

Bioprocessing filtration

Encapsulated system holders

The choice for Thermo Scientific production capsules for lab, pilot, and manufacturing applications

Modern convenience for ease of use.

Designed with operator ease and convenience in mind, the Thermo Scientific™ Encapsulated System Holder accommodates all Thermo Scientific production capsules used in upstream and downstream processing. The modular design allows for flexibility to accommodate lab to process scale in a variety of different applications ranging from monoclonal antibody and recombinant protein cell culture harvest to microbial filtration as well as downstream polishing.

- Eliminates the need for stainless-steel housing and the pre and post filtration cleaning and validation steps
- Different holder designs and capsule configurations allow for flexibility at different scales
- Reduces the risk of exposure to fluid when handling used capsules
- Efficient loading and unloading for additional time savings
- Small footprint during use and storage



Thermo Scientific™ Encapsulated System Holder, 16EZA



Thermo Scientific™ Encapsulated System Holder, 16EZB

Thermo Scientific encapsulated system holder, 16EZA

The compact choice for pilot scale processes

Multiple configurations of the compact holder can be used for laboratory and pilot scale-up studies. Either single stage or two-stage operations can be achieved within a single holder, and a built in torque limiter signals to the operator that the assembly is properly sealed for use.

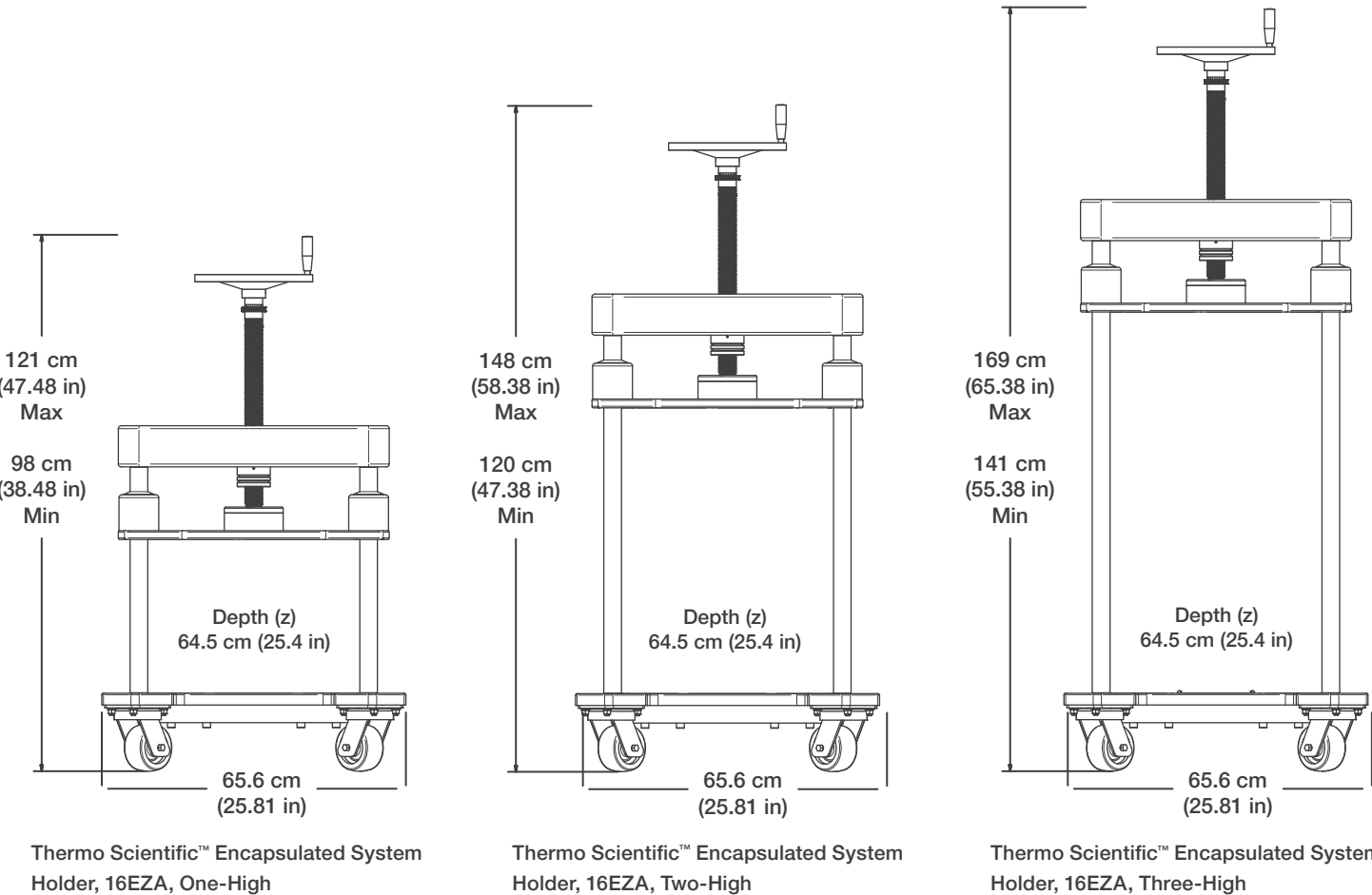
Ordering information

Configurations	Part #
16EZA, 1-High	4552601
16EZA, 2-High	4552603
16EZA, 3-High	4552604

Note:

Two stage operations

For two-stage operations, a second pair of manifolds is required between each stage of operation. Manifold and capsule material should always be the same.



