A VERSATILE SYSTEM

An SF automated refuse collection system installed in a large hospital, hotel or similar institution can be extended to include a system for bringing soiled laundry from laundry chutes on each floor to a central laundry department.

The drawing shows the principles of such an extension installed in a new 900-bed hospital. A separate conveyor duct system is installed with special laundry chutes connecting all wards. The system’s main duct leads to a mechanical collector/laundry silo discharging the laundry bags into a container for transportation to a central laundry. The sealed system and elimination of manual handling contribute to a higher degree of hygiene. The conveying air then enters the separate refuse collection system ducts for further utilization to convey garbage from separate garbage chutes and through separate conveying ducts to a central disposal installation. After cleaning, the air is returned to the outside.

THE SF CENTRAL VACUUM CLEANING SYSTEM.

The SF Central Vacuum Cleaning System is another SF development for office buildings, hotels, schools, hospitals and industrial plants which especially in large office buildings, hotels and hospitals may be partially combined with an SF Refuse System.

An SF Central Vacuum Cleaning plant consists essentially of a pipework system hidden in the building structure with connection valves for suction hoses in walls or floors and a vacuum cleaning unit consisting of dust collectors and one or two fans.

The fans (3) cause the suction effect, which is maintained at a constant level by a vacuum regulator (5), regardless of the number of suction hoses connected.

The dust is drawn through the self-cleaning pipes to the dust collectors, a wet-bottom coarse collector (1) of cyclone type and a fine collector of type SF Venturi (2). The collected and sludge dust is passed out into the drain after every cleaning session, and the cleaned air is blown through a sound trap (4) out into the atmosphere.

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From household to recovery

The large refuse rooms at the bottom of the refuse chutes are replaced by small rooms for the discharge valves. This eliminates overfilled refuse storage rooms, overloaded sack changers, spillage during transport on staircases, passages and streets as well as noisy refuse collection vehicles.

The Fläkt Pneumatic Conveying System does it—automatically, hygienically and quietly.

The refuse is transported by air in a totally enclosed system to the receiving station. The automatic control station ensures that the refuse from domestic premises is removed daily—regardless of variations in the volume of refuse, e.g. during longer holidays. In the receiving station, the refuse is separated from the transport air and is compacted into containers which, when full, are transported to the refuse incineration in Lövsta.

The refuse is thus transported without manual attendance, in a totally enclosed, non-polluting system, from the refuse chutes to the disposal station where incineration takes place. Disposal can then be carried out without contaminating the surroundings. In addition, the refuse can be used for generating heat for district heating.
Diagrammatic arrangement of the pneumatic conveying system for refuse.