

Cooler By Design.™





Packaged Gas TECHNICAL SPECIFICATION PERMA-CYL® 5000 MAXX Standard



1. General

Type of tank: Stationary liquid cylinder Gas service: LIN, LOX, LAR, CO_2 , N_2O

Gross capacity: 4855 |
Net capacity @ 95% filling: 4612 |
Volume tolerance: ± 4%

Empty weight 18 bar: up to 2200 kg (weight depends on selected options) Empty weight 22 bar: up to 2400 kg (weight depends on selected options) Empty weight 37 bar: up to 2950 kg (weight depends on selected options) up to 2950 kg (weight depends on selected options) up to 20 Nm3/h*, optionally 65 Nm3/h* and or 130 Nm3/h* up to 7 Nm3/h*, optionally 20 Nm3/h* and or 42 Nm3/h*

MIN./MAX. ambient temperature: -30 °C / +50 °C

Overall dimensions (LxWxH): 2490 x 2150 x 2930 mm (Height with pallet frame is 3100 mm)

Max. allowable working pressure: 18 bar, 22bar, 37 bar

Design regulation: PED (EN 13458; ISO 21009)

Notified body: TÜV NORD

Continues flow 8 h per day @ 20°C; peak flow is approximately +40% of above

listed continues flow rates

2. Pressure vessel

Design code: PED (EN 13458; ISO 21009)
Material: Stainless steel 1.4301

MIN./MAX. allowable temperature: -196 °C / +50 °C Piping material: Stainless steel

3. Outer jacket

Design code: EN 13458; ISO 21009
Material: Stainless steel 1.4301
MIN./MAX. allowable temperature: -196 °C / +50 °C

Outer diameter: 1900 mm

4. Insulation

Type of insulation: Super insulation

Net evaporation rate: 0,26% per day (LOX); 0,42% (LIN)

5. Plumbing

Safety relief valves: 2 off, each safety relief valve designed for 100 %

capacity

Piping material: Stainless steel, copper Pressure build-up vaporizer: External aluminum star fins

Product vaporizer: External aluminum star fins (modular system)

© Chart Ferox, a.s



DP Gauge: Digital DP gauge Cyl-Tel (4-20 mA included)

For Russia: Wika 712.15.100 (4-20 mA as an option)

Other options available – see option list

6. Connection

Fill line (Top and Bottom): Flange EN 1092-1/11/B1/DN40/PN40

Extra Bottom Liquid Withdrawal: 1/2" NPT Female Trycock: 1/4" NPT Female Gas Use: 1/2" NPT Female

7. Documentation

Data Dossier: Tank dossier in English electronically

Operation Manual: Operating manual electronically either in English or on

request in language of final destination (may be subject

of additional charges)

Paper Dossier & Operation Manual: Optional

8. Miscellaneous

Final surface: Buffed stainless-steel surface or optional white paint Legs: 1x adjustable + 3x fixed or up to 4 adjustable legs

Pallet Frame: Only optional accessory – see option C07