



ETi™ 400

# NEW!

## ETi™ 400

HIGH-EFFICIENCY HEATER

**TRADEGRADE**  
BY PENTAIR

THE HIGHEST EFFICIENCY EVER.  
THE LONGEST-LASTING HEAT EXCHANGER EVER BUILT.



# More staying power. More saving power.

## INTRODUCING THE TITANTOUGH™ DIRECT-FIRE TITANIUM HEAT EXCHANGER FOR UNMATCHED DURABILITY AND EFFICIENCY.

The new ETi™ 400 High-Efficiency Heater brings you the TitanTough Heat Exchanger, the longest-lasting heat exchanger ever built. It's the first direct-fire heat exchanger in the industry with titanium ASME-certified construction. And, it's designed to stand up to the harshest water conditions.

The TitanTough heat exchanger leads to another first: 96% thermal efficiency, the highest of any pool heater. So, you heat your pool for less and reduce emissions—all in a heater that's ultra quiet in operation and easy to install, both indoors and out.



### **The highest corrosion resistance ever built into a gas-fired pool heat exchanger**

ASME-certified pure titanium direct-fire heat exchanger.



### **Incredible 96% energy efficiency**

Extraordinarily efficient gas-fired heater gets more heat into pool water faster.



### **Convenient installation**

Flexible venting options, left or right plumbing orientation and certified for indoor and outdoor installation.



## TRADEGRADE

BY PENTAIR

The TradeGrade family of products is exclusively made for and sold by the world's most demanding pool professionals.



### **Easy to vent properly**

Fully sealed Category IV direct-air vent does not require large room openings for combustion air.

### **Ultra-quiet operation**

Great for you, great for your neighbors.

### **Install in left or right orientation**

Rotatable front door allows control pad to be rotated 180 degrees, so this heater can be plumbed on the right- or left-hand side.



# A tougher metal for longer life.

## PURE TITANIUM WITHSTANDS CONDITIONS THAT DEFEAT ORDINARY HEAT EXCHANGERS

The job of the heat exchanger is to capture the heat from burning gas and transfer it to your pool's water—the more efficiently, the better. But, the combination of operating heat and pool water chemistry can be tough on exchangers, leading to corrosion and failure.

That's why we made the ETi™ 400 High-Efficiency Heater's direct-fire heat exchanger from pure titanium. It provides long life under extreme conditions.



### **Rough conditions**

High operating temperatures and pool water chemistry can be rough on conventional heat exchanger materials.



### **Titanium: the right stuff for high temperatures**

You'll find titanium in military jet engine afterburners.<sup>1</sup>



### **A metal that gets respect**

Titanium is known for excellent corrosion resistance, high strength and light weight.

<sup>1</sup>Photo source: Royal Air Force, United Kingdom. Crown copyright 2007.

# The TitanTough™ Direct-Fire Heat Exchanger

Pure titanium. Pure performance.

## Stands up to the toughest conditions

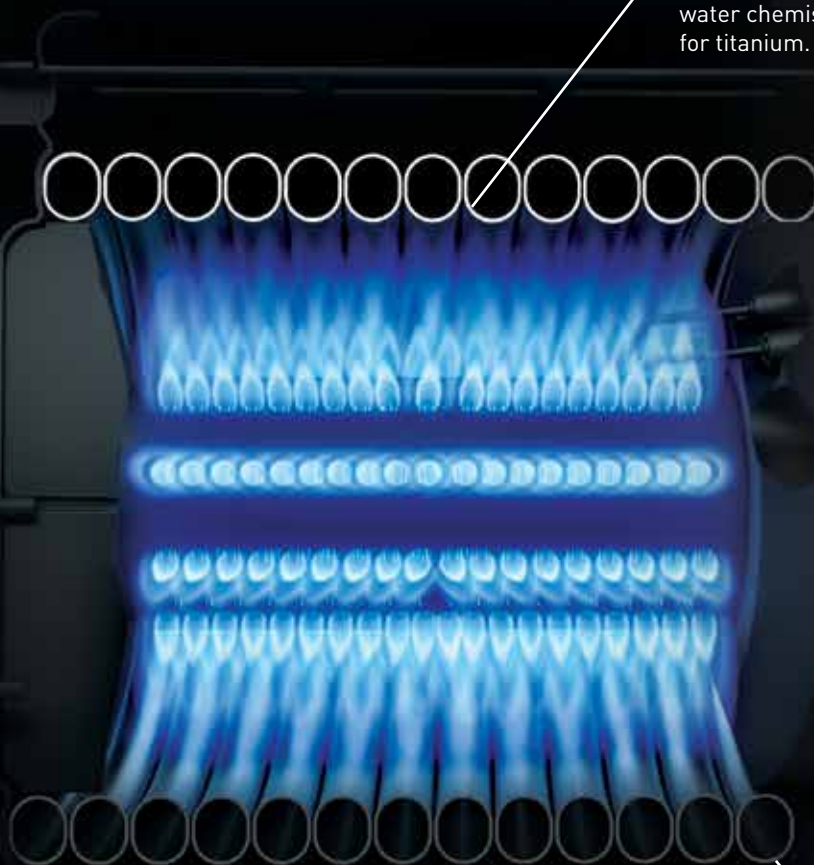
1,800° F flame temperatures and pool water chemistry are all in a day's work for titanium.

