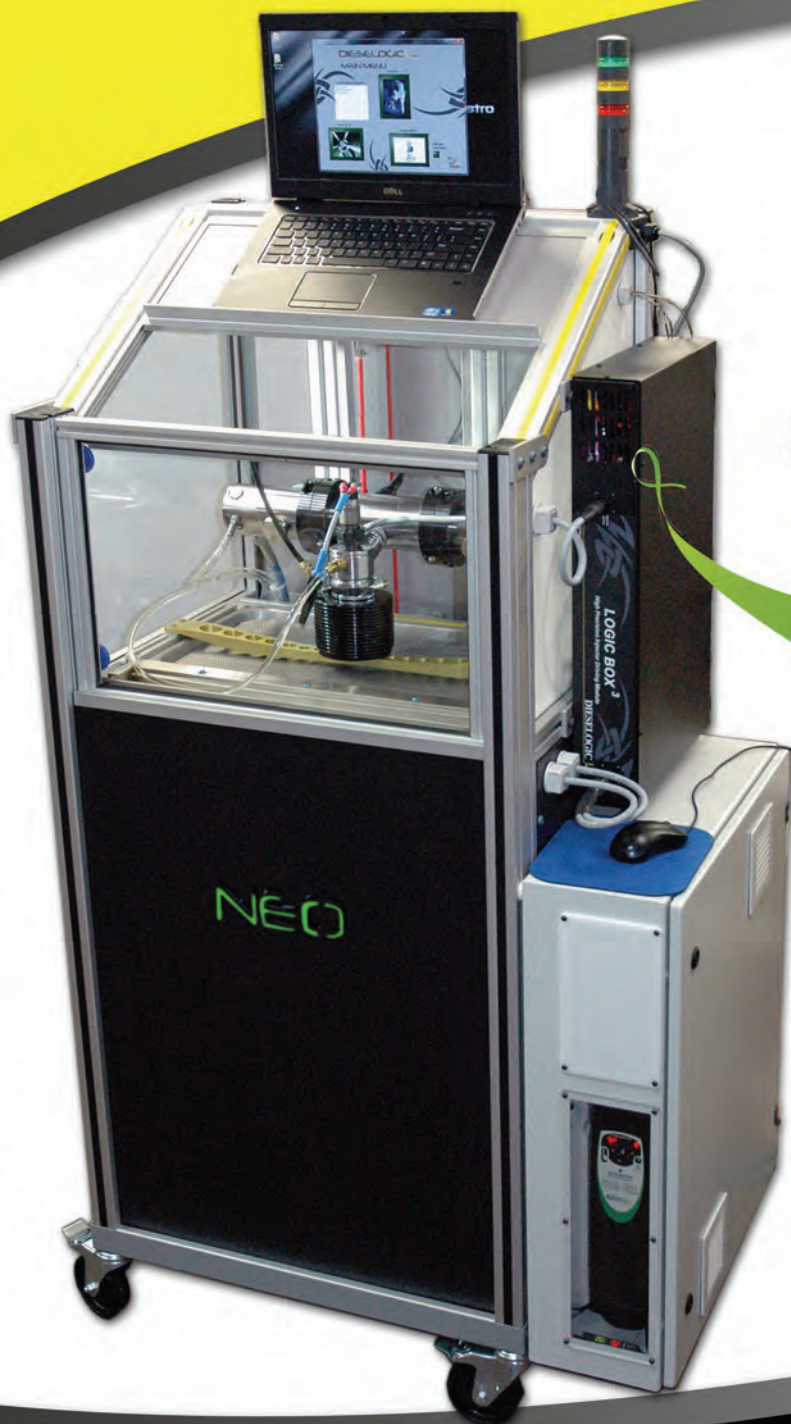


Fiber Optic Injector Calibration Bench



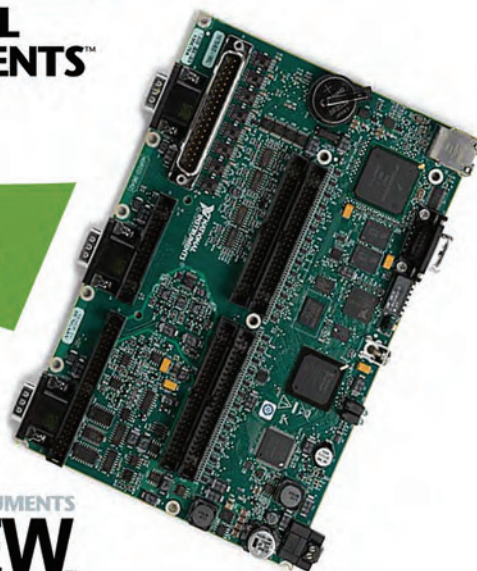
NEO

POWERED BY



**NATIONAL
INSTRUMENTS™**

sbRIO



