



New England Edition

**HVAC**  
& REFRIGERATION

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## E.W. Leonard and Robur Corp. Provide a Green HVAC Solution in NH

New Horizons for NH homeless Shelter Rescued

New Horizons for New Hampshire, a homeless shelter serving greater Manchester needed innovative answer to solving their heating and cooling needs. The shelter never had air conditioning, and the need for a green solution was never greater. They serve over

900 people per year at their facility.

The impetus for seeking a new HVAC system was a desire to cut heating costs and provide air conditioning for this non-profit organization. The load requirements are 600,000

Btus heating and 25 tons of cooling.

Clark Peters of E.W. Leonard, manufacturers' rep company and Jeff LaPointe of wholesale distributor F.W. Webb put together the specifications for the equipment

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### New Horizons for NH homeless Shelter Rescued



Paradigm Job Crew



Chris Noble, left, of Paradigm Plumbing & Heating, General Contractor and Fabio Spreafico of Robur Industries.



The 5 solar panels on the roof help replace the entire heating and hot water distribution system.

installed. The equipment list includes 5 Robur heat pumps; 2 Imperial HRVs; 3 Myson hot water/chiller fan coil units; First Company air handlers for large spaces; a thermal mass tank and 2 back-up Rinnai wall hung units along with 2 storage tanks.

The project is a \$249,000 makeover that replaces an antiquated oil burning system with one that is estimated to be 40% more efficient. The natural gas and solar sources use five solar panels and a collector system with 240 gallons of potential hot water storage. The old system used an outdated oil fired steam boiler connected to steam heating units. The entire heating and



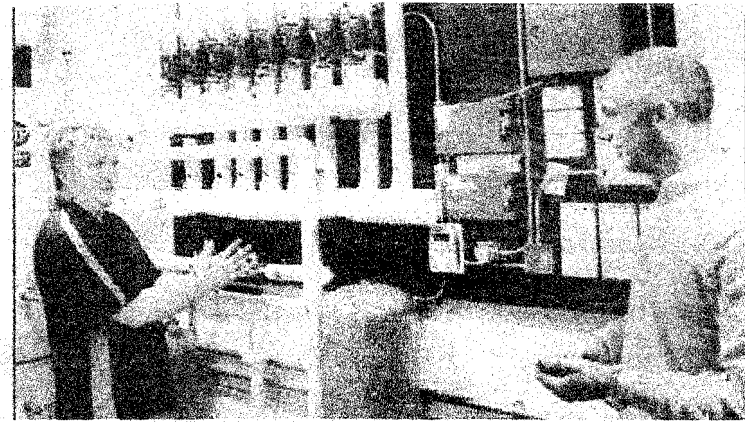
hot water energy distribution system is fueled by solar and natural gas. Eighty percent of the ductwork is new, although existing ducts were utilized where possible.

The ROBUR Gas Absorption Heat Pumps are also GREEN units because emissions are reduced by 9,300 pounds of CO<sub>2</sub>, which is equivalent to those absorbed by 599 trees or to those produced by 2 green cars.

Gas Absorption Heat Pumps combine the advantages of the two most common heating technologies: gas boilers and

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Jeff Lapoint, left, of F.W. Webb Co., general contractor, and Fabio Spreafico, of manufacturer Robur Industries, discuss the operation of the new, high-efficiency system at New Horizons that eliminates the use of oil.

electric heat pumps. They offer all the advantages of boilers because: they are fired by natural or propane gas; they don't use any refrigerants harmful to the environment and they are easy to install. They also offer all the advantages of electric heat pumps because they use renewable energy, such as air, ground and water; they can supply chilled water for cooling in summer and hot water for heating in the winter (reversible type) and they are suitable for outdoor installation and they don't need mechanical room (air-source).

The operating principle is similar to traditional electric heat pumps. The main differences are the use of a gas burner instead of an electric compressor and the use of a water-ammonia solution instead of a refrigerant harmful to the environment, as is the case of most electric heat pumps.

Robur Corporation was founded in 1991 by the Robur Group, a leading Italian Manufacturer of advanced heating and cooling technologies sold throughout Europe since 1956. This step insured Robur of future growth

opportunities along with a distribution channel for its European products throughout the North American market. At their facility located in Evansville, Indiana, Robur Corporation manufactures and distributes high energy efficient and low environmental impact natural gas operated heating, air conditioning and refrigeration systems.

In addition to the Robur equipment, E.W. Leonard also supplied three Imperial Heat Recovery Ventilators to the New Horizons project. Imperial Manufacturing Group's remarkable story began with an entre-

preneur named Normand Caisie and four workers in 1979 toiling in a 6,400-square-foot sheet metal shop in the small Atlantic Canadian community of Richibucto, New Brunswick. Imperial has become a world class manufacturer of more than 7,000 heating, air conditioning, ventilation and building products for residential and light commercial applications. It has 530 employees working in 500,000 square feet of manufacturing and warehouse space spread in facilities across North America. It is an acknowledged innovator in the design and

production of indoor air quality equipment for North American heating, ventilation and air conditioning industry.

Throughout the years, IMG has acquired and absorbed 17 companies and now operates 10 diversified divisions. The company's facilities are located in New Brunswick, Nova Scotia, Ontario, Quebec, and the United States.

E.W. Leonard is a manufacturers' representative company that provides a large array of energy efficient and green products. Their staff of experienced salesmen is there to assist putting the whole job together, large or small. Visit their web site at [www.ewleonard.com](http://www.ewleonard.com). ■