DIRECT CONTACT WATER HEATER

Percomax[™]



CONDENSING STACK ECONOMIZER

Percotherm[™]



SACRÉ-COEUR HOSPITAL, MONTRÉAL Installed in 1992, still fully functional Annual Savings in 1999: \$298,000

MONTOIR DE BRETAGNE Emissions reduction of 40,000 Tons/year Energy recovery of 60 MW





MAISONNEUVE-ROSEMONT HOSPITAL Actualized payback in 2006 = 7 months Actualized saving in 2006 = 253,453 \$/year

NEUFCHÂTEL PROFESSIONAL TRAINING CENTRE Payback 2,4 years; Global System Efficiency between 94% and 97%



WATER HEATER AND STACK ECONOMIZER COMBINED

Hybrid Percomtherm[™]

DIRECT-CONTACT, condensing stack economizer which is equipped with an integral, fully modulating burner. Therefore, the HYBRID provides boiler flue gas heat recovery from existing boilers, and also supplies its own heat source to completely satisfy process hot water demand. Hot water is produced at temperatures as high as 185°F (85°C), when the HYBRID is natural gas fired.

Available in capacities up to 50 million BTU/hr and for connected boilers up to 100,000 lb steam/hr

natural gas burner

HIGH EFFICIENCY WATER HEATER FOR SPACE HEATING

UHE Percomax[™]

An Ultra High Efficiency water heater composed of a **PERCOMAX DIRECT**-**CONTACT** water heater and a WATER **VAPOR PUMP.** This arrangement results in an appliance which will operate at high efficiencies (94%) even when used for space heating requirements, where return water temperatures are as high as 150°F (66°C). Hot water is produced at temperatures as high as 190°F (88°C).

Available in capacities up to 50 million BTU/hr









Sofame: A Responsible Investment in Sustainability

Reduce Fuel Consumption By Up To 30% Reduce Green House Gas Emissions Reduce Maintenance Service and Insurance Costs

APPLICATIONS

- Domestic water heating
- Hydronic (space) heating
- Fresh air heating
- Boiler make-up water pre-heating

PROJECTS

- Industrial, commercial and institutional
- AIRPORTS: Montreal International Airport, Edmonton Airport, Winnipeg Airport
- UNIVERSITIES: Toronto. British Columbia. Concordia in Montreal
- FOOD PLANTS: Parmalat, Fleishman, Maple Lodge Farms
- TEXTILES: Cookshire Tex
- HOSPITALS: Sacre-Coeur, Jewish General, Maisonneuve-Rosemont
- MINES: Xstrata Brunswick
- POWER PLANTS: Central Heat, Montoir de Bretagne
- PAPER MILLS: Cascades

TECHNICAL ADVANTAGES

- Increase of up to 30% in fuel efficiency
- Reduction of green house gas emissions ($CO_2 \& NO_x$)
- Rapid return on investment (18-36 months)
- Maximum efficiencies: close between 95% and 99% (based on HHV)
- Minimum maintenance
- No supervision required (unit is not classed as pressure vessel)
- Rapid unit start-up (instantaneous hot water production)
- Outdoor installations possible (reduction of insurance costs)
- Entirely fabricated of high grade stainless steel



DIRECT CONTACT WASTE HEAT RECOVERY

"The cheapest energy or fuel will always be what you don't consume"

AWARDS

- **2007** ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers) Technology Award
- **2005** ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers) Technology Award
- Achievement Award
- **2004** ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers) Technology Award
- **2003** Quebec Association of Energy Control, Energia Price
- **2000** Quebec Association of Energy Control, First Prize, Product Supplier
- **2000** Canada Energy, Efficiency Award
- **1999** ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers) Technology Award

LEED CERTIFICATIONS

Polytechnique of Montreal, Lassonde Pavilion LEED Gold Certification. 1st institution in Canada to obtain international LEED. Reduction of CO₂ emissions equivalent to 20,000 cars a year

Concordia University, Loyola Pavilion, LEED Certified, Sofame's Hybrid Percotherm installed allows reduction by 16% of natural gas consumption and reductions of also 16% of GHG emissions

Sofame Technologies Inc. TOLL-FREE 1-877-906-2487

500 Alphonse D. Roy Montreal, Quebec Canada, H1W 3Y8

Gain points for innovation in design towards LEED certification

-Luc Mandeville, co-founder Sofame Technologies Inc.

2004 Quebec's Hospitals Association and Quebec's Energy Efficiency Agency

TEL: 514-523-6545 FAX: 514-524-6183 sofame@sofame.com

A Publicly Listed Company TSX: SDW - USA: SFMGF

www.sofame.com