## Design elements that boost durability and efficiency

No welds, crimps or joints that reduce corrosion resistance. Tubing is shaped for maximum flow and efficiency.

## Industrial chemical processors lean on titanium

When handling concentrated chlorine compounds, industrial processors rely on the corrosion resistance of titanium piping and heat exchangers.



# 96% thermal efficiency saves more in energy costs than any other pool heater.

The ETi™ 400 High-Efficiency Heater pays big dividends by using fully condensing Heat Exchange Technology to put more heat into your pool water and less into its exhaust. That's good for your budget and even better for the environment.



# How much can you save with a 96% efficient heater?

## SIGNIFICANT ENERGY COST SAVINGS EVERY YEAR<sup>2</sup>

The ETi 400 heater operates far more efficiently, with less run time per day. The run-time reduction pays off, especially for larger pools.

### 25,000 GALLON POOL AVERAGE ANNUAL SAVINGS

\$334

### 50,000 GALLON POOL AVERAGE ANNUAL SAVINGS

\$669

### 75,000 GALLON POOL AVERAGE ANNUAL SAVINGS

\$1,004

Average annual heater use: six months

## LOWER CO<sub>2</sub> EMISSIONS<sup>3</sup> TO REDUCE YOUR CARBON FOOTPRINT

As the ETi 400 High-Efficiency Heater more effectively adds heat to your pool water, less CO<sub>2</sub> goes out the exhaust. Over a year heating a 75,000 gallon pool, the ETi 400 High Efficiency Heater will produce 9,699 fewer pounds of CO<sub>2</sub> than a conventional heater. That's almost equal to preventing the yearly emissions from a typical automobile.

### 25,000 GALLON POOL CO<sub>2</sub> EMISSION REDUCTION (POUNDS)

-3,201

### 50,000 GALLON POOL CO<sub>2</sub> EMISSION REDUCTION (POUNDS)

-6,402

### 75,000 GALLON POOL CO<sub>2</sub> EMISSION REDUCTION (POUNDS)

-9,688

Average car CO<sub>2</sub> per year<sup>4</sup>: 10,440 lbs.

<sup>2</sup>Energy savings based on 30% heat loss per day from uncovered pool under moderate wind conditions and 65° F outside air temperature. Comparison shows energy savings for a 96% efficient heater versus an 83% efficient heater, based on six months per year of natural gas operation and natural gas cost of \$1.22 per 100,000 BTU.

<sup>3</sup>CO<sub>2</sub> emission reduction based on 30% heat loss per day from uncovered pool under moderate wind conditions and 65° F outside air temperature. Comparison shows CO<sub>2</sub> emission reduction for a 96% efficient heater versus an 83% efficient heater, operating six months per year and based on an emission rate of 117 lbs. CO<sub>2</sub> per million BTU from natural gas combustion, per U.S. Energy Information Administration.

<sup>4</sup>2013 data: Average car emits 10,440 lbs. CO<sub>2</sub> per year, based on 11,346 annual miles and 21.6 mpg, per U.S. Environmental Protection Agency.



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## HIGH-EFFICIENCY HEATER

Start the drive to more staying power and more saving power.  
Learn more from your Pentair dealer. Or visit [pentairpool.com](http://pentairpool.com).



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