

Appendix C - End of System Service Life

This chart presents the system service life that CASR would consider for a particular piece of equipment to extend a building's compliance timeline (Table 36). This does not mean the building owner is required to replace the equipment at the time listed in the chart. Building owners may experience longer or shorter service life depending on their maintenance practices. The chart was created by consulting multiple ASHRAE data sources, calculating an average lifespan per equipment, and adding additional time. If there is a specific type of equipment missing from the chart, then the average service life for that equipment's category should be used.

TABLE 36: SERVICE LIFE CHART FOR TIMELINE EXTENSIONS

Equipment Item	Full Service Life in Years	50% Thres- hold	Equipment Item	Full Service Life in Years	50% Thres- hold
Air Conditioners	16	8	Fans	22	11
Window unit	11	5	Centrifugal	28	14
Residential single or Split package	17	8	Axial	22	11
Commercial through the wall	17	8	Propeller	17	8
Water-cooled package	17	8	Ventilating roof-mounted	22	11
Heat Pumps	17	8	Coils	20	10
Residential/Commercial air-to-air	17	8	DX, water, or steam	22	11
Commercial water-to-air	17	8	Electric	17	8
Rooftop Air Conditioners	20	10	Heat Exchangers	26	13
Single-zone	20	10	Reciprocating Compressors	22	11
Multi-zone	20	10	Packaged Chillers	34	17
Boilers, Hot Water	24	12	Reciprocating or centrifugal	25	12
Gas fired	24	12	Absorption	43	21
Oil fired	22	10	Cooling Towers	28	14
Electric	31	15	Galvanized metal	22	11
Burners	23	11	Wood	26	13
Furnaces gas or oil fired	20	10	Ceramic	37	18
Unit Heaters	18	9	Stainless Steel	26	13
Gas or electric	14	6	Air-cooled Condensers	22	11
Hot water or steam	22	11	Evaporative Condensers	22	11
Domestic Water Heater	10	5	Insulation	22	11
Radiant Heaters	27	13	Molded	20	10
Electric	24	12	Blanket	24	12
Hot water or steam	30	15	Pumps	18	9
Air Terminals	27	13	Base-mounted	22	11
Diffusers, Grilles, and Registers	30	15	Pipe-mounted	12	6
Induction and fan coil units	30	15	Sump and well	12	6
VAV and double-duct boxes	22	11	Condensate	17	8
Air Washers	19	9	Close-coupled, end-suction	21	10
Ductwork	30	15	Frame-mounted, end-suction	21	10
Dampers	22	11	Split-case, multistage pump	21	10
Packaged DX	19	9	Split-case, single stage	32	16
Air-cooled	17	8	Vertical in-line	21	10
Rooftop	20	10	Air Handling Units	27	13
Water-cooled	19	9	Constant volume	30	15
Packaged Terminal	30	15	Dual duct	40	20
Air conditioner or heat pump	30	15	Multi-zone	26	13
Steam Turbines	33	16	Single-zone	20	10
Electric Motors	20	10	Variable air volume	22	11
Motor Starters	19	9	Variable volume, variable temp	23	11
Electric Transformers	33	16	Reciprocating Engines	22	11