

Product class	Energy standards equations (Kwh/yr) effective dates	
	Jan. 1, 1993	3 years after publication of final rule
8. Upright Freezers with Manual Defrost	10.3AV + 264 0.36av + 264	7.55AV + 258.3 0.27av + 258.3
9. Upright Freezers with Automatic Defrost	14.9AV + 391 0.53av + 391	12.43AV + 326.1 0.44av + 326.1
10. Chest Freezers and all other Freezers except Compact Freezers	11.0AV + 160 0.39av + 160	9.88AV + 143.7 0.35av + 143.7
11. Compact Refrigerators and Refrigerator-Freezers with Manual Defrost	13.5AV + 299 0.48av + 299	10.70AV + 299.0 0.38av + 299.0
12. Compact Refrigerator-Freezer—partial automatic defrost	10.4AV + 398 0.37av + 398	7.00AV + 38.0 0.25av + 398.0
13. Compact Refrigerator-Freezers—automatic defrost with top-mounted freezer and compact all-refrigerators—automatic defrost	16.0AV + 355 0.57av + 355	12.70AV + 355.0 0.45av + 355.0
14. Compact Refrigerator-Freezers—automatic defrost with side-mounted freezer	11.8AV + 501 0.42av + 501	7.60AV + 501.0 0.27av + 501.0
15. Compact Refrigerator-Freezers—automatic defrost with bottom-mounted freezer	16.5AV + 367 0.58av + 367	13.10AV + 367.0 0.46av + 367.0
16. Compact Upright Freezers with Manual Defrost	10.3AV + 264 0.36av + 264	9.78AV + 250.8 0.35av + 250.8
17. Compact Upright Freezers with Automatic Defrost	14.9AV + 391 0.53av + 391	11.40AV + 391.0 0.40av + 391.0
18. Compact Chest Freezers	11.0AV + 160 0.39av + 160	10.45AV + 152.0 0.37av + 152.0

(2) HCFC-free refrigerators/
refrigerator-freezers/freezers

Product class	Energy standards equations (Kwh/yr) effective dates		
	Jan. 1, 1993	3 years after publication of final rule	9 years after publication of final rule
19. HCFC-Free Refrigerators and Refrigerator-Freezers with Manual Defrost ..	13.5AV + 299 0.48av + 299	9.70AV + 273.2 0.34av + 273.2	8.82AV + 248.4 0.31av + 248.4
20. HCFC-Free Refrigerator-Freezer—partial automatic defrost	10.4AV + 398 0.37av + 398	9.70AV + 273.2 0.34av + 273.2	8.82AV + 248.4 0.31av + 248.4
21. HCFC-Free Refrigerator-Freezers—automatic defrost with top-mounted freezer without through-the-door ice service and: HCFC-Free all-refrigerators—automatic defrost	16.0AV + 355 0.57av + 355	10.78AV + 303.6 0.38av + 303.6	9.80AV + 276.0 0.35av + 276.0
22. HCFC-Free Refrigerator-Freezers—automatic defrost with side-mounted freezer without through-the-door ice service	11.8AV + 501 0.42av + 501	5.40AV + 558.3 0.19av + 558.3	4.91AV + 507.5 0.17av + 507.5
23. HCFC-Free Refrigerator-Freezers—automatic defrost with bottom-mounted freezer without through-the-door ice service	16.5AV + 367 0.58av + 367	5.06AV + 504.9 0.18av + 504.9	4.60AV + 459.0 0.16av + 459.0
24. HCFC-Free Refrigerator-Freezers—automatic defrost with top-mounted freezer with through-the-door ice service	17.6AV + 391 0.62av + 391	11.22AV + 391.6 0.40av + 391.6	10.20AV + 356.0 0.36av + 356.0
25. HCFC-Free Refrigerator-Freezers—automatic defrost with side-mounted freezer with through-the-door ice service	16.3AV + 527 0.58av + 527	11.11AV + 446.6 0.39av + 446.6	10.10AV + 406.0 0.36av + 406.0
26. HCFC-Free Upright Freezers with Manual Defrost	10.3AV + 264 0.36av + 264	8.31AV + 284.1 0.29av + 284.1	7.55AV + 258.3 0.27av + 258.3
27. HCFC-Free Upright Freezers with Automatic Defrost	14.9AV + 391 0.53av + 391	13.67AV + 358.7 0.48av + 358.7	12.43AV + 326.1 0.44av + 326.1
28. HCFC-Free Chest Freezers and All Other Freezers Except Compact Freezers	11.0AV + 160 0.39av + 160	10.87AV + 158.1 0.38av + 158.1	9.88AV + 143.7 0.35av + 143.7
29. HCFC-Free Compact Refrigerators and Refrigerator-Freezers with Manual Defrost	13.5AV + 299 0.48av + 299	13.5AV + 299.0 0.48av + 299.0	10.70AV + 299.0 0.38av + 299.0
30. HCFC-Free Compact Refrigerator-Freezer—partial automatic defrost	10.4AV + 398 0.37av + 398	10.4AV + 398.0 0.37av + 398.0	7.00AV + 398.0 0.25av + 398.0