

INTRODUCTION

The Models V101 and V130 Volumetric Feeders have been designed to feed various types of dry chopped fiberglass strands that range in length from 1/8 to 5/16 inches. These particular model feeders are single auger metering mechanisms encompassing novel mechanical designs, which include uniquely applied vibration to effectively and efficiently "fill" the metering auger for dependable and accurate product feed, as well as to ensure reliable product flow out of its integral supply hopper, without any product degradation whatsoever. The Models V101 and V130 Volumetric Feeders are ruggedly constructed for long, durable service.

There are nine (9) standard size metering augers available for use with the Model V101 Feeder covering an overall feed range of 0.2 to 18 cubic feet per hour, and four (4) standard size metering augers available for use with the Model V130 Feeder, providing an overall feed range of 0.5 to 59 cubic feet per hour. These various size metering augers are only interchangeable on the individual feeder models. As standard, the Model V101 is furnished with a 1.5 cubic foot supply hopper, and the Model V130 with a 4 cubic foot hopper.

OPERATION

The Models V101 and V130 Volumetric Feeders basically consist of a specially configured, offset "V" type feed trough (with the metering auger located at its bottom) and a supply hopper.

The feed trough of the feeder is bolted onto a vibrating base which is mounted on rubber isolators. A conical supply hopper with a specially designed outlet supplies product to the feed trough, and like the feed trough, the supply hopper is also mounted on rubber isolators. Through a novel attachment to the vibrating base, a selectable amount of vibration is transmitted to the hopper to ensure product flow into the feed trough. A flexible synthetic cloth sleeve connects the supply hopper to the feed trough for a totally dust-tight design. When permitted to run until empty, the feeder will virtually clean itself of all material due to the nature of its overall design.

The metering auger of the Model V101 Feeder is driven by a 1/2 horsepower variable speed AC or DC motor. A 3/4 horsepower variable speed AC or DC motor powers the metering auger of the Model V130. These totally enclosed motors are controlled by one of Acrison's various model variable speed AC or DC motor controllers.

In addition, the Models V101 and V130 Feeders may be utilized as the integral metering mechanisms of certain model Acrison "Weight-Loss-Differential" Weigh Feeders.

CAPACITIES

The Capacity Chart to the right indicates the typical output range for each standard size metering auger available with the Models V101 and V130 Volumetric Feeders. However, since the physical properties of the actual product being metered may have an effect upon the exact output, the stated capacities could vary.

Acrison®

Volumetric Dry Materials Feeders Models V101 and V130



Model V101-E

MODELS V101 AND V130 CAPACITY CHART
(Capacities shown in cubic feet per hour)

Size	Minimum Output Capacities			Maximum Output
	20:1 Speed Range	30:1 Speed Range	50:1 Speed Range	
V101-C	0.20	0.20	0.20	0.68
V101-CC	0.20	0.20	0.20	1.05
V101-D	0.20	0.20	0.20	1.8
V101-DD	0.20	0.20	0.20	3.15
V101-E	0.20	0.20	0.20	4.5
V101-EE	0.33	0.22	0.20	6.53
V101-F	0.55	0.37	0.22	11
V101-FF	0.72	0.48	0.29	14.3
V101-G	1.25	0.83	0.50	25
V130-G	1.25	0.83	0.50	25
V130-GG	1.65	1.1	0.66	33
V130-H	2.1	1.4	0.84	42
V130-HH	2.7	1.8	1.08	54