

Results of Experiment- Wind Tunnel Calibration

Expt.1: Reference Velocity

Reference Velocity	
V_pitot-static	ΔP_1 (mm H ₂ O)
22	31
20	25
18	20
16	16
14	12
12	10
10	8
8	5
6	2.5
4	1
2	0
0	0

Expt.2: Velocity Profile

Free Stream Velocity 10 m/s	
Probe Height (mm)	ΔP (mm H ₂ O)
0	8.5
0.5	9
1	10
1.5	10.5
2	11
2.5	11.5
3	11.5
3.5	11.5
4	11.5
4.5	11.5
5	11.5
5.5	11.5

Free Stream Velocity 15 m/s	
Probe Height (mm)	ΔP (mm H ₂ O)
0	7
1	8
2	9
3	11
4	12
5	12.5
6	13
7	13
8	13
9	13
10	13
11	13
12	13
13	13

Expt.2: Velocity Profile

Free Stream Velocity 20 m/s	
Probe Height (mm)	ΔP (mm H ₂ O)
0	16
1	18
2	19
3	21
4	22
5	23
6	24
7	24.5
8	24.5
9	24.5
10	24.5
11	24.5
12	24.5
13	24.5
14	24.5

Free Stream Velocity 25 m/s	
Probe Height (mm)	ΔP (mm H ₂ O)
0	30
1	32
2	33
3	34
4	35
5	36
6	37
7	38
8	39
9	40
10	40.5
11	41
12	41.5
13	42
18	42