

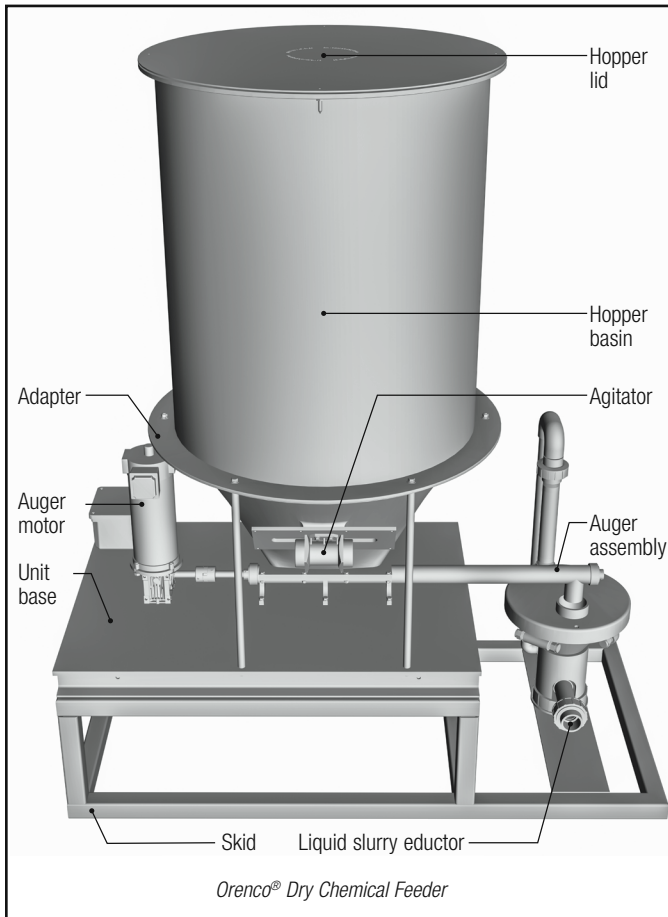
# Dry Chemical Feed Units

## Applications

Orenco® Dry Chemical Feed Units are designed for use with wastewater systems where chemical additives are needed to achieve target levels of nitrogen reduction and contaminant removal.

In wastewater systems with insufficient alkalinity to meet nitrogen limits, Dry Chemical Feed Units are ideally suited for adding prilled or granular alkaline compounds such as soda ash, lime, limestone, or sodium bicarbonate to maintain the adequate pH levels (between 7-9) required for effective wastewater processing.

Orenco Dry Chemical Feed Units are not suitable for use with powdered alkaline compounds.



## General

Orenco Dry Chemical Feed Units are manufactured from durable and corrosion-resistant stainless steel and fiberglass parts. They are designed to withstand a wide range of temperatures and conditions when housed in a covered enclosure.

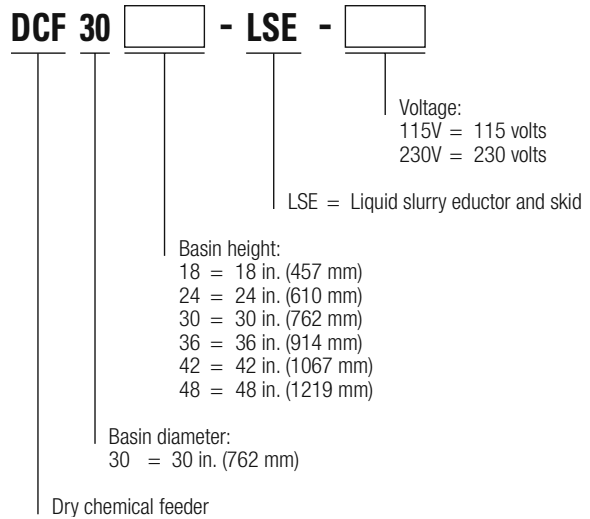
An Orenco TCOM panel is necessary for controlling a dry chemical feeder equipped with a liquid slurry eductor.

## Standard Models

DCF3018-LSE-115V, DCF3024-LSE-115V, DCF3030-LSE-115V, DCF3036-LSE-115V, DCF3042-LSE-115V, DCF3048-LSE-115V

DCF3018-LSE-230V, DCF3024-LSE-230V, DCF3030-LSE-230V, DCF3036-LSE-230V, DCF3042-LSE-230V, DCF3048-LSE-230V

## Product Code Diagram



## Materials of Construction

Hopper lid, basin, and adapter	Fiberglass, stainless steel
Hopper lid gasket	Urethane
Auger assembly	Stainless steel and PVC
Auger (not shown)	Stainless steel
Unit base	A36 steel
Liquid slurry eductor	Fiberglass, PVC, stainless steel
Skid	A36 steel
Flowmeter	PVC, 316L stainless steel, Buna-N, machined cast acrylic

## Dimensions

Model volume	Basin height in. (mm)	Basin ft <sup>3</sup> (m <sup>3</sup> )
DCF3018-LSE-XXXX	18 (457)	10.5 (0.30)
DCF3024-LSE-XXXX	24 (610)	13.0 (0.37)
DCF3030-LSE-XXXX	30 (762)	15.5 (0.44)
DCF3036-LSE-XXXX	36 (914)	18.0 (0.51)
DCF3042-LSE-XXXX	42 (1067)	20.5 (0.58)
DCF3048-LSE-XXXX	48 (1219)	23.0 (0.65)

