


## SCAQMD Rule 1146.2 Emission Standards – AMENDED 5/5/06

The above ruling regarding Emissions of Oxides of Nitrogen from Water Heaters & Boilers was adopted on January 9, 1998. The purpose of the ruling is to reduce NOx emissions from natural gas-fired commercial water heaters, small boilers and process heaters. \*\* Condensed Ruling available upon request, call (909) 396-2000 or visit <http://www.aqmd.gov/rules/reg/reg11/r1146-2.pdf>.

- ❑ **TYPE 1 UNIT** means any water heater, boiler or process heater with a RATED HEAT INPUT CAPACITY less than or equal to 400,000 BTU/h excluding TANK TYPE WATER HEATERS subject to the limits of District Rule 1121.
- ❑ **TYPE 2 UNIT** means any water heater, boiler or process heater with a RATED HEAT INPUT CAPACITY greater than 400,000 BTU/h up to and including 2,000,000 BTU/h.

Effective Date	Unit Type	BTU/H Input	Age Criteria	NOx Requirement
January 1, 2000	Type 2 Unit	400,000 - 2,000,000 BTU/h	New	30 ppm of NOx emissions (at 3% O2, dry)
January 1, 2001	Type 1 Unit	Less than or equal to 400,000 BTU	New	55 ppm NOx emissions (at 3% O2, dry)
July 1, 2002		1,000,000 - 2,000,000 BTH/h	Manufactured prior to January 1, 1992	30 ppm of NOx emissions (at 3% O2, dry)
January 1, 2006		1,000,000 - 2,000,000 BTU/h	No more than 15 years old or Manufactured on or after January 1, 1992	30 ppm of NOx emissions (at 3% O2, dry)
January 1, 2006		400,000 - 1,000,000 BTU/h	No more than 15 years old or Manufactured prior to January 1, 2000	30 ppm of NOx emissions (at 3% O2, dry)
January 1, 2010	Type 2 unit	400,000 BTU - 2,000,000 BTU/h		20 ppm of NOx emissions (at 3% O2, dry)
January 1, 2012	Type 1 unit	Less than or equal to 400,000 BTU/h		20 ppm of NOx emissions (at 3% O2, dry)

**Elmco/Duddy** offers the following water heaters & boilers manufactured by Lochinvar Corp. that comply with the new ruling:

	Low NOx Rating*	BTU Range	Sample Model Number	Thermal Efficiency
<b>Sync™</b> Condensing Boiler <b>New!!!</b>	Less than 30 ppm	1,000,000 - 1,500,000	SBN1500	Up to 98%
<b>Intelli-Fin™</b> Water heater & Boiler	Less than 30 ppm	1,500,000 - 2,000,000	IWN1500PM IBN2000M7	97%
<b>Power-Fin E®</b> Water heater & Boiler	Less than 30 ppm	500,000 - 2,000,000	PFN0502PMF7 PBN1701M7	Up to 87%
<b>Copper-Fin II®</b> Water heater & Boiler	Less than 30 ppm	400,000 - 2,070,000	CFN1801PMM7 CHN1801M7	85%
<b>Copper-Fin®</b> Water heater & Boiler	Less than 30 ppm	495,000 - 2,065,000	CWN0986PMF7 CBN0986F7	82%
<b>Knight™ &amp; Knight XL™</b> Condensing Boiler	Less than 30 ppm	80,000 - 800,000	KBN105M7 KBN800M7	96% AFUE Up to 94.6%
<b>Armor Water Heater™</b> Condensing Water Heater	Less than 30 ppm	150,000 - 500,000	AWN150PMM7	Up to 98%
<b>Efficiency+®</b> Water Heater, Water Heater/Storage Package, & Boiler	Less than 30 ppm	150,000 - 300,000	EWN300PMF7 EPN300-100F7 EBN300M7	85%
<b>Shield™</b> Water Heater –Tank Type <b>New!!!</b>	Less than 30 ppm	150,000 - 500,000	SNR200-100 SNA400-125	96%
<b>TurboCharger™</b> Water Heater –Tank Type	Less than 30 ppm	125,000 - 400,000	TNR200-060 TNA301-100	Up to 98%
<b>Charger</b> Water Heater –Tank Type	Less than 55 ppm NOx or 40 ng Joule	75,000 - 400,000	CNR076-075 CNR199100DF9	80%

\* as tested by the ETL Testing Laboratories, Inc., Cortland, NY

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