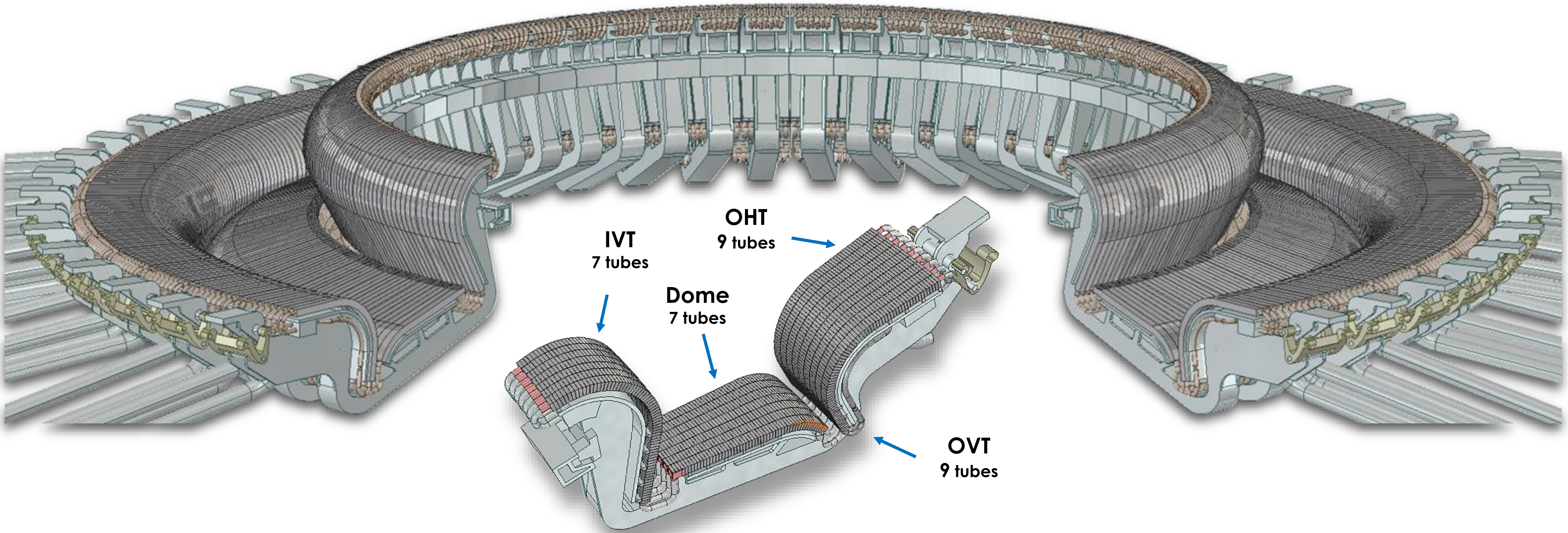


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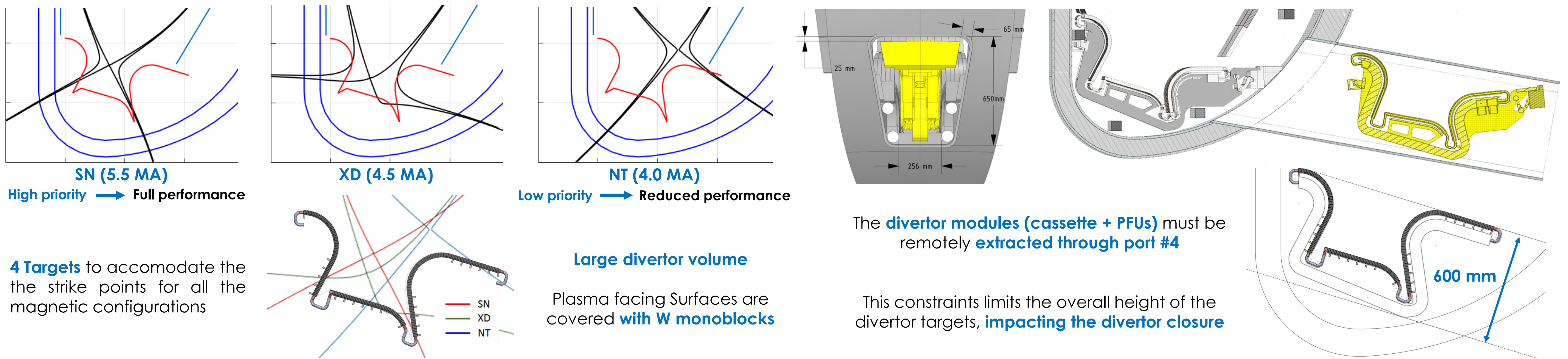
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Poloidal shaping defined by flexibility requirements and engineering constraints

