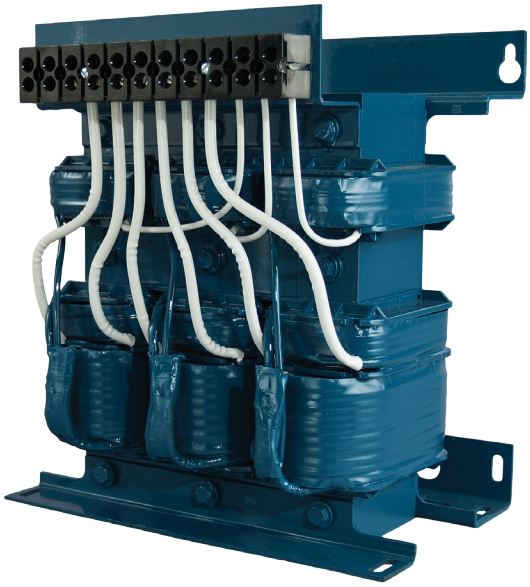
MTE
AN SL INDUSTRIES COMPANY

Matrix® AP

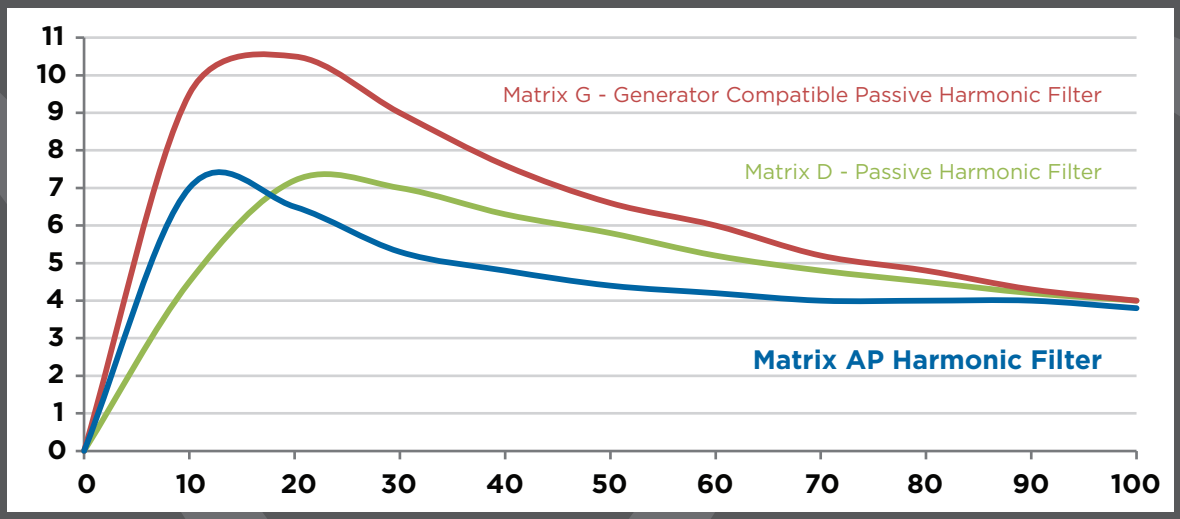


IMPROVE YOUR POWER QUALITY & ENERGY EFFICIENCY... WITH MTE'S NEW **ADAPTIVE PASSIVE TECHNOLOGY*** TO ACHIEVE BETTER THID PERFORMANCE OVER A WIDER LOAD RANGE

*Patent Pending

ADAPTIVE PASSIVE PERFORMANCE.

The Matrix AP helps meet IEEE519 Requirements (5% THID) under lighter loads.

