

ORANGE TEAM PRODUCT CONTRACT

Product Description: After-market home heating distribution system that automatically controls hot or cold air flow to a room.

Intended Customers: Homeowners (also apartment-dwellers who experience uneven room control, contractors, and landlords).

Market: HVAC retrofits.

Need	Attribute	Engineering Specifications			Owner
		Metric	Unit	Value	
Maintain uniform room temperature	Temperature Control	temperature precision	degrees F	less than .5	Electrical/Software
Reduce need for manual flow control		scheduling ability	binary	yes/no	Software
Improve efficiency of heating system	Energy Savings	energy saved	percent	more than 10%	Electrical/Software; Product Integration
Recover capital cost of system in two heating seasons		cost of one home's entire system	dollars	less than \$400	Product Integration
Easy to use	Customer Usability	time to set temperature	seconds	less than 10	User Experience
Minimize configuration time		time to configure and add new systems	minutes	less than 5	Software; Product Integration
Unobtrusive	Aesthetics	time to spot	seconds	more than 10	Mechanical
Minimize noise disruption		operating sound	decibel	less than 30	Electrical
Easy for average homeowner to install	Ease of install	accordance with building codes	binary	yes/no	User Experience
Quick for average homeowner to install		time to install	minutes	less than 10 per component	User Experience
Simple for average homeowner to install		availability of tools in average house	binary	yes/no	User Experience