

NAUTILUS

BALQON CORPORATION

**XE30™**

ZERO EMISSION  
ELECTRIC TRACTOR

**WELCOME TO  
A NEW WAY  
TO WORK ...**



**CLEAN**  
efficient transportation

**CLEAN QUIET-SHIFT OF POWER**

Nautilus XE30™ the ultimate in driving pleasure. Equipped with high efficiency Quiet electric motor and lithium ion batteries for increased range, we have extended your driving pleasure in short haul applications. Equipped with 240 Kw controller and maximum low end torque XE30™ provides the ultimate in economy, functionality and comfort in congested short haul city traffic. Ergonomic low cab step height with advanced instrument panel design and the quiet drive system makes XE30™ cabin the ultimate driver environment.

Imagine having fuel cost savings of up to 60% without compromising power and comfort, XE30™ is best in class in zero emission electric trucks.



# XE30™

## ZERO EMISSION ELECTRIC TRACTOR

### PRODUCT FEATURES AND SPECIFICATIONS

Performance	Max speed 55mph (88 Km/hr); unloaded grade 10%, loaded 5%; Max Load 7 Tons; Range unloaded 150 miles (240 Km) fully loaded range 90 miles (150 km.) 8 hour full charge time.
Cabin	Painted white; Air ride operator seat with lumbar support adjustment; three point seat belt; Safety glass tinted front windshield; Steel doors with power windows; dual headlights, turn signals, clearance lights (DOT); side view mirrors; Sun Visor, tilt steering column, air conditioning and heater, AM/FM/CD Stereo roof mounted
Instrumentation	Dash mounted LCD display and operator information system; intuitive self diagnostic and vehicle status display; battery management system; energy fuel gauge; range gauge; on-board vehicle data and status storage; speedometer; analog fault lights for air pressure, transmission status and brake system; integrated USB data port for data downloads
Battery	280 kWhr Lithium Ion battery pack, 324 Volt; automatic low voltage shutdown during operations; battery management system monitors each battery cell performance; on-board battery energy usage meter and life calculator
Charger	20 KW standard charger, 6-8 hour charge time; 80KW multi-vehicle optional fast charger; 4 charging ports standard; priority smart charge algorithm based on vehicle state of charge
Controller	Proprietary flux vector motor controller 240 KW liquid cooled; integrated CAN BUS and self diagnostic system; solid state switching controls 600 amp rated; independent switching controls for accessory drives, auto shut-off during idling operation; USB or wireless data acquisition ports; built in energy management system and battery life calculator
Motor	300 hp. rated 230 volt AC vector duty electric motor connected to flux vector variable frequency controller; full continuous torque at zero speeds; 300% peak load rating; laminated square frame design allows for more hp in smaller frame; 1000:1 constant torque in vector mode; built in thermostats on each phase; connected directly to automatic transmission; low rotor inertia for faster acceleration; fully enclosed zero maintenance; regenerative braking
Transmission	Rugged duty seamless full power shift, 6 speed fully automatic Allison 3000 RDS transmissions; heavy duty torque converter which reduces shock and strain on drive line components and electric motor; electronic CAN Bus shifting controlled by proprietary variable frequency control system
Chassis	161" inches wheelbase 3/8" Variable drop steel; dual rear tail lights, turn signals, reverse lights and brake lights; driver side and curb side mounted battery boxes;
Drive Axle	Dana D46-590 Rear Drive Axle Tandem, Custom ratio, Hendrickson HAS-400 Air Suspension, Shock absorbers, Bendix ABS with PLC; Bendix ABS with PLC
Front Axle	22.5 X 8.25" front wheels, 11R22.5 H 16 Ply rated tubeless type radial, Continental HSR, Meritor MFS-14 Steer, Axle, 14700# Rating; 5500 lb flatleaf spring suspension, 12,500 capacity, Arvin Meritor 16.5X5 QP Brakes, integral power steering
Steering	Hydraulic assist steering with mechanical backup; automotive hydraulic pump with automotive heavy duty steering gear box; constant running PTO pump with priority steering backup.
Vehicle Dimensions	Overall L X W X H - 288 X 96 X 59; wheelbase 161"; front wheel overhang 71, rear wheel overhang 56", Front GAWR - 12,500 lbs, Rear GAWR 40,000 lbs, GVWR 52,500 lbs. Fifth wheel 70,000 lb capacity



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Our quest for safety and reliability begins with Balqon XE30 durable electric drive system built on Autocar® Xpeditor® chassis and cabin design. Autocar® has been building severe service vocational chassis since 1897 and is legendary in reliability and durable product designs. Xpeditor® fully welded, two sided galvanized steel cab and doors features extended cabin, high capacity chassis design along with industry leading supplier components like Hendrickson suspension and Allison transmission. Supported by over 220 dealer locations in North America and 24/7 emergency assistance program that puts you in touch with Autocar® technical services, you are only a phone call away from getting your truck back on the road.

Ergonomics that begins with air and noise quality in the cabin provided by zero emission electric drive system of XE30™. The Nautilus Q-Shift controls provides you with the smoothest gear shifts in heavy duty electric vehicles. Q-Shift Can Bus integrated controls communicates seamlessly with Allison Automatic transmissions and provides the incredible power and torque under your control making your daily work shift more enjoyable. While 240 Kw power can help you climb 10% grades with ease we have also equipped our drive system with regenerative braking that provides automatic speed control on your way down while capturing energy back into the batteries, yet another reason why Balqon XE30™ is in a class of its own when it comes to **clean quiet power and energy efficiency.**