

NOISE CONTROL

AJAX™ TWO-CYCLE INTEGRAL ENGINE-COMPRESSORS

Cooper offers a variety of methods for meeting your sound level requirements.

Noise sources

The major sources of noise from an Ajax integral engine compressor package are:

- › Exhaust
 - Silencer
 - Exhaust lines
- › Air intake
- › Process and engine heat exchangers
- › Mechanical noise of the engine and compressor

Air intake filtered silencers

Filtered silencers can be utilized on the air intake in lieu of a standard air intake manifold.

Silencer	Sound Level @10ft
Standard Intake	88 dBA
Residential Grade	80 dBA
Critical Grade	67 dBA

Process and engine heat exchangers

Cooler design can be manipulated to reduce noise. Fan tip speed can be reduced, and the orientation (i.e. horizontal or vertical) can affect noise output.

Fan Tip Speed	Sound Level @10ft
12,000 FPM	83 dBA
10,600 FPM	79 dBA
9,100 FPM	77 dBA

Exhaust silencer

Various grades of exhaust silencers are available depending on your sound level requirement.

Requirement	Sound Level @10ft
Hospital	89 dBA
Critical	83 dBA
Super Critical	76 dBA

Insulation

Insulation can be added to exhaust lines and to the exhaust silencer to reduce noise. Typically, the noise reduction that insulation provides is approximately 9 dBA.



LEGENDS DON'T STOP. WE MAKE SURE OF IT.™

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