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# CONSTRUCTION HEATING SOLUTIONS

LINCOLN PARK 2520

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CASE  
STUDY



# Exclusive Heat Technology Eases Winter Construction in the Windy City

Walsh Construction Company wasn't about to let the coldest, meanest winter in recent history derail the build-out schedule for Lincoln Park 2520, a luxury condominium project on Chicago's near north side. But permanent HVAC building systems would not be operational until spring, so Walsh would have to rely on temporary heating.

The standard solution for temporary construction heating involves placing direct-fired, open-flame heaters on each floor of a building and moving them around as needed. Unfortunately, this often results

in spotty temperature control, poor air quality, high humidity and a slew of safety problems, as tradesman must maneuver themselves and building materials around both the heaters and the high-pressure fuel hoses routed throughout the building.

Walsh Construction Superintendent Jon Olsen was determined to develop a better heating plan, one that would eliminate these obstacles while enabling his team to keep building throughout the winter.

So he called Mobile Air.

## The Super-Secret Solution

Drawing on past experience with projects of similar scope, Mobile Air worked with Walsh Construction to develop a new approach using the company's exclusive, patent-pending SSF technology.

"Our SSF – aka Super-Secret Flame – heaters are changing the face of temporary construction heating, especially for larger footprints and multistory buildings," says Ryan Boyle, Mobile Air, General Manager - Illinois office. "These heaters can be located inside or outside of a building, completely out of the way of construction activities. Either way, they provide near-permanent building IAQ during even the most extreme construction conditions."

In the case of Lincoln Park 2520, just four SSF heating systems did the work of 40 "old-school heaters". SSF heaters controlled dry heat distribution for each condo (and selected general areas), nullifying uneven heat zones on each floor and from floor to floor. Tradesmen and materials enjoyed even temperatures throughout the building as well as low humidity and safe setup from an IAQ and equipment location standpoint.

"SSF is brand-new technology specifically designed and built to handle these kinds of tasks," says Boyle. "Standard construction heaters with propeller fans or

squirrel cage fans are not engineered to perform at this level with the combination of new technology."

Walsh Construction's Olsen is a big proponent of the new technology – and Mobile Air. "I know what happens when other companies spread old-style unit heaters throughout the floors," he says. "Cold spots, high humidity problems and additional labor costs as units have to moved continuously as the project progresses. Mobile Air's ability to work with our team to develop a plan for even heat distribution throughout all floors enabled us to meet our finish schedule obligations without any worries about timing or product warranties.

"I've worked with Ryan on several projects over the last 10 years, each about one million sq. ft. in size. All these projects were unique in the way temporary heat was provided – and all worked flawlessly. No system is complete without a dependable service staff and the Mobile Air staff is highly competent and prompt regardless of what time, weekday or holiday, might be required. They truly have become part of the team at Walsh.

"Working closely with Mobile Air for winter temporary season heating is the only way to go."

## About Lincoln Park 2520

Designed by renowned architect Lucien Lagrange, this illustrious new landmark in the historic Lincoln Park neighborhood displays a European flair rooted in the heritage of Lagrange's native France. Each of the 39 unique floor plans – from 960 sq. ft. one-bedroom homes to five-bedroom models with up to 8,310 sq. ft. of living space – represent the quintessence of gracious living with a contemporary panache. The development boasts every convenience of modern technology along with sustainable design. Lincoln Park 2520 is a “green building” that incorporates strategies to use fewer natural resources, require less energy, save money and create environments that protect human health.



## About Walsh Construction Company

This Chicago-based general contracting, construction management and design-build firm dates back to 1898 and is currently in its 4th generation of family leadership. The firm possesses experience in a variety of building, civil and transportation sectors, including wastewater and water treatment plants, rapid transit, highway and bridgework, educational facilities, warehouses, distribution facilities, athletic facilities, correctional facilities, offices, design-build

projects and more. Recognized by Crain's Chicago Business as the largest construction firm in Chicago and named one of the nation's top 15 contractors by Engineering News Record (ENR), The Walsh Group has invested more than \$450 million in capital equipment and regularly employs more than 5,000 engineers and tradesmen. The company uses union labor and union subcontractors, and maintains regional offices across North America.

