

# Commercial Boiler House Products



**Boilers**  
**Pre-Packaged Solutions**  
**Primary Side**  
**Secondary Side**  
**Domestic Hot Water**  
**Modern Control Systems**

# Commercial Boiler House Products

**RVR Energy Technology Limited has solutions for commercial plant rooms, ranging from individual components to fully pre-designed, pre-assembled plant rooms.**

**Commercial boilers** are available in wall hung and floor standing ranges, from 35kW up to 900kW, with cascades of up to 7.2MW possible. *See page 3 for more information.*

**Pre-packaged plant** saves time and improves quality. Suitable for indoor or outdoor use, it can eliminate the need for a dedicated internal plant room. It greatly reduces installation cost by removing the need for complicated flue runs, pipe welding and by minimising wiring on-site. *See page 4 for more information.*

Pre-packaged plant comes with a range of **Options**. For connection to the system, isolation heat exchangers can greatly reduce the impact of hard water or dirt. Or, for direct connection we offer a range of hydraulic separators. System pressurisation is possible through a dedicated top-up unit, while we offer a range of sensors for pressure monitoring. We can provide a range of heat, gas and electricity meters with MID certification, with either pulse or MBus output. These may be used for billing purposes if desired. All these components can also be supplied individually if required. *See page 5 for more information.*

For the **Secondary side** of the system we have a range of pumps and pre-fabricated pump headers. For water heating, we can supply 316 grade stainless steel tanks up to 3000 litres, instantaneous plate heat exchangers and buffer tanks up to 5000 litres. For applications where more than one heat source is present, or legionella control is paramount, we offer combination tanks. We also offer booster pumps, electric immersions, and blending / three way valves. *See page 6 for more information.*

Rounding out our plant room offering is the modern **RVR Connect** control system. A modern, web enabled control system for commercial HVAC applications, this modular, distributed wireless system offers the flexibility to control both simple and complex HVAC systems and does not require a custom panel. In many cases, it can eliminate the need for a separate BMS. *See page 7 for more information.*

**If you have a commercial plant room project, please give us a call. We can provide a beginning-to-end solution, and offer expert design advice. Contact us today at [info@rvr.ie](mailto:info@rvr.ie) or by phone at 064 6689522**

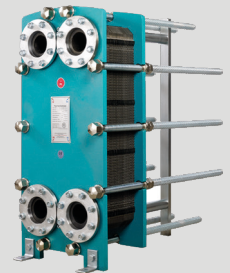


**Commercial Boilers**  
Page 3

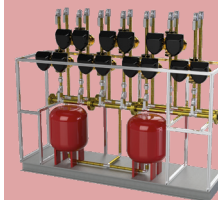
**Pre-packaged plant**  
Page 4



**Options**  
Page 5



**Secondary, DHW & Pressurisation**  
Page 6



**RVR Connect** Page 7



# Commercial Boilers

Wall hung 35-120kW or floor standing up to 900kW



## Victrix Pro - Wall Hung

The **Immergas Victrix PRO 2 ErP** range are high efficiency condensing gas boilers suitable for installation as standalone boilers or as part of a cascade. Models with capacities from 35kW to 120kW are available.

### Features:

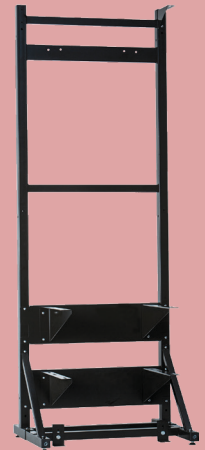
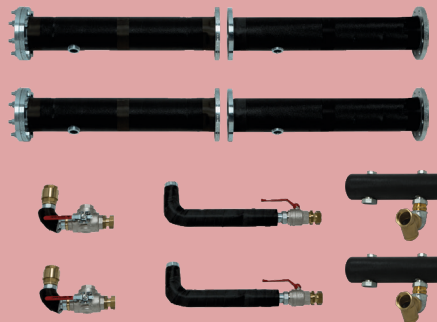
- Modulation range of 10 - 100% to exactly match heating needs
- Up to 5 boilers may be installed in a cascade installation
- Weather compensation & hot water priority
- Long life heat exchanger manufactured from 316L stainless steel
- Inbuilt frost protection
- IPX5D protection - approved for outdoor as well as indoor installation

## Pre-fabricated Manifolds & Freestanding Frames

A range of prefabricated manifolds is available to suit the Victrix Pro range.

