

## Machine Specifinations

### Specifications of PET-48A2 Injection Molding System

|                                    |                                              |        |                  |        |
|------------------------------------|----------------------------------------------|--------|------------------|--------|
| Model                              |                                              |        | PET-48 ( ¢ 95mm) |        |
| Injection unit                     | Screw diameter                               | mm     | 95               | 110    |
|                                    | Injection pressure                           | Mpa    | 152              | 113.4  |
|                                    | Shot weight                                  | g      | 2900             | 3900   |
|                                    |                                              | oz     | 102.37           | 137.67 |
| Clamping unit                      | Clamping force                               | T      | 260              |        |
|                                    | Toggle stroke                                | mm     | 700              |        |
|                                    | Max./Min.mold thickness                      | mm     | 300~750          |        |
|                                    | Space between tie bars (W×H)                 | mm     | 750x750          |        |
|                                    | Ejector stroke                               | mm     | 200              |        |
|                                    | Ejector force                                | Ton    | 77(142-40)       |        |
| Max. system pressure               |                                              |        | 175              |        |
| Machine dimensions (L× W×H)        |                                              |        | 1100x4800x2500   |        |
| Injection mold                     | Number of cavity (max.)                      | Piece  | 48               |        |
|                                    | Thread                                       | mm     | 38               |        |
|                                    | Preform length                               | mm     | 80-120           |        |
|                                    | Preform weight                               | g      | 35               |        |
| Electrical System                  | Power of plasticizing motor & barrel heating | KW     | 50.4+85          |        |
|                                    | Oil pump motor                               | KW     | 75               |        |
|                                    | Robot power                                  | KW     | 20               |        |
|                                    | Temperature controller (0~400℃)              | set    | 6                |        |
|                                    | Power of filter pump motor                   | KW     | 7.5              |        |
|                                    | Mold heating capacity                        | KW     | 36.548           |        |
| Automatic preform extracting robot | Vacuum suction nozzle                        | Cavity | 144              |        |
|                                    | Three-station preform cooling                | pcs    | 144              |        |
| General                            | Power supply (AC, three-phase, four-wire)    | V      | 380              |        |
|                                    |                                              | KAV    | 250              |        |
|                                    | Chilled water                                | ℃      | 5~15             |        |
|                                    |                                              | Mpa    | 0.6              |        |
|                                    |                                              | L/min  | 1000             |        |

|                                                                         |                    |       |         |
|-------------------------------------------------------------------------|--------------------|-------|---------|
|                                                                         | Cooling water type | ℃     | <35     |
|                                                                         |                    | Mpa   | 0.25    |
|                                                                         |                    | L/min | 400     |
|                                                                         | Compressed air     | Mpa   | 0.7~0.9 |
|                                                                         |                    | L/min | 1500    |
| Note: Productivity is calculated with cooling water temperature of 5~8℃ |                    |       |         |

#### Specifications of PET-72A2 Injection Molding System

|                             |                                              |        |                    |        |
|-----------------------------|----------------------------------------------|--------|--------------------|--------|
| Model                       |                                              |        | PET-72 ( ∅ 110mm ) |        |
| Injection unit              | Screw diameter                               | mm     | 110                | 120    |
|                             | Injection pressure                           | Mpa    | 130.2              | 109.4  |
|                             | Shot weight                                  | g      | 3950               | 4700   |
|                             |                                              | oz     | 139.44             | 165.91 |
| Clamping unit               | Clamping force                               | T      | 360                |        |
|                             | Toggle stroke                                | mm     | 780                |        |
|                             | Max./Min.mold thickness                      | mm     | 400~820            |        |
|                             | Space between tie bars (W×H)                 | mm     | 800x850            |        |
|                             | Ejector stroke                               | mm     | 200                |        |
|                             | Ejector force                                | Ton    | 137(182-40)        |        |
| Max. system pressure        |                                              |        | 175                |        |
| Machine dimensions (L× W×H) |                                              |        | 1100x4800x2500     |        |
| Injection mold              | Number of cavity (max.)                      | Piece  | 72                 |        |
|                             | Thread                                       | mm     | 28                 |        |
|                             | Preform length                               | mm     | 80-120             |        |
|                             | Preform weight                               | g      | 35                 |        |
| Electrical System           | Power of plasticizing motor & barrel heating | KW     | 50.4+97.45         |        |
|                             | Power of oil pump motor                      | KW     | 75                 |        |
|                             | Robot power                                  | KW     | 20                 |        |
|                             | Temperature controller (0~400℃)              | set    | 6                  |        |
|                             | Power of filter pump motor                   | KW     | 7.5                |        |
|                             | Mold heating capacity                        | KW     | 41.216             |        |
| Automatic                   | Vacuum suction nozzle                        | Cavity | 216                |        |

