

Guardian® Series

18kg & 25kg Gravimetric Blenders



**PROCESS
CONTROL**



The Guardian® Series: Shown above is a 4 element 18kg Guardian®

The Guardian® Series gravimetric batch blender was developed for processors who want the simplicity of operation combined with the most accurate dispensing and superior blend homogeneity at a low cost. For these customers, Process Control designed the Guardian® Blender Series.

The blenders in the 18kg and 25kg Guardian® family have been designed with segmented material hoppers to hold each of the ingredients. The 18kg and 25kg Guardian® Series can be supplied with up to

twelve separate ingredient hoppers as standard. The outlet of each of the individual material hoppers is equipped with a fast acting V-gate valve. Each of the materials are dispensed sequentially into a common weighing hopper in the desired proportions. The weighed materials are then released into a separate mixing chamber which provides the most consistent homogeneous blend of any batch type blender.

Process Control engineers have produced a highly advanced dispensing and weighing system that accurately controls each ingredient of every batch to the desired amounts and is not averaged over multiple batches as is common in other batch blenders in the industry. At the blenders highest accuracy setting, each ingredient can be dispensed to an accuracy of +/- 0.02%.

In addition to precise batch-to batch dispensing, the performance of the mixer is just as critical to the end product. The mixer actually determines how uniform the blend will be. Process Control has spent many years of research and testing in developing the most thorough homogeneous mixer in the industry. Inadequate mixing can lead to inconsistent product characteristics such as color variations or

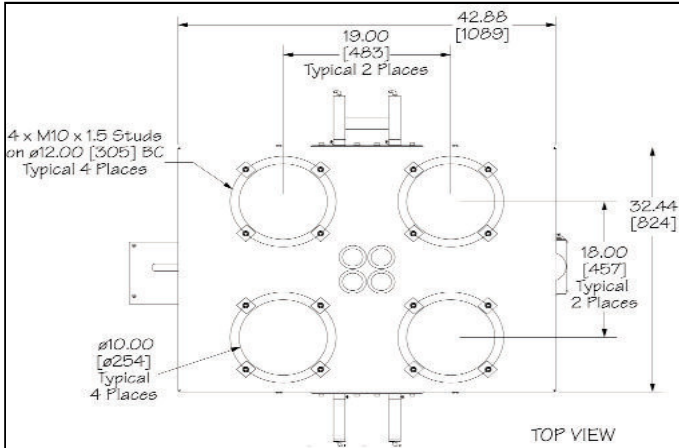
other imperfections.

The Guardian® Series blenders have incorporated in the design a built in clean-out system. With a pull-out drain chute and separate manual slide-gate controls, the blender can be cleaned-out quickly and easily during product changeovers.

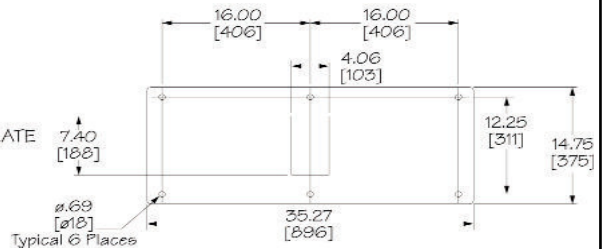
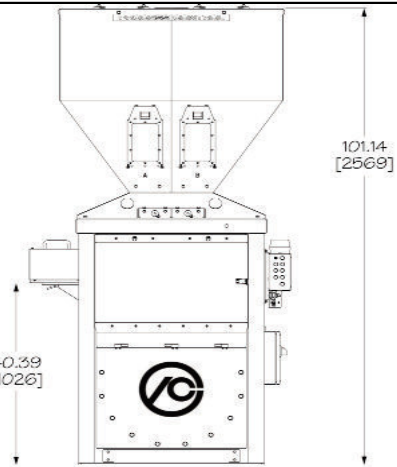
Standard Features

- Integral loading platform for mounting vacuum receivers
- Attached air hose & nozzle for cleaning
- Support for a wide variety of communications protocols
- Pulsing V-gate metering designed to accurately meter each ingredient in every batch.
- Advanced mechanical agitator in a “No Dead Zone” mixing chamber for precise blend homogeneity.
- Integral drain chute provides for fast and thorough clean-out.