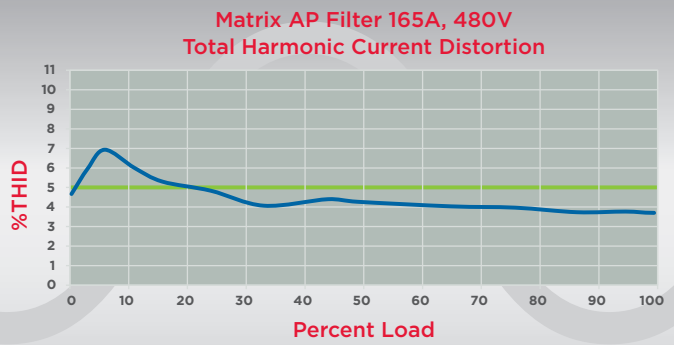


Designed to be Convection-Cooled & Compatible with Generator Systems
MATRIX AP Evolution

- No Resistors
- No Fans
- Fewer Capacitors
- Modular Components
- Standardized Wiring
- Top Lifting Provisions

MTE MATRIX FILTERS HAVE EVOLVED AGAIN INTO A BETTER SOLUTION

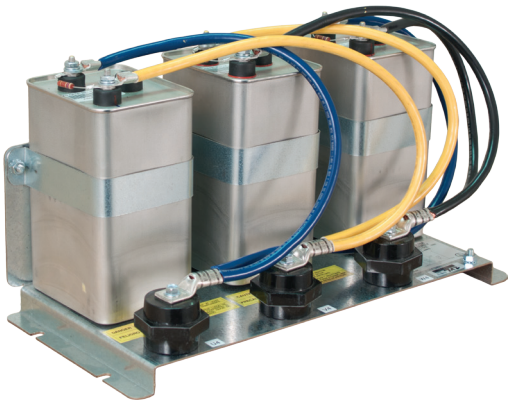
Inherently superior because the magnetic core and the shunt core are integrated into the same lamination stack, the Matrix AP achieves better THID performance over a wider load range and especially lowers harmonic distortion at lower loads. Not only is the Matrix AP more efficient with six pulse drives than a stand-alone 18 pulse rectifier, it's more economical and performs better during phase imbalance.



Some of the Matrix AP models tested had even better THID!

What makes them "Adaptive"?

Our patented design involves a new core technology in the lam panels that provides the reaction based on load.



Mechanical Configuration 128 A (above) Capacitor panel is easily removable and the standardized wiring makes for ease of field wiring. With no resistors or fans present there's no side access obstruction. The use of high current capacitors reduces the number needed. (Only 3 capacitors in Matrix AP v. 9 in Series D.) State-of-the-art software tools have been used to model convection cooling and optimize the enclosure designs.

SPECIFICATIONS

Load	**6 pulse rectifier**
Input Voltage	**Nominal voltage VAC +/- 10%, 3 Phase**
Frequency	**Nominal Frequency + .75 Hz**
Input Voltage Line Imbalance	**1% maximum**
Service Factor	**1.00**
Capacitive Reactive Power	**128A and Above: 15% MAX Below 128A: 20% MAX**
Ambient Temperature (Operating)	
Enclosed Filters	**320A and Above: -40 to +45 degrees C Below 320A: -40 to +40 degrees C**
Open Panel Filters	**-40 to +50 degrees C**
Storage Temperature	**-40 to +90 degrees C**
Altitude	**0 to 3300 Feet above sea level without derating**
Relative Humidity	**0 to 95% non-condensing**
Agency Approvals: UL and cUL Listed	**UL508 and CSA-C22.2 No 14-95 File E180243 (3HP to 1000HP, 120VAC to 600VAC, 50Hz, 50/60Hz, & 60Hz Three Phase)**
Performance: Total Harmonic Current Distortion	**8% MAX at 30% LOAD 5% MAX at FULL LOAD**

MATRIX AP BENEFITS

- Less Heat Generated
- Improved Power Factor
- Reduction In Component Wiring
- Field Serviceability
- Simplified Field Wiring
- Power Factor Control (Contactor Option)
- Location Portability
- Environmentally Flexible
- Configurable

Our representative in your area is

MTE
AN SL INDUSTRIES COMPANY

N83 W13330 Leon Road,
Menomonee Falls, WI 53051

P: 800.455.4MTE (4683) F: 262.253.8222

Form MAP-PSP-E October 2012
Supersedes Form MAP-PSP-E July 2012