

DELL
SD SERIES

***Downblast Spun
Aluminum Exhausters***
Direct Drive Series



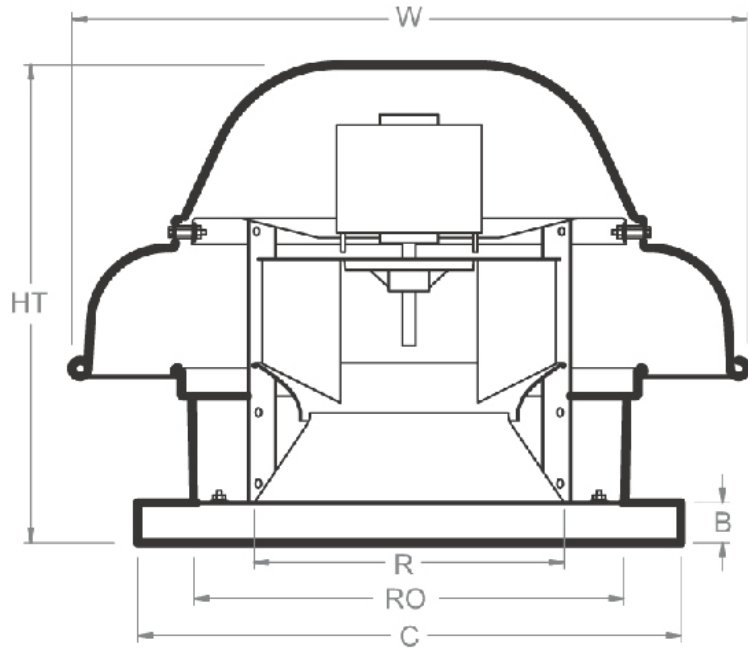
Providers of Air Movement Solutions



SD Series Direct Drive Exhausters

Features:

- Spun aluminum housing for dust-free, weather resistant durability
- Non-overloading backward inclined wheels, blades and inlets fabricated from 3003-H14 aluminum
- Wall mount applications; units up to 24" nominal wheel can be wall mounted
- Variable Speed motor control with "off" setting
- Standard bird screen
- Gravity Damper
- Available optional accessories: Back draft damper



Dimensions (inches)

Model	Wheel Dia.	HT	W	B	C	R	RO	Shaft Dia.	Motor HP	Wt. (lbs.)
SD-10	9	14-1/2	20-3/4	2	19	8-1/8	13	--	.08	30
SD-12	10-1/2	16-1/4	23-3/4	2	19	10-5/8	13	--	0.14	35
SD-25	11-3/4	19-1/8	26-1/4	2	21	12-1/8	16	--	0.25	45
SD-30	11-3/4	19-1/8	26-1/4	2	21	12-1/8	16	--	0.25	45
SD-33	11-3/4	19-1/8	26-1/4	2	21	12-1/8	16	--	0.33	45
SD-50	13-3/4	21-3/4	29-3/4	2	21	13-1/4	16	--	0.50	50
SD-75	15-3/4	23-3/8	33-1/4	2	24-3/4	14-7/8	20	--	0.75	60
SD-85	15-3/4	23-3/8	33-1/4	2	24-3/4	14-7/8	20	--	0.75	60

