



**EXCELLENCE
IN HOT WATER**

A BRAND OF GROUPE ATLANTIC

PRESTIGE SOLO

24 – 32 – 42 - 50
75 - 100 - 120

**HIGH CAPACITY
CONDENSING BOILER**



PRESTIGE

HIGH EFFICIENCY AND QUIET OPERATION

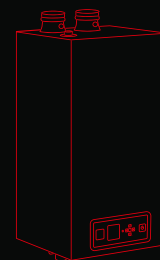
At the core of the Prestige is ACV's unique stainless-steel heat exchanger, developed and improved after intensive research and laboratory testing.

ACV applied expertise from the use of stainless steel for heating and hot-water production applications gained from over 90 years of manufacturing experience.

Combustion gases flow vertically into the heat exchanger flue ways: the flue gases condense in the lower section, drawing off all the energy created by combustion and giving the Prestige its exceptionally high level of efficiency.

UNRIVALLED CORROSION RESISTANCE

The use of stainless steel provides unparalleled resistance to corrosion and the additives used in heating systems. The stainless steel used in ACV products is highly resistant to the acidity of the condensates even if the natural gas or propane has Sulphur residues.



PRESTIGE

HOW DOES IT WORK?

LOW MAINTENANCE

The heat exchanger of the Prestige is self-cleaning: the condensate continuously flows across the surface of the flue-ways and automatically removes the residues from combustion. This way the boiler maintains its high efficiency and maintenance is reduced to an absolute minimum.

OPTIMUM WATER VOLUME FOR MORE STABLE OPERATION

The specially designed flue tubes optimizes the heat exchanger water volume, thus stabilizing the temperature in the boiler reducing the risk of overheating.

HIGH EFFICIENCY

Thanks to the stainless-steel design of the heat exchanger, which eliminates oxidation. The Prestige boiler keeps a high and stable efficiency level over its whole lifetime, and the low energy losses of the heat exchanger guarantee low energy consumption.



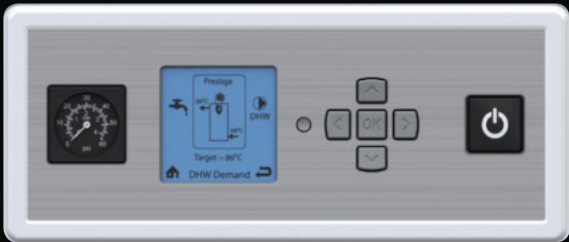
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STATE OF THE ART

ACVMAX® ELECTRONICS



COMMISSIONING AND
SERVICING HAS NEVER
BEEN EASIER!

The all new ACVMax® system control is designed to be flexible yet easy to use. The new control panel with integrated manometer and LCD display provides all necessary information with the simple push of a button.

It monitors and controls the boiler to operate as efficiently as possible. ACVMax® monitors the boiler supply, return and flue gas temperatures and operates the igniter, gