

SAURUS HEATER / DRYER

INDIRECT - FIRED "MODEL 800" Specifications

Output*	800,000 BTU/ Hr
Blower*	11,000 CFM @ 1/2"SP
Fuel	NG & LPG or Oil
Efficiency	82% NG 85% LPG
Fuel Consumption**	800 CU. Ft NG/hr Max @ 5 - 100 PSI (typical 600 CU. Ft NG/hr) 8.8 Gal LPG/hr Max (typical 24 Litres LPG/hr) 5.8 Gal Oil/hr Max (typical 18 Litres Oil/hr)
Inlet Duct Size	2 X 24"
Outlet Duct Size	2 X 24"
Electrical***	40 Amp Breaker, 230 V single phase Optional 30 Amp Breaker, 208 V 3 phase
Dimensions	53"W X 72" L X 90"H.
Approx. Weight	1,800 lbs (820 KGs)
Preset Duct Temp Limit	Adjustable to 175 F (80 C)
Preset Upper Limit	240 F (115 C)
Preset Lower Limit	200 F (93 C)

* Measured at the end of Hot Air Duct

** Consumption will decrease as return air temperature rises and burner is cycled off.

Max consumption figures bases on continuous firing, followed by (typical operating values).

*** Single phase starting current typically 120 Amps, continuous running 23 Amps.



24" DUCT

DIFFUSER 24" t0 3 X 12"



REMOTE THERMOSTAT



DUCT
25' X 24"

DUCT
25' X 24"

26"



Lifting Eyes

FORKLIFT POCKETS



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DISTRIBUTION, SALES & SERVICE

SAURUS HEATERS INC.
1-888-215-1335

APPLICATION SUMMARY

LARGE BUILDINGS: Typical size 20,000 to 60,000 SQ.FT. per Model 800



Warehouse: 22,000 SQ. FT. 25 FT Ceiling
550,000 Cubic FT. (1 heater)

Warehouse: 550,000 SQ. FT. 28 FT Ceiling
9.8 Million Cubic FT. (6 heaters)

GROUND THAW: Typical size 10,000 SQ. FT. per Model 800



24,000 SQ. FT.
3 ' to 4' of Frost in 12 to 14 days (2 heaters)



TRENCH
200' X 10'W X 6'D
3' of Frost in 4 days

Heater in middle
1 Supply 1 Return
each way



SPECIAL PROJECTS:



Underground 45,000 SQ. FT. (1 heater)



45,000 SQ FT X 6 Floors + Underground
No-vented with CO monitoring (7 heaters)

Make / Model	Published				Total Fuel LPG/Hr	Replacement Factor
	BTU*1000	°F	CFM*1000	LPG/Hr		
Saurus 800	800 *	175	11	24	24	1
ICE OHV 350	350	220	2.5	11	55	5
ICE OHV 500	450	220	3.0	14	56	4
ICE OHV 700	630	220	4.3	23	69	3
Wacker Cub 700	576	200	7.7	23	69	3
Thermobile IMAC 2000	630	167	6.5	23	69	3
DryAir Boiler 1.2 M	900		5.0**	46	92	2
SureFlame 1 M			5.0	45	180	4

SAURUS 800
PROVEN FUEL
REDUCTION



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* Delivered heat measured at the end of 50' of duct. ** Air flow depends on number of air units.



City of Calgary Water Centre: 160 M long by 20M wide
 One 800 NG replaced 6 MBTU per hour direct fired heaters;
 - improved efficiency reduced operating costs, add to LEEDS design.
 - improved air quality, quiet operation and constant temperature.
 - No contamination of drywall, paint or concrete.

Large air mover used to circulate heat back to return air inlet

Grey Eagle Casino in Calgary: 187,000 Sq. Ft.

Replaced 16 MBTU per hour direct fire heaters with two 800 Saurus LPG.

- Improved air quality, dryer with no combustion odor. No contamination of concrete.
- Operating cost reduction by recycling air with thermostatically controlled temperature.
- Propane consumption reduced from 3,500 to 850 litres LPG per day.
plus fewer generators and related diesel fuel.



North West Saurus 800 LPG



@ Rear

Front View



South East Saurus 800 LPG



**DAWSON
WALLACE**
CONSTRUCTION LTD.



Warehouse Application 350,000 SQ FT_ 28 FT Ceiling
9.8 Million Cubic FT.



Quantity 6 Model 800 Propane



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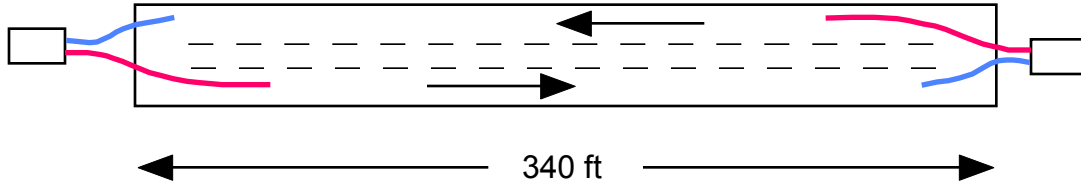
Trench Ground Thaw and Cement Curing

Heaters at each end push and pull air to recycle and heat.

1. Make tunnel on bottom of trench and ground thaw.
2. Install footings and forms and cover with hoarding and heat.
3. Pour concrete and cover with heat for curing.

