

METHOD	COMPOST	FAST FERMENTATION	BIOGAS	COMPOSTING-FREE
MECHANISM	Microbes decomposition	Microbes decomposition	Anaerobic bacteria decomposition	Enzyme reaction
TIME	3~18 Months	1~3 Days 30~60 Days	15~30 Days	3~24 Hours
SPACE	100 m2/ton	20 m2/ton 50 m2/ton	50 m2/ton	5 m2/ton
CONSTRUCTION	\$50,000 \$60,000/ton	\$25,000 \$50,000/ton	\$100,000 \$200,000/ton	\$35000 \$50,000/ton
TREATMENT COST	\$30~\$50/ton	\$30~\$50/ton	\$30~50/ton	\$25~\$40/ton
END PRODUCT	Soil Conditioner	Soil conditioner	CH4	HQ organic fertilizer
PRODUCT VALUE	High BOD wastewater & Bad Smell	High BOD wastewater	Organic sludge (~40%)	N/A
RE-PROCESSING COST	\$5~\$10 ton treated	\$5~\$10 ton treated	\$15~\$30 ton treated	N/A
AIR POLLUTION	CO2 Bad Smell	CO2 Bad Smell	Greenhouse gas emissions	Low Carbon emission
WATER POLLUTION	High BOD wastewater	High BOD wastewater	Wastewater with sludge	Clean water
ADVANTAGES	Reduce the volume	Reduce the volume	Generate energy	Fast, Pollution-free
DISADVANTAGES	Time & Space	Extra Storage Required	Re-processing for sludge	N/A
PROCESS	Manual or Half-Automatic	Half-Automatic	Half-Automatic	Full Automatic
LIMITATIONS	High lignin content High fiber content	Hard organic matter High oil or salt content	High oil or salt content	N/A
LIFETIME	Less than 5 years	5 years	5 years	More than 10 years
ENVIRONMENT	Breed mosquitoes and odor	Breed mosquitoes	Depends on equipment	Totally No Pollution