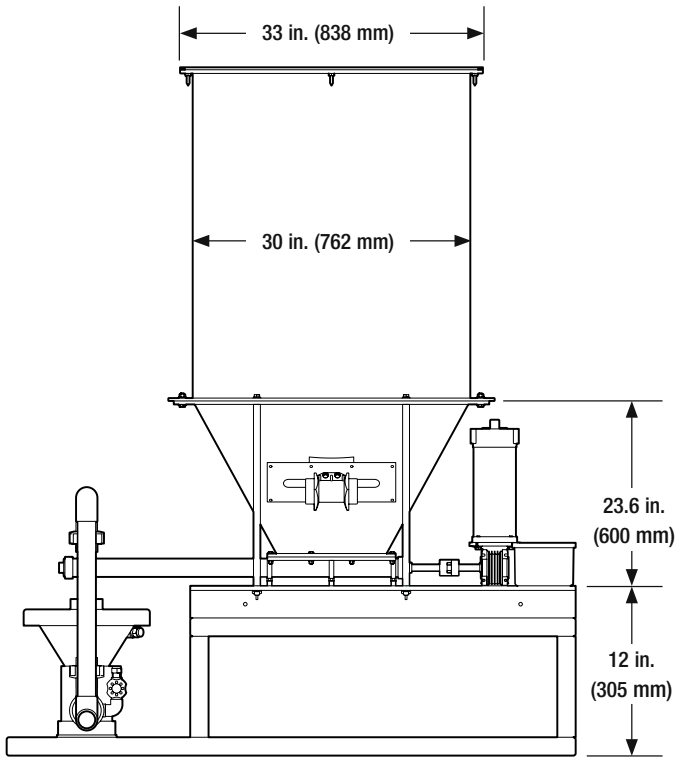
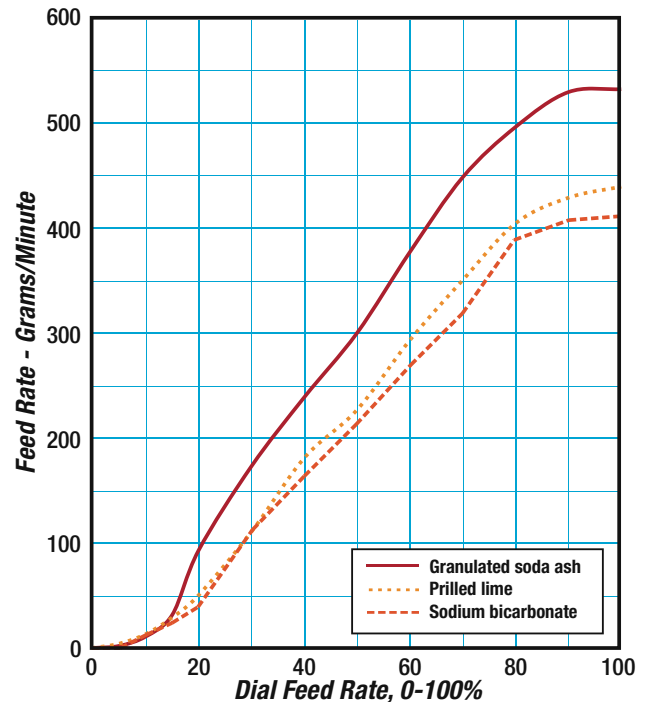
## Performance

	115V	230V
Power supply*	115 V; 60 Hz	230 V; 50/60 Hz
Auger motor voltage	90 VDC	90 VDC
Auger motor horsepower (kW)	½ (0.37)	½ (0.37)
Auger motor amperage	4.8	4.8
Agitator motor voltage	115 V, 60 Hz	230 V; 50/60 Hz;
(two equipped)	2-pole	2-pole
Agitator motor amperage	0.3	0.3
Flowmeter gpm (L/sec)	40 (2.5)	40 (2.5)

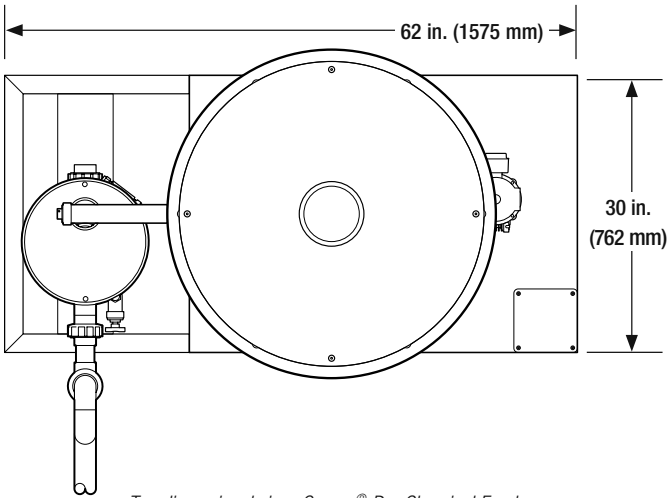
\* Standard, other power supplies can be accommodated.

## Chemical Feed Rates

The chart below shows typical feed rates for three dry chemicals commonly used in the Orenco Dry Chemical Feeder.



Side dimensional view, Orenco® Dry Chemical Feeder



Top dimensional view, Orenco® Dry Chemical Feeder