

CONDENSING TANKLESS WATER HEATER

CONDENSING WALL HUNG BOILERS

CONDENSING COMBI BOILERS

RESIDENTIAL AND COMMERCIAL SOLUTIONS



heating technology since 1959



COMBI-TECH



COMBI-TECH®

THE EVOLUTION OF THE HEAT EXCHANGER



YESTERDAY



TODAY

Since 1959, Radiant has been on the cutting edge of heat exchanger design. Designing and manufacturing from the ground up, Radiant has built their own heat exchangers in house from day 1.

With a constant focus on efficiency and reliability, the heat exchanger has evolved into the heart found in each Radiant product. The newly introduced **COMBI-TECH®** heat exchanger is made from T316 stainless steel, with a tube diameter of 28mm, which makes for higher efficiency numbers, less head loss, and easier maintenance. With 57 years of unparalleled experience and know how... the combitech heat changer comes with a 10 year, no questions asked warranty.



COMBI-TECH



Ø 28 mm
Ø 1.10 inch

MADE IN ITALY BY RADIANT

0.954 UEF



DIGITECH® CS

INTELLIGENCE...SIMPLIFIED

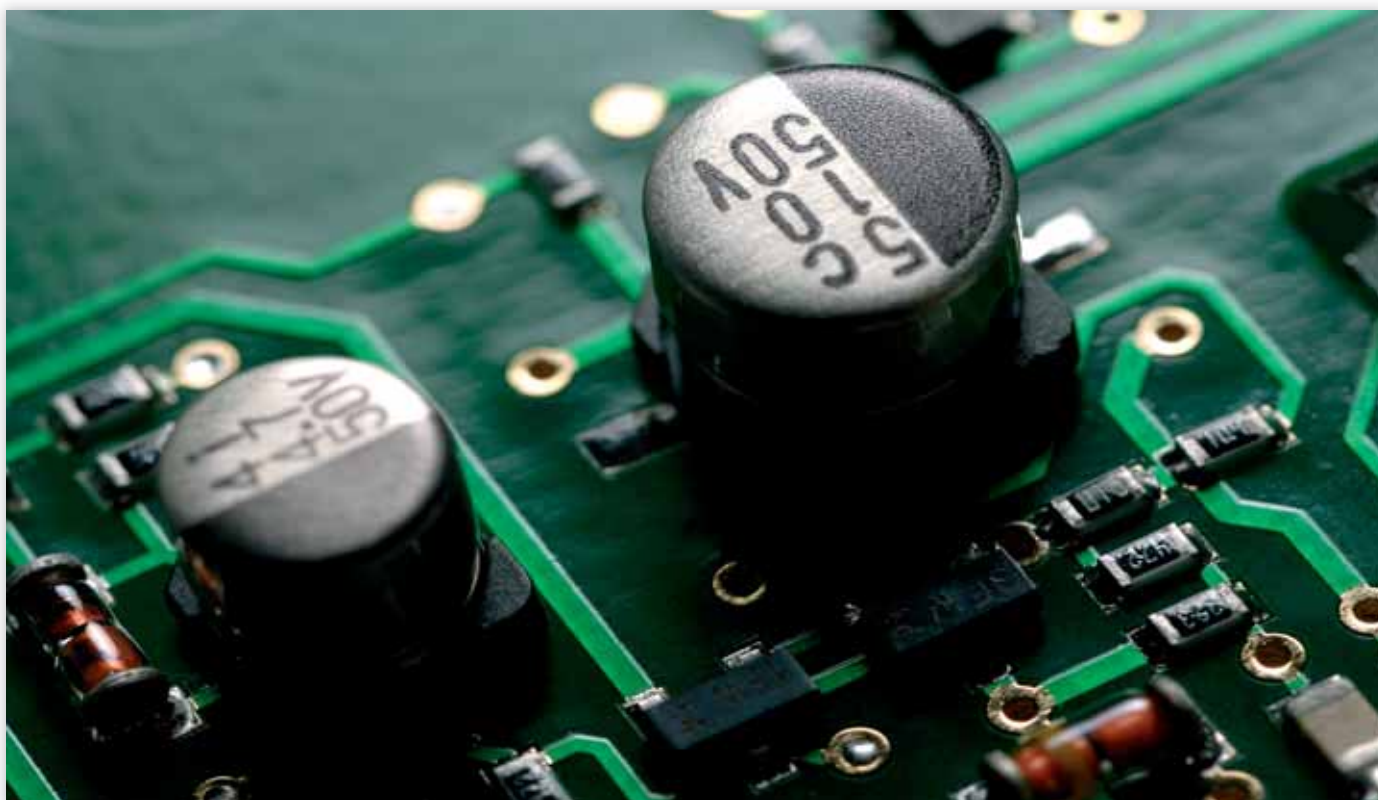


DIGITECH

DIGITECH[®] CS ELECTRONIC CARD

- MEMORY FUNCTION SAVES AND STORES UPTO 5 ERROR CODES
- HIGH LEVEL OF ELECTRICAL PROTECTION, SOPHISTICATION AND SIMPLICITY

