



# AGTU INVERTER

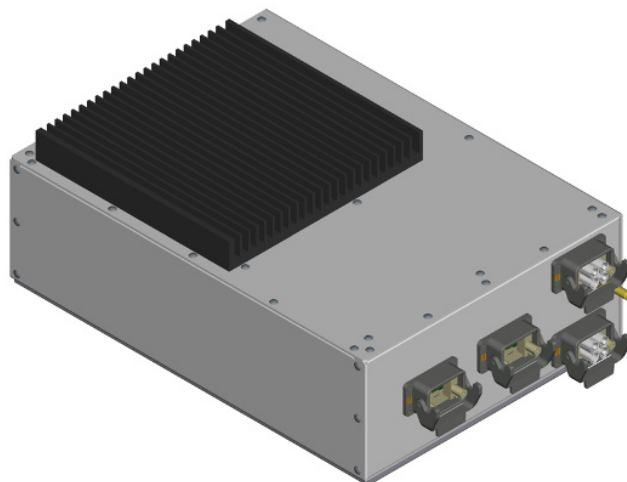
*Optimize compressor operation, simplify systems*

**Dedicated inverter for Air generation & treatment to optimize compressor operation, provide advance monitoring, and simplify system.**

The Wabtec inverter for compressor is driving the compressor, from train 400 VAC line. Optionally a DC regulated high voltage can be used, from 600 up to 850 VDC.

Several operating mode are determined: Initial filling, nominal & silent modes. The inverter adjusts its output frequency for each of the operating modes. It also features the capability to use 110 VDC battery voltage to fill-up pantograph pneumatic circuit, enabling pantograph lift.

The inverter can ensure air dryer control, reducing system complexity. The inverter also provide CBM capability, with compressor monitoring. The inverter communicates with TCMS through Ethernet, it features latest cybersecurity standards.



## KEY CUSTOMER BENEFITS

Optimal compressor operation, including reduced noise

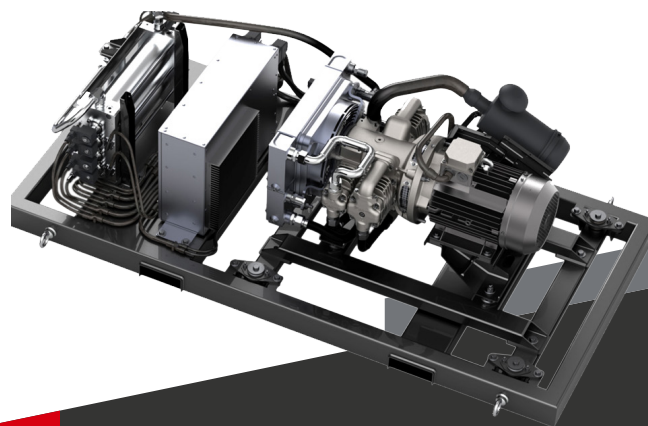
System simplification (pantograph compressor elimination, air dryer control)

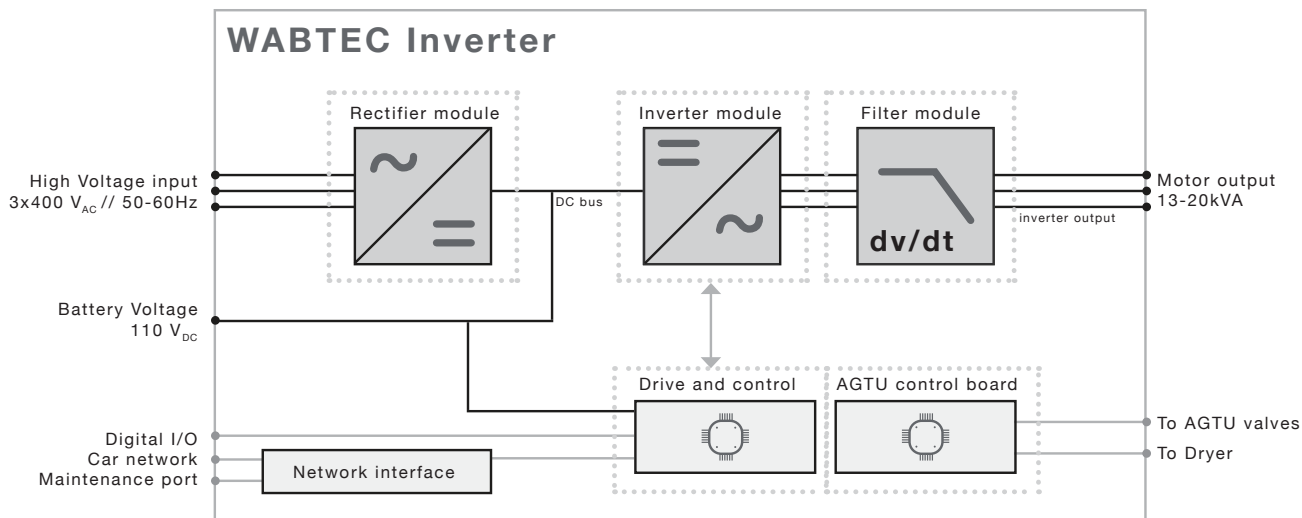
MTBF > 100,000 hours

MTBO  $\geq$  16 years (capacitors replacement)

Reduced space envelop

CBM ready





## KEY FEATURES

### Electric:

High voltage input range:

Base: 3\*400VAC / 50 Hz or 60 Hz

Optional: From 600 up to 850 VDC

Low voltage input range: 110 VDC, as per EN 50155

Nominal output voltage: 3-phases up to 480V;  
15,7 Hz / 27,5 Hz / 50 Hz / 60 Hz, upon operation mode

Rated power: from 13 to 20 kVA

Efficiency: > 95%

### Electric:

Initial filling: 120%

Nominal: 100%

Silent: 50%

Panto: 31%

### Mechanics & environment

Operating temperature: from -25°C to 60°C

Cooling: Free air

Weight: ~50 kg, upon options & rated power

Enclosure: Stainless steel, IP 65

### General

MTBF > 100 000 hours

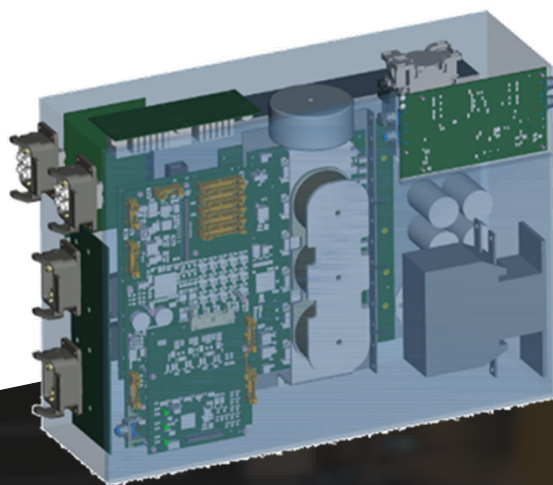
Applicable standards: EN / IEC

Cybersecurity standard: IEC 62443 / EN 50159

EMC EN 50121-3-2

Communication network: Ethernet (TRDP / CIP)

Maintenance / diagnostic through webserver



## CONTACT

### Wabtec Corporation

30 Isabella Street  
Pittsburgh, PA 15212 - USA  
Phone: 412.825.1000  
Fax: 412.825.1019

[WABTECCORP.COM](http://WABTECCORP.COM)