|                                                                         |                                              |       |         |
|-------------------------------------------------------------------------|----------------------------------------------|-------|---------|
| preform<br>extracting<br>robot                                          | Three-station preform<br>cooling             | pcs   | 216     |
| General                                                                 | Power supply (AC,<br>three-phase, four-wire) | V     | 380     |
|                                                                         |                                              | KAV   | 250     |
|                                                                         | Chilled water                                | ℃     | 5～15    |
|                                                                         |                                              | Mpa   | 0.6     |
|                                                                         |                                              | L/min | 1200    |
|                                                                         | Cooling water                                | ℃     | <35     |
|                                                                         |                                              | Mpa   | 0.25    |
|                                                                         |                                              | L/min | 400     |
|                                                                         | Compressed air                               | Mpa   | 0.7～0.9 |
|                                                                         |                                              | L/min | 1500    |
| Note: Productivity is calculated with cooling water temperature of 5~8℃ |                                              |       |         |

### Specifications of PET-96A2 Injection Molding System

|                             |                                           |        |                |        |
|-----------------------------|-------------------------------------------|--------|----------------|--------|
| Model                       |                                           |        | PET-96         |        |
| Injection unit              | Screw diameter                            | mm     | 120            | 130    |
|                             | Injection pressure                        | Mpa    | 124.4          | 106    |
|                             | Shot weight                               | g      | 4900           | 5790   |
|                             |                                           | oz     | 172.97         | 204.39 |
| Clamping unit               | Clamping force                            | T      | 450            |        |
|                             | Toggle stroke                             | mm     | 880            |        |
|                             | Max./Min.mold thickness                   | mm     | 450~950        |        |
|                             | Space between tie bars (W×H)              | mm     | 920x1020       |        |
|                             | Ejector stroke                            | mm     | 250            |        |
|                             | Ejector force                             | Ton    | 166            |        |
| Max. system pressure        |                                           | kg/cm2 | 175            |        |
| Machine dimensions (L× W×H) |                                           | mm     | 1250x4800x2500 |        |
| Injection mold              | Number of cavity (max.)                   |        | 96             |        |
|                             | Thread                                    | mm     | 28             |        |
|                             | Preform length                            | mm     | 80-120         |        |
|                             | Preform weight                            | g      | 28             |        |
| Electrical System           | Power plasticizing motor & barrel heating | KW     | 50.4+115       |        |
|                             | Power of oil pump motor                   | KW     | 75             |        |

|                                                                            |                                              |        |         |
|----------------------------------------------------------------------------|----------------------------------------------|--------|---------|
|                                                                            | Robot power                                  | KW     | 20      |
|                                                                            | Temperature controller<br>(0~400℃)           | set    | 6       |
|                                                                            | Power of filter pump<br>motor                | KW     | 7.5     |
|                                                                            | Mold heating capacity                        | KW     | 52.228  |
| Automatic<br>preform<br>extracting<br>robot                                | Vacuum suction nozzle                        | cavity | 288     |
|                                                                            | Three-station preform<br>cooling             | pcs    | 288     |
| General                                                                    | Power supply (AC,<br>three-phase, four-wire) | V      | 380     |
|                                                                            |                                              | KAV    | 250     |
|                                                                            | Chilled water                                | ℃      | 5~15    |
|                                                                            |                                              | Mpa    | 0.8     |
|                                                                            |                                              | L/min  | 1500    |
|                                                                            | Cooling water                                | ℃      | <35     |
|                                                                            |                                              | Mpa    | 0.25    |
|                                                                            |                                              | L/min  | 400     |
|                                                                            | Compressed air                               | Mpa    | 0.7~0.9 |
|                                                                            |                                              | L/min  | 1500    |
| Note: Productivity is calculated with cooling water temperature of<br>5~8℃ |                                              |        |         |