

**VANEC**

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**LEADERS IN SOUND ADVICE**

## **CATALYST EXHAUST SILENCERS “THREE -WAY” NSCR**

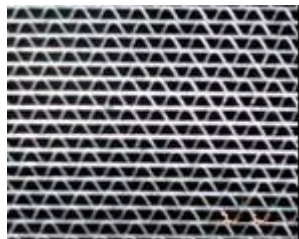
**for VOC, CO and NOx Reduction**

### **RETRO-FIT OF EXISTING 2 CYCLE ENGINES:**

- **COOPER-BESSEMER**
- **INGERSOLL RAND**
- **WORTHINGTON**
- **DRESSER**
- **CLARK**
- **FAIRBANKS MORSE**
- **EMD**



### **NEW & EXISTING 4 CYCLE ENGINES:**



- **CATERPILLAR**
- **WARTSILA**
- **WAUKESHA**
- **MAN DIESEL**



## **TYPICAL PERFORMANCE**

### **NOISE REDUCTION - D.I.L. (Dynamic Insertion Loss)**

<b>VANEC Model</b>	<b>Grade</b>	<b>Typical Overall D.I.L.</b>
121	Industrial	20 dB
131	Residential	25 - 20 dB
141	Hospital	30 - 35 dB
144	Critical	45 dB
154	Super Critical	50+ dB

## **CATALYST FEATURES**

- *Optimal conversion efficiencies with reduced catalyst volume.*
- *Heavy-duty stainless steel modules.*
- *Cell densities up to 700 cpsi.*
- *Lowest pressure drop for the most surface area.*
- *Individually mounted module design.*
- *Broad operating temperature range (350 °F to 1200 °F).*

## **VANEC ADVANTAGES**

- *Custom designed for ease of field maintenance with low chamber element/module access.*
- *Proven ability to meet noise and emission specifications in a combined unit.*
- *Designed to mount on existing foundation and exhaust center lines.*

**VANEC** incorporates catalyst modules in various shapes and sizes engineered by PCA, Inc. and manufactured by EmeraChem LLC.