

Xps-721

— 96 and 384- Channel Total Pipetting Solution

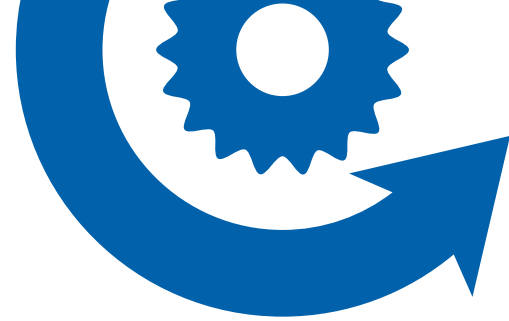
The **xps-721** systems offer 96 and 384 channel high performance pipetting that is ideal for low-volume or high-volume multichannel microplate pipetting and serial dilution applications .

The microprocessor-controlled pipetting mechanism provides accurate and precise pipetting of microliter or sub-microliter volumes of samples into 96, 384 and 1536 microplates and the high-speed pipetting system provides short processing times by delivering liquids through up to 96, or 384, channels simultaneously with precise volume control.



- Two versions of the 96 channel **xps-721** are available: The **xps-721-96H** for working with higher volumes and the **xps-721-96L** for low volumes.
- **xps-721** system is available with either 96 or 384 pipetting channels for fast 384 processing in 96-well plates, or for 384 plate replication applications.
- Flexible design for liquid transfers and pipetting operations for 96, 384 and 1536-well microplates and can also be used for serial dilutions by row or column.
- Uses unique easy-change head system, allowing the user to build a diverse head library with a reasonable investment. The heads are interchangeable with other pipettors.
- Select from 9 to 15 deck positions that can be used for plates, reservoirs, or tips for optimal walkway automation.
- Automatic disposable tip loading and unloading for ESP tips and Biomek® FX compatible disposable tips. The disposable tip loading location is accessible by robotics for expanded capacity.
- Intuitive graphical user interface via serial interface control.
- Small footprint conserves bench space and fits easily into suitably-sized hoods.

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The **xps-721** pipettors represent a new generation of affordable liquid handling systems with the versatility and reliability required for today's demanding laboratory environment. With the innovative Externally Sealed Pipette (ESP™) tips, the **xps-721** pipetting systems surpass its competition in terms of applications diversity and reliability. These powerful pipettors have a compact size that fits easily on laboratory benches and also can be placed in suitable laboratory hoods.

Both 96-channel and 384-channel **xps-721** systems use a unique head design which employs high-precision manufacturing to produce reasonably priced heads that are independent of the pipetting mechanism.

These systems electronically load and unload pipetting heads in a few seconds, allowing simple and easy set-up for the task at hand.

The 96-channel **xps-721** will automatically index the pipetting head if necessary for accessing 384-well plates, and the 384-channel **xps-721** will perform this action to access 1536-well plates.

Depending on the liquid handling options chosen, the 96 channel version of the **xps-721** can cover a volume range from 0.5ul to 550ul.

OPTIONS

96-channel **xps-721**

- Low-volume version with 125 ul pipettors for optimal pipetting as low as 0.5 ul.
- High-volume version with 550 ul pipetting channels for up to 550 ul pipetting.
- Fixed tip heads with 8, 12 and 96 channels.
- Disposable tip heads with 8, 12 or 96 channels for Apricot 550 tips.

384-channel **xps-721**

- Fixed tip heads with 8, 12, 16, 24, 96 and 384 channels.
- Disposable tip heads with 8, 12, 16, 24, 96 or 384 channels for ESP tips.

All models

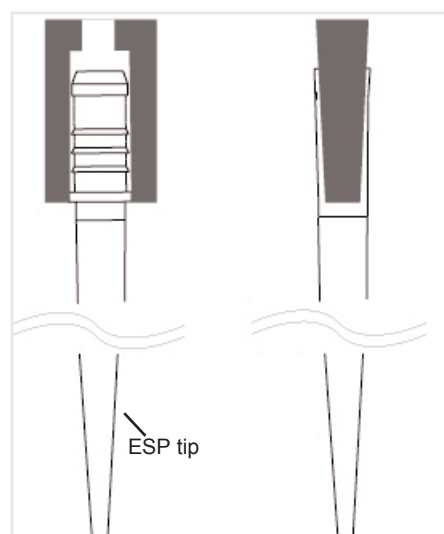
- Tip washing system with recirculating pump.
- Optional built-on ducted or recirculating hood enclosure.

APPLICATIONS

- Serial dilution (by row or column).
- Plate replication.
- Plate reformatting.
- Reagent addition.
- Compound addition.

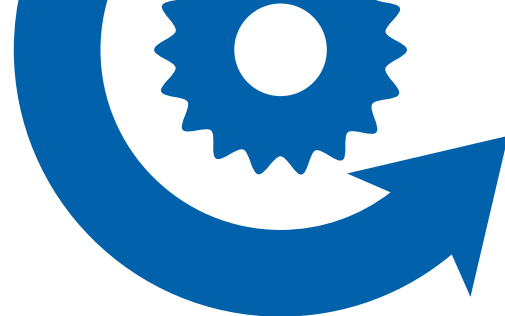
AUTOMATION

- The open deck design makes it easy to use robotics to supply labware and disposable tips to all **xps-721** systems and can be integrated as part of an automation workcell.



ESP tip design compared with conventional

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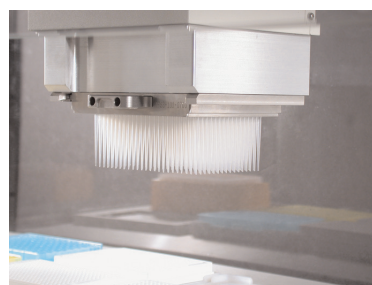
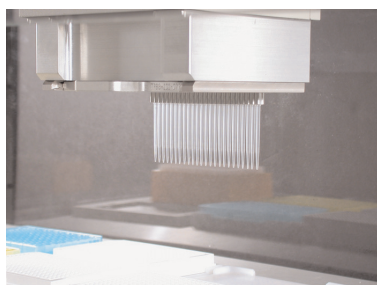
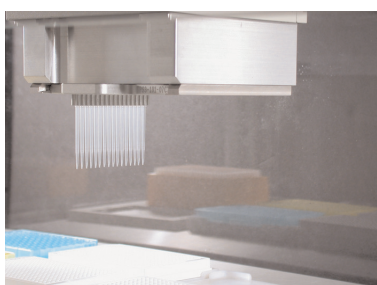


ACCESSORIES

Fixed Tip Heads. All fixed tip heads feature stainless steel tips with PTFE coating on inside and outside and have an internal diameter of 58mm.

Part No.	No. of Channels	Max. Vol. per Tip (ul)	Plate Compatibility	Serial Dilution
30-2001	384	125	384, 1536*	None
30-2002	384	25	384, 1536*	None
30-2003	16	125	384, 1536*	Columns only
30-2004	24	125	384, 1536*	Rows only
30-2005	96 (4-in-1)	500	96, 384*	None
30-2006	96 (offset)	125	96, 384*	None
30-2007	96 (offset)	25	96, 384*	None
30-2008	8 (offset)	125	96, 384*	Columns only
30-2009	12 (offset)	125	96, 384*	Rows only

* The xps-721 will automatically position the tips for these plates.



Disposable Tip Heads

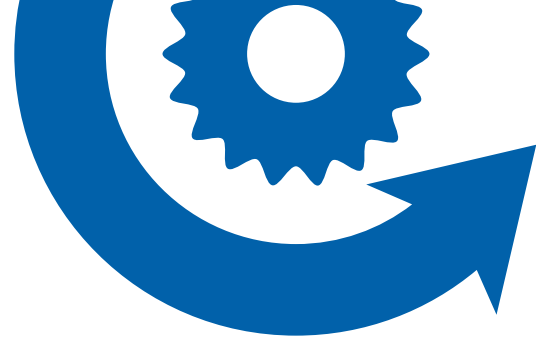
Part No.	Compatible Tips	No. of Channels	Max. Vol. per Tip (ul)	Plate Compatibility	Serial Dilution
30-1001	ESP 50 ul & 125 ul	384	125	384, 1536*	None
30-1002	ESP 50 ul & 125 ul	16	125	384, 384*	Columns only
30-1003	ESP 50 ul & 125 ul	24	125	384, 1536*	Rows only
30-1004	Apricot 550ul	96 (4-in-1)	500	96, 384*	None
30-1005	ESP 50 ul & 125 ul	96 (offset)	125	96, 384*	None
30-1006	ESP 50 ul & 125 ul	8 (offset)	125	96, 384*	Columns only
30-1007	ESP 50 ul & 125 ul	12 (offset)	125	96, 384*	Rows only
30-1008		96	550	96, 384*	None
30-1009	Apricot 550ul	96	550	96, 384*	Rows or columns**

* The xps-721 will automatically position the tips for these plates.

** The xps-721 will automatically load the correct number of tips for serial dilution by either row or column.

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Specifications

96-channel xps-721

Dispensing Precision	(L) (H)	<2% CV at 1 ul <2% CV at 5 ul
Dispensing Accuracy	(L) (H)	+/- 1% at 1 ul +/- 1% at 10 ul
Resolution	(L) (H)	0.1 ul 1 ul
Pipette Volume	(L) (H)	0.5 - 125 ul 1 - 550 ul
Dimensions		(3x3) 711L x 585W x 686H mm (3x4) 889L x 585W x 686H mm (3x5) 1042L x 585W x 686H mm
Weight		Approx. 95 kg
Power		100 to 240 VAC, 50/60 HZ
Operating Temperature		10 - 38 °C

384-channel xps-721

Dispensing Precision	<2% CV at 1 ul (96) <2.8% CV at 1 ul (384) <2% CV at 5 ul (96 4-in-1)
Dispensing Accuracy	+/- 1% at 1 ul (96) +/- 1.25% at 1 ul (384)
Resolution	0.1 ul
Pipette Volume	0.5 - 125 ul (1 - 500 ul with 4-in-1 head)
Dimensions	(3x3) 711L x 585W x 686H mm (3x4) 889L x 585W x 686H mm (3x5) 1042L x 585W x 686H mm
Weight	Approx. 95 kg
Power	100 to 240 VAC, 50/60 HZ
Operating Temperature	10 - 38 °C

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