The use of these manifolds saves time and improves the quality and appearance of the installation.

When combined with freestanding frames, they bring a fast and easy solution to installation in plant rooms, even if wall space is limited. Back to back arrangements increase flexibility further.



## Ares Tec - Floor Standing

**Immergas Ares Tec** floor standing boilers provide capacities up to 900kW. It is possible to cascade up to 8 boilers to achieve outputs of up to 7.2MW.

The Ares Tec is modular, containing up to 8 individual thermal elements, each with its' own dedicated control electronics, fan and gas valve. It can offer both the modulation performance and redundancy of a multi-boiler cascade package in a single unit. The boiler contains a redundant back-up controller for additional peace of mind.

Flueing on 660-900kW models is flexible, with connection possible from the back, or either side. The boiler has flanged Water and Gas connections.



# Pre-packaged Boiler Plant

Factory pre-assembled solutions save time and improve quality

Pre-packaged boiler plant by RVR is available in two ranges up to 1.8MW.

**Suitable for outdoor or indoor use**, it can eliminate the need for a dedicated plant room or boiler house. It greatly simplifies piping, flueing and electrical services on-site.

Delivered factory pre-assembled, it reduces costs and increases speed of installation. Quality is improved by ensuring correct design and installation. Welding is eliminated and there are no troublesome internal flue systems.

All sizes are available with a range of options directly from the factory. *See page 5 for more information.*



## RVRPAK

*Up to 600kW*

A modular solution which can accommodate up to 5 no Immegras Victrix Pro 120kW boilers in a weatherproof galvanised steel enclosure.

All piping and wiring is done in the factory, and pre-tested before delivery to site. Simply connect gas, water and condensate pipes. Make the electrical connections, and it is ready to use.

A compact, high quality solution ideal for outdoor use in narrow spaces.

## RVR Boiler House

*Up to 1.8MW*

A good solution for larger applications, our pre-packaged boiler houses are available in the following capacities:

- 660, 770 or 900kW - single boiler
- 1.3MW, 1.5MW or 1.8MW - dual boilers

Factory pre-piped, pre-wired and tested. Simply connect gas, water and condensate pipes. Make the electrical connections, and it is ready to use.





# Options / Primary

A range of options for packaged plant, which can also be supplied individually

## Heat Exchangers



Isolation heat exchangers can greatly reduce problems in the primary system caused by hard water or dirt.

They are available in any required size. Typical pressure drop is just 15 kPa.

## Hydraulic Separators

Our hydraulic separators / low velocity headers can be sized to suit every application.



## Pressurisation

A self contained top up unit can automatically boost pressure in either the primary or secondary circuit.

Our range contains an in-built reservoir and may be connected to a rainwater supply if required.



## Pressure Sensing

For mission critical applications it may be desired to monitor water and gas pressures to pre-empt problems.

We offer a range of sensors and fittings to suit.



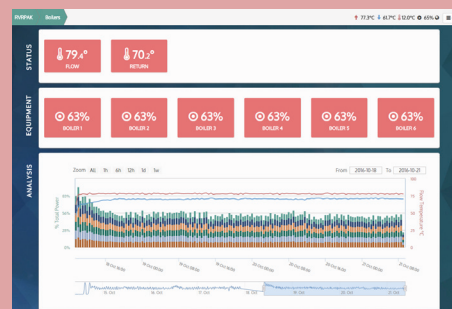
## Heat, Gas and Electricity Meters



We offer heat, gas and electricity meters in a range of sizes. All our meters are MID certified and may be used for billing purposes.

Meters are available with either Pulse or MBus connections. For other connection types, please contact us.

## RVR Connect



All packaged plant by RVR can include the modern **RVR Connect** control system. See page 7 for more information.

