

> Technical

Sizing: Select the Transair diameter for your application based on required flow against pressure drop. Estimated values for: a closed loop system, a pressure of 115 psi with 5% pressure drop.

Flow Rate			Length (ft)											Compressor (hp)
Nm3/h	NI/min	cfm	165	330	430	990	1700	2500	3300	4300	4300	6600		
10	167	6	16.5	16.5	16.5	16.5	25	25	25	25	25	25	1	
30	500	18	16.5	25	25	25	25	40	40	40	40	40		
50	833	29	25	25	25	40	40	40	40	40	40	40		10 - 40
70	1167	41	25	25	25	40	40	40	40	40	40	40		
100	1667	59	25	40	40	40	40	40	40	40	63	63	63	
150	2500	88	40	40	40	40	40	40	63	63	63	63	63	
250	4167	147	40	40	40	63	63	63	63	63	63	63	76	
350	5833	206	40	40	63	63	63	63	63	63	76	76	76	40 - 100
500	8300	294	40	63	63	63	63	76	76	76	100	100	100	
750	12500	441	63	63	63	76	76	100	100	100	100	100	100	
1000	16667	589	63	63	76	76	100	100	100	100	100	100	168	100 - 425
1250	20833	736	63	76	76	100	100	100	100	168	168	168	168	
1500	25000	883	63	76	76	100	100	100	168	168	168	168	168	
1750	29167	1030	76	76	100	100	100	168	168	168	168	168	168	
2000	33333	1177	76	76	100	100	168	168	168	168	168	168	168	
2500	41667	1471	76	100	100	100	168	168	168	168	168	168	168	
3000	50000	1766	100	100	100	168	168	168	168	168	168	168	168	
3500	58333	2060	100	100	100	168	168	168	168	168	168	168	168	
4000	66667	2354	100	100	168	168	168	168	168	168	168*	168*	168*	
4500	75000	2649	100	100	168	168	168	168	168	168*	168*	168*	168*	
5000	83333	2943	100	168	168	168	168	168	168	168*	168*	168*	168*	>425
5500	91667	3237	100	168	168	168	168	168	168*	168*	168*	168*	168*	
6000	100000	3531	100	168	168	168	168	168*	168*	168*	168*	168*	168*	
6500	108333	3826	168	168	168	168	168	168*	168*	168*	168*	168*	168*	
7000	116667	4120	168	168	168	168	168	168*	168*	168*	168*	168*	168*	

*Pressure drop >5%



Example

- Main system length (ring main): 990 ft
- Compressor power: 40 hp
- Required flow rate: 147 cfm
- Working pressure: 115 psi

Result: The most suitable Transair diameter is: Ø 63.