

## New York City Five Boroughs Apartment Dwellers . . .

### Flexmaster® and Radiator Labs Offer Solution to Uncomfortable Heating Situation

—by Tom Dmytriw March 2014

Located in New York City, Radiator Labs and Flexmaster® recently teamed and designed a revolutionary new heating technology that will efficiently heat large apartment buildings.

**Marshall Cox, founder and CEO of Radiator Labs, commented that: “Radiator Labs are converting those old cast-iron radiators, the norm decades ago, into precision heating machines.”**

Locating a flex duct that would provide both the quality and reliability indispensable to the project was a time intensive task but successfully accomplished when Radiator Labs approached Flexmaster®, a division of the Novaflex Group. Flexmaster® flex duct, manufactured both in Canada and the United States, is unique to the industry. This duct has a mechanically-locked helix rather than the encapsulated flex duct offered by other flex manufacturers.

The Flexmaster® flex duct selected by Radiator Labs is vital to this system. *Flexmaster Fabriflex 8* has the aforementioned mechanically-locked helix, as



well as a Chlorinated Polyethylene (CPE) inner core that boasts the best pressure rates in the industry. Cox stated that: “The mechanically-locked helix manufactured by Flexmaster was exactly what I was looking for. We were looking for a good, economic flex that could survive the steam radiator environment. Antimicrobial, great temperature resistance, and low cost made it a perfect match for our application needs.”

The design behind this application is actually quite a simple idea. Radiator Labs have developed a



controllable box that is retrofitted to the radiators which helps boost the efficiency of hot water and steam systems. This design utilizes an insulating radiator enclosure with control systems that allows heat transfer to be turned on and off by individual tenants rather than depending on a landlord's whim of heating an entire building with one thermostat, which often results in forcing people to open windows in the dead of winter. According to the NY State Energy Research and Development Authority, this leads to a 15-30% loss of heat due to the overheating of steam buildings.

Cox further explained that: "The flex is used in our radiator enclosures. We attach it to fans to push air into the top of our thermostatic radiator enclosures. This allows us to control heat transfer from radiators to rooms. Radiators are a bit of a necessary evil in the world of city housing and are ripe with inefficiencies. Radiator Labs can now provide a way to control the heat to individual rental units. Finding

that solution is what Radiator Labs is all about." Radiator Labs has painstakingly been honing this design for the better part of two years, and they are now extremely close to it coming to fruition. When asked when they will be ready to offer their system commercially, Cox revealed that: "We hope everything will be available for Spring 2014." Their initial plans will focus on New York City's five boroughs and from there, the sky is the limit. "We will expand into New England, concentrating on the large, old cities, hopefully by 2015. From there, we hope to expand into Europe." Cox explained. Apartment dwellers living in the five boroughs of New York City, have patience; the solution for your uncomfortable heating situation will soon be remedied thanks to the joint efforts of Flexmaster® and Radiator Labs.



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