# Secondary, DHW & Pressurisation

A range of options for the secondary side and domestic water

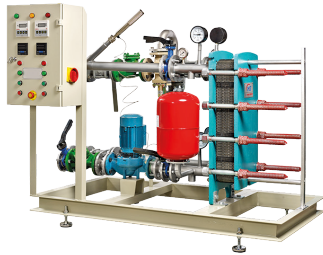
## Secondary Pumps

We offer a full range of secondary pumps, in single or twin configuration.



## Pre-fabricated pump / headers

We can design and supply custom pre-assembled pump groups, headers and manifolds for any boiler house.



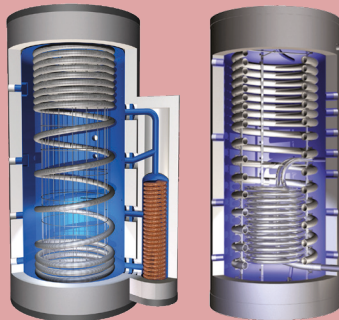
## Water Heating & Buffer Tanks

Water heating and storage can be provided using single or twin coil stainless steel calorifiers. All of our calorifier tanks are made from 316 grade stainless steel. Capacities of up to 3000 litres are available.

Instantaneous water heating may also be done via a 316 grade stainless steel plate heat exchanger.

We also offer a range of mild steel buffers up to 5000 litres.

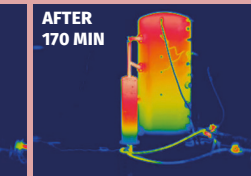
## Combination Tanks



The TiSun range of ProClean and FS combination tanks are a great way to integrate multiple heat sources.

The body of the tank stores the heating water and DHW is produced on demand through a high surface area coil. This offers excellent anti-legionella protection.

The ProClean tank has the option of a spherical solar charging unit, which stratifies delivery of heat from the solar system.



## Booster Pumps

A full range of booster pumps for commercial applications is available.



## Electric Immersions



We offer a range of immersions in outputs up to 18kW.

## Blending & 3-Way Valves

A range of blending valves up to 40kVs is available, along with a range of three way valves.

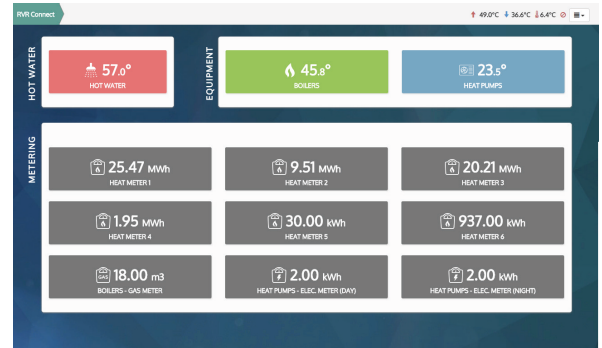


# RVR Connect

A modern, web enabled control system for commercial HVAC applications

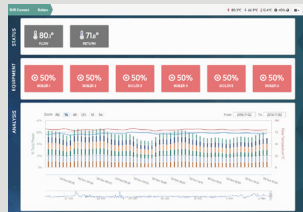
This modular, distributed wireless control system offers the flexibility to control both simple and complex HVAC systems and does not require a custom panel or extensive wiring. In many cases, it can remove the need for a separate BMS.

RVR Connect is available as an option with all packaged plant, or as a standalone control system.



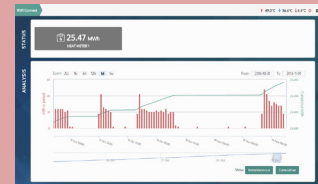
## Heat Production and Delivery

- Control of boiler / heat pump cascades
- Control of modulating pumps to achieve target differential
- Auxiliary outputs possible
- Control of DHW and CH Zones
- Full calendar based time and temperature control

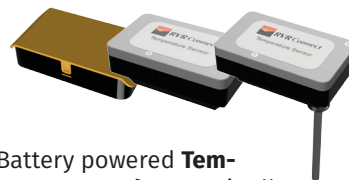


## Metering and Monitoring

- Heat, Gas, and Electricity Metering via pulse or Mbus
- Monitoring of fault alarms on all boilers / heat pumps
- Pressure monitoring - Primary, Secondary, Gas
- Monitoring of electrical supply
- Auxiliary alarm output possible



The **RVR Connect Hub** can be connected to the web using 3G, Ethernet or Wifi. It provides a built in Wifi access point to allow direct connection on site.



