

- Ext. communication to Host System
- A Feeder
 - B Weighing System
 - C Control Module
 - D Operator Interface

Each Coperion K-Tron Weigh feeder consists of the components A, B, C and D.

Component A is specified here.

Application

Gentle, gravimetric feeding of free-flowing bulk materials such as granules, flakes, fibers and powders. Especially suitable for friable products, abrasive products and products with non-uniform shapes.

Design

Vibratory V200 feeder with closed tubular feeding tray mounted on a D4 platform scale. The scale is stainless steel and the housing is completely enclosed. All parts in contact with the material being fed are stainless steel. The modular components are held together by tri-clamps.

This equipment conforms to all applicable European Directives (e.g. Machinery, EMC and is also listed by an NRTL as complying with the electrical safety standard UL 61010-1.

Features:

- Continuous, even mass flow with minimal pulsations
- Hygienic tube tray has no corners and is easy to clean
- Tray access for cleaning though ferrule clamps
- Drive assembly completely enclosed by hygienic silicone cover
- Lower maintenance requirements due to the absence of mechanical wear parts

Controller: (see separate data sheets)

The SmartConnex™ control system allows individual or multi-component control. Each feeder has its own control module. Connection between feeders, operator interface and smart I/O is via an industrial network. A variety of protocols is available for connection to the plant's host system.

Vibratory Drive

The Coperion K-Tron vibratory drive is part of the control system and has been developed especially for use with feeders. The electronic control system provides a quick response to changing feed and environmental conditions. Unique pendulum technology provides shock absorption only parallel to the desired direction of motion, ensuring even material flow.

Hazardous Location Options (see sheet I-000002):

- NEC Class II, Division 2, Groups F & G
 Class I, Division 2, Groups C & D
- ATEX 3D/3D, 3D/2D, 3G/3G (outside/inside)

Feed Rates

The feed rate range is influenced by feeder configuration and material characteristics. The sample feed rates below were tested with a free-flowing granulate (bulk density 0.62 kg/dm³).

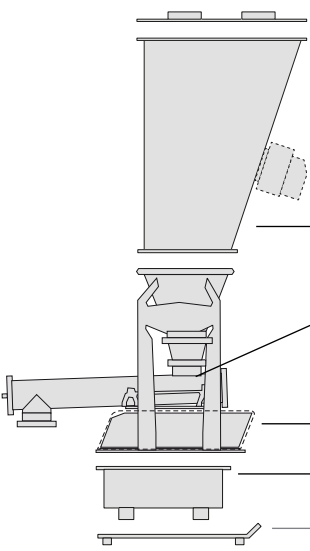
Attention: Actual feed rates depend on individual material characteristics. For feed rates at the upper or lower limits of the given range, check with a Coperion K-Tron Test Lab.

PH-V200	5 - 1600 dm³/h
	0.176 - 56.5 ft³/h



Pharmaceutical V200
vibratory feeder with tube tray

Configuration

	Description	Selection	Remarks	Weight kg [lb]
	Cover		2D 4D	1 [2.2] 2 [4.4]
	ActiFlow		optional (4D)	10 [22]
	Extension hopper		2D or 4D	see below
	Tray		tube tray	6.7 [14.6]
	Vibratory drive	48 VDC, 0.6 A, IP65	weight incl. frame	24 [53]
	Weigh bridge		D4 IP65, NEMA 4	12 [26]
	Baseplate			14 [31]

Technical Data

Material contact parts:	
Stainless steel:	EN 1.4404, 1.4435 (AISI 316L)
Seals, gaskets:	silicone
Surface roughness:	
product contact	Ra 0.4 µm
non-product contact	Ra ≤1.2 µm

Temperature-Limits:

Ambient:	0 ... 40°C [32 ... 104°F]
Material:	-20 ... 120°C [-4 ... 248°F]

Note: Due to its small footprint the PH-V200 must be mounted on a baseplate or bolted to a platform. When not mounted on a baseplate care must be taken to ensure there is no tension on the cable to the scale.

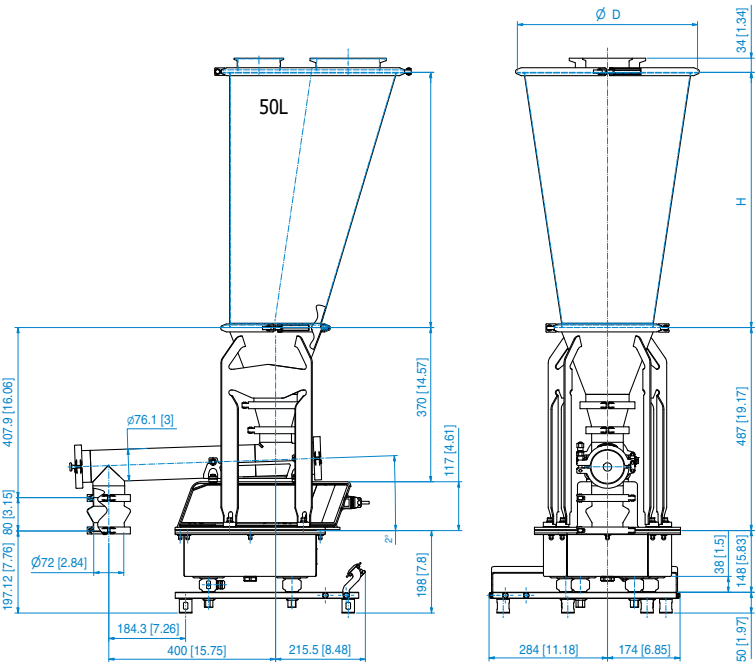
Dimensions mm [in]

Asymmetrical Hoppers

Volume dm³ [ft³]	H mm [in]	D mm [in]	Weight kg [lb]
50 [1.8]	612 [24.1]	397 [15.6]	8 [17.6]
80 [2.8]	867 [34.1]	397 [15.6]	11.8 [26]

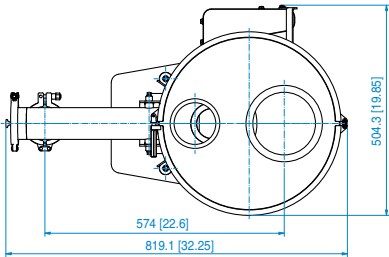
Cylindrical Hoppers

Volume dm³ [ft³]	H mm [in]	D mm [in]	Weight kg [lb]
10 [0.35]	280 [11]	217 [8.5]	3 [6.6]
20 [0.71]	560 [22.1]	217 [8.5]	5.3 [11.7]



Options

- EPC
- ActiFlow



Caution: these measurements are for general reference only. Please consult dimensional drawing for exact measurements.