APPENDIX D

Cycling Rate and Thermostat Parameters From the Literature

TABLE D-1

Cycling Pate Panametons From Literature				
Cycling Rate Parameters From Literature				
Source	N _{max} (cycles/hr)	t _{on.min} (minutes)	Comments	
Murphy & Goldschmidt (1979)	2.83	5.3	Cooling mode in mobile home	
Goldschmidt et al. (1980)	2.8-3.3	4.6-5.3	Cooling, Mobile home with and without metal chairs	
Parken et al. (1985)	2.00	7.5	Cooling, Brick house w/basement	
	2.28	6.6	Cooling, Frame house w/ walk-out basement	
	1.64	9.1	Cooling, Frame house w/ walk-out basement	
Miller & Jaster (1985)	0.6-2.1	7.1-25	Heating mode for 9 heat pumps	
Hart & Goldschmidt (1980)	3.1	4.8	Heating mode	
ARI (1984)	3.125	4.8	Inferred from cyclic test 6 min ON, 24 min OFF	
Given data is bold, other value calculated from equation (A-6) $N_{max}=60/(4t_{o_{N,min}})$. See Appendix A for definition of N_{max} and $t_{o_{N,min}}$				

TABLE D-2

Measured Thermostat Deadbands (ΔT_{spt}) from the Literature			
Source	Switch Deadband (\Delta T_{spt})	Comments	
McBride (1979)	0.8°F	Measured in laboratory	
Miller & Jaster (1985)	2.5°F	Measured in field tests	