

# Alternative Fuel Heat Exchangers

**Arctic Fox** steps to the front in the alternative fuels market with an easy way to convert Compressed Natural Gas (CNG) and other alternative fuels to combustible energy sources. It is no longer necessary to apply an "off the shelf" heat exchanger to alternative fuel applications; now you can choose heat exchangers designed for applications in alternative fuels.

## The Problem:

Natural gas is stored in tanks on board the vehicle at a "tank pressure" ranging from 250 psi to 3600 psi. A regulator is used to regulate this pressure to a value typically around 115 psi. As a result of the pressure drop through the regulator, the natural gas reaches temperatures nearing - 200° degrees F. The Arctic Fox heat exchanger is utilized to prevent the natural gas from dropping below an acceptable temperature based on engine temperature and load. At low fuel rates, a thermostat is required to prevent heating of the gas above an acceptable temperature.

## The Solution:

The high quality, 100% stainless steel heat exchangers from Arctic Fox, Inc. designed for CNG applications.



## Features:

- Heat Exchanger – 100% Stainless Steel construction
- 350 psi maximum operating pressure
- 100% *independent lab certified* for pressure rating
- Minimum burst pressure on destructive tests of 6,000 psi.

## Advantages:

- Simple Design
- Compact Design – Mounts in tight locations
- Integrated Thermostat Option Available (SFT models)
- 15 tube heat exchange increases efficiency

MAXIMUM OPER. PRESSURE	PARTS NO.	GAS & FLUID PORT SIZE	INTERNAL TUBE LENGTH	TOTAL LENGTH	OUTSIDE DIAMETER	HEAT EXCHANGER MATERIAL	SURFACE AREA
350 psi	SF-2587-6	1/2" NPT	6.0"/152mm	10.0"/245mm	2.375"/60mm	Stainless Steel	108 in sq.
350 psi	SF-2587-8	1/2" NPT	8.0"/203mm	12.0"/305mm	2.375"/60mm	Stainless Steel	143 in sq.
350 psi	SF-2587-10	1/2" NPT	10.0"/254mm	14.0"/356mm	2.375"/60mm	Stainless Steel	179 in sq.
350 psi	SF-2587-12	1/2" NPT	12.0"/305mm	16.0"/406mm	2.375"/60mm	Stainless Steel	214 in sq.
350 psi	SFT-2587-6	1/2" NPT	6.0"/152mm	12.5"/318mm	2.375"/60mm	Stainless Steel	108 in sq.
350 psi	SFT-2587-8	1/2" NPT	8.0"/203mm	14.5"/368mm	2.375"/60mm	Stainless Steel	143 in sq.
350 psi	SFT-2587-10	1/2" NPT	10.0"/254mm	16.5"/419mm	2.375"/60mm	Stainless Steel	179 in sq.
350 psi	SFT-2587-12	1/2" NPT	12.0"/305mm	18.5"/469mm	2.375"/60mm	Stainless Steel	214 in sq.