DIGITECH CS – designed to be intuitive, simple, and of course functional... the DIGITECH control by RADIANT puts every aspect and function of the unit at your fingertips. The controller saves up to 5 error codes, making for an easy trouble shooting experience for your service technician should a problem arise with your Radiant unit. Setting and saving temperature parameters is also a quick and easy procedure on the DIGITECH. The control board is also capable of controlling external sensors, solar panels, and is WIFI capable to be controlled by your smart phone. (separate module required)





RADIANT CLOUD WARM BOILER REMOTE CONTROL

MANAGE YOUR COMFORT AND SAVE

Download the free **CLOUD WARM APP** onto your Smartphone or tablet. Compatible with both ANDROID and IOS, you now have complete and total control over your Radiant product. Temperature settings, parameters, and trouble shooting are all a snap, and controlled with the touch of a button on your hand held device.

(separate module required)



DOWNLOAD THE FREE APP FOR IOS AND ANDROID



SIMPLE AND INTUITIVE
COMMANDS

CONTROL FROM YOUR
SMARTPHONE OR
TABLET, THE COMFORT AT
HOME WHEN YOU ARE AWAY
FROM HOME

SET DAILY / WEEKLY SCHEDULE

COMPLETE BOILER CONTROL

SAVING TOMORROW..... TODAY

Radiant, always engages and invests heavily in research to develop products that reduce their carbon footprint, and help reduce harm to the environment. High performance, with minimal emissions into the atmosphere are at the very top of the list when each Radiant product is designed. Exceeding some of the toughest environmental laws in the world, Radiant is a leader in condensing technology, energy conservation, and environmentally friendly products.





★★★★ 92/42/CEE / IP X5D

CONDENSING COMBI & CENTRAL HEATING BOILERS COMBI-TECH FROM 82,000 TO 190,000 BTUH



COMBI-TECH: WELL BEING AND TECHNOLOGY ALL IN ONE PRODUCT

The combitech heat exchanger is a marvel created by Radiant is the heart of each radiant boiler and is also found in the Aqua2 tankless water heater. Utilizing a concentric design, with an inner coil of 28mm, the combitech's design prevents calcium buildup, and deposits that typically clog other heat exchangers on the market. The overall operation of the boiler is also very quite thanx to a "silencer" that is fitted onto each air intake in every unit. Huge DHW output, 1:10 modulation, interactive controls that work on your smartphone, 2" vent, striking good looks, and quite as a mouse... What more could you ask for in a boiler or water heater. It's a great trick if you can do it..... we did. .



Enhanced noiseless 52 dB



Ø 1.10 inch



1:10 Modulation



2" VENT PVC, CPVC, POLIPROPYLENE

NATURAL GAS & PROPANE

MODEL	HEATING OUTPUT BTUH	MODULATION	SPECIFIC FLOW RATE ΔT 70°F (GPM/D.H.W.)
R1K 55	187667,8	1:10	-
R2K 24	81891,4	1:10	3.1
R2K 34	116012,8	1:10	4.2
R2K 55	187667,8	1:10	6.3



CONDENSING COMBI BOILERS WITH DUAL-TECH TECHNOLOGY 82,000 / 116,000 BTUH



DUAL-TECH: THE LUXURY OF A TANKLESS WATER HEATER, WITH THE PEACE OF MIND OF A STORAGE TANK – IN ONE

Dual-tech® combi boilers is your answer when there is a huge demand for DHW production, and high efficient hydronic heating in one wall hung product. With an energy saving combitech exchanger at its core, paired with a dual tech indirect on board storage tank, you have a killer combination of stored preheated water, and instantaneous hot water in one. DUAL-TECH® is the step forward, as for the technology, of the previously patented Radiant DUOPASS®. DUAL-TECH® is the ideal combination between the exchanger "made in Radiant" COMBI-TECH® and the patented assembly Radiant DUOPASS®. The DUAL-TECH® assembly is made of an integrated double-coil exchanger, fully made in Radiant, that enables an instantaneous highly efficient heat transfer without losses, that replaces the previous system that featured a secondary exchanger.