4 Element, 18 KG Guardian Blender



TOP VIEW



VIEW OF MOUNTING PLATE

Maximum Throughput Rates:

2-Element: 3180 kg/h*

3-Element: 2610 kg/h*

4-Element: 2315 kg/h*

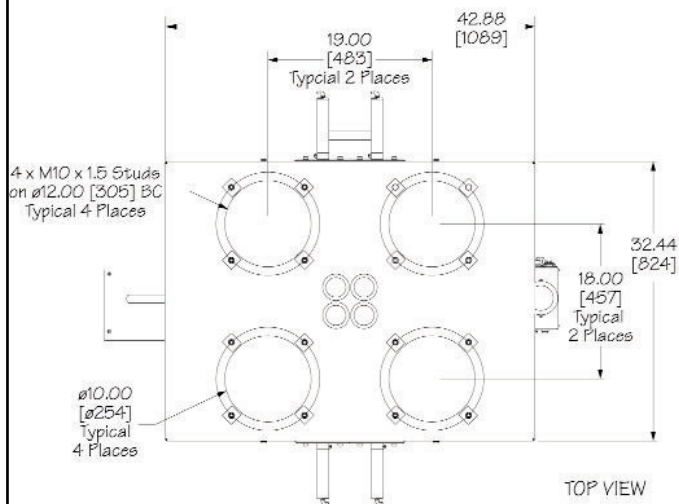
*Depending on Materials & Accuracy Setting

Power: 460V/3PH/60Hz or 400V/3PH/50Hz

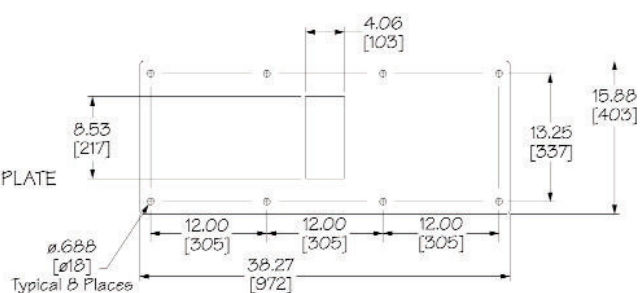
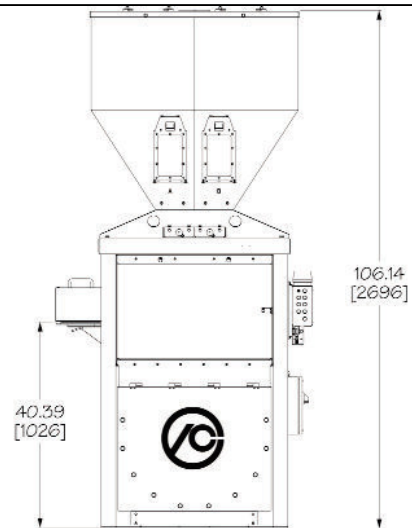
[] Dimensions are in mm

Approximate shipping weight: 350 kg

4 Element , 25 KG Guardian Blender



TOP VIEW



VIEW OF MOUNTING PLATE

Maximum Throughput Rates:

2-Element: 4360 kg/h*

3-Element: 3630 kg/h*

4-Element: 3000 kg/h*

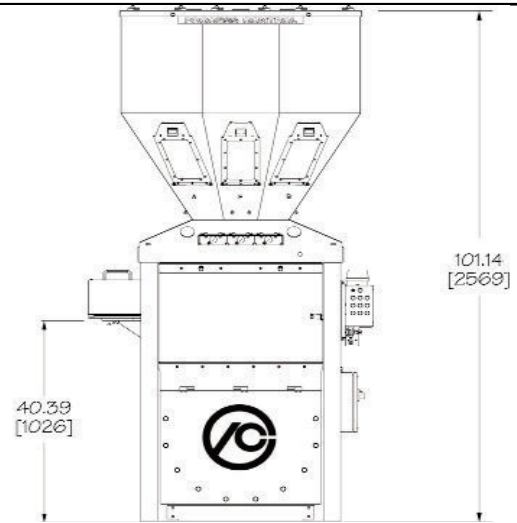
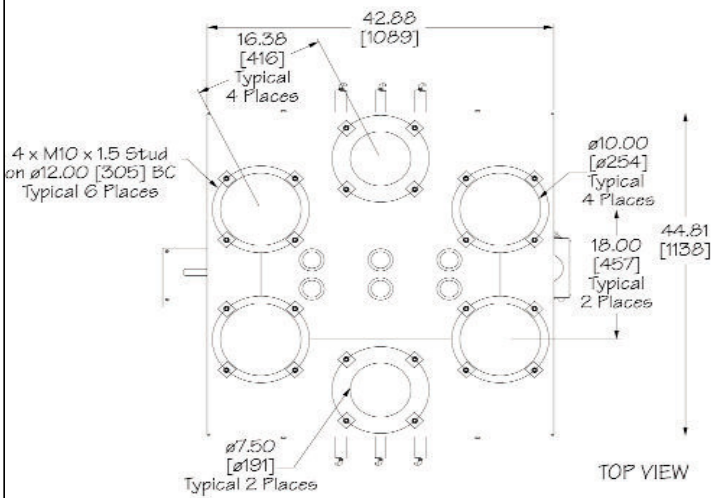
*Depending on Material & Accuracy Setting

Power: 460V/3PH/60Hz or 400V/3PH/50Hz

[] Dimensions are in mm

Approximate shipping weight: 410 kg

6 Element, 18 KG Guardian Blender



Maximum Throughput Rates:

5-Element: 1950 kg/h*

6-Element: 1770 kg/h*

***Depending on Material & Accuracy Setting**

Power: 460V/3PH/60Hz or

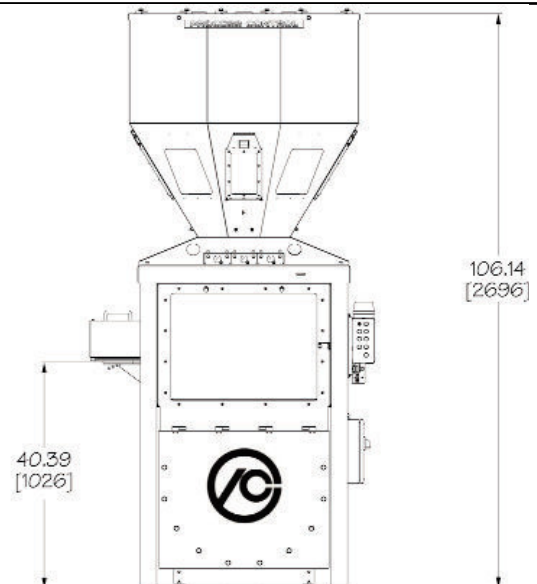
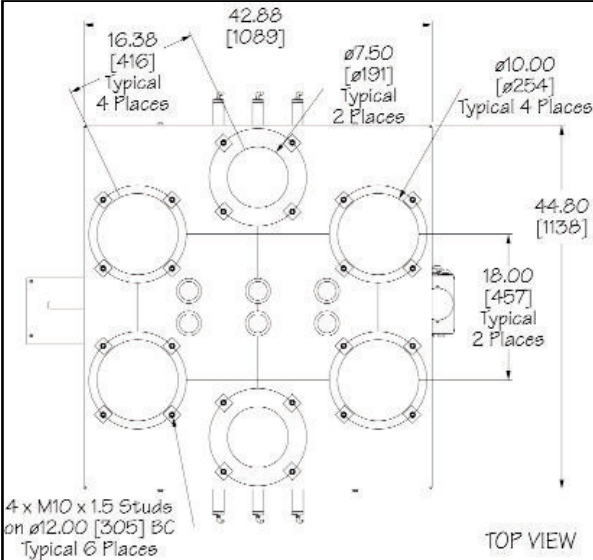
400V/3PH/50Hz

[] Dimensions are in mm

Approximate shipping weight: 390 kg

For a view of the mounting plates, see the 4 Element 18 KG diagrams.

6 Element, 25 KG Guardian Blender



Maximum Throughput Rates:

5-Element: 2710 kg/h*

6-Element: 2450 kg/h*

***Depending on Materials & Accuracy Setting**

Power: 460V/3PH/60Hz or

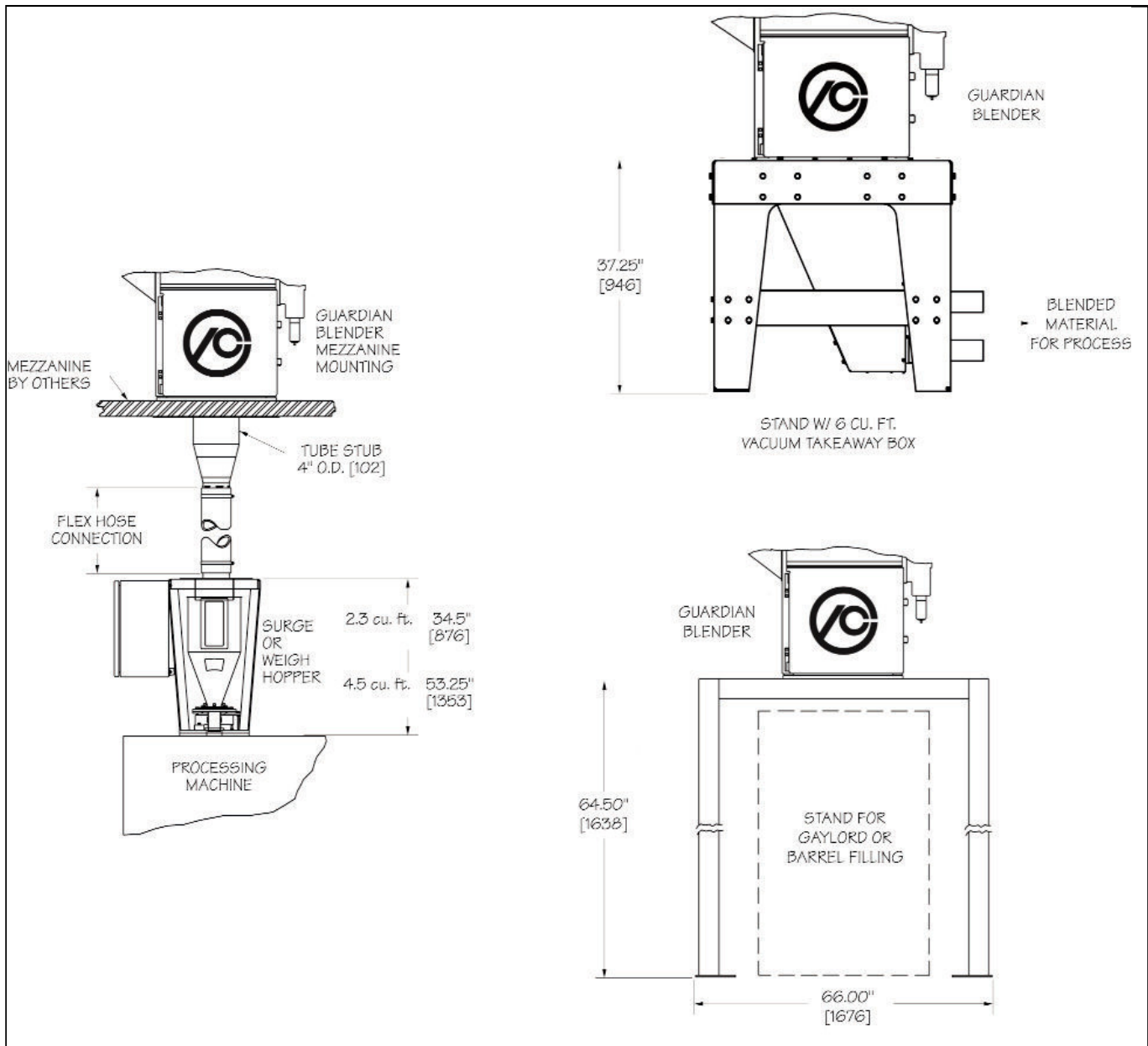
380V/3PH/50Hz

[] Dimensions are in mm

Approximate shipping weight: 460 kg

For a view of the mounting plates, see the 4 Element 25 KG diagrams.

Optional Accessories



OPTIONAL FEATURES

- PCCWeb® remote communication software
- Gravitrol® extruder and linespeed control
- Extension cable kit for remote mounting mini operator control panel
- Low level proximity sensors for material hoppers
- Special electrical
- Special paint
- Self-Loading
- Self-Cleaning
- Up to 12 elements for 18kg and 25kg
- For lower throughputs, see Process Control Corp. specification sheet for 1.25kg & 2.5kg and 5kg & 12kg Guardian® Series Gravimetric Batch Blenders



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