



# Seiko Seiki STP-H2002C

## Technical Specifications

| Item  | MODEL                            | STP-H301C                   | STP-H451C        | STP-H803C        | STP-H1303C       | STP-H2002C       |
|---|----------------------------------|-----------------------------|------------------|------------------|------------------|------------------|
| Nominal diameter                              | Inlet                            | ISO100F                     | ISO160F          | ISO160F          | ISO200F          | ISO250F          |
|   | Outlet                           | KF40                        | KF40             | KF40             | KF40             | KF40             |
| Pumping speed                                 | for N <sub>2</sub> [l/s] Note 1) | 300                         | 450              | 800              | 1300             | 2100             |
|   | for H <sub>2</sub> [l/s] Note 1) | 200                         | 300              | 600              | 1000             | 1600             |
| Compression ratio                             | for N <sub>2</sub>               | >10 <sup>8</sup>            |                  |                  |                  |                  |
|   | for H <sub>2</sub>               | 10 <sup>3</sup>             | 10 <sup>3</sup>  | 10 <sup>4</sup>  | 10 <sup>4</sup>  | 10 <sup>4</sup>  |
| Ultimate Pressure [Torr] Note 1)              |                                  | 10 <sup>-9</sup>            | 10 <sup>-9</sup> | 10 <sup>-9</sup> | 10 <sup>-9</sup> | 10 <sup>-9</sup> |
| Admissible flowrate [SCCM] Note 1)            |                                  | 1800                        | 1800             | 1500             | 1500             |                  |
| Admissible Inlet pressure [Torr] Note 1)      |                                  | 2                           | 2                | 0.1              | 0.1              | 0.1              |
| Admissible Outlet pressure [Torr] Note 1)     |                                  | 5                           | 5                | 2.0              | 2.0              | 4                |
| Rotational speed [rpm]                        |                                  | 48000                       | 48000            | 32500            | 32500            | 27000            |
| Start-up time [min]                           |                                  | 3                           | 3                | 7                | 7                | 7                |
| Stopping time [min]                           |                                  | 3                           | 3                | 8                | 8                | 8                |
| Bake-out temperature [°C]                     |                                  | <120°C                      |                  |                  |                  |                  |
| Lubricant                                     |                                  | Not required                |                  |                  |                  |                  |
| Mounting position                             |                                  | Free                        |                  |                  |                  |                  |
| Type of cooling                               |                                  | Water cooling               |                  |                  |                  |                  |
| Weight  | Pump [kg]                        | 15                          | 15               | 39               | 37               | 65               |
|   | Control unit [kg]                | 9                           |                  |                  |                  | 28 (without TMS) |
| Power supply [ACV]                            |                                  | 100~120V±10% / 200~240V±10% |                  |                  |                  | 200~240V±10%     |
| Frequency [Hz]                                |                                  | 50/60 ±2                    |                  |                  |                  |                  |
| Phase   |                                  | Single phase                |                  |                  |                  |                  |
| Admissible ambient temperature [°C] (Storage) |                                  | 0~40°C                      |                  |                  |                  |                  |
|   |                                  | (-20~40°C)                  |                  |                  |                  |                  |
| Battery                                       |                                  | Not required                |                  |                  |                  |                  |
| Input power (MAX) [VA]                        |                                  | 1200                        |                  |                  |                  | 2400             |
| TMS control unit                              |                                  | Self-contained              |                  |                  |                  |                  |

These specification are not final.

