



# Get it Right!

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

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# 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<br>(µL up to 10 mL) | Plate                    | Aqueous                  | High                          | High   | epMotion®   |
|                                   |                          |                          | Low                           | Low  | Xplorer®/Xplorer® plus MC, Xplorer plus Move It®, epMotion 96®, epMotion®, VisioNize® pipette manager |
|                                   |                          | Challenging <sup>1</sup> | High                          | High   | epMotion®, Xplorer plus Move It®, Xplorer®/Xplorer® plus MC   |
|                                   |                          |                          | Low                           | Low  | Research® plus MC, Reference® 2, Research plus Move It®   |
|                                   |                          | Aqueous                  | High                          | High   | epMotion®   |
|                                   |                          |                          | Low                           | Low  | Multipette® E3/E3x, epMotion® 96, VisioNize® pipette manager  |
|                                   | Challenging <sup>1</sup> | High                     | High                          | Multipette® E3/E3x, epMotion®  |   |
|                                   |                          | Low                      | Low                           | Multipette® M4   |   |
|                                   | Tube & Plate             | Aqueous                  | High                          | High   | epMotion®   |
|                                   |                          |                          | Low                           | Low  | Xplorer plus Move It®, epMotion®, VisioNize® pipette manager  |
|                                   |                          | Challenging <sup>1</sup> | High                          | High   | Xplorer plus Move It®, epMotion®  |
|                                   |                          |                          | Low                           | Low  | Research plus Move It®  |
|                                   |                          | Aqueous                  | High                          | High   | epMotion®   |
|                                   |                          |                          | Low                           | Low  | Multipette® E3/E3x, Xplorer plus Move It® (chart 2: "associated tips")                                |
|                                   | Challenging <sup>1</sup> | High                     | 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®   |
|                                   |                          |                          | Low                           | Low  | Xplorer/Xplorer plus SC, Multipette® E3/E3x, epMotion®, VisioNize® pipette manager                    |
| Challenging <sup>1</sup>          |                          | High                     | High                          | Xplorer/Xplorer plus SC, Multipette® E3/E3x                          |   |
|                                   |                          | Low                      | Low                           | Research® plus SC, Reference® 2 SC, Multipette® M4                   |   |
| Aqueous                           |                          | High                     | High                          | epMotion®  |   |
|                                   |                          | Low                      | Low                           | Multipette® E3/E3x, epMotion®, VisioNize® pipette manager            |   |
| Challenging <sup>1</sup>          | High                     | 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

## 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><br>(5-100 mL) | <b>Bottle</b>                 | Aqueous                  | Low        | Low                     | <b>Varispenser® 2/2x (max 100 mL),<br/>           Top Buret® (titration, endless mL),<br/>           Pipet Helper® / Easypet® 3 (max 50 mL),<br/>           Varipette® 4720 (max 10 mL)</b> |
|                                    |                               | Challenging <sup>3</sup> | Low        | Low                     | <b>Varispenser® 2/2x (max 100 mL),<br/>           Top Buret® (titration, endless mL),<br/>           Pipet Helper® / Easypet® 3 (max 50 mL),<br/>           Varipette® 4720 (max 10 mL)</b> |
|                                    | <b>Large Tube<sup>2</sup></b> | Aqueous                  | Low        | Low                     | <b>Multipette® M4 (max 50 mL),<br/>           Pipet Helper® / Easypet® 3 (max 50 mL),<br/>           Varipette® 4720 (max 10 mL)</b>  |
|                                    |                               |                          | High       | Low                     | <b>Multipette® E3/E3x (max 50 mL),<br/>           Easypet® 3 (max 50 mL)</b>  |
|                                    |                               | Challenging <sup>3</sup> | Low        | Low                     | <b>Multipette® E3/E3x (max 50 mL),<br/>           Pipet Helper® / Easypet® 3 (max 50 mL),<br/>           Varipette® 4720 (max 10 mL)</b>  |
|                                    |                               |                          | High       | Low                     | <b>Multipette® E3 / E3x (max 50 mL),<br/>           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®                     |
|   |  | Challenging <sup>1</sup>           | epT.I.P.S.®, epT.I.P.S.® Motion   | Eppendorf Quality™, PCR clean                              |
| VisioNize® pipette manager, Move It®<br>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         |
|   |  | 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.