SHARC
ENERGY

Seven35.
North Vancouver B.C.

SITE INFO

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PIRANHA T10 HC	PRODUCT INSTALLED
MULTI-FAMILY RESIDENTIAL	PROJECT TYPE
60 TOWNHOMES	PROJECT SIZE
JUNE 2012 · **SHARC 660** APRIL 2016 · **PIRANHA T10** MARCH 2020 · **PIRANHA T10 HC**	COMMISSIONED
ADERA	DEVELOPER
STANTEC CONSULTING LTD.	ENGINEER
INTEGRA ARCHITECTURE	ARCHITECT

Multi-Award Winning Sustainable Townhomes

The Seven35 building on the North shores of Vancouver is a multi-award winning development and is the first installation of the PIRANHA wastewater heat recovery system.

At the forefront of sustainable building, Seven35 has aggressively adopted several SHARC beta installations and became a key proving ground of SHARC and PIRANHA efficiency to the world *(see EPRI Incubate Energy Challenge.)*

In March 2020 the 60 sustainable, two-story townhomes installed a **PIRANHA T10 HC** which **uses wastewater to recover and save homeowners up to 75% in energy costs.**
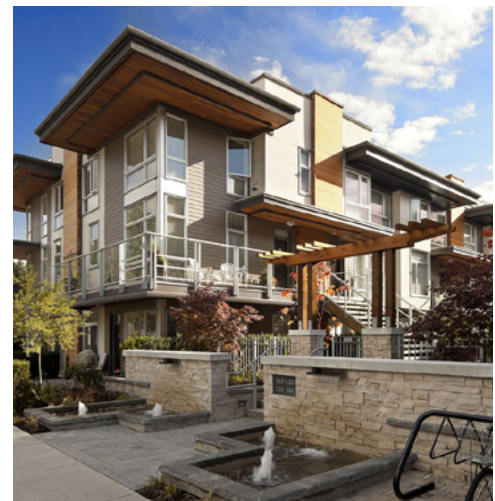
QUICK FACTS

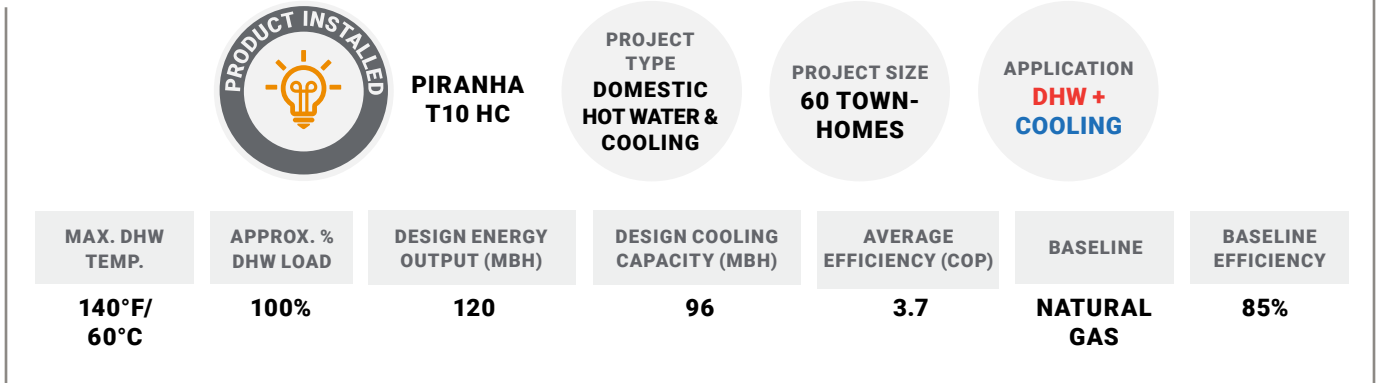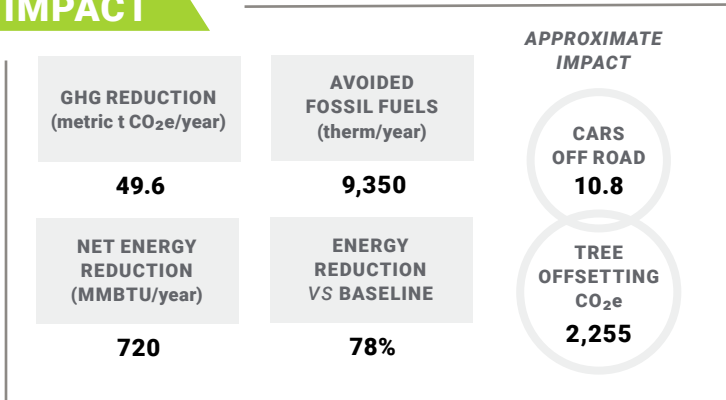|			
	Built Green Gold	**LEED Platinum**	**Most energy efficient and sustainable community**
Installed heat capacity of 120,000 Btu/h	**Energy savings of 75%**	**GHG production reduced by 90%**	**The average water usage per town home is 250 gallons per day at an average exiting temperature of 20°C (68°F).**

Canadian Home Builders' Association

SPECS & PERFORMANCE

PRODUCT INSTALLED

PIRANHA T10 HC

PROJECT TYPE DOMESTIC HOT WATER & COOLING

PROJECT SIZE 60 TOWN-HOMES

APPLICATION DHW + COOLING

MAX. DHW TEMP.	APPROX. % DHW LOAD	DESIGN ENERGY OUTPUT (MBH)	DESIGN COOLING CAPACITY (MBH)	AVERAGE EFFICIENCY (COP)	BASELINE	BASELINE EFFICIENCY
140°F/ 60°C	100%	120	96	3.7	NATURAL GAS	85%

IMPACT

APPROXIMATE IMPACT

GHG REDUCTION (metric t CO_2e/year)	AVOIDED FOSSIL FUELS (therm/year)	CARS OFF ROAD
49.6	9,350	10.8

NET ENERGY REDUCTION (MMBTU/year)	ENERGY REDUCTION *VS* BASELINE	TREE OFFSETTING CO_2e
720	78%	2,255

GLOSSARY

DHW · DOMESTIC HOT WATER
COP · COEFFICIENT OF PERFORMANCE
AVERAGE EFFICIENCY (i.e. 3.7=370%)

HEATING ASSUMPTIONS
BOILER AT OPTIMUM CONDENSING

SITE OF
EPRI INCUBATENERGY
CHALLENGE PILOT

99% GHG REDUCTION
61% ENERGY SAVINGS

Read the proof!

EPRI ELECTRIC POWER RESEARCH INSTITUTE   incubatenergy

Check out the pilot results at:
sharcenergy.com/incubatenergy/

PIRANHA