



# Get it Right!

Find the most suitable Pipetting System with the Eppendorf Liquid Handling Selection Chart

# Liquid Handling Selection Chart 1.1: Small Volumes (µL up to 10 mL)

Volume range	Vessel format	Liquid type	Throughput	Complexity	Recommended liquid handling instrument	
Small volumes (µL up to 10 mL)	Plate	Aqueous	High	High	epMotion®	
			High	Low	Xplorer®/Xplorer® plus MC, Xplorer plus Move It®, epMotion 96®, epMotion®, VisioNize® pipette manager	
			Low	High	epMotion®, Xplorer plus Move It®, Xplorer®/Xplorer® plus MC	
			Low	Low	Research® plus MC, Reference® 2, Research plus Move It®	
		Challenging <sup>1</sup>	High	High	epMotion®	
			Low	High	Multipette® E3/E3x, epMotion® 96, VisioNize® pipette manager	
	Tube & Plate	Aqueous	High	High	epMotion®	
			High	Low	Xplorer plus Move It®, epMotion®, VisioNize® pipette manager	
			Low	High	Xplorer plus Move It®, epMotion®	
			Low	Low	Research plus Move It®	
		Challenging <sup>1</sup>	High	High	epMotion®	
			High	Low	Multipette® E3/E3x, Xplorer plus Move It® (chart 2: "associated tips")	
			Low	High	Multipette® E3/E3x, Xplorer plus Move It®, epMotion®	
			Low	Low	Multipette® M4, Research® plus Move It® (chart 2: "associated tips")	
		Tube	Aqueous	High	High	epMotion®
				High	Low	Xplorer/Xplorer plus SC, Multipette® E3/E3x, epMotion®, VisioNize® pipette manager
				Low	High	Xplorer/Xplorer plus SC, Multipette® E3/E3x
			Challenging <sup>1</sup>	High	Low	Research® plus SC, Reference® 2 SC, Multipette® M4
High	High			epMotion®		
Low	High			Multipette® E3/E3x, epMotion®, VisioNize® pipette manager		
		Low	High	Multipette® E3/E3x, epMotion®		
		Low	Low	Multipette® M4		

<sup>1</sup>Liquids with viscosity, volatility, surface tension or density other than water as well as hot, cold or hazardous liquids.

<sup>2</sup>Complexity of task, e.g. pipetting of many different liquids or volumes.

MC = multi-channel, SC = single-channel

epMotion® includes the models epMotion® 5070, 5073 and 5075

## Liquid Handling Selection Chart 1.2: Large Volumes (5 - 100 mL)

Volume range	Vessel format	Liquid type	Throughput	Complexity <sup>1</sup>	Recommended liquid handling instrument
<b>Large volumes</b> (5-100 mL)	<b>Bottle</b>	Aqueous	Low	Low	<b>Varispenser® 2/2x (max 100 mL),            Top Buret® (titration, endless mL),            Pipet Helper® / Easypet® 3 (max 50 mL),            Varipette® 4720 (max 10 mL)</b>
		Challenging <sup>3</sup>	Low	Low	<b>Varispenser® 2/2x (max 100 mL),            Top Buret® (titration, endless mL),            Pipet Helper® / Easypet® 3 (max 50 mL),            Varipette® 4720 (max 10 mL)</b>
	<b>Large Tube<sup>2</sup></b>	Aqueous	Low	Low	<b>Multipette® M4 (max 50 mL),            Pipet Helper® / Easypet® 3 (max 50 mL),            Varipette® 4720 (max 10 mL)</b>
			High	Low	<b>Multipette® E3/E3x (max 50 mL),            Easypet® 3 (max 50 mL)</b>
		Challenging <sup>3</sup>	Low	Low	<b>Multipette® E3/E3x (max 50 mL),            Pipet Helper® / Easypet® 3 (max 50 mL),            Varipette® 4720 (max 10 mL)</b>
			High	Low	<b>Multipette® E3 / E3x (max 50 mL),            Easypet® 3 (max 50 mL)</b>

<sup>1</sup>Complexity of task, e.g. pipetting of many different liquids or volumes.

<sup>2</sup>All vessels with single channel format like 50 mL conicals or cell culture vessels.

<sup>3</sup>Liquids with viscosity, volatility, surface tension or density other than water as well as hot, cold or hazardous liquids.

# Liquid Handling Selection Chart 2: Associated Tips

Liquid handling device	Contamination risk	Liquid type	Recommended tip	Available purity grade
Varipette® 4720	No	Aqueous	Varitips® S + Maxitip	Eppendorf Quality™
		Volatile	Varitips® S + Maxitip with valve	Eppendorf Quality™
		Other Challenging <sup>1</sup>	Varitips® P	Eppendorf Quality™
	Yes	Aqueous / Challenging <sup>1</sup>	Varitips® P	Eppendorf Quality™
Easypet® 3, Pipet Helper®	No / Yes	Aqueous / Challenging <sup>1</sup>	Eppendorf serological pipets (include a filter)	Sterile
Multipette®	Avoids contamination by functional principle	Aqueous	Combitips® advanced	Eppendorf Quality™, PCR clean, Biopur®, Forensic DNA Grade
		Viscous	ViscoTip®	Eppendorf Quality™
		Other Challenging <sup>1</sup>	Combitips® advanced	Eppendorf Quality™, PCR clean, Biopur®, Forensic DNA Grade
Research® plus, Reference® 2, Xplorer®, Xplorer® plus	No	Aqueous	epT.I.P.S.®, epT.I.P.S.® Motion	Eppendorf Quality™, PCR clean, Biopur® <sup>2</sup>
		Challenging <sup>1</sup>	epT.I.P.S.®, epT.I.P.S.® Motion	Eppendorf Quality™, PCR clean
VisioNize® pipette manager, Move It® epMotion® 96, epMotion®	Yes	Aqueous	epT.I.P.S.® Motion with filter, ep Dualfilter T.I.P.S.®, ep Dualfilter T.I.P.S.® SealMax®	PCR clean, PCR clean + sterile, Forensic DNA Grade <sup>2</sup>
		Challenging <sup>1</sup>	epT.I.P.S.® Motion with filter, ep Dualfilter T.I.P.S.®, ep Dualfilter T.I.P.S.® SealMax	PCR clean, PCR clean + sterile

<sup>1</sup>Liquids with viscosity, volatility, surface tension or density other than water as well as hot, cold or hazardous liquids.

<sup>2</sup>epT.I.P.S.® Motion only available in Eppendorf Quality™, PCR clean, Sterile, and PCR clean + sterile