Enhanced noiseless 52 dB



Ø 1.10 inch



1:10 Modulation



95% Efficiency

DUAL-TECH



2" VENT PVC, CPVC, POLIPROPYLENE

**NATURAL GAS
& PROPANE**

MODEL	HEATING OUTPUT BTU	MODULATION	SPECIFIC FLOW RATE ΔT 70°F (GPM/D.H.W.)
R2KA 24 /8	81891,4	1:10	3.1
R2KA 34 /20	116012,8	1:10	4.2



★★★★ 92/42/CEE / IP X5D

TANKLESS WATER HEATER AQUA² BY RADIANT FROM 82,000 TO 190,000 BTUH



FLOW-TECH: THE TANKLESS WATER HEATER ... REINVENTED.

190,000 BTUh – 10 to 1 modulation

Maximum Efficiency with the use of FlowTech® technology - .954 U.E.F.

2" PVC, CPVC, & Polypropylene vent capable

7.02 GPM @ 54° F (5.1 GPM @ 70°F)

Intelligence meets simplicity – service friendly design

Most Economically-priced tankless water heater on the market today



COMBI-TECH



1:10 Modulation



Ø 1.10 inch



Integrated
recirculation



**NATURAL GAS
& PROPANE**

It's A Great Trick If You Can Do It. We Did.



The Tankless Water Heater ... Reinvented.

The most economically-priced tankless water heater on the market today



- 190,000 BTU/H - 10 to 1 modulation
- 2" PVC, CPVC & Polypropylene vent capable
- Hyper-efficient maximum efficiency of .954 U.E.F. the market today
- Intelligence meets simplicity - service friendly design
 - 7.02 GPM @54° F (5.1 GPM @°70F)
- Boiler technology in a tankless water heater



Thermal Hydronic Supply Ltd
North American Distributor

See it. Believe it.



radianthydronics.com
radiant.it



TECHNICAL DATA		R1K 24 /B R2K 24 R2KA 24 /8	R1K 34 /B R2K 34 R2KA 34 /20	R2K 55 AQUA²
MAXIMUM NOMINAL HEAT CAPACITY	BTU/hr	98952	116013	187667
MINIMUM NOMINAL HEAT CAPACITY	BTU/hr	13650	15013	18766
NOISE FACTOR	dB	52	52	52
EFFICIENCIES				
PERFORMANCE AT 100% PN – 140/176° F	%	97.7	97.6	97.9 (R2K ONLY)
PERFORMANCE AT 30% PN - RETURN 116.6 °F	%	-	-	-
U.E.F.		-	-	0.954 (AQUA ² ONLY)
COMBUSTION DATA				
NOX CLASS	class	V	V	V
ENERGY EFFICIENCY LABELING (92/42/ECC DIRECTIVE)	no. of star	4	4	4
SANITARY LOOP				
ADJUSTABLE DOMESTIC TEMPERATURE	°F	95-140	95-140	95-140
MAXIMUM PRESSURE FOR DOMESTIC CIRCUIT	PSI	87	87	87
MINIMUM PRESSURE FOR DOMESTIC CIRCUIT	PSI	7.25	7.25	7.25
D.H.W. PRODUCTION - ΔT 77°F (INSTANTANEOUS BOILERS)	GPM	2.38	2.99	5.1 (70°F)
D.H.W. PRODUCTION (10 MINUTES) - ΔT 77°F (STORAGE BOILERS)	GPM	29.6	32.1	-
MINIMUM FLOW RATE	GPM	0.52	0.52	0.52
DIMENSIONS				
WIDTH X DEPTH X HEIGHT	in	16.1X12X25.3	16.1X12.9X25.3	16.1X19.1X25.2
GROSS WEIGHT	lb	81.5	97	110
FLUE SYSTEM				
FLUE OUTLET FITTING	in	3	3	3
AIR INTAKE FITTING	in	3	3	3
MAX DISCHARGE LENGTH - HORIZONTAL Ø 3"	ft	131	100	85.3
MAX DISCHARGE LENGTH - VERTICAL Ø 3"	ft	131	100	85.3
MAX DISCHARGE LENGTH - HORIZONTAL COAXIAL Ø 3"/5"	ft	10 (Ø 2/3" - 4")	20	16.4
MAX DISCHARGE LENGTH - VERTICAL COAXIAL Ø 3"/5"	ft	10 (Ø 2/3" - 4")	20	16.4
ELECTRICAL FEEDING				
VOLTAGE-FREQUENCY	V/Hz	120-60	120-60	120-60
MAXIMUM ABSORBER POWER	W	78	78	78
RECIRCULATION PUMP ELECTRICAL POWER CONSUMPTION	W	40	40	40
ABSORBED POWER (BOILER OFF)	W	3.5	3.5	3.5

North American Distribution by:



THERMALhydron

SUPPLY LTD.
101 SHARER ROAD,
WOODBRIE, ONTARIO,
L4L 8Z3 CANADA
TEL: 905+265-1527
FAX: 905+265-9739
www.thermalhydronics.com

www.radianthydronics.com