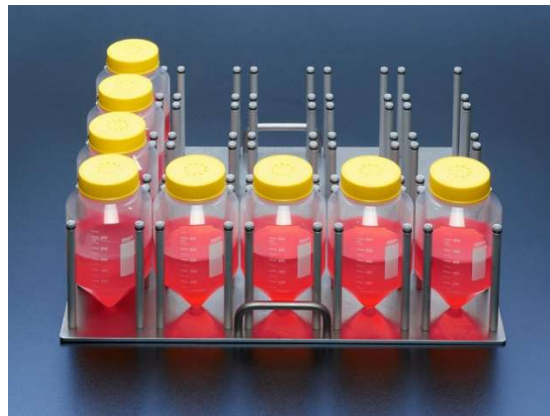




## Kuhner AG Shaker Accessories Compatibility for TubeSpin® Bioreactor 600 mL und 450 mL



**TPP Universal Tray for TubeSpin® Bioreactor 450 / 600 – available via TPP**



TPP 87612

### Accessories

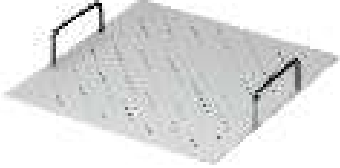
TPP Order No.	Dimensions (W x L) [mm]	Capacity (pcs x mL)	Shaker Type
87411	800 x 420	32 x 450	ISF4-X / ISF4-XC / ISF1-X / ISF1-XC / ISF1-Z(C) Basic / ISF1-Z(C) Peltier / ISF1-Z Basic Beluga  ISF1-Z(C) EcoDew  Lab-Shaker LS-X / ES-X / LS-Z  Rack-System SBM / SS-X
87611	800 x 420	32 x 600	
87421	500 x 420	20 x 450	LT-X / LT-XC
87621	500 x 420	20 x 600	Lab-Shaker LS-X / ES-X / LS-Z
87431	420 x 420	16 x 450	Lab-Shaker LS-X / ES-X / LS-Z / LS-Z with Kelvin+
87631	420 x 420	16 x 600	



**Technical Data**






Measurements		87411 / 87611	87421 / 87621	87431 / 87631
Length	mm	800	500	420
Width	mm	420	420	420
Kuhner Version		FU	EXU	EU
Max filling Volume	tubes	32	20	16

**TPP Universal Tray for TubeSpin® Bioreactor 450 / 600 – available via Kuhner AG**

Order No.	Description Universal Tray	Picture
102201	EU (420 x 420 mm)	
102207	EXU (500 x 420 mm)	
102212	FU (800 x 420 mm)	
107420	CU (800 x 660 mm)	



### Accessories for Universal Trays



Order No.	Description	Picture
102171	Test tube holder RGH-16 24 x 15 mL TubeSpin® bioreactor	
102182	Test tube holder RGH-28 16 x 50 mL TubeSpin® bioreactor	
100639	Holder for Universal trays 24 x 50 mL TubeSpin® bioreactor	
107219	RGH-95 3 x 450 mL TubeSpin® bioreactor	
100633	Test tube holder, straight tubes 3 x 600 ml TubeSpin® bioreactor	
104974	F-Tray for TubeSpin® bioreactor 600 F-600/28	
105414	Tray for TubeSpin® bioreactor 600 F-600/32	



**Trays for 50 mL TubeSpin® Bioreactor**

Order No.	Description	Number of TubeSpin® Bioreactor 50 mL
102207 + 3 x 100639	Tray EX (420 x 420 mm)	3 x 24 = 72
100679	Tray F (800 x 420 mm)	5 x 24 = 120



Order No.	Description	Picture
100125	Holder for 24 x 50 mL TubeSpin® bioreactor holder is mounted on a base plate	
105186	Test tube holder 5 x TPP TubeSpin® bioreactor 600, straight tubes	
108226	Tube set for holder 105186 5 x TPP 450ml	

For more technical information on shakers and trays from Kuhner AG please visit  
<https://kuhner.com> and/or contact office@kuhner.com



## Technical Data

### TubeSpin® Bioreactor 450 / 600

Component	Material
Screw Cap	Polyethylene (PE)
Membrane	Polytetrafluoroethylene (PTFE)
Tube	Polypropylene (PP)

Measurements	87450	87600
Volume graduation mL	450	600
Length mm	145	183
Diameter mm	96	100
Max. RCF x g	3'500	3'500
Form	conical	conical
Optimal fill volume mL	>300	>400
Shaker: Recom. orbit / shaking	50	50
Shaker: Recom. speed RPM	150	150

Accessories	87450	87600
Screw cap "solid"	87355	87355
Screw cap "filter"	87356	87356

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