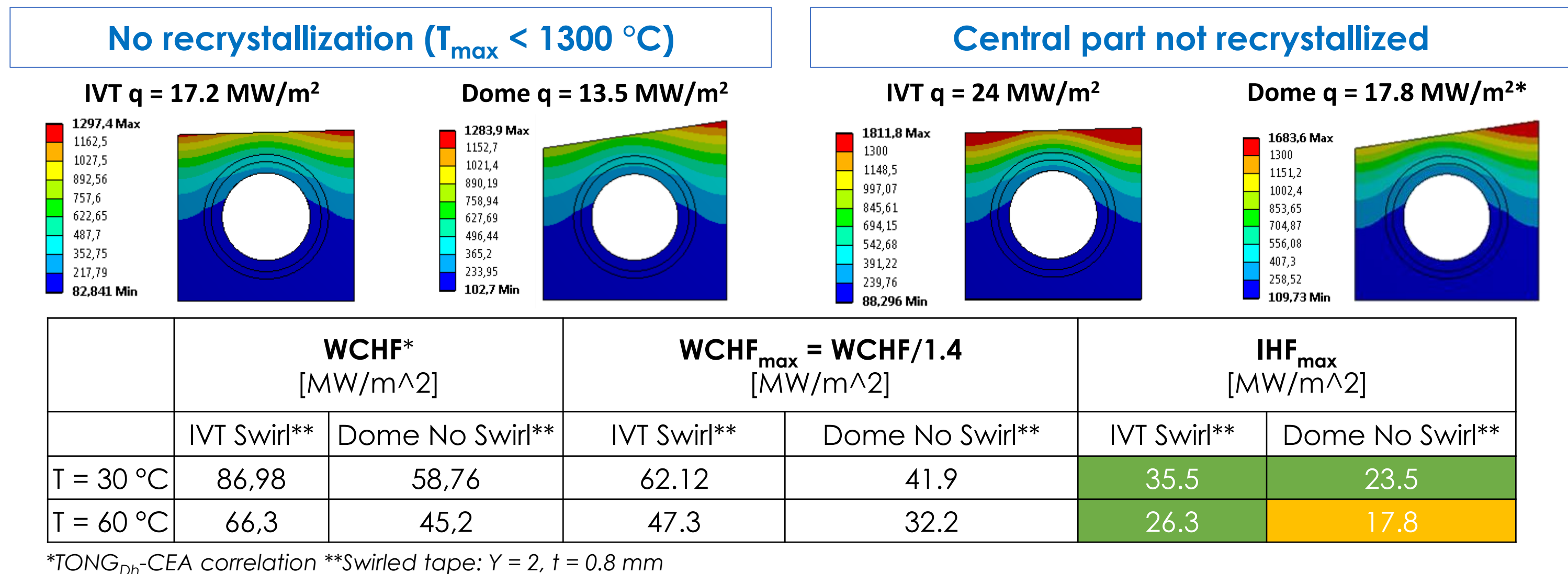


Toroidal shaping is required to magnetically shadow the gaps and the steps between PFUs and cassettes

