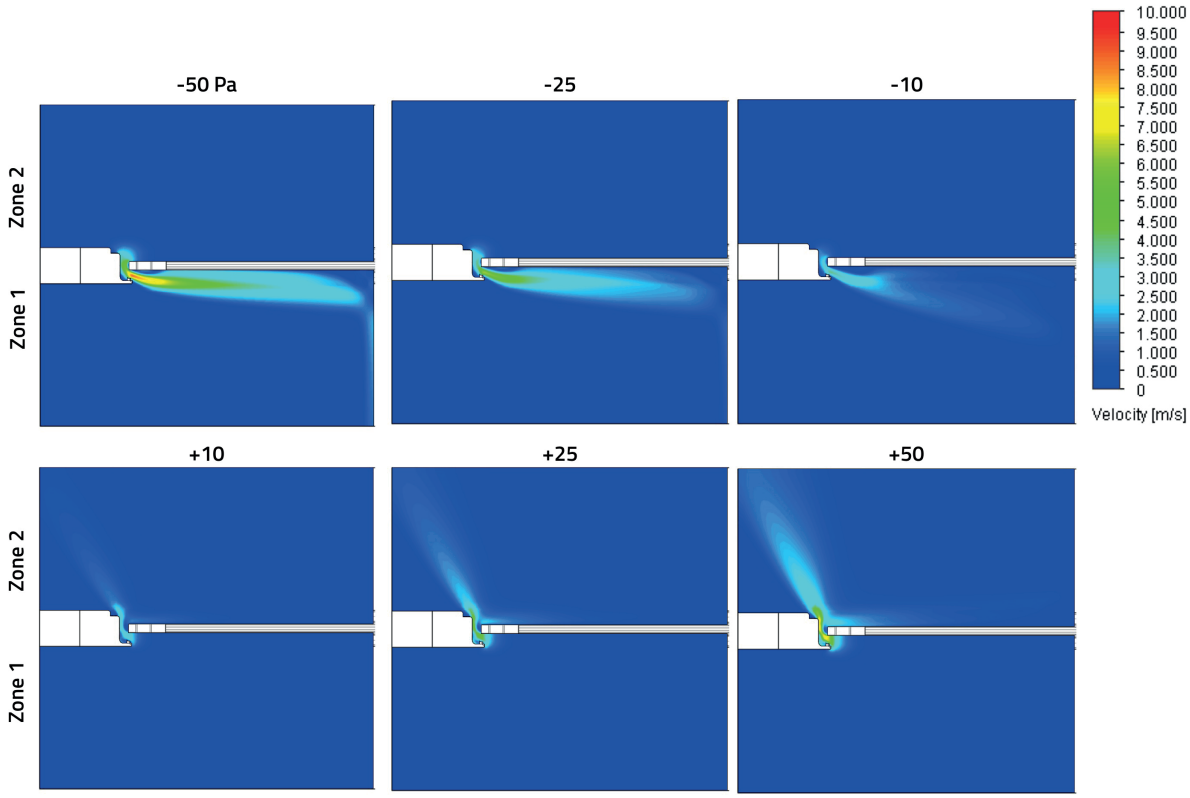
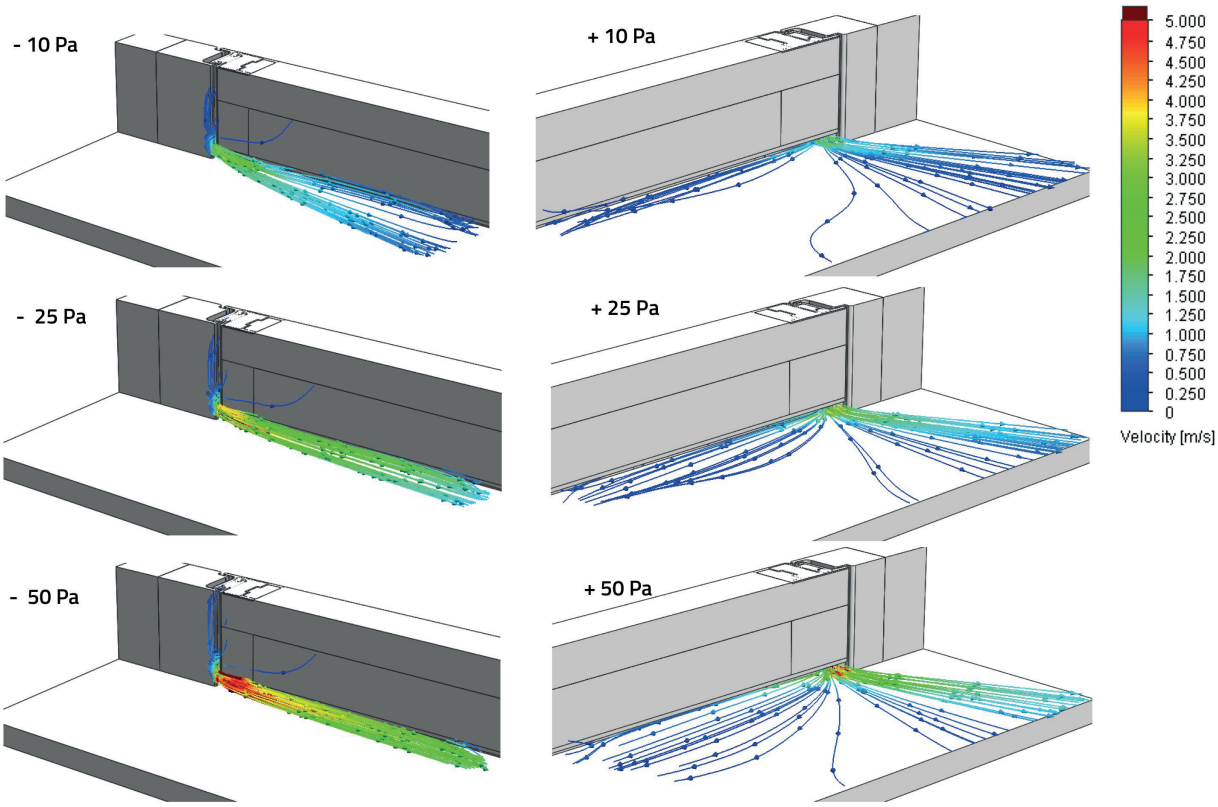
Hipharma
CLEAN ROOM DOOR LACKAGE - CFD - COMPUTATIONAL FLUID DYNAMICS

