

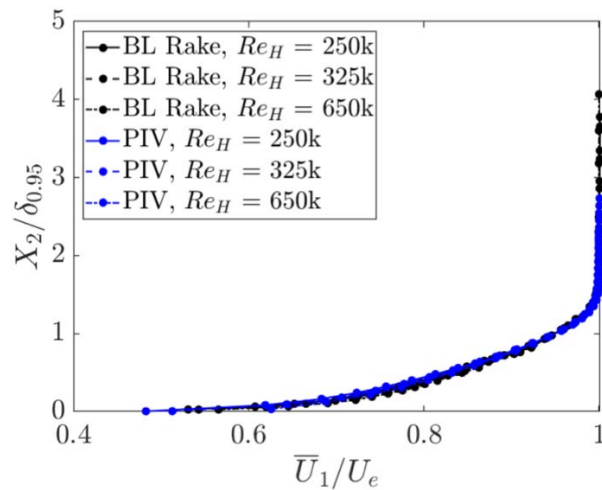
Boundary and reference conditions:

Re_H	250,000	325,000	650,000
$P_{0,in}$ (Pa)	94,220	94,275	94,450
$T_{0,in}$ (K)	297	297	297
P_{out} (Pa)	93,961	93,845	92,692
P_{ref} (Pa)	93,974	93,866	92,771
M_{ref} (—)	0.06	0.08	0.16
U_{ref} (m/s)	21.11	27.23	55.22
ρ_{ref} (kg/m ³)	1.103	1.102	1.093
I_{in} (%)	0.021	0.023	0.030
$(\mu_t/\mu)_{in}$ (—)	1.5	1.75	3
k_{in} (m ² /s ²)	2.9e-5	5.9e-5	4.0e-4
ω_{in} (s ⁻¹)	1.17	2.00	8.12
\tilde{v}_{in} (m ² /s)	4.5e-5	5.4e-5	9.2e-5

Inflow boundary layer profile (values computed from BL rake data):

Profile is at $(x_1, x_2, x_3) = (-1.93 \text{ m}, 0, 0)$

Re_H	250,000	325,000	650,000
$\delta_{0.95}$ (mm)	43.0 ± 1.5	41.5 ± 1.4	38.5 ± 1.3
δ^* (mm)	8.3 ± 0.2	7.8 ± 0.2	6.8 ± 0.2
θ (mm)	6.1 ± 0.2	5.8 ± 0.2	5.2 ± 0.2



Location of the seven reference ports used to compute P_{ref} as the average across the seven ports of the measured static pressure at each port. Note, the outlet pressure, P_{out} , is adjusted in the CFD simulations to match the measured reference pressure.

x_1 (m)	x_2 (m)	x_3 (m)
-2.228	1.85	-0.6858
-2.228	1.85	-0.4572
-2.228	1.85	-0.2286
-2.228	1.85	0
-2.228	1.85	0.2286
-2.228	1.85	0.4572
-2.228	1.85	0.6858