



# EP

High pressure

- Turbulence™ filter
- Plunger pump: 7.0 MPa, 6.0 MPa, 3.5 MPa, 3.0 MPa
- Compatible with the TAZUNA™ fluid control system (software)



# ET·ES

Medium pressure

- Turbulence™ filter
- Trochoid™ pump: 2.0 MPa, 1.5 MPa
- Compatible with the TAZUNA™ fluid control system (software)



| Series name                                                                  | E Series EP<br>(Specification: Turbulence™ filter + Plunger pump)                                     |                       |                       |                                            | E Series ET·ES<br>(Specification: Turbulence™ filter + Trochoid™ pump) |                       |                       |                       |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------------------------|------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|
| Specifications for pump proper                                               |                                                                                                       |                       |                       |                                            |                                                                        |                       |                       |                       |
| Pump model                                                                   | P008<br>50 Hz / 60 Hz                                                                                 | P010<br>50 Hz / 60 Hz | P014<br>50 Hz / 60 Hz | P016<br>50 Hz / 60 Hz                      | T208<br>50 Hz / 60 Hz                                                  | T216<br>50 Hz / 60 Hz | S208<br>50 Hz / 60 Hz | S216<br>50 Hz / 60 Hz |
| Flow rate (ℓ/min)                                                            | 12.0 / 14.4                                                                                           | 15.0 / 18.0           | 21.0 / 25.2           | 24.0 / 28.8                                | 12.0 / 14.4                                                            | 24.0 / 28.8           | 12.0 / 14.4           | 24.0 / 28.8           |
| Compatible fluid                                                             | Water-soluble coolant fluid / Straight oil                                                            |                       |                       |                                            | Water-soluble coolant fluid / Straight oil                             |                       |                       |                       |
| Maximum allowable viscosity (mm <sup>2</sup> /s)<br>(Filtration performance) | 15 (20 μm), 32(50 μm)                                                                                 |                       |                       |                                            | 15 (20 μm), 32 (50 μm)                                                 |                       |                       |                       |
| Liquid temperature range (°C)                                                | -5~60                                                                                                 |                       |                       |                                            |                                                                        |                       |                       |                       |
| Rotational speed (r/min)                                                     | 1500 / 1800                                                                                           |                       |                       |                                            |                                                                        |                       |                       |                       |
| Maximum pressure (MPa)                                                       | 7.0 / 7.0                                                                                             | 7.0 / 6.0             | 7.0 / 7.0             | 3.5 / 3.0(2.2 kW)<br>7.0 / 6.0(3.7 kW)     | 1.5 / 1.5                                                              | 2.0 / 2.0             | 1.5 / 1.5             | 2.0 / 2.0             |
| Total pump head (m)                                                          |                                                                                                       |                       |                       |                                            |                                                                        |                       |                       |                       |
| Filter type                                                                  | Wire screen filter                                                                                    |                       |                       |                                            |                                                                        |                       |                       |                       |
| Filtration performance (Nominal value)                                       | 20 μm / 50 μm                                                                                         |                       |                       |                                            | 20 μm / 50 μm                                                          |                       |                       |                       |
| Contaminant drain port flow rate(ℓ/min)                                      | 30~40 (Pressure 0.02 MPa)                                                                             |                       |                       |                                            |                                                                        |                       |                       |                       |
| Remarks                                                                      | Install a plate filter of #18 or finer mesh on the suction end of the tank.                           |                       |                       |                                            |                                                                        |                       |                       |                       |
| Painted color of the pump section                                            | Flat black (Approximately Munsell N1.0)                                                               |                       |                       |                                            |                                                                        |                       |                       |                       |
| Approximate weight (kg)                                                      | 20                                                                                                    |                       |                       |                                            | 16                                                                     |                       |                       |                       |
| Relief valve specifications                                                  |                                                                                                       |                       |                       |                                            |                                                                        |                       |                       |                       |