# Super Secret Flame

## 220 VOLT / 460 VOLT



TECHNICAL SPECIFICATIONS		RT-SSF-1501-12	RT-SSF-1501-32	RT-SSF-1501-34	RT-SSF-4001-32	RT-SSF-4001-34
Electronic Features	Thermostat Control	Programmable - Low/High/Off	Programmable - Low/High/Off	Programmable - Low/High/Off	Programmable - Low/High/Off	Programmable - Low/High/Off
Heating Capacity	BTUs per Hour	1,500,000 Hi-Fire 550,000 Lo-Fire	1,500,000 Hi-Fire 550,000 Lo-Fire	1,500,000 Hi-Fire 550,000 Lo-Fire	2,500,000 Hi-Fire* 580,000 Lo-Fire*	2,500,000 Hi-Fire* 580,000 Lo-Fire*
Electrical Characteristics	Voltage Requirement	1 Phase, 208-240 V	3 Phase, 208-240 V	3 Phase, 460 V	3 Phase, 208-240 V	3 Phase, 460 V
	Current Consumption	23 amps	13.5 amps	6.2 amps	23 - 26 amps	12 amps
	Recommended Fuse Size	30 amps	20 amps	15 amps	30 amps	20 amps
	NEMA Plug Configuration	N/A Fused Disconnect	N/A Fused Disconnect	N/A Fused Disconnect	N/A Fused Disconnect	N/A Fused Disconnect
	Min. - Max. Voltage	195 - 250	195 - 250	415 - 500	195 - 250	415 - 500
Power Cord	Gauge Length	Customer Provided	Customer Provided	Customer Provided	Customer Provided	Customer Provided
Air Flow	CFM	8,500	8,500	8,500	15,500	15,500
	Fan Type	Backward Inclined Blower	Backward Inclined Blower	Backward Inclined Blower	Backward Inclined Blower	Backward Inclined Blower
	Max. External Static Pressure	1.25" ESP / 20" Round Collar	1.25" ESP / 20" Round Collar	1.25" ESP / 20" Round Collar	2.0" ESP / 30" Round Collar	2.0" ESP / 30" Round Collar
Fuel	Type	Propane/NG	Propane/NG	Propane/NG	Propane/NG	Propane/NG
	Propane Consumption	6.0 GPH Lo-Fire / 16.4 GPH Hi-Fire	6.0 GPH Lo-Fire / 16.4 GPH Hi-Fire	6.0 GPH Lo-Fire / 16.4 GPH Hi-Fire	6.4 GPH Lo-Fire / 27.5 GPH Hi-Fire	6.4 GPH Lo-Fire / 27.5 GPH Hi-Fire
	Natural Gas Consumption	550 CFH Lo-Fire / 1,500 CFH Hi-Fire	550 CFH Lo-Fire / 1,500 CFH Hi-Fire	550 CFH Lo-Fire / 1,500 CFH Hi-Fire	580 CFH Lo-Fire / 2,500 CFH Hi-Fire	580 CFH Lo-Fire / 2,500 CFH Hi-Fire
Gas Connection	Type	1-1/4" NPT	1-1/4" NPT	1-1/4" NPT	1-1/4" NPT ( 1 - 3 Inlets)	1-1/4" NPT ( 1 - 3 Inlets)
Safety Controls	Air Proving Safety	•	•	•	•	•
	Flame Sensing Safety	•	•	•	•	•
	Burner High Limit Safety	•	•	•	•	•
	Low Gas Pressure/ CO Safety	•	•	•	•	•
	High Gas Pressure/ Burner High Output Safety				•	•
	High Discharge Temperature Safety	• (2012)	• (2012)	• (2012)	•	•
High Pressure Regulator	Pressure Range	2 - 10 lbs.	2 - 10 lbs.	2 - 10 lbs.	2 - 10 lbs.	2 - 10 lbs.
Dimensions	W x D x H	10'-2" x 4'-4" x 5'-3" [SSF-1500]	10'-2" x 4'-4" x 5'-3" [SSF-1500]	10'-2" x 4'-4" x 5'-3" [SSF-1500]	10'-6" x 5'-10" x 6'-1" [SSF-4000]	10'-6" x 5'-10" x 6'-1" [SSF-4000]
		8'-4" x 4'-4" x 5'-2" [SSF-1501]	8'-4" x 4'-4" x 5'-2" [SSF-1501]	8'-4" x 4'-4" x 5'-2" [SSF-1501]	12'-2" x 5'-8" x 6'-1" [SSF-4001]	12'-2" x 5'-8" x 6'-1" [SSF-4001]
Net Weight		1340 lbs.	1340 lbs.	1340 lbs.	2,900 lbs.	2,900 lbs.

\* Modulating 2012 & Forward

PATENT PENDING TECHNOLOGY.

Dedicated electric service strongly recommended.  
Customer to provide delay on break motor rated fuses.  
Or if circuit breaker used, 30-65 AIC recommended.

Proudly serving Michigan, Ohio, Indiana, Illinois, Kentucky, Wisconsin, Pennsylvania.

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