

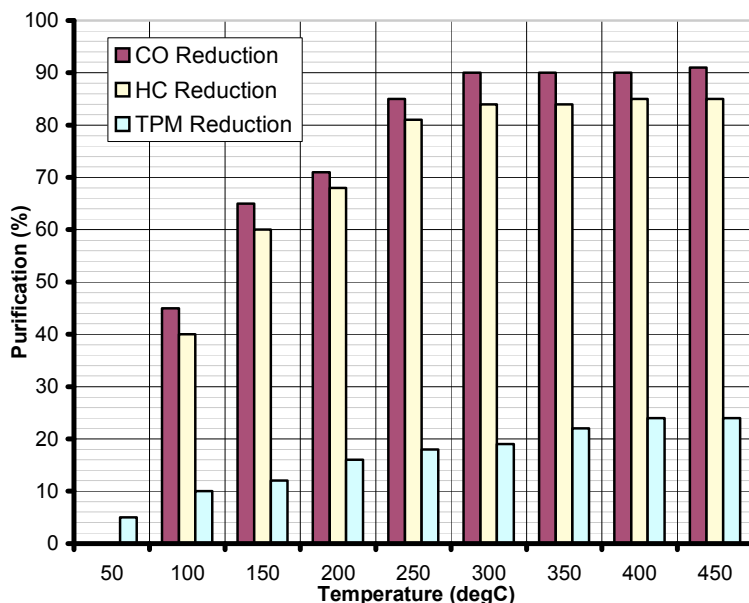
## **CKW – DVC      Catalytic Purifier for Diesel Engines**

Effective Emission Control for Diesel Engines up to 46ltrs

### **Overview**

IAC Acoustics CKW-DVC range of purifiers utilises the BASF PTX Ultra Catalyst. The BASF PTX Ultra Catalyst is designed for highly effective purification of diesel engine emissions. The purifier reduces Carbon Monoxide (CO), Hydrocarbons (HC) and soluble organics (PM) from the exhaust gases of diesel engines up to 46 litres.

Designed for easy installation and maintenance, this catalytic purifier is well suited to heavy-duty off-road diesel engine applications.



### **Performance**

The CKW-DVC catalytic purifier functions through the process of oxidation, converting CO and HC to Carbon Dioxide (CO<sub>2</sub>) and water vapour (H<sub>2</sub>O). Catalyst volume and hence purifier size is dependent upon the % conversions required, as well as the exhaust gas flow rate, temperature, and the maximum allowable pressure drop across the purifier.

Please refer to the sizing chart on the reverse for typical sizing details. Please refer to IAC Acoustics for any special performance and/or pressure drop requirements.

### **Features & Benefits**

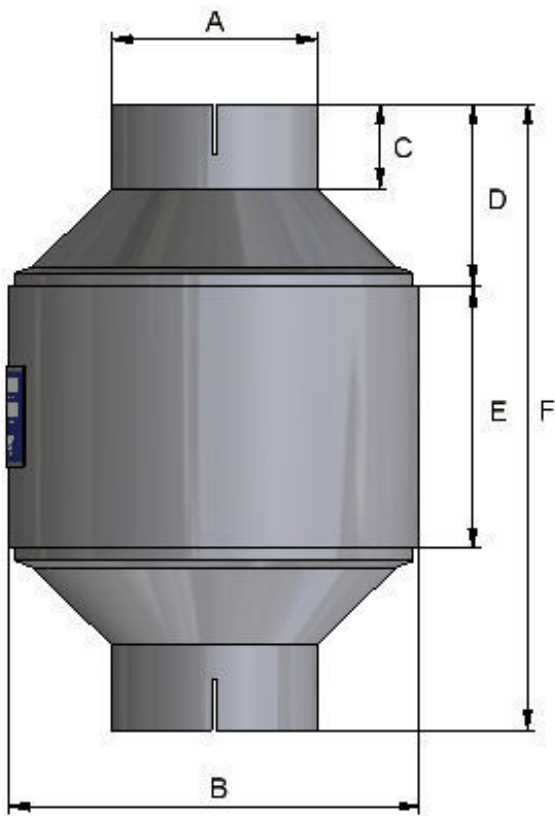
- Platinum Coating Formulated for Australian Fuels
- Metallic substrates feature corrugated channels for efficient reduction of PM
- Corrosion Resistant Heavy Duty Stainless Steel Construction
- Single bolt clamped construction for easy maintenance
- Sulphur Tolerant Coating
- High Conversion Efficiency
- Low Pressure Drop
- Purifier designed to maximise the exhaust flow across the catalyst
- Reduces odour in diesel exhaust
- Guaranteed Quality Product

## Installation

In order to maximise the inlet exhaust gas temperature at the purifier; the unit should be installed as close as possible to the engine and before the silencer. If space is at a premium, CKW-DVC unit can be supplied as a CK-DVCM purifier silencer. Contact IAC Acoustics (Australia) for further details.

