

LEAFLET for Atropos

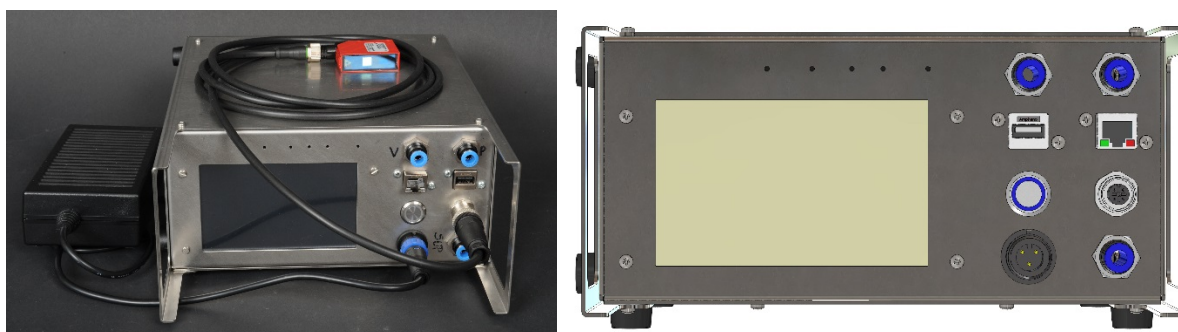
Single channel SUP/CFF drive unit for the Euterpe diaphragm Single-Use-Pump's.

Product, model name	Atropos-1
Purpose	Single SUP control
Drive gas pressure supply	>1 - <4 bar atmospheric
Drive gas vacuum supply	<0,1 bar absolute
Power supply	24 VDC, 2 amp
Hephaestus cabinet size	U2
Weight, kilo	3.5

Design

Atropos-1 is a very compact control unit supporting the Euterpe type of Single-Use-Pump cells. Euterpe is a unique stand-alone Positive Displacement Single-Use-Pump from PumpCell. The Euterpe family is remarkable as there is no need for expensive external mass-flow sensor's. No need for tools exchanging the SUP cell. No need for bulky pump heads and sensor's. No nano size silicone particles polluting the liquid.

Driving Euterpe SUP's requires pressure above and vacuum below atmospheric pressure from Atropos. The SUP drive gas pressure is continuously adjusted via a set of proportional valves inside Atropos. Intelligent microprocessor in the Apollon PLC with advanced PID algorithms get information from Laser and pressure sensor's.



Atropos is so small and compact that all electronics fits inside the Hephaestus U2 Stainless Steel cabinet.

Specification

When Atropos is connected to a pressure and vacuum source with sufficient capacity, then the spec is:

- Stroke frequency, per minute: 1 - 60 (depending on pressured air / vacuum capacity)
- Stroke duration, seconds: 1 - 60 (depending on pressured air / vacuum capacity)

Euterpe SUP size, names	Euterpe-30	Euterpe-100	Euterpe-200	Euterpe-300
Stroke Volume, SV, mL/stroke	1-34	1-104	2-200	3-300
Cardiac Output, CO range, mL/min	1-750	2-1.500	3-3.000	4-4.000

Communication

- Internal 5" touch sensitive TFT display or external to PADs or smart Phones via Wi-Fi for programming and info from the built-in webserver
- USB port for USB adapter/Wi-Fi connection and 5 VDC / 1 amp charging smart Phones
- RJ45 for IP/TCP via LAN and ModBus communication