

CorkSport Top Mount Intercooler Development and Testing

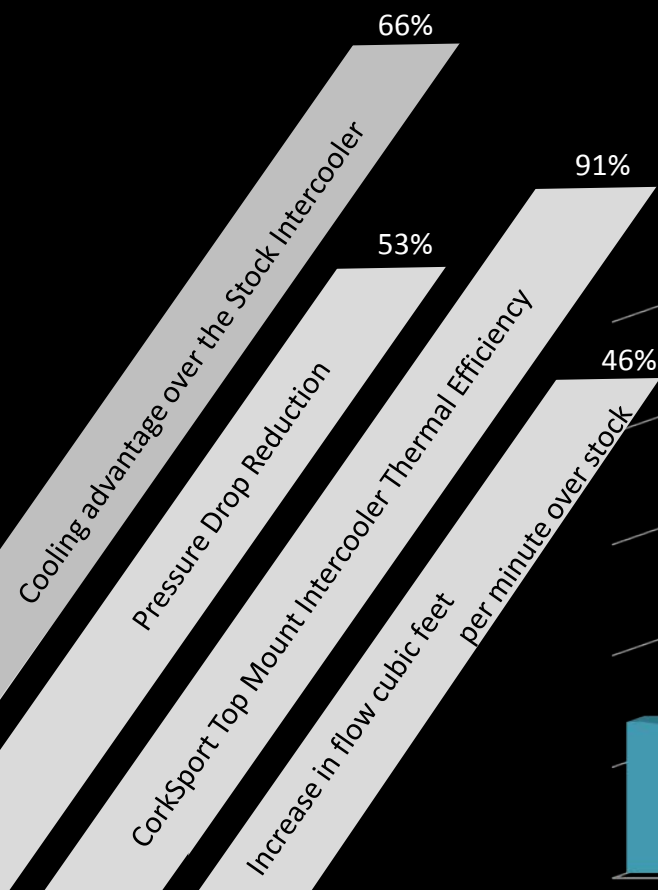
START
Development
Process

August 2010:
Product Idea submitted by
azmavhockey3 on
Mazdas247 Forum

"The Top mount intercooler by CorkSport is a must have for someone looking to get the most out of your 2.3mzr turbo especially if you want to keep a stock look. I'm even running mine with a stock shroud on my speed3. The fit and finish on this product is typical of what CorkSport puts out, great quality at a very competitive price. The power band has become way stronger in the higher end. I have also noticed a very quick spool and I am at full boost in no time. I would highly recommend this product for anyone looking to get some gains. ..."

Azmavhockey3 2007 Mazdaspeed 3 Owner

SuperFlow SF-600 Testing CorkSport TMIC VS. Stock



Development
Begins

Design Opt #1:
Folded End Tanks
vs.
Cast ✓

Design Opt #2:
stock tube fin
vs.
Bar and plate ✓

Design Opt #3:
2.25" Core
Vs.
3" Core ✓

Why 3" Core? ✓

1. Helps maximize heat dissipation
2. Can directly bolt on the OEM cover which is designed to mate with the hood venting shroud for optimal flow
3. Leaves a clean look in the engine bay and covers up many of the wires and hoses near the fuel pump

Dyno Testing

AirFlow,
and Thermal
Efficiency,
testing

Pressure
Tested to 35 PSI

Tested in Real
World
Environment

May 2011:
Product
Released

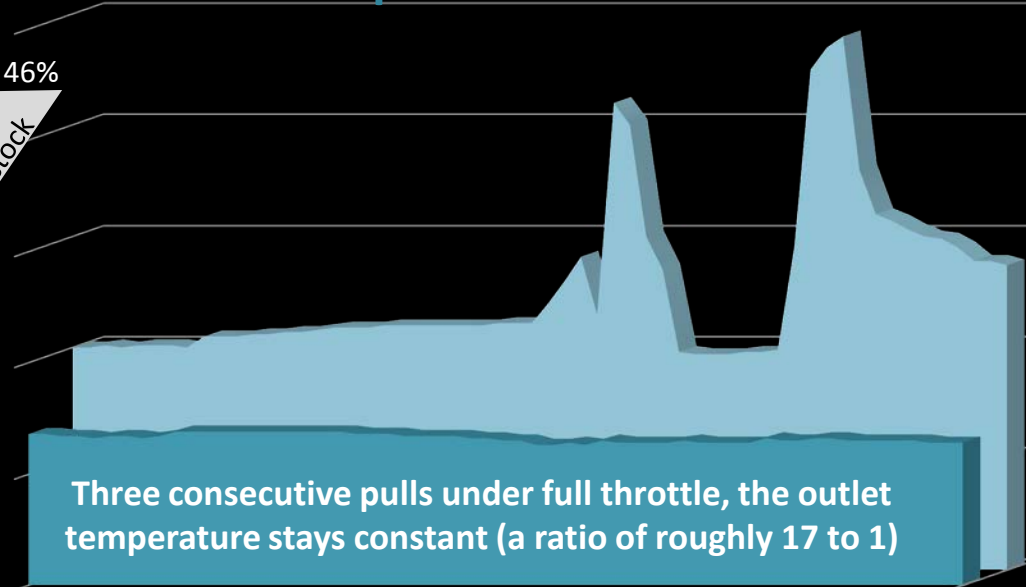
Max Gains



10 WHP

21 ft lb of Torque at the wheels

CorkSport Top Mount Intercooler Temperature Differential



5.5 PSI

STOCK

2.6 PSI

CORKSPORT

CorkSport's Intercooler maintains a max pressure drop of 2.6 PSI