| Type                                                                         | External return type                                                                                  |                       |                       |                                            |                                                                        |                       |                       |                       |
| Relief pressure setting (MPa)                                                | 7.0, 7.0                                                                                              | 7.0, 6.0              | 7.0, 7.0              | 3.5, 3.0(2.2 kW)<br>7.0, 6.0(3.7 kW)       | 1.5, 1.5                                                               | 2.0, 1.5              | 1.5, 1.5              | 2.0, 1.5              |
| Motor specifications ※1                                                      |                                                                                                       |                       |                       |                                            |                                                                        |                       |                       |                       |
| Model No.                                                                    | 2200A3                                                                                                |                       | 3700A3                | 2200A3,3700A3                              | 750A3                                                                  | 1500A3                | 750A3                 | 1500A3                |
| Specifications                                                               | 3-phase, squirrel-cage induction motor, totally enclosed, external fan, flange-mounting configuration |                       |                       |                                            |                                                                        |                       |                       |                       |
| Output (kW)                                                                  | 2.2                                                                                                   |                       | 3.7                   | 2.2, 3.7                                   | 0.75                                                                   | 1.5                   | 0.75                  | 1.5                   |
| Voltage (V)                                                                  | 200/200/220/230                                                                                       |                       | 200/200/220/230       |                                            | 200/200/220/230                                                        | 200/200/220/230       | 200/200/220/230       | 200/200/220/230       |
| Frequency (Hz)                                                               | 50/60/60/60                                                                                           |                       | 50/60/60/60           |                                            | 50/60/60/60                                                            | 50/60/60/60           | 50/60/60/60           | 50/60/60/60           |
| Rotational speed (r/min)                                                     | 1460/1755/1765/1770                                                                                   |                       | 1460/1755/1765/1765   | 1460/1755/1765/1770<br>1460/1755/1765/1765 | 1440/1730/1745/1745                                                    | 1445/1740/1750/1755   | 1440/1730/1745/1745   | 1445/1740/1750/1755   |
| Rating                                                                       | S1                                                                                                    |                       |                       |                                            |                                                                        |                       |                       |                       |
| Current (A)                                                                  | 10.6/9.40/9.20/9.20                                                                                   |                       | 15.6/14.6/13.8/13.6   | 10.6/9.40/9.20/9.20<br>15.6/14.6/13.8/13.6 | 3.80/3.40/3.40/3.40                                                    | 6.80/6.40/6.00/6.00   | 3.80/3.40/3.40/3.40   | 6.80/6.40/6.00/6.00   |
| Number of phases                                                             | 3                                                                                                     |                       |                       |                                            |                                                                        |                       |                       |                       |
| Number of poles                                                              | 4P                                                                                                    |                       |                       |                                            |                                                                        |                       |                       |                       |
| Insulation class                                                             | F                                                                                                     |                       |                       |                                            |                                                                        |                       |                       |                       |
| Approximate weight (kg)                                                      | 33                                                                                                    |                       | 42                    | 33, 42                                     | 18                                                                     | 23                    | 18                    | 23                    |
| Protection rating                                                            | IP55                                                                                                  |                       |                       |                                            |                                                                        |                       |                       |                       |
| Efficiency class                                                             | IE3                                                                                                   |                       |                       |                                            |                                                                        |                       |                       |                       |
| Compliance CE                                                                | ○                                                                                                     |                       |                       |                                            |                                                                        |                       |                       |                       |