**AVL PLU 110T
FLOW METER**

DRIVEN
A National Instruments Company

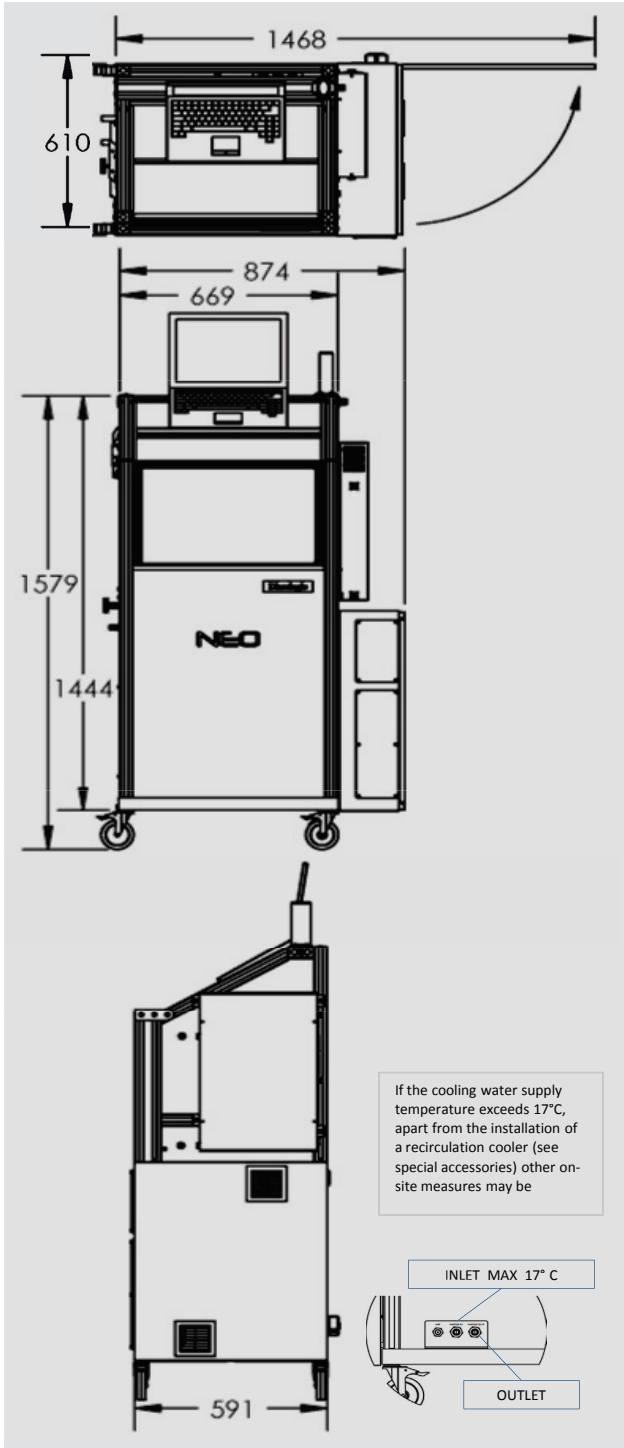


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System dimensions, data & facts