## Maintenance

CKW-DVC Catalytic Purifier requires little maintenance. With the use of 50ppm sulphur content diesel fuel the build-up of contaminants on the catalyst wash coat is minimal. The purifier will not require maintenance for the life of the engine or until major rebuild.



Model No.	Max Engine kW	A Inside Dia	B	C	D	E	F
CK-4DVCW38	20	38	201	42	79	130	288
CK-4DVCW50	30	51	102	42	72.5	130	275
CK-5DVCW50	40	51	127	42	85	130	300
CK-5DVCW63	50	63	127	42	79	130	288
CK-6DVCW63	60	63	152	42	91.5	130	313
CK-6DVCW76	75	76	152	42	85	130	300
CK-6DVCW89	80	89	152	42	78.5	130	287
CK-7DVCW76	80	76	178	42	98	130	326
CK-7DVCW89	90	89	178	42	91.5	130	313
CK-7DVCW102	100	102	178	42	85	130	300
CK-7DVCW127	110	127	178	54	85.5	130	301
CK-8DVCW89	110	89	203	42	104	130	338
CK-8DVCW102	120	102	203	42	97.5	130	325
CK-8DVCW127	140	127	203	54	98	130	326
CK-10DVCW102	150	102	254	42	123	130	376
CK-10DVCW127	175	127	254	54	113	130	356
CK-10DVCW152	200	152	254	54	111	130	352
CK-12DVCW152	275	152	305	54	135.5	130	401
CK-12DVCW203	300	203	305	54	110	130	350
CK-14DVCW203	375	203	355	54	135	130	400
CK-14DVCW254	425	254	355	54	109.5	130	349
CK-16DVCW203	475	203	406	54	160.5	130	451
CK-16DVCW254	550	254	406	54	135	130	400

All Dimensions in mm Sizing is for estimation purposes  
Please contact sales at IAC Acoustics for accurate sizing and pricing

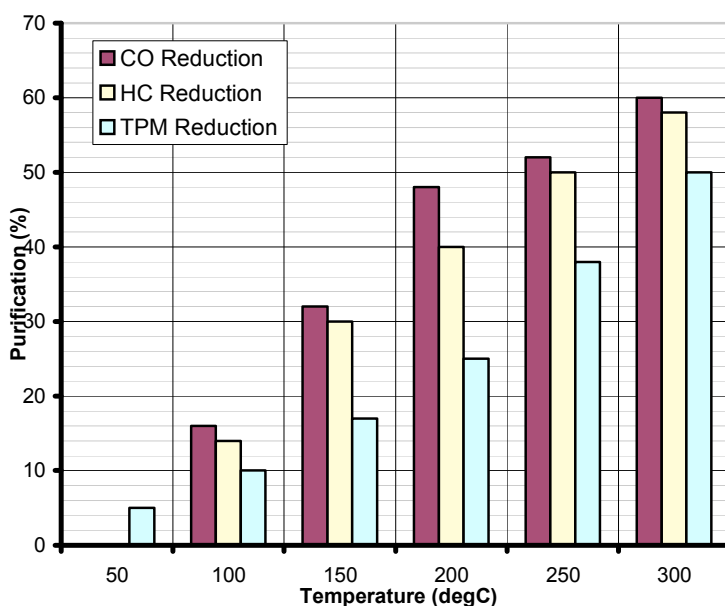
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## ***CCX Catalytic Purifier for Diesel Engines***

### **Effective Emission Control for On Road Diesel Engines**

#### **Overview**

IAC Acoustics CCX Catalytic Purifier and CMX Catalytic Purifier Muffler are designed for effective purification of diesel engine emissions. The CCX/CMX system is the first catalytic emissions control system to meet United States Environmental Protection Authority (EPA) certification requirements for the U.S. Urban Bus Retrofit Program.



#### **Performance**

The CCX catalytic purifier and CMX catalytic purifier muffler functions through the process of oxidation, converting CO and HC to Carbon Dioxide (CO<sub>2</sub>) and water vapour (H<sub>2</sub>O). The catalyst reduces Carbonaceous Particulate Matter (PM) by 25% to 50%, Carbon Monoxide (CO) and Hydrocarbons (HC) by 50%. Catalyst volume and hence purifier size is dependent upon the % conversions required, as well as the exhaust gas flow rate, temperature, and the maximum allowable pressure drop across the purifier.

Please refer to IAC Acoustics for correct sizing of catalytic purifier for your application and any special performance and/or pressure drop requirements.

