

## *Durham & Sons, Inc.* **Energy Loss information**

### **Texas A&M University:**

- **Advises that a 23% refrigerant undercharge could result in a 52% efficiency loss.**

### **Lakeland Electric & Water, & Florida Solar Energy Center researchers found:**

- **By repairing leaking duct work, cooling energy was reduced by an average of 17.4%.**



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### **Energy Loss information**

**According to North Carolina Alternative Energy Corporation, a private non-profit organization that examined systems after installations, comparing manufacturer efficiencies to actual efficiencies in the field found:**

- 90% of units tested exhibited some sort of energy-wasting problem**
- 50% had an improper refrigerant charge**
- 40% failed to meet MINIMUM air flow criteria.**
- 20% were barely inside the range specified by the Manufacturer**

**THIS STUDY STATES ONLY 10% OF THE SYSTEMS TESTED MET THE MANUFACTURERS STANDARDS AND RECCOMENDATIONS.**

**Remember not all dealers are the same.**

**What percentage of quality DO YOU insist upon?**



# Durham & Sons, Inc.

## Energy Loss information

### Honeywell found:

- A typical heat pump would lose almost 50% of it's efficiency after 20-Years, even if a typical "dust stop" filter had been installed.
- In 20-years,, a 12 SEER unit could degrade to 6 SEER if it is not properly maintained. This CAN double your energy costs!

### Louisiana State University & Gulf State Utility

- Found consumers could save about \$30.00 per month, just by making sure their air-conditioning system is cleaned and serviced regularly.
- LSU determined that without proper air filtration, over time, air flow can be reduced by over 12%.

### DURHAM & SONS..... HAS FOUND:

**OUR PREFERRED CUSTOMER SERVICE AGREEMENTS SAVE YOU MUCH MORE IN THE LONG TERM!**



# DURHAM AND SONS

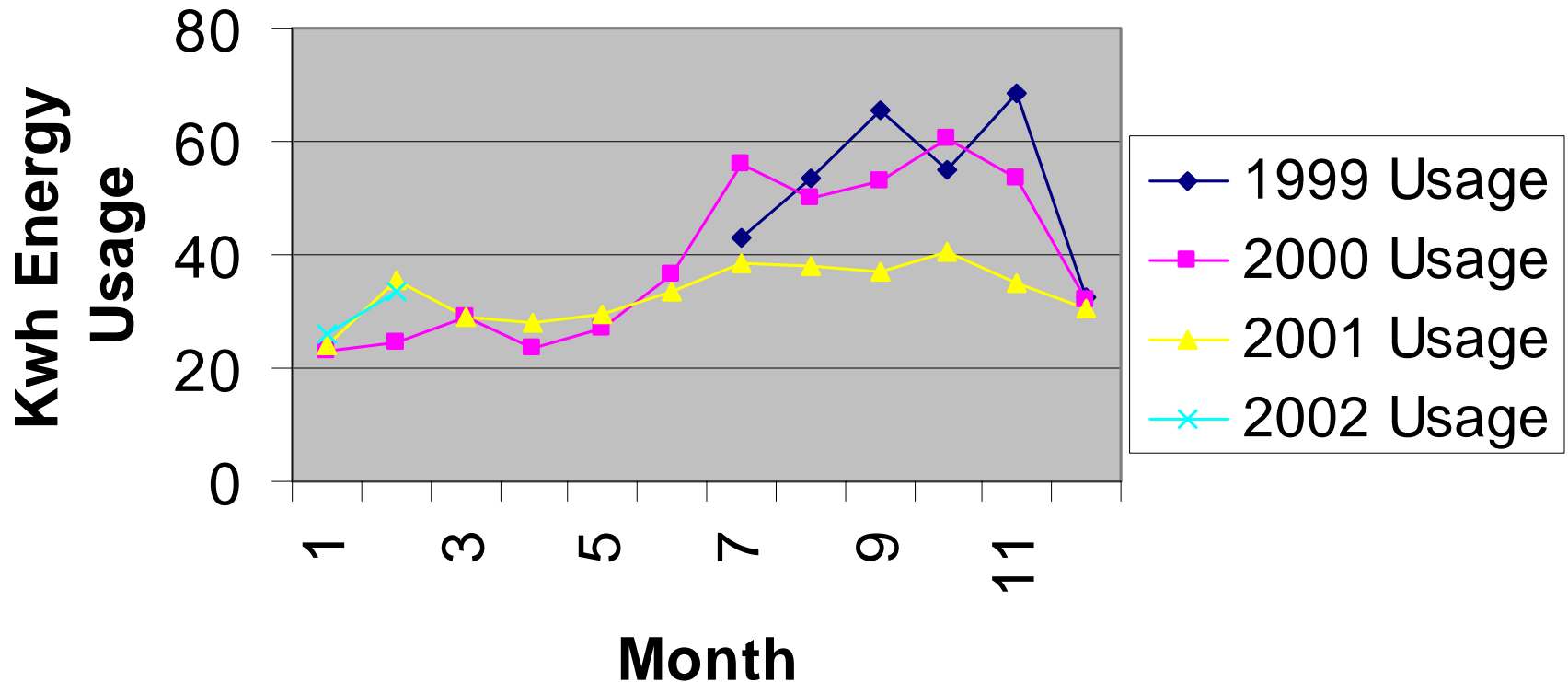
## Energy Savings information Case Study A very Happy Homeowner in Windover Farms