NEO TEST STAND CRIN, NFGN, UCBN, CD3N, 2F3N, UHIN

System dimensions

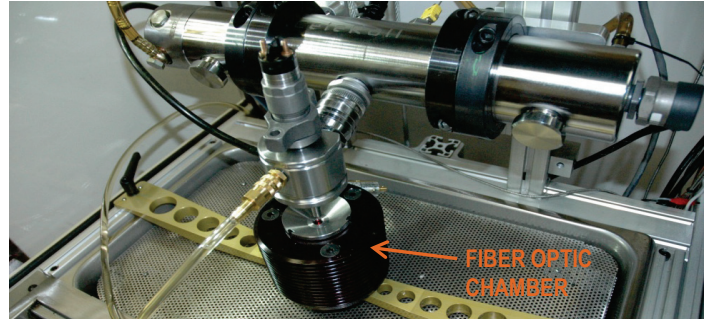


NEO – CRIN, a Common Rail Injector test machine, resolves complex multiple “shot to shot” Multiple Injection Metering technology. It provides validity testing of gas/diesel internal calibration emission tolerances, and stimulates the aftermarket economy while lowering emissions for a greener environment.

MIM measurement is achieved by integrating fiber optics, in an unconventional method, using fluid dynamic cavitations. Combined with a positive displacement flow meter, simultaneous high-precision mean-flow-rate, single-shot-volume, and cycle-to-cycle deviation is analyzed.

The result is real time injection event start and end times with precise cycle-to-cycle measurement and extremely short separation times (<25µs). The flow meter can define plus or minus tolerances 1/10 of a mm³, or 2/1000th of a drop of water.

This revolutionary instrument provides the aftermarket with the accuracy of aerospace instrumentation at an economical cost to directly contribute in the preservation of a cleaner environment.



Technical Data

Function	Specification
Nominal three-phase voltage - 230V	208 VAC – 240 VAC
Number of phases	3P / PE
Input frequency	60 Hz
Nominal current - 230V	15 A
Nominal power	4.2 KW
Compressed air	93 psi - 120 psi
Operating temperature	0 °C – 50 °C
Oil pressure	1900 Bar
Maximum speed	8000 rpm
Control voltage	24 VDC
High pressure connection	Quick Disconnect
High pressure common rail	Xceleraïl - BÄDÄZ
Test oil tank capacity	18 - Litres

Dimension and Weights

Function	Specification
NEO (H x W x D)	1579 x 874 x 591 mm
Weight with packing	800lbs
Weight (without test oil and packing)	650lbs

Included Standard Components

Description	Order number
Nipple Adapter M 12 (Qty 2)	333-2603
Nipple Adapter M 14 (Qty 2)	333-2607
Nipple Adapter Hemi (Qty 2) 5.9, 6.7 & 8.3	333-2611
Hemi Sleeve (Qty 2) 5.9 & 6.7	333-2835
Hemi Sleeve (Qty 2) 8.3	333-2836
Mim chamber Bushing 7mm	333-2845
Mim chamber Bushing 9mm	333-2846
Mim chamber Bushing 7mm oring (Qty 2)	333-8167
Mim chamber Bushing 9mm oring (Qty 2)	333-8168
Mim chamber Top Lid orings 1 & 2 (Qty 2)	333-8169/333-8170
Harness Alligator clip set	334-1501
Harness Bosch connector - Duramax 2006 up	333-2860
Hose line (injection)	334-1505
Hose line (return)	334-1506
Filter Cartridge	333-2860
Laptop PC	333-2684
Ethernet cable (3ft)	333-2432
Power cord - Euro mickey	333-2753
Recipe Spec's - Duramax & Cummins Pkg	333-2861
Shipping Crate	333-2853
Kunkle Valve	333-8138

Optional Accessories

Description	Order number
Service Agreement	333-2855
Return Sleeve Siemens 6.4 Piezo	333-2862
Return Sleeve Denso Komatsu	333-2863