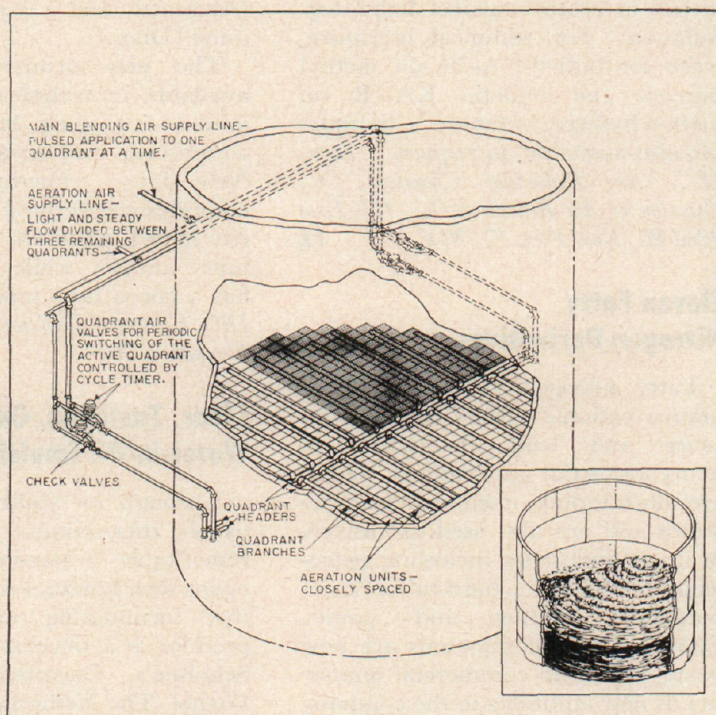


Cut-through of tank showing headers and aeration units which produce the dry mixing action seen in the lower right-hand insert



rounded with heavier material which tends to slump over into the active quadrant. Here it becomes aerated, expands, rises, and flows outward. A strong and continuous roll-over motion in a vertical circuit is obtained which results in an intensive and thorough mixing. Aeration is periodically switched (every 5 to 15 minutes, depending on the material) from quadrant to quadrant in rotation, and, after one circuit of the silo bottom, all of the material has been put into motion. Two such circuits will generally result in completely blended material. The mixer is suited for use in either batch or continuous schemes of operation. Components include: Aeration units with air distribution pipes and headers, motor-operated valves for admitting air, check valves and orifice assemblies, aeration air supply unit, blending air supply unit, pulsing valve and power-driven oscillating drive, and silo withdrawal valves and automatic control. Dept. IEC, Fuller Co., Catasauqua, Pa. 9

CHEMICALS AND MATERIALS

Stable Isotopes Can Be Used Over and Over

Unlike radioactive isotopes which must be used while still "hot," and in most instances, be replaced each time

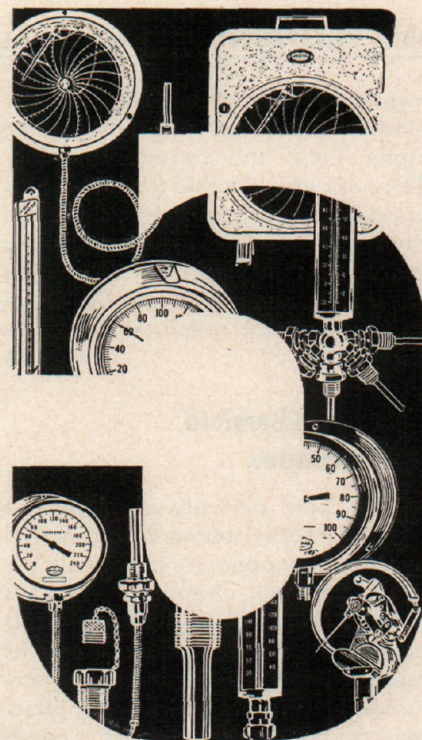
they are used, the stable compounds of nitrogen-15 do not change with time. Once obtained, they can be used over and over, as long as they are not too diluted with other isotopes of their chemical element during experimental procedures. Utilizing a mass spectrometer for detection, nitrogen-15 compounds are finding wide application in biological, medical, and other fields of research. Dept. IEC, Tracerlab, Inc., 1601 Trapelo Road, Waltham, Mass.

10

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