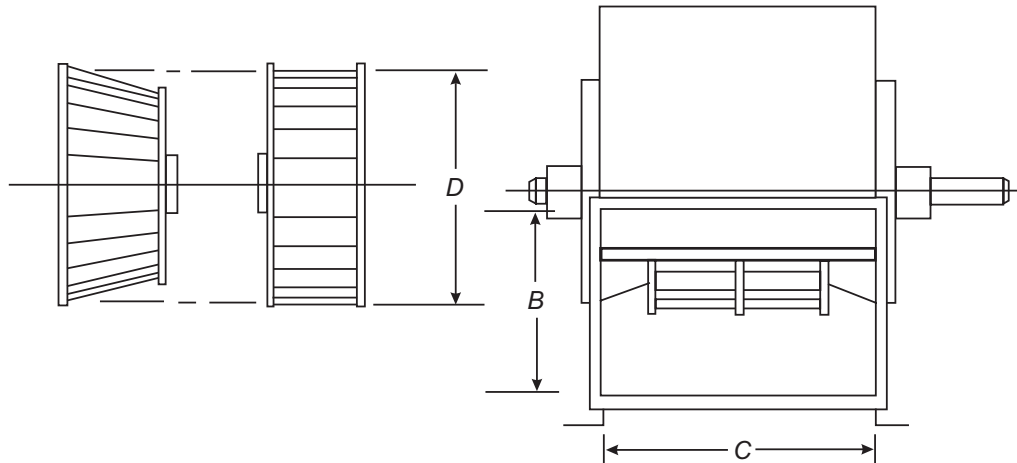


2412 _ Impeller Diameters & Outlet Areas for Centrifugal Fans



Outlet Area Max (Inside dimensions) $A \times B$		Impeller Diameter D		Outlet Area Max (Inside dimensions) $A \times B$	
SWSI	DWDI			SWSI	DWDI
m ²	m ²	mm	inches	ft ²	ft ²
0.081	0.145	311	12.25	0.86	1.55
0.083	0.149	*315			
0.098	0.176	343	13.50	1.05	1.89
0.105	0.189	*355	15.00		2.33
0.121	0.218	381		1.29	
0.133	0.240	*400			
0.146	0.263	419	16.50	1.57	2.82
0.169	0.304	*450			
0.179	0.322	464	18.25	1.91	3.45
0.208	0.375	*500	20.00		4.14
0.215	0.387	508		2.30	
0.261	0.470	*560			
0.266	0.479	565	22.25	2.85	5.12
0.323	0.581	622	24.50	3.45	6.21
0.331	0.595	*630			
0.392	0.705	686	27.00	4.19	7.54
0.420	0.756	*710			
0.484	0.871	762	30.00	5.17	9.31
0.533	0.960	*800			
0.585	1.054	838	33.00	6.26	11.27
0.6775	1.215	*900			
0.716	1.289	927	36.50	7.66	13.79
0.833	1.500	*1000			
0.871	1.568	1022	40.25	9.31	16.77

Notes:

1. SWSI = Single width, single inlet fan.
DWDI = Double width, double inlet fan.

2. Precise outlet area:

SI

SWSI:

$$OA(m^2) = 0.833 \times 10^{-6} (D(mm))^2$$

DWDI:

$$OA(m^2) = 1.5 \times 10^{-6} (D(mm))^2$$

I-P

SWSI:

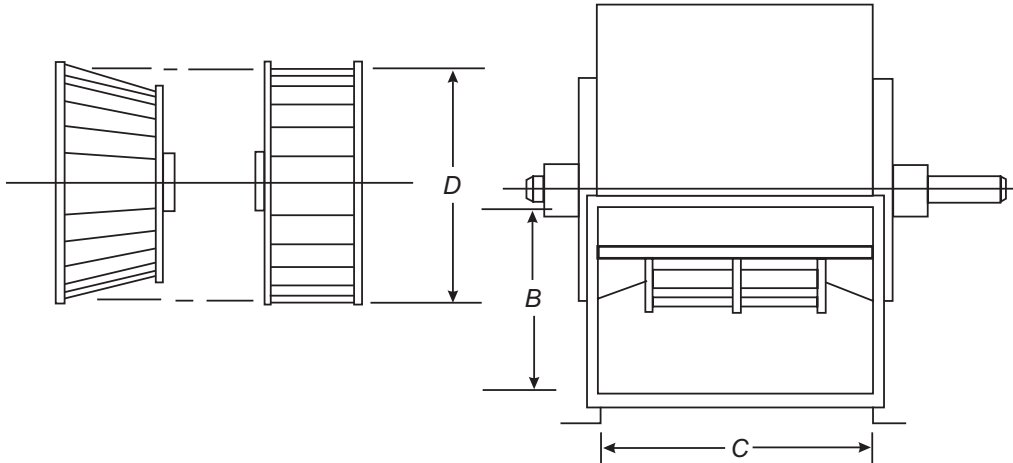
$$OA(ft^2) = 5.74967 \times 10^{-3} (D(in.))^2$$

DWDI:

$$OA(ft^2) = 1.034941 \times 10^{-3} (D(in.))^2$$

3. A fan conforming to this Standard shall not exceed the impeller diameter or maximum outlet area shown.

*Preferred sizes in SI and in accordance with ISO 13351.



Outlet Area Max (Inside dimensions) $A \times B$		Impeller Diameter D		Outlet Area Max (Inside dimensions) $A \times B$	
SWSI	DWDI			SWSI	DWDI
m ²	m ²	mm	inches	ft ²	ft ²
1.045	1.882	*1120			
1.065	1.916	1130	44.50	11.39	20.49
1.291	2.324	1245	49.00	13.80	24.85
1.302	2.344	*1250			30.46
1.582	2.848	1378	54.25	16.92	
1.633	2.940	*1400			
1.935	3.484	1524	60.00	20.70	37.26
2.133	3.840	*1600			
2.342	4.215	1676	66.00	25.05	45.08
2.700	4.860	*1800			
2.865	5.157	1854	73.00	30.64	55.15
3.333	6.000	*2000			
3.506	6.310	2051	80.75	37.49	67.48
4.181	7.526	*2240			
4.259	7.665	2261	89.00	45.54	81.98
5.190	9.342	2496	98.25	55.50	99.90
5.208	9.375	*2500			122.40
6.358	11.445	2762	108.75	68.00	
6.533	11.760	*2800			
7.742	13.935	3048	120.00	82.80	149.03
8.269	14.884	*3150			
9.439	16.990	3366			
10.502	18.904	*3550	132.50	100.94	181.70

Notes:

1. SWSI = Single width, single inlet fan.
DWDI = Double width, double inlet fan.

2. Precise outlet area:

SI

SWSI:

$$OA(m^2) = 0.833 \times 10^{-6} (D(mm))^2$$

DWDI:

$$OA(m^2) = 1.5 \times 10^{-6} (D(mm))^2$$

I-P

SWSI:

$$OA(ft^2) = 5.74967 \times 10^{-3} (D(in.))^2$$

DWDI:

$$OA(ft^2) = 1.034941 \times 10^{-3} (D(in.))^2$$

3. A fan conforming to this Standard shall not exceed the impeller diameter or maximum outlet area shown.

*Preferred sizes in SI and in accordance with ISO 13351.