# CT

Medium pressure

- Double-cyclone filter
- Trochoid™ pump: 2.0 MPa, 1.5 MPa
- Compatible with the TAZUNA™ fluid control system (software)



# CI

Large flow Lowpressure

- Cyclone filter
- Impeller pump: 406 5 m (Total pump head)



| Series name                                                     | C Series CT<br>(Specification: Double cyclone filter + Trochoid™ pump)                                |                       | C Series CI<br>(Specification: Cyclone filter + Impeller pump)                                                                                |                              |                              |                              |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|
| Specifications for pump proper                                  |                                                                                                       |                       |                                                                                                                                               |                              |                              |                              |
| Pump model                                                      | T208<br>50 Hz / 60 Hz                                                                                 | T216<br>50 Hz / 60 Hz | I155                                                                                                                                          | I152                         | I305                         | I302                         |
| Flow rate (ℓ/min)                                               | 12.0 / 14.4                                                                                           | 24.0 / 28.8           | 150 (Maximum)                                                                                                                                 |                              | 300 (Maximum)                |                              |
| Compatible fluid                                                | Water-soluble coolant fluid                                                                           |                       | Water-soluble coolant fluid / Straight oil                                                                                                    |                              |                              |                              |
| Maximum allowable viscosity (mm²/s)<br>(Filtration performance) | 22                                                                                                    |                       | 22                                                                                                                                            |                              |                              |                              |
| Liquid temperature range (°C)                                   | -5~60                                                                                                 |                       |                                                                                                                                               |                              |                              |                              |
| Rotational speed (r/min)                                        | 1500 / 1800                                                                                           |                       | 3000                                                                                                                                          | 3600                         | 3000                         | 3600                         |
| Maximum pressure (MPa)                                          | 2.0                                                                                                   |                       |                                                                                                                                               |                              |                              |                              |
| Total pump head (m)                                             |                                                                                                       |                       | 55                                                                                                                                            | 40                           | 65                           | 45                           |
| Filter type                                                     | Cyclone x 2 stages                                                                                    |                       | Cyclone x 1 stage                                                                                                                             |                              |                              |                              |
| Filtration performance (Nominal value)                          | 100 μm : 99.9%, 50 μm : 95%                                                                           |                       | Water-soluble coolant fluid 100 μm : 99.9% (Silica sand: Specific weight 2.7)<br>Straight oil 100 μm : 80% (Silica sand: Specific weight 2.7) |                              |                              |                              |
| Contaminant drain port flow rate (ℓ/min)                        | 30~40 (Pressure 0.02 MPa)                                                                             |                       | 20~35<br>(Pressure 0.02 MPa)                                                                                                                  | 25~40<br>(Pressure 0.02 MPa) | 45~60<br>(Pressure 0.02 MPa) | 50~70<br>(Pressure 0.02 MPa) |
| Remarks                                                         | Install a plate filter of #18 or finer mesh on the suction end of the tank.                           |                       |                                                                                                                                               |                              |                              |                              |
| Painted color of the pump section                               | Flat black (Approximately Munsell N1.0)                                                               |                       |                                                                                                                                               |                              |                              |                              |
| Approximate weight (kg)                                         | 16                                                                                                    |                       | 23                                                                                                                                            |                              | 34                           | 33                           |
| Relief valve specifications                                     |                                                                                                       |                       |                                                                                                                                               |                              |                              |                              |
| Type                                                            | External return type                                                                                  |                       |                                                                                                                                               |                              |                              |                              |
| Relief pressure setting (MPa)                                   | 2.0, 1.5                                                                                              |                       |                                                                                                                                               |                              |                              |                              |
| Motor specifications ※1                                         |                                                                                                       |                       |                                                                                                                                               |                              |                              |                              |
| Model No.                                                       | 750A3                                                                                                 | 1500A3                | 1500AC                                                                                                                                        |                              | 3700AC                       |                              |
| Specifications                                                  | 3-phase, squirrel-cage induction motor, totally enclosed, external fan, flange-mounting configuration |                       |                                                                                                                                               |                              |                              |                              |
| Output (kW)                                                     | 0.75                                                                                                  | 1.5                   | 1.5                                                                                                                                           |                              | 3.7                          |                              |
| Voltage (V)                                                     | 200/200/220/230                                                                                       | 200/200/220/230       | 200/200/220/230                                                                                                                               |                              | 200/200/220/230              |                              |
| Frequency (Hz)                                                  | 50/60/60/60                                                                                           | 50/60/60/60           | 50/60/60/60                                                                                                                                   |                              | 50/60/60/60                  |                              |
| Rotational speed (r/min)                                        | 1440/1730/1745/1745                                                                                   | 1445/1740/1750/1755   | 2890/3460/3485/3495                                                                                                                           |                              | 2910/3490/3515/3525          |                              |
| Rating                                                          | S1                                                                                                    |                       |                                                                                                                                               |                              |                              |                              |
| Current (A)                                                     | 3.80/3.40/3.40/3.40                                                                                   | 6.80/6.40/6.00/6.00   | 6.00/5.80/5.40/5.20                                                                                                                           |                              | 13.6/13.2/12.2/11.8          |                              |
| Number of phases                                                | 3                                                                                                     |                       |                                                                                                                                               |                              |                              |                              |
| Number of poles                                                 | 4P                                                                                                    |                       | 2P                                                                                                                                            |                              |                              |                              |
| Insulation class                                                | F                                                                                                     |                       |                                                                                                                                               |                              |                              |                              |
| Approximate weight (kg)                                         | 18                                                                                                    | 23                    | 20                                                                                                                                            |                              | 36                           |                              |
| Protection rating                                               | IP55                                                                                                  |                       |                                                                                                                                               |                              |                              |                              |
| Efficiency class                                                | IE3                                                                                                   |                       |                                                                                                                                               |                              |                              |                              |
| Compliance CE                                                   | ○                                                                                                     |                       |                                                                                                                                               |                              |                              |                              |

※1 Please contact us if you need more information about motor specifications.