

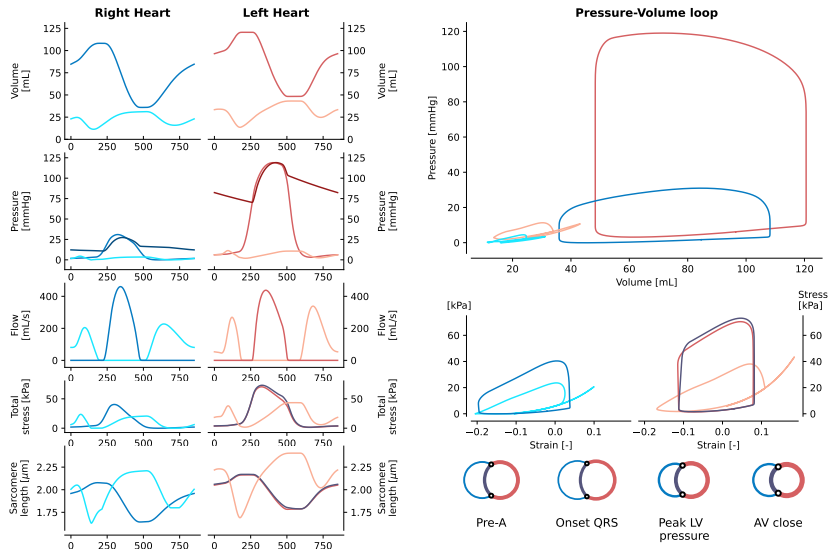
pyCircAdapt Cheat Sheet

VanOsta2024

Initialize the model

```
>>> import circadapt
>>> model = circadapt.VanOsta2024()
>>> model.run(1)
>>> model.plot()
```

Standard plot



Patch

	Unit	pLa0	pRa0	pLv0	pSv0	pRv0
Am_ref	-	4.3e-3	4.0e-3	9.7e-3	2.9e-3	1.1e-2
V_wall	-	4.5e-6	2.1e-6	7.4e-5	1.9e-5	3.7e-5
v_max	-	14	14	7	7	7
l_se0	-	0.04	0.04	0.04	0.04	0.04
l_s0	-	2	2	2	2	2
l_s_ref	-	2	2	2	2	2
dl_s_pas	-	1	1	1	1	1
Sf_pas	Pa	2248.5	2684.8	731.2	729.1	749.5
tr	-	0.40	0.40	0.25	0.25	0.25
td	-	0.40	0.40	0.25	0.25	0.25
Sf_act	Pa	84000	84000	120000	120000	120000
k1	-	10	10	10	10	10
dt	-	0.0	0.0	0.0	0.0	0.0
l_si0	-	1.51	1.51	1.51	1.51	1.51
LDAD	-	1.06	1.06	1.06	1.06	1.06
ADO	-	0.65	0.65	0.65	0.65	0.65
LDCC	-	4.00	4.00	4.00	4.00	4.00

Valve

	Unit	SyVenRa	RaRv	RvPuArt	PuVenLa	LaLv	LvSyArt
A_open	-	5.0e-4	4.7e-4	4.7e-4	5.1e-4	5.0e-4	5.0e-4
A_leak	-	1.0e-9	1.0e-9	1.0e-9	1.0e-9	1.0e-9	1.0e-9
l	-	1.3e-2	1.2e-2	1.2e-2	1.3e-2	1.3e-2	1.3e-2
L_fac_prox	-	7.5e-1	7.5e-1	7.5e-1	7.5e-1	7.5e-1	7.5e-1
L_fac_dist	-	7.5e-1	7.5e-1	7.5e-1	7.5e-1	7.5e-1	7.5e-1
L_fac_valve	-	1.5e+0	1.5e+0	1.5e+0	1.5e+0	1.5e+0	1.5e+0
papillary_muscles	-	False	False	False	False	False	False
*.slope	-	1.0e+2	1.0e+2	1.0e+2	1.0e+2	1.0e+2	1.0e+2
*.min	-	1.0e-1	1.0e-1	1.0e-1	1.0e-1	1.0e-1	1.0e-1
*A_open_fac	-	1.0e-1	1.0e-1	1.0e-1	1.0e-1	1.0e-1	1.0e-1
soft_closure	-	True	True	True	True	True	True

General

	Unit	
t_cycle	-	0.85

Bag

	Unit	Peri
k	-	10.0
p_ref	-	1000.0
V_ref	-	5.4e-4

Chamber

	Unit	La	Ra
buckling	-	True	True

PFC

	Unit	PFC
p0	-	1.2e+4
q0	-	8.5e-5
stable_threshold	-	1.0e-4
is_active	-	True
epsilon	-	4.0e-1
is_volume_control	-	False
target_volume	-	8.1e-4

Timings

	Unit	Timings
time_fac	-	1.0e+0
tau_av	-	1.5e-1
dtau_av	-	0.0e+0
law_tau_av	-	1.0e+0
law_Ra2La	-	1
law_ta	-	1
law_tv	-	1
c_tau_av0	-	0.0e+0
c_tau_av1	-	1.8e-1
c_ta_rest	-	0.0e+0
c_ta_tcycle	-	1.8e-1
c_tv_rest	-	1.0e-1
c_tv_tcycle	-	4.0e-1

Tube0D

	Unit	SyArt	SyVen	PuArt	PuVen
l	-	4.0e-1	4.0e-1	2.0e-1	2.0e-1
A_wall	-	1.1e-4	6.6e-5	9.5e-5	8.2e-5
k	-	1.7	2.3	1.7	2.3
p0	-	1.2e+4	2.9e+2	2.1e+3	8.3e+2
A0	-	5.0e-4	5.0e-4	4.7e-4	5.1e-4

ArtVen

	Unit	CiSy	CiPu
p0	-	6.3e+3	1.0e+3
q0	-	4.5e-5	4.5e-5
k	-	1.0	2.0