Battery powered **Temperature Nodes** to suit all applications. They are fast and easy to deploy.



RVR Connect **Control Modules** can control boilers, pumps and other equipment.

## Rapid and Easy Deployment



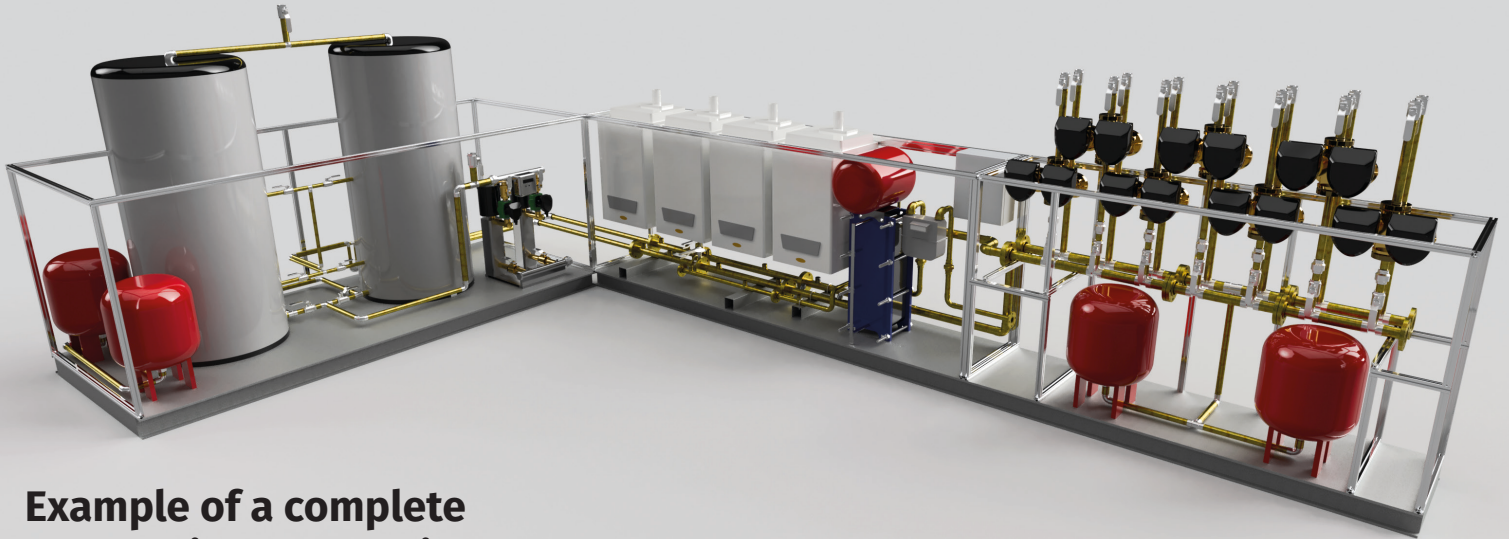
- Battery powered strap on pipe temperature sensors offer rapid deployment
- Pre-wired, easy to deploy control modules save time on-site
- Control modules may provide electrical isolation of boilers or other equipment
- Wireless system saves time reduces cabling

## Web / App enabled

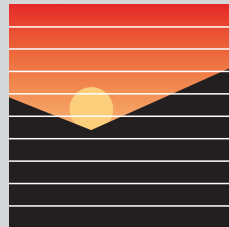


- Internet access possible via 3G, Ethernet or Wifi
- Access via Web, Mobile/Tablet apps, Desktop app
- Full historical data, graphs and logs on all aspects of system
- Cloud "watchdog" monitors system constantly for immediate or advance warning of any faults

# RVR Commercial Boiler House Products



**Example of a complete pre-fabricated solution**



***RVR.ie***  
*Energy Technology Experts*

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