Electric Usage				Month Ending	KW /Month	# of Days	KW Used daily
Energy Usage							
Month	Year	KW /Month	# of Days				
Jan-99				Jul-00	1798	32	56
Feb-99				Aug-00	1495	30	50
Mar-99				Sep-00	1592	30	53
Apr-99				Oct-00	1943	32	61
May-99				Nov-00	1558	29	54
Jun-99				Dec-00	926	29	32
Jul-99	1287	30	43	Jan-01	789	33	24
Aug-99	1717	32	54	Feb-01	1095	31	35
Sep-99	1966	30	66	Mar-01	924	32	29
Oct-99	1760	32	55	Apr-01	809	29	28
Nov-99	1980	29	68	May-01	853	29	29
Dec-99	947	29	33	Jun-01	978	29	34
Jan-00	690	30	23	Jul-01	1228	32	38
Feb-00	814	33	25	Aug-01	1133	30	38
Mar-00	867	30	29	Sep-01	1072	29	37
Apr-00	760	32	24	Oct-01	1296	32	41
May-00	783	29	27	Nov-01	1012	29	35
				Dec-01	880	29	30
				Jan-02	863	33	26
Jun-00	1061	29	37	Feb-02	1136	34	33

**Energy Savings information, "Actual CASE STUDY"**  
**We can provide communication with the homeowner, he recently stated he has saved over 40 percent plus on his overall electricity consumption. This wasn't just Trane equipment it was also our installation design!**

## Case Study Energy Usage

**Trane High Seer Systems Installed April 2001**



# Durham & Sons, Inc.

*Air Conditioning, Refrigeration, Heating,  
& Electrical Contractors*

## Estimated Energy Usage as of 2002

**Air Conditioning energy consumption (Estimated only) your actual utility usage may vary**

**Based on weather data in Orlando Florida yours could be similar**

<b>Btu gair</b>	<b>6.00</b>	<b>10.00</b>	<b>12.00</b>	<b>13.00</b>	<b>14.00</b>	<b>15.00</b>	<b>16.00</b>	<b>17.00</b>
<b>24,000</b>	<b>\$ 864.00</b>	<b>\$ 518.00</b>	<b>\$ 432.00</b>	<b>\$ 399.00</b>	<b>\$ 370.00</b>	<b>\$ 346.00</b>	<b>\$ 324.00</b>	<b>\$ 305.00</b>
<b>30,000</b>	<b>\$ 1,080.00</b>	<b>\$ 648.00</b>	<b>\$ 540.00</b>	<b>\$ 498.00</b>	<b>\$ 463.00</b>	<b>\$ 432.00</b>	<b>\$ 405.00</b>	<b>\$ 381.00</b>
<b>36,000</b>	<b>\$ 1,296.00</b>	<b>\$ 778.00</b>	<b>\$ 648.00</b>	<b>\$ 598.00</b>	<b>\$ 555.00</b>	<b>\$ 518.00</b>	<b>\$ 486.00</b>	<b>\$ 457.00</b>
<b>42,000</b>	<b>\$ 1,512.00</b>	<b>\$ 907.00</b>	<b>\$ 756.00</b>	<b>\$ 698.00</b>	<b>\$ 648.00</b>	<b>\$ 605.00</b>	<b>\$ 567.00</b>	<b>\$ 534.00</b>
<b>48,000</b>	<b>\$ 1,728.00</b>	<b>\$ 1,037.00</b>	<b>\$ 864.00</b>	<b>\$ 798.00</b>	<b>\$ 741.00</b>	<b>\$691</b>	<b>\$648</b>	<b>\$610</b>
<b>60,000</b>	<b>\$ 2,160.00</b>	<b>\$ 1,296.00</b>	<b>\$ 1,080.00</b>	<b>\$ 997.00</b>	<b>\$ 926.00</b>	<b>\$864</b>	<b>\$810</b>	<b>\$762</b>