment and temperatures inside the treatment area
- 12 regional offices providing excellent service throughout North America

**Want more information? Call us at 1-800-836-7432**