



Portable Combustion & Emissions Analyzer

Active Sample Conditioner

FEATURES

Keyed connection to PCA® probe and hose

Built-in temperature controller

Built-in particulate filter with inspection window

Built-in catch pot

Direct temperature and draft signal passthrough to the PCA400

Self-contained design

BENEFITS

Quickly creates a rugged, sturdy connection

Maintain cooler temperature above dewpoint

User can easily see when it's time to change the filter window

Ensures a dry sample, every time

Allows analyzer to perform all tests while the sample conditioner is connected

Compact, easy set-up and use

DESCRIPTION

Bacharach's active sample conditioner is used to enhance the performance of the PCA 400 Combustion and Emissions Analyzer in heavy industrial and commercial settings.

The PCA 400 provides accurate readings for CO, O₂ and NO with a standard probe.

Bacharach also offers optional Viton™ tubing with the sample conditioner to eliminate sample dropout, ensuring accurate results in applications where NO₂ and SO₂ measurements are necessary.

The sample conditioner removes water vapor from the stack gas sample, preventing the formation of water droplets inside the analyzer's probe hose. The sample conditioner prevents water in the sample hose that could potentially absorb a portion of the gas sample and result in lower than actual readings of NO₂ and SO₂. The water extracted from the gas sample is pulled out of the thermoelectric (Peltier) cooler and into a water catch pot.

The dry, conditioned flue-gas sample is then passed through to the PCA 400 for analysis, ensuring a clean, dry, accurate air sample. This also prevents water passing into the instrument and possibly damaging the sensors or other components.



PCA®
400

HOW TO CONTACT US:

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For more information
about the Sample
Conditioner and other
Bacharach products scan
here.





INDUSTRIAL

ORDERING INFORMATION

P/N	DESCRIPTION
0024-8558	North American sample conditioner kit. Includes sample conditioner, replacement filters (3 pk.) and North American outlet power supply

SPECIFICATIONS

MEASUREMENTS:	DESCRIPTION
Dimensions W x L x H	3.2 in x 6.0 in x 6.0 in (81 mm x 152 mm x 152 mm)
Weight	10 oz (284 g)
Control Temperature	41° F nominal cooler temperature (5° C)
Catch Pot Capacity	35 ml
Power Supply	AC/DC adapter, 100-264 VAC input, 15 V, 90 W DC output
Storage Temperature	14° to 122° F (-10° to 50° C)
Storage Humidity	10% - 90% RH, non-condensing
Operating Temperature	41° to 104° F (5° to 40° C)
Operating Humidity	10% to 90% RH, non-condensing

ACCESSORIES AND PARTS

P/N	DESCRIPTION
0007-1658	Inlet Filter, 30 Pieces
0024-1753	Inlet Filter Cap (Requires 0105-5100)
0019-3345	Catch Pot (Requires 0005-5127)
0024-1763	Power Supply, 100-264 VAC, 15 VDC, 90 W
0024-1787	Replacement O-ring Kit

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