Thermo Scientific encapsulated system holder, 16EZB

The choice for flexibility for pilot and production scale

The ergonomically designed production scale holder, 16EZB, can be conveniently rotated into a horizontal position for loading then rotated upright into a vertical position for operation.

The use of the vertical flow path allows for full media utilization and a small footprint during storage and use.

The encapsulated system holder, 16EZB features:

- Accommodation for 1-7 multi-cell production capsules
- 6-inch wheels for ease of movement
- Rotation handle designed for easy pivoting
- Potential for mounting bracket to accommodate a power assisted mover

Ordering information

Configurations	Part #
16EZB	6135601



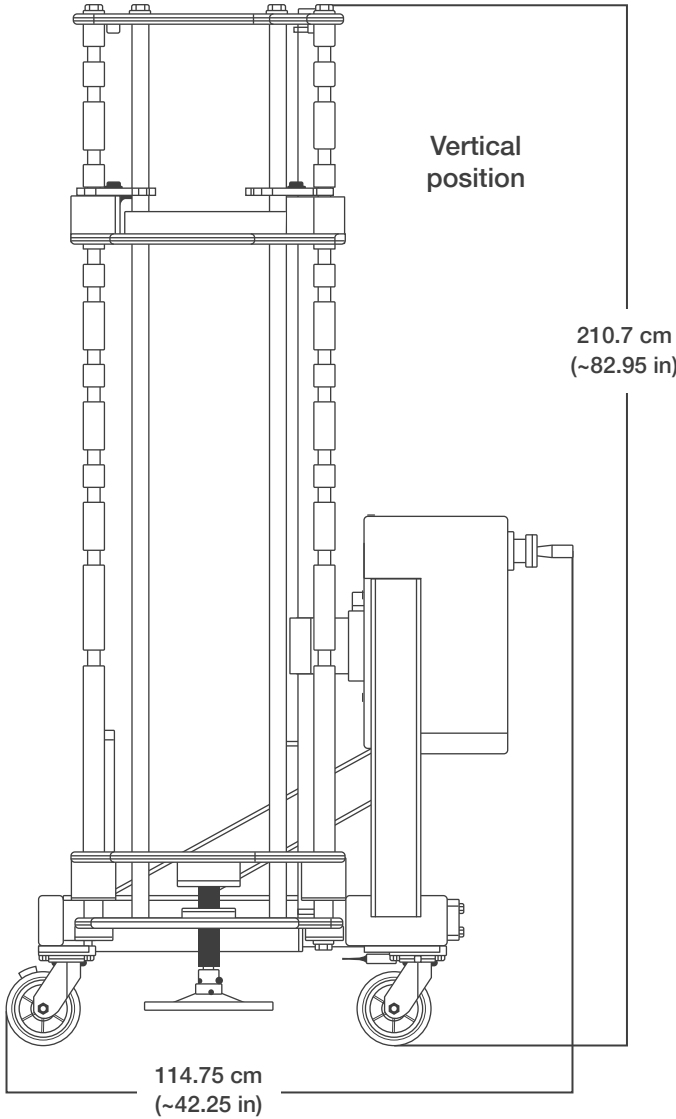
Two-handle locking mechanism



Compatible with power drill adapter in place of manual hand lever



Ease of operation



Strong. Efficient. Flexible.

The Thermo Scientific encapsulated system holder is the partner to all Thermo Scientific production capsules for ease of use and efficiency.

Holder capacity

Holder	Single cell capsules		Multi-cell capsules	
	Single stage	Dual stage*	Single stage	Dual stage*
16EZA, 1-High**	Up to 4	2-3	1	N/A
16EZA, 2-High**	Up to 10	5-8	2	2
16EZA, 3-High**	Up to 11	7-10	3	2
16EZB**	4-26	2-23	Up to 7	2 to 6

* Number of Thermo Scientific production capsules which fit in a Thermo Scientific holder along with two sets of manifolds. For example, 2 single cell production capsules in the first stage followed by 1 single cell production capsule in the second stage.

** Combination of single cell and multi-cell capsules can be achieved but spacers (extra) manifolds may be needed to ensure proper seal.

Holder specifications

Specifications	Holder model	
	16EZA	16EZB
Materials of construction		
Frame	304 stainless steel	304 stainless steel
End plates	304 stainless steel	304 stainless steel
Support rods	316 stainless steel	316 stainless steel
Stand	304 stainless steel	304 stainless steel
Hand wheel/rotation lever	300 series stainless steel	300 series stainless steel
Locking handles	N/A	304 stainless steel
Casters	Stainless steel	Stainless steel
Wheels	Phenolic	Polyurethane
Maximum differential pressure	50 psid (3.4 bar)	
Material finish	Mechanical polish finish	

Intended Use: Single-use filter products are intended for use in biopharmaceutical processing applications of aqueous based pharmaceuticals (drugs) and vaccines in accordance with the product instructions and specifications, and cGMP requirements, where applicable.

Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Thermo Scientific product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the Thermo Scientific product in user's application.

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