Unit 1: 800 Propane

Unit 2: 800 Propane



Ground Thaw Home Depot Warehouse Loading Dock

One 800 Natural Gas Heater, 4 fans in 200' X 10' X 6' trench for loading dock.
One hot duct and one return out each way. Fan shown to move heat along the bottom. In 4 days 3 feet of frost was removed. One extra day for good measure.



School Native Soil Ground Thaw

In February 2009, 5 school projects used our heaters to thaw native soil. The sizes were 19,000 to 24,000 sq. ft. at a time. This is the typical hoarding done with a heater at the front and one at the back. One 25KW generator was used which also powered 4- 42 inch fans. Thawing occurred with 12° to 15° C air circulated above the ground. Day time high temperatures ranged from - 20°C to -10°C. Frost from 3' to 4' feet was removed in 12 to 14 days.

Advantages over boilers;

- 4 hour set up time instead of days with hoses and tarps.
- The trades continued to work in side a warm space. No accumulation of mud.
- Less than 1/2 the fuel of a boiler.
- No hidden maintenance or support costs.



Underground Parking Garage



800 Natural Gas

27,000 SQ. Ft. Replaced 2- 1M direct fire

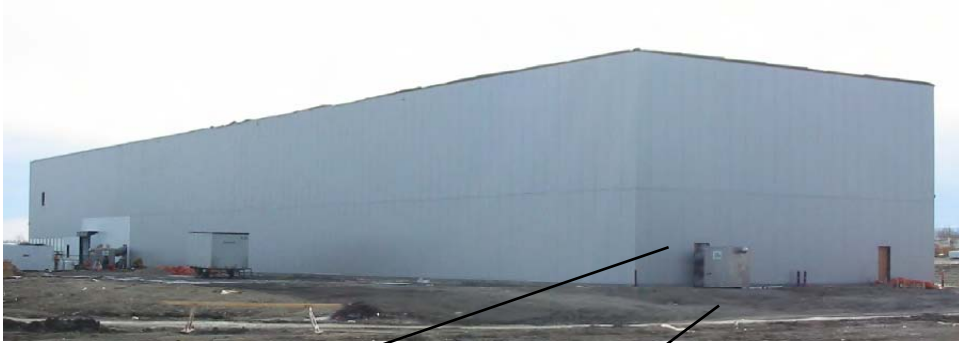


800 Natural Gas

45,000 SQ. Ft. Replaced 2- Almund Brothers and Glycol system

U of C Library Storage

This long and narrow, 22,000 sq. ft. building required 2 Model 800 gas units at the beginning of the project and reduced to one unit as the building closed in.

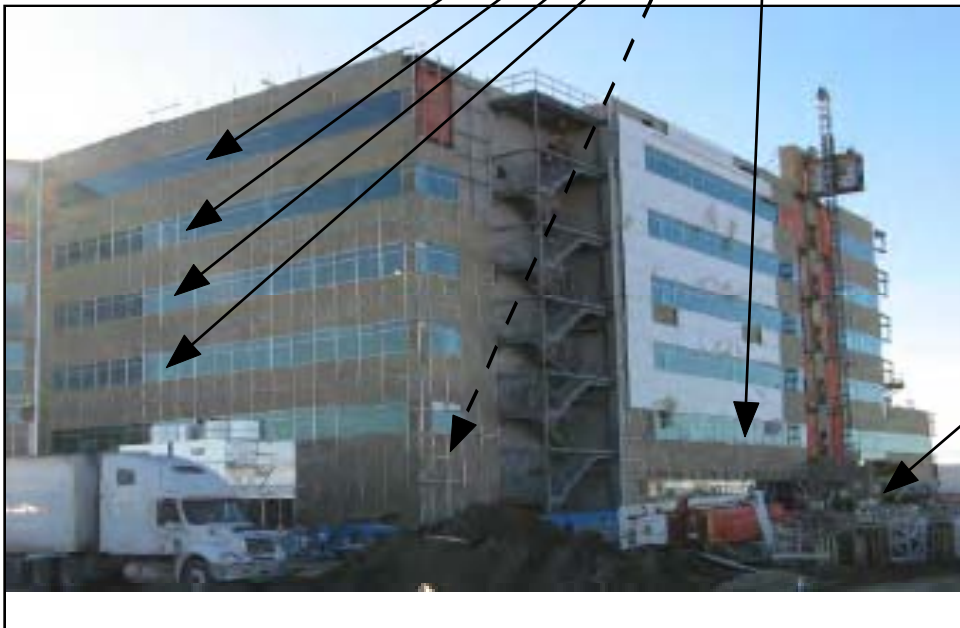


Calgary Westjet Office

Non Vented Application with CO monitoring



Office complex with 6 stories and underground facilities and parking. The underground used 1 Model 800, the main floor 2 and 1 unit for each floor, 2 through 6. The foot print is 45,000 sq.ft. per floor.



Suncor Community Leisure Centre Fort McMurray, Alberta

Water park section of the facility:

The area heated was the entire water park using 5 Model 800 Saurus Heaters, operating on 15 PSI NG. The special masonry, tile and adhesives required temperatures up to 15°C at pool level while outdoor temperatures ranged from -25° to -50°C. The temperature was -52°C on the day of the pictures, December 15, 2009.

Heat was moved along the ceiling and ceiling fans used to direct heat down to floor level. Specific ducts were used to direct heat below floor level. Return ducts also pulled cool air up from the lowest levels.