Velocity – Half Height Cut with Hdoor = 10 mm



Velocity – Hdoor = 10 mm – Trajectories through Bottom Door



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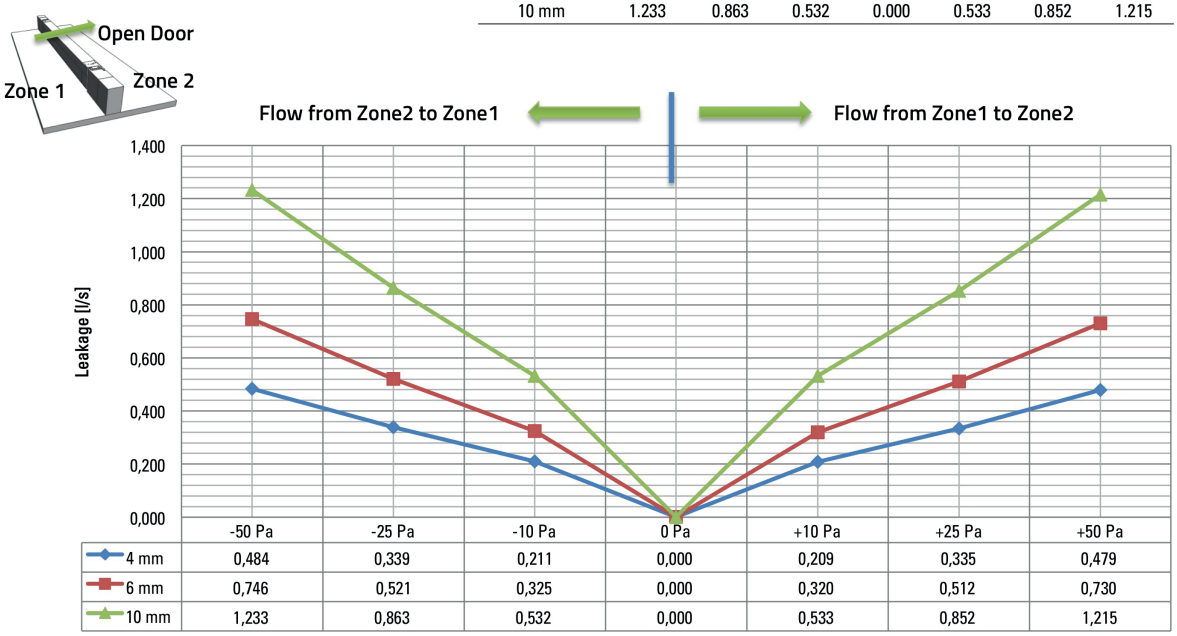
Leakage [liter/sec]

The table summaries the leakage in prescribed conditions.