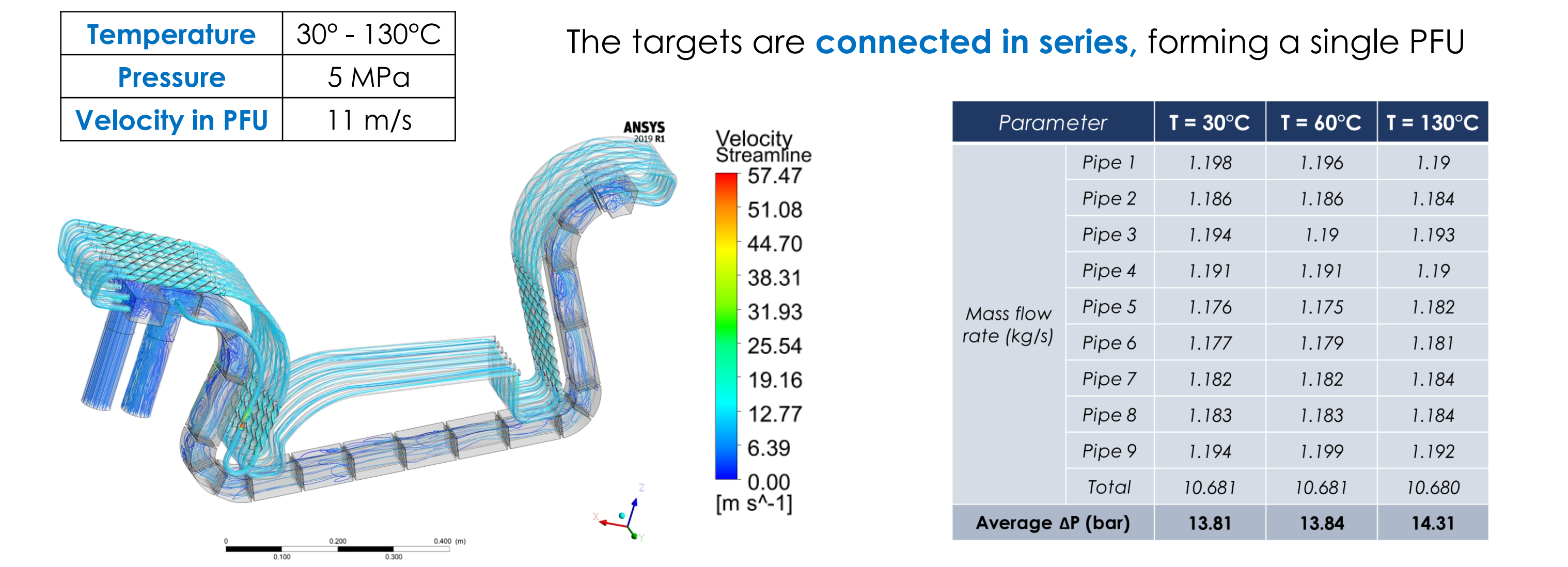
Baseline parameters								Shaping	
	θ_{graz} [°]	l_{mb} [mm]	gap _{cas} [mm] Toll ± 3 mm	step _{cas} [mm] Toll ± 2 mm	gap _{PFU} [mm] Toll ± 0.2 mm	step _{PFU} [mm] Toll ± 0.3 mm	$\theta_{bevel_{tot}}$ [°]		
IVT	2 (SN)	24	8	0	0.5	0	1.65		
OVT	2 (SN)	24.5	10	0	0.5	0	1.45		
Dome	5.2 (NT)	25.5	9.5	0	0.5	0	8.6		
OHT	1.3 (NT)	27.5	12	0	0.5	0	4.6		

(Before tilting)

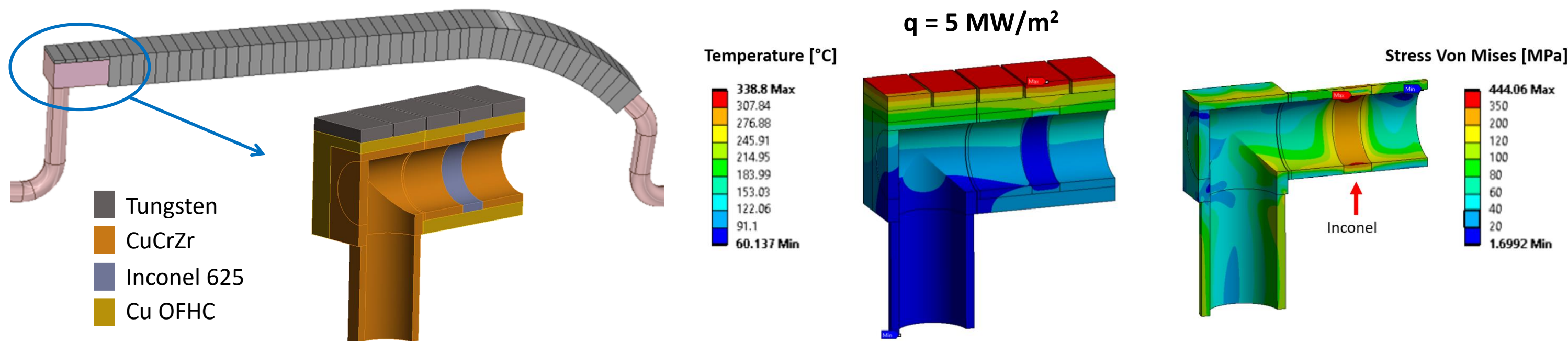
Thermal limits define the heat handling capability



Thermohydraulic model



Flat file curve to cover naked pipes at Dome's end



Same manufacturing technology of the ITER divertor



[1] R. Ambrosino, "DTT - divertor tokamak test facility: A testbed for DEMO" Fusion Engineering and Design, vol. 167, p. 112330, 2021