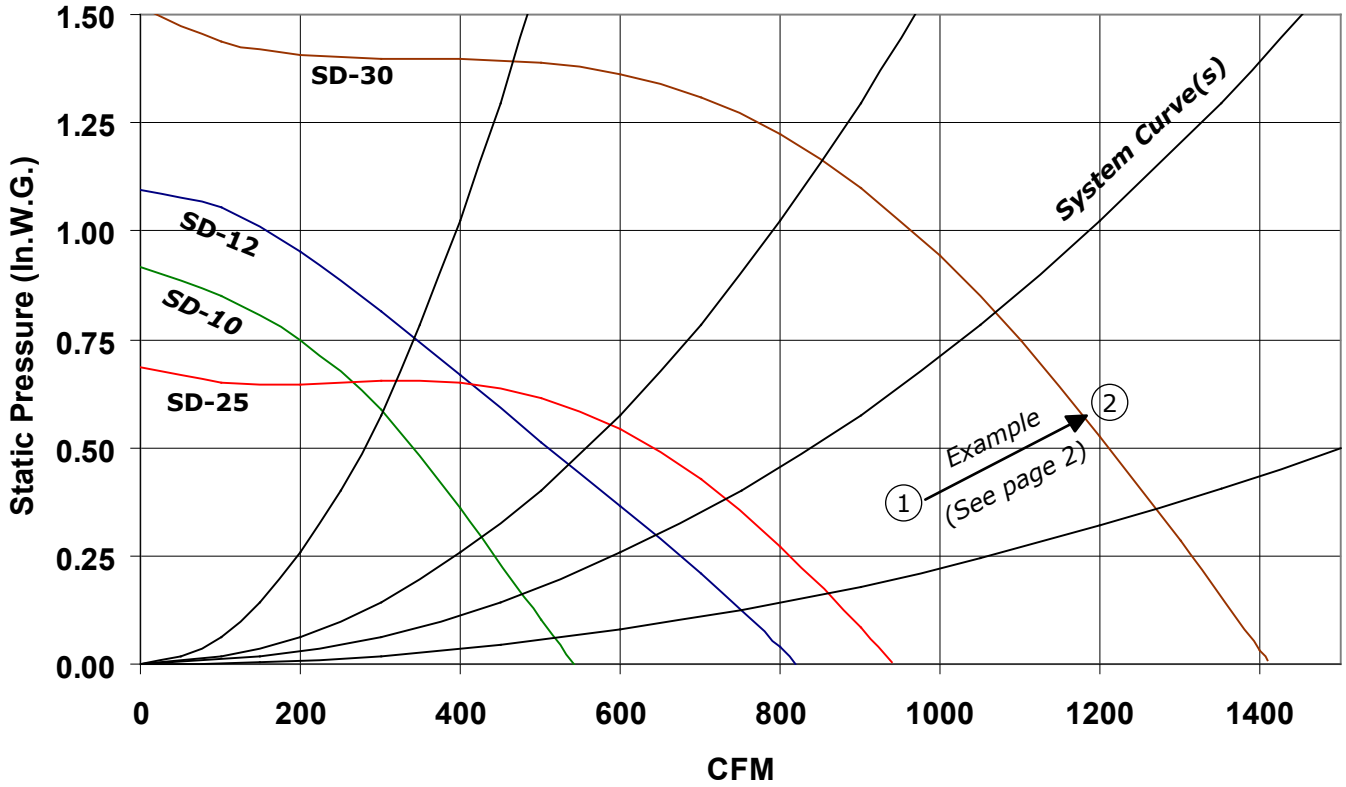
How to select a Direct Drive Blower

1. Locate your system characteristics (CFM & SP) on the chart with the blower performance curves.
2. Move up the System curve to intersect the closest blower performance curve. That is the performance (CFM & SP) that the blower will provide at full speed.
3. Note the CFM.
4. The ratio of the full speed CFM to the desired CFM is the amount of speed reduction required to operate at the desired CFM.

Example: Required 1000 CFM @ 0.375 in. W.G. (ref. SD-10 to SD-30 curves p.3)

1. Locate 1000 CFM @ 0.375 in. W.G. on the chart (pt.1).
2. Move up the chart, parallel to the system curves (arrow), to intersect the 1st blower curve (SD-30). The intersection point, (pt.2), 1200 CFM @ 0.54 in W.G. is the performance that the SD-30 will deliver at full RPM.
3. To deliver the desired 1000 CFM, using the speed controller, reduce the RPM to attain the required 1000 CFM. In this case the required reduction is $1 - (\text{required CFM} / \text{full speed CFM}) = 1 - (1000/1200) = 17\%$.

SD-10, SD-12, SD-25 & SD-30



SD-33, SD-50, SD-75 & SD-85