Positive pressure means Zones1 pressure is higher than Zone2 pressure. Negative pressure is the opposite condition.

Leakage Volume Flow Rate [l/s]

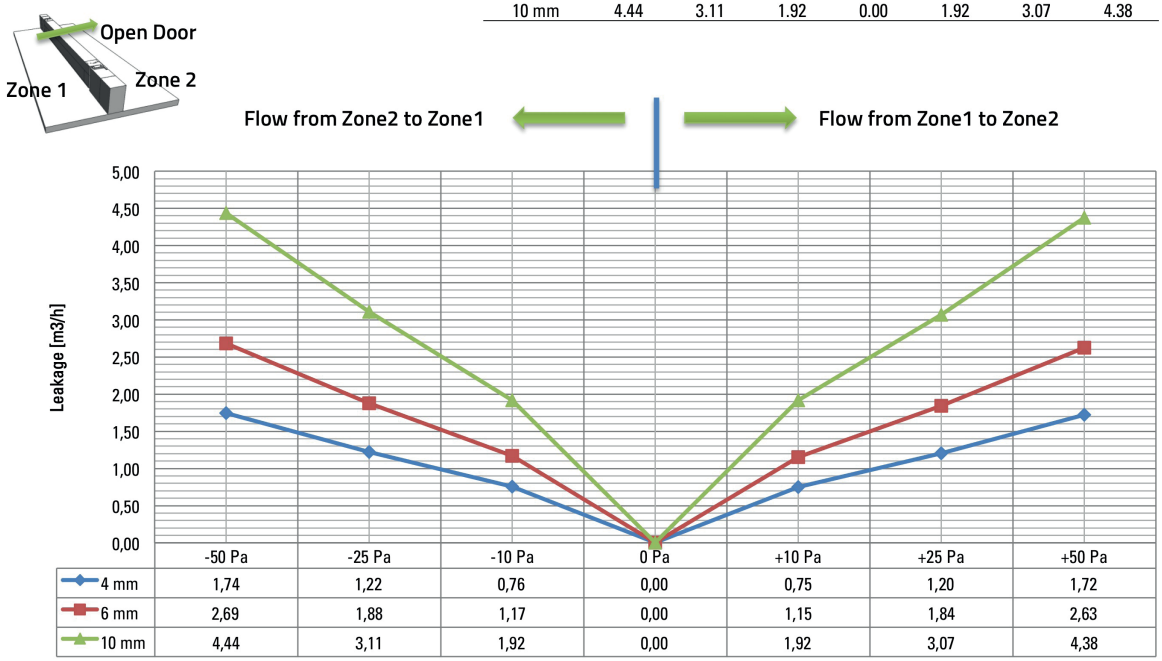
Hdoor [mm]	Pressure Difference (Zone1 – Zone2)						
	-50 Pa	-25 Pa	-10 Pa	0 Pa	+10 Pa	+25 Pa	+50 Pa
4 mm	0.484	0.339	0.211	0.000	0.209	0.335	0.479
6 mm	0.746	0.521	0.325	0.000	0.320	0.512	0.730
10 mm	1.233	0.863	0.532	0.000	0.533	0.852	1.215



Leakage [meter3/hour]

The same table with different units.

Positive pressure means Zones1 pressure is higher than Zone2 pressure. Negative pressure is the opposite condition.

Leakage Volume Flow Rate [m3/h]

Hdoor [mm]	Pressure Difference (Zone1 – Zone2)						
	-50 Pa	-25 Pa	-10 Pa	0 Pa	+10 Pa	+25 Pa	+50 Pa
4 mm	1.74	1.22	0.76	0.00	0.75	1.20	1.72
6 mm	2.69	1.88	1.17	0.00	1.15	1.84	2.63
10 mm	4.44	3.11	1.92	0.00	1.92	3.07	4.38