

Modulating Equipment

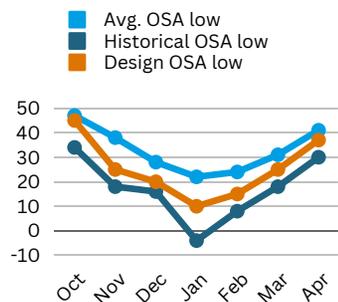
How real-time data can reduce energy consumption of temporary climate control during construction

Scenario: Boston winter heat for a 6-story building - October thru April

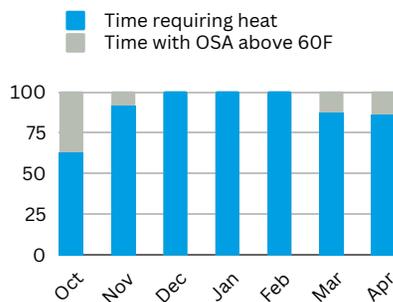
Estimated building load and delivered heat

	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Building Load (BTU/hr)	418,846	977,307	1,116,922	1,396,153	1,256,537	977,307	642,230
Floors treated	2	4	6	6	6	6	6
Heater count	1	2	3	6	5	3	3
Delivered temperature (F)	118	98	93	83	88	98	110

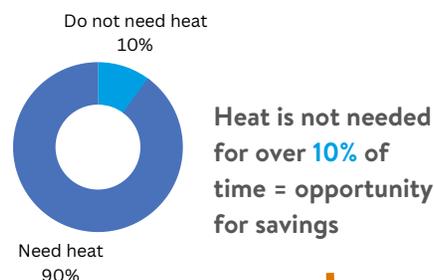
Outside temperatures (degrees F)



% Time requiring heat by month



% Time requiring heat - Total project



Estimated energy usage and costs*: 100% run time v Modulated (propane)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total	Variance	%
Operating hours	744	720	744	744	672	744	720	5088		
Propane Usage (gal)	8,184	15,840	24,552	49,104	36,960	24,552	23,760	182,952		
Propane Usage cost	\$22,506	\$43,560	\$67,518	\$135,036	\$101,640	\$67,518	\$65,340	\$503,118		
Operating hours Modulated	466.6	655.6	744	744	672	645.1	617.7	4545	543	10.7%
Propane Usage (gal) Modulated	5,133	14,423	24,552	49,104	36,960	21,288	20,384	171,844	11,108	6.1%
Propane Usage cost Modulated	\$14,115	\$39,664	\$67,518	\$135,036	\$101,640	\$58,543	\$56,056	\$472,572	\$30,546	6.1%

*Heater consumption rate of 11 gallons of propane per hour and \$2.75 per gallon.



EXACTAIRE SMART CONTROLLER



Real-time data drives smart climate control operations

Climate control equipment can now be turned on and off based on user-defined thresholds for temperature and humidity, or indoor air quality indicators like particulate matter or CO2 and other toxic gases. Actively modulating equipment avoids unnecessary energy and maintenance costs.

CONTACT US

To find out if modulating equipment would make sense for your projects.

1-800-422-6379

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