#### **Features & Benefits**

- Platinum Coating Formulated for Australian Fuels
- Available for Most On-Road Diesel Engines
- Maintenance-free Operation; Needs No Additional Parts or Sensors
- Corrosion Resistant Heavy Duty Stainless Steel Construction
- Special Ceramic Substrate for Maximum Purification
- Sulphur Tolerant Coating
- U.S. EPA Certified Purifier
- High Conversion Efficiency
- Reduces Odour in Diesel Exhaust
- Guaranteed Quality Product
- Approved by Environmental Agencies

## Installation

Typically the best method for retrofitting a CCX catalyst to your vehicle is by replacing your muffler with an IAC Acoustics purifier muffler. The purifier muffler will have the CCX fitted internally. It can be fabricated to the same external dimensions as your existing muffler. Contact IAC Acoustics for further details.

## Maintenance

The CCX/CMX Catalytic Purifier requires little maintenance. With the use of 50ppm sulphur content diesel fuel the build-up of contaminants on the catalyst wash coat is minimal. Typically the purifier will not require maintenance for the life of the engine or until major rebuild.



The picture on the left shows mufflers with the purifiers fitted internally ready for retrofit.

The picture on the right shows CCX units on the shelf. The discolouration of the stainless steel is a normal part of the canning process.

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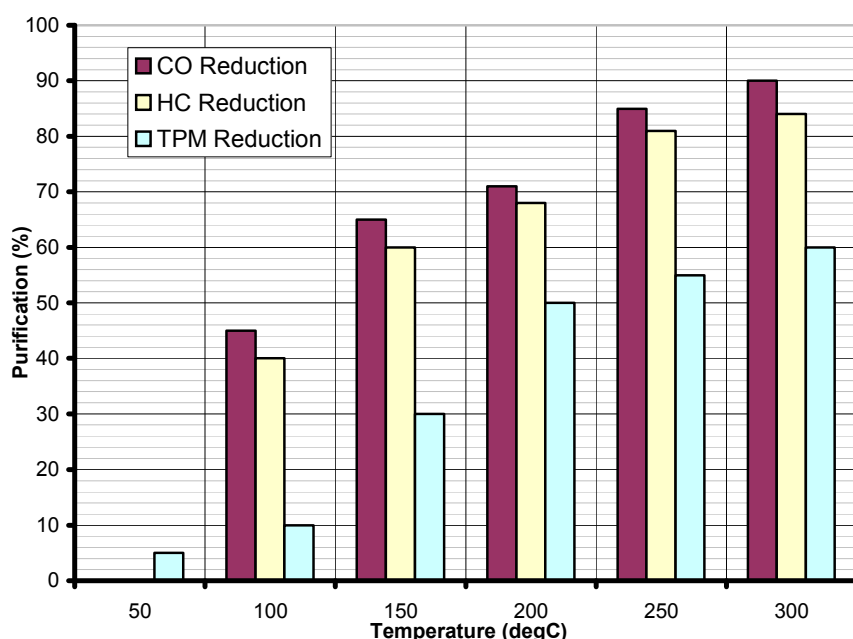


## **PFX Partial Soot Filter for Diesel Engines**

### Effective Emission Control for On Road Diesel Engines

#### **Overview**

IAC - Acoustics PFX Partial Soot Filters are primarily designed to reduce soot emissions. They are particularly useful when exhaust temperatures are not high enough to allow the use of DPX soot filters. They feature metallic substrates to achieve short warm-up times.



#### **Performance**

The PFX partial soot filters use primary and secondary filter elements. The primary filter uses a very rich coating to effectively increase the temperature of the exhaust gasses. This allows the secondary filter to regenerate itself when the exhaust temperatures are low.

The PFX catalytic purifier functions through the process of oxidation, converting CO and HC to Carbon Dioxide (CO<sub>2</sub>) and water vapour (H<sub>2</sub>O). The catalyst reduces Carbonaceous Particulate Matter (PM) by 25% to 60%, Carbon

Monoxide (CO) and Hydrocarbons (HC) by 50%. Catalyst volume and hence purifier size is dependent upon the % conversions required, as well as the exhaust gas flow rate, temperature, and the maximum allowable pressure drop across the purifier.

Please refer to IAC Acoustics for correct sizing of catalytic purifier for your application and any special performance and/or pressure drop requirements.



## Features & Benefits

- Suitable for Australian road diesel
- Must use ultra low sulphur fuel
- Reduces soot emission by 60% at operating temperature.
- Available for Most On-Road Diesel Engines
- Maintenance-free Operation; Needs No Additional Parts or Sensors
- Corrosion Resistant Heavy Duty Stainless Steel Construction
- High Conversion Efficiency
- Reduces Odour in Diesel Exhaust
- Guaranteed Quality Product
- Approved by Environmental Agencies

## Installation

Typically the best method for retrofitting a PFX partial soot filter to your vehicle is by replacing your muffler with a IAC Acoustics purifier muffler. The purifier muffler will have the PFX fitted internally. It would be fabricated to the same external dimensions as your existing muffler. Contact IAC Acoustics (Australia) for further details.



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