

## Technical Data

Product: MAG W 1300 iP  
Part No.: 411300V0504

|                                                   |                             |                             |
|---------------------------------------------------|-----------------------------|-----------------------------|
| Inlet connection:                                 | DN 200 ISO-F                |                             |
| Outlet connection:                                | DN 40 ISO-KF                |                             |
| Purge gas / venting connection:                   | DN 16 ISO-KF (clamp shoe)   |                             |
| Pumping speed                                     |                             |                             |
| N <sub>2</sub> - Nitrogen:                        | 1100 l/s                    |                             |
| Ar - Argon:                                       | 1050 l/s                    |                             |
| He - Helium:                                      | 1130 l/s                    |                             |
| H <sub>2</sub> - Hydrogen:                        | 1220 l/s                    |                             |
| Gas throughput                                    |                             |                             |
| N <sub>2</sub> - Nitrogen: (continuous operation) | 20.0 mbar x l/s             |                             |
| N <sub>2</sub> - Nitrogen: (temporary)            | 30.0 mbar x l/s             |                             |
| Ar - Argon: (continuous operation)                | 15.0 mbar x l/s             |                             |
| Ar - Argon: (temporary)                           | 20.0 mbar x l/s             |                             |
| Compression ratio                                 |                             |                             |
| N <sub>2</sub> - Nitrogen:                        | $> 1.0 \times 10^8$         |                             |
| Ar - Argon:                                       | $> 1.0 \times 10^8$         |                             |
| He - Helium: (at 1 sccm)                          | $2.0 \times 10^5$           |                             |
| H <sub>2</sub> - Hydrogen: (at 1 sccm)            | $8.0 \times 10^3$           |                             |
| Ultimate pressure:                                | $< 1.0 \times 10^{-8}$ mbar | $< 7.5 \times 10^{-9}$ Torr |
| Max. foreline pressure for N <sub>2</sub> :       | 4.0 mbar                    | 3.0 Torr                    |
| Max. foreline pressure for Ar:                    | 0.6 mbar                    | 0.45 Torr                   |
| Nominal rotation speed:                           | 37800 min <sup>-1</sup>     | 37800 rpm                   |
| Run -up time:                                     | < 7 min                     |                             |
| Mains connection:                                 | 200-240 V, 50/60 Hz         |                             |
| Max. power consumption:                           | 750 W                       |                             |
| Power consumption at ultimate pressure:           | 150 W                       |                             |
| Interfaces                                        |                             |                             |
| Control Slot:                                     | ProfiBus                    |                             |
| Service Slot:                                     | RS232                       |                             |
| Protection rating:                                | IP 54                       |                             |

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|                                          |                       |              |
|------------------------------------------|-----------------------|--------------|
| Admissible ambient temperature:          | +10 to +45°C          | +50 to 113°F |
| Cooling:                                 | Water                 |              |
| Cooling water connection:                | G 1/8", Inside thread |              |
| Cooling water consumption:               | > 60 l/h              |              |
| Max. Permissible cooling water pressure: | 6 bar                 |              |
| Permissible cooling water temperature:   | +10 to +35°C          | +50 to +95°F |
| Dimensions:                              | see dimension sheet   |              |
| Weight:                                  | ≈ 40.0 kg             |              |

Technical data are subject to change