

In such case the following are the dimensions of the ice house :

Factory small size 18' x 18' by 12' high

Factory large size 22' x 22' by 12' high

In this case the upper story of the cold rooms should have a door opening in the end of the building to enable ice to be taken up with tackle.

Mode of construction.— As the temperatures of the different rooms must be different, as we have seen, their walls should be constructed differently. The lower and more regular the temperature required in an apartment, the greater the attention which must be given to the walls.

The boiler room should be carefully built but still the degrees of heat may vary considerably without any great inconvenience being experienced. What is necessary, is, that it does not freeze during the nights in the spring, and autumn, nor in the winter if the establishment is run during the winter. Next to be considered is the apartment containing the separators. This apartment should be built, so as to make it possible to maintain a good temperature during the cold spells of weather in the spring and autumn. The walls of the apartment in which the butter is worked should be so constructed as to make it possible easily to maintain at all times a temperature of about 62°. The walls of the ice house should be sufficient to preserve the ice, without too heavy a loss, through melting, during the great heats of the summer. If considerable quantities of saw dust can be procured, the walls of the ice house may be built very economically. Lastly the cold rooms require our attention, the walls must be very carefully looked after, for in these rooms it must be possible to maintain a temperature in the neighbourhood of 32° during the whole summer season.

The walls may be constructed in two different ways: either of grooved and tongued deals; or of studs covered with wood. This latter mode of construction is called a "balloon frame" and is the mode most generally employed.

Whether the building is put up on the first or second plan, the number of rows of boards and layers of paper to be used in the construction of the walls and the placing of these materials will remain the same. What follows, with respect to the number and the placing of these rows of boards and paper, will therefore apply equally to the two cases.

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