

# CONFIDENCE YOU CAN QUANTIFY WITH AUTOMATION DESIGNED FOR qPCR



## PRE-CONFIGURED APPLICATION- BASED WORKSTATIONS FOR AUTOMATING qPCR

Your results deserve more than “good enough.” qPCR is too important to leave to chance, and PIPETMAX® 268 qPCR and PIPETMAX® 278 qPCR deliver the precision and consistency only automation can provide. Built on the same trusted PIPETMAN® accuracy scientists rely on, these configurations help protect sensitive workflows and remove the variability that comes with manual pipetting.

Every setup becomes simpler and more repeatable with tools designed specifically for qPCR. UV/HEPA protection helps safeguard your assays, while example methods and guided setup tools—such as the qPCR Assistant—streamline plate preparation for users of all experience levels. The additional Normalization Assistant further reduces the risk of human error and stress by automating dilution and normalization steps.

When you need support, you are never on your own. Real Gilson scientists and application specialists are available to provide training, workflow optimization, and protocol guidance, helping ensure that your qPCR automation protects your samples, your data, and ultimately— your confidence.

## KEY BENEFITS

- **UV/HEPA protection helps reduce contamination risk** and maintain a clean qPCR environment
- **Automatic built-in tip intelligence** minimizes unnecessary tip usage while maximizing speed and efficiency
- **Optional chilling module** helps preserve reagent integrity for sensitive workflows
- **Optional thermal and shaking modules** support temperature-sensitive and mixing-dependent steps
- **Flexible programming options** to fit your workflow, including:
  - Example qPCR protocol for immediate, reliable setup
  - qPCR Assistant for guided, step-by-step preparation
  - Normalization Assistant for automated dilution and normalization
  - Optional Protocol Builder for fully customized methods



pipetmax®  
268



pipetmax®  
278

### THIS APPLICATION-CONFIGURED SYSTEM INCLUDES:

- PIPETMAX® 268 or PIPETMAX® 278 configured for qPCR
- UV/HEPA filter system
- Example qPCR protocol
- qPCR and Normalization Assistants
- Optional modules for temperature-sensitive workflows
- Standard PIPETMAN® DIAMOND Tips compatibility

## TECHNICAL SPECIFICATIONS

|                                               | PIPETMAX 268                                  | PIPETMAX 278                                  |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Volume Range                                  | 1–200 µL                                      | 1–200 µL                                      |
| Bed Capacity                                  | 9 positions                                   | 16 positions                                  |
| Dimensions with Riser and UV/HEPA (W × D × H) | 64 x 73.5 x 108 cm                            | 95.0 x 68.4 x 109.9 cm                        |
| Weight with Riser and UV/HEPA                 | 106 kg                                        | 118 kg                                        |
| UV/HEPA                                       | PIPETMAX 268 UV/HEPA module kit               | PIPETMAX 278 UV/HEPA module kit               |
| Tip Type                                      | PIPETMAN® DIAMOND Tips                        | PIPETMAN® DIAMOND Tips                        |
| Target Throughput                             | Low throughput                                | High throughput                               |
| Pipette Heads                                 | Two interchangeable heads (MAX8x20, MAX8x200) | Two interchangeable heads (MAX8x20, MAX8x200) |
| Software                                      | TRILUTION® micro Software                     | TRILUTION® micro Software                     |

### Volumetric Specification for Transfers

#### MAXIMUM PERMISSIBLE ERRORS

| Pipette Head | Volume of Distilled Water | Systematic Error (µL) | Random Error (µL) | Systematic Error (%) | Random Error (%) |
|--------------|---------------------------|-----------------------|-------------------|----------------------|------------------|
| MAX8X20      | 1 µL                      | ±0.08                 | ≤0.05             | 8.00                 | 5.00             |
|              | 2 µL                      | ±0.09                 | ≤0.06             | 4.50                 | 3.00             |
|              | 10 µL                     | ±0.15                 | ≤0.10             | 1.50                 | 1.00             |
|              | 20 µL                     | ±0.25                 | ≤0.12             | 1.25                 | 0.60             |
| MAX8X200     | 20 µL                     | ±0.50                 | ≤0.16             | 2.50                 | 0.80             |
|              | 100 µL                    | ±1.00                 | ≤0.30             | 1.00                 | 0.30             |
|              | 200 µL                    | ±2.00                 | ≤0.50             | 1.00                 | 0.25             |
| MAX4X1200    | 50 µL                     | ±4.00                 | ≤0.70             | 8.00                 | 1.40             |
|              | 120 µL                    | ±4.00                 | ≤0.70             | 3.33                 | 0.58             |
|              | 600 µL                    | ±6.00                 | ≤1.50             | 1.00                 | 0.25             |
|              | 1200 µL                   | ±9.60                 | ≤1.80             | 0.80                 | 0.15             |

#### qPCR SYSTEM INCLUDES:

- Two interchangeable pipette heads
- Tip reload blocks
- Selection of tube racks
- UV/HEPA filtration module
- Underbed tip disposal unit
- TRILUTION® micro Software
- Tip starter pack

## OPTIONAL ACCESSORIES

| PIPETMAX 268 qPCR                        | PIPETMAX 278 qPCR                        |
|------------------------------------------|------------------------------------------|
| Magnetic bead rack                       | Magnetic bead rack                       |
| Heater/Shaker                            | Heater/Chiller/Shaker                    |
| Interchangeable head MAX4x1200 (1200 µL) | Interchangeable head MAX4x1200 (1200 µL) |
| Protocol Builder Software                | Protocol Builder Software                |