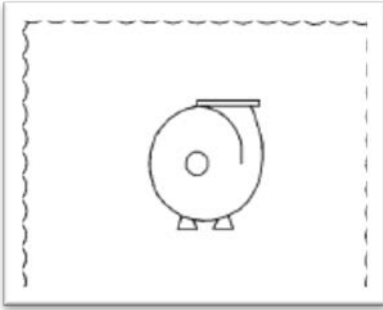
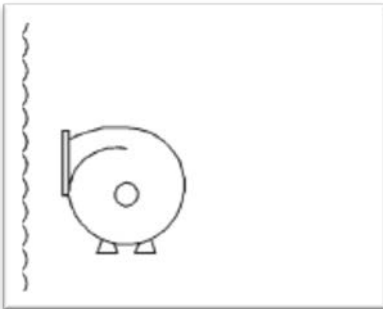


## WAYS TO QUIET A NOISY MACHINE



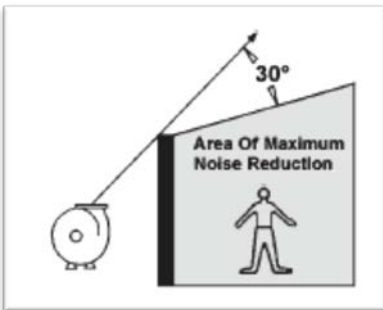
### Treat the Room

- Maximum noise reduction: 6-9 decibels (30-40% decrease in loudness).
- Advantages: No inconvenience to workers.
- Disadvantages: Almost all of the room must be treated regardless of the size of the noise source.
- Quilted Fiberglass Sound Absorption Products...or Polywrap Baffles, depending upon specifics of application.



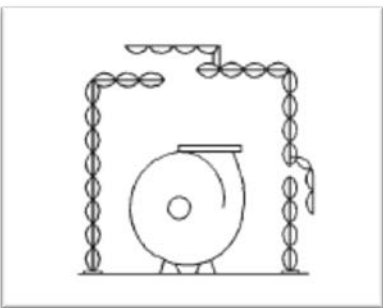
### Treat the Wall Behind the Noise

- Maximum noise reduction: 1-2 decibels if noise source sprays noise out into room, 4-6 decibels if noise is sprayed directly onto wall (such as noisy vent on the back of a machine).
- Advantages: No inconvenience to workers.
- Treat the wall behind the machine with about twice the square footage of the "shadow" of the machine on the wall.



### Build a Soundproofing Barrier or Partial Enclosure

- Maximum noise reduction: 6-15 decibels.
- Advantages: Very good noise reduction.
- Concerns: May have to incorporate view windows for visibility and/or sliding panels for access.
- Size? Minimum of 8' high. Typically they should be double the height of the noise source.
- Sound absorption/noise barrier composites.



### Build a Complete Soundproofing Enclosure

- Noise reduction: Up to 20-30 decibels.
- Advantages: maximum noise reduction.
- Concerns: May have to incorporate view windows for visibility and/or sliding panels for access as well as ventilation baffle(s) for air flow.
- Sound absorption/noise barrier composites