

CASE STUDY: PARK PLACE APARTMENT'S – NH



**Significant Energy Savings
By replacing TACO with Grundfos**

IDENTICAL BUILDINGS

- 5 Identical Apartment Buildings
- Each with a single mechanical room
 - 3 Hydrotherm Oil Fired Boilers
 - 3-Piece System Pump (Taco 1600 and Armstrong)
- Baseboard Radiation
- Thermostatic radiator valves (TRV) in each apartment

METHODOLOGY

- Upgrade one boiler room with a Grundfos Magna Pump, replacing a competitors failed 3-piece pump in October 2010
- Installed Data-Loggers to monitor and capture energy use in two different buildings.
 - Building A, Grundfos MAGNA (RUNS 24/7)
 - Building B, Taco 1600 (RUNS 24/7)
- Evaluated energy use and cost over a 20 day period. 12-1-10 to 12-21-10

RESULTS

	Grundfos MAGNA Building A	Taco 1600 Building B
Period	20 Days (485 hours)	20 Days (485 hours)
Total KWH	32.44 kwh	400.70 kwh
Average Watts	67 watts	826 watts
Cost per day	\$0.29	\$3.57
Cost per month	\$8.70	\$107.10
Cost / Season/140 days	\$40.60	\$499.80

Grundfos MAGNA

1. Used 91% LESS energy than traditional 3-piece circulator
2. Will save more than \$450 of electricity per year
3. Property owner is upgrading the other (4) buildings and (8) similar buildings nearby immediately to Grundfos MAGNA

