

AMTROL Commercial BoilerMate

Elderly Housing Sizing

Evaluation and Sizing Form

Job Site Information:

Present Water Heating Equipment

Type of Heater: Instantaneous Indirect Direct Fired

Make and Model _____

Storage Volume _____ Gal.

Recovery _____

Fuel _____

Operating Temp. _____

Boiler Make and Model _____

BTU's _____

Avg. Boiler Water Temp. _____

Recirculating Line Size _____

Circulator Make and Model _____

Control _____

Are there any problems with the present hot water? _____

Options

Will new boiler be installed? _____

For hot water only? _____

If no, will old boiler be used for both hot water and heat? _____

*If for hot water and heating, what is the space heating load? _____ BTU's

Sizing Information

Input:

- Number of Apartments, A
- Average number of People per Apartment, P

Sizing Commercial BoilerMate Modules for Elderly Housing

- Determine usage as minimal, 1¹/₄ persons with private kitchen facilities; or average, 1¹/₂ persons and/or with central dining facilities.
- Select proper number of WH-7C modules from Table 1 and the required heat generator capacity from Figure 1.

WH-7C

Number of Apartments	No. of WH-7C	Flow (GPM)	Feet of Head	Size Manifold
2-10	1	7	20	3/4"
11-38	2	14	20	1"
39-66	3	21	20	1 1/4"
67-94	4	28	20	1 1/2"
95-122	5	35	20	1 1/2"
123-150	6	42	20	2"

For number of 7C's, $y = .053T + 1.7$ (note: round down)

WHS-60CZDW

Number of Apartments	No. of WHS-60CZDW	Flow (GPM)	Feet of Head	Size Manifold
2-16	1	10	20	1"
17-70	2	21	20	1 1/2"
71-115	3	31	20	1 1/2"
116-160	4	42	20	2"
161-200	5	52	20	2"

For number of 60C's, $y = .043T + 1.62$ (note: round down)

WHS-80CZDW

Number of Apartments	No. of WHS-80CZDW	Flow (GPM)	Feet of Head	Size Manifold
2-22	1	10	20	1"
23-104	2	21	20	1 1/2"
105-164	3	31	20	2"
165-230	4	42	20	2"

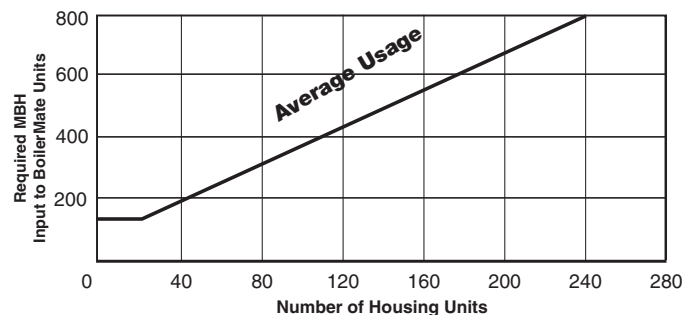
For number of 80C's, $y = .038T + 1.52$ (note: round down)

WHS-120CZDW

Number of Apartments	No. of WHS-120CZDW	Flow (GPM)	Feet of Head	Size Manifold
2-34	1	10	20	1"
35-121	2	21	20	1 1/2"
122-196	3	31	20	2"
197-260	4	42	20	2"

For number of 120C's, $y = .023T + 1.63$ (note: round down)

Figure 1. Required Heat Generator Capacity - MBH



Recommendations:

- Number _____ Models _____
- Flow (GPM) _____
- Feet of Head _____
- Size Manifold _____



1400 Division Road
W. Warwick, Rhode Island 02893
(401) 884-6300