

hydracell^{G03, G04, G10}

PISTON MEMBRANE PUMPS

The piston-diaphragm pumps **Hydracell** with multimembrane head provide smooth pulseless flow in a wide range of flow rates and delivery pressure with high repeatability and accuracy and are ideal for dosing mobile phase into large preparative units.

Hydracell G03 is the piston-diaphragm pump with anti cavitation system "Kell-Cell". Special system of channels equalizing pressure on both sides of the membrane, which prevents cavitation damage of the pump. Stainless steel head and sturdy construction ensure long life and minimal maintenance costs, as well as double hydraulically balanced diaphragm and sealing free piston design. Checking the oil level stops the engine when the level drops to prevent mixing of oil into the mobile phase in the case of destruction of some of the membranes.

- Smooth pulse less flow
- Anti-cavitation system Kell-Cell
- "Heavy Duty" design
- Hydraulically balanced diaphragm on both sides
- Wide range of flows and delivery extrusion heights
- Repeatability and high accuracy - ideal for dosing
- Piston sealing free design - minimal maintenance costs



Wanner **Hydracell** G10 with cam are used for different types of applications, usually involving liquids recycling. They provide smooth pulse less flow in a wide range of flow rates and pressures with high repeatability and accuracy and are ideal for dosing. Checking the oil level in the pump, followed by stopping the engine when the level drops, to prevent mixing of oil into the mobile phase in the case of destruction of some of the membranes.

- Smooth pulse less flow
- Anti-cavitation system Kell-Cell
- "Heavy Duty" design
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The pumps are equipped with heads made of stainless steel (AISI 316). They are suitable for temperatures up to 70° C and are supplied with engine, clutch and durable metal frame for installation in industry. Both G03 and G10 pumps can be supplied also in a version for hazardous areas according to ATEX Ex de II T4.

Wanner **Hydracell** G04 are used for high flow, high pressure application. They also can be used in higher temperature range. They are the piston-diaphragm pumps with anti cavitation system "Kell-Cell". Special system of channels equalizing pressure on both sides of the membrane, which prevents cavitation damage of the pump. Stainless steel head and sturdy construction ensure long life and minimal maintenance costs, as well as double hydraulically balanced diaphragm and sealing free piston design.

PRESSURE FILTERS on pump output

Pressure filters are closed pressure vessels made of two flanges with a frit (filter) between input and output. They are quite similar to prep chromatography columns in fact. *Separfil* XXX/YYY units are designed with a filter frit made either of stainless steel (3 µm pore size) or of non woven polypropylene fabric (10 µm pore size). Frit (filter) sealing is made of UHMWPE. Pressure filters make good service to save input column frit as samples under separation are a source of solid or gel particles. XXX numbers specify frit diameter and YYY number maximal pressure for filter use.

Type	Max. flow l/min.	Max. pressure bar	Note
HYDRACELL G-03-X	11,3	69	
HYDRACELL G-03-E	8,3	83	
HYDRACELL G-03-S	6,8	83	
HYDRACELL G-10-X	29	70	
HYDRACELL G-10-I	14,9	70	
HYDRACELL G-04 X	11,3	170	
HYDRACELL G-04-E	7,8	170	
HYDRACELL G-04-S	6,1	170	