

Thermo Scientific VersaWeigh® IP-66 Option Pack

Key Words

- VersaWeigh
- Corrosion
- IP-66
- Water Egress

VersaWeigh Options Definition IP-66 Option Pack

IP-65 (standard): “No ingress of dust” and “Water projected in jets against the enclosure from any direction shall have no harmful effects.”

IP-66: “No ingress of dust” and “Water projected in powerful jets against the enclosure from any direction shall have no harmful effects.”

The VersaWeigh IP-66 option pack includes a number of upgrades typically requested in washdown or fresh product applications. Purchasing the options as a complete set will be more efficient and cost effective. However, combinations or individual option purchases are available. The IP-66 option pack includes:

Food Grade (FDA) Blue Belts

The standard stretch belts on the base machine can be perceived to be a potential trap for microbiological contaminants as the belt ‘un-stretches.’ The FDA belting (Siegling Transilon) is considered the gold standard in conveyor belts for food and is “legally watertight, protected from microbial attack.”

Siegling tells us “Lab trials show that attack from, for example, E. coli bacteria, in comparison to standard materials, is reduced by 99.5%” (test bacteria Escherichia coli (DSM), film contact method, 37°C/24 h. Study by the Ahlemer Institute in Hanover).

The belt’s blue color (which does not naturally occur in most food material) provides a background that easily shows

soiling. It also can be easily spotted if fragments of the belt end up as contaminants in food products.

This option is also available independently of the IP-66 option pack.

Stainless Steel Rollers

The standard lighter weight, lower rotational mass aluminum rollers are upgraded to 304-grade stainless steel for greater corrosion resistance.

This option is also available independently of the IP-66 option pack.

Stainless Steel Loadcell

The standard aluminum loadcell is also upgraded to stainless steel for greater corrosion resistance from food particles and cleanup. The standard aluminum loadcell is upgraded to stainless steel with the IP-66 option pack.

This option is also available independently of the IP-66 option pack.

Upgraded Seal on Electrical Services Box Door

Stainless steel construction is standard on the electrical service box. An upgraded door seal is used to ensure the IP-66 protection level.

This option is only available as part of the full IP-66 option pack.

Stainless Steel Mountings

Various clamps and attachments are used in the VersaWeigh to ensure handy and cost effective mounting and adjustment for various elements such as the collision bars, photo-eye mount and infeed product guides. These elements are

upgraded to 304-grade stainless steel construction as part of the IP-66 option pack.

This option is only available as part of the full IP-66 option pack.

Passivated Frame

The VersaWeigh’s 304-grade stainless steel construction with a “straight lined” finish is a higher grade finish than most competitive products. The passivation process takes this a step further by removing any “free iron” contamination left behind on the surface of the stainless steel from machining and fabricating. These contaminants are potential corrosion sites that can result in premature corrosion and ultimately result in deterioration of the component if not removed. In addition, the passivation process facilitates the formation of a thin, transparent oxide film that protects the stainless steel from selective oxidation (corrosion).

Description of passivation courtesy of and © Gardner publications, www.pfonline.com. This option is only available as part of the full IP-66 option pack.

Belt Return Scraper

The stainless steel conveyor beds of the VersaWeigh systems include a slotted surface underneath the belt to ensure a vacuum doesn’t form in wet environments. Creating suction between the conveyor bed and the belting can result in an exaggerated load on the motor. Product debris that forms under the belt and becomes

compressed between the belt and rollers creates not only an unsanitary condition but also may result in the belt off-tracking. An angled belt scraper installed against the back-side of the belt return path removes any such debris out of the conveyor and away from the product zone. The belt return scraper is included on all the VersaWeigh conveyors in the IP-66 option pack.

This option is only available as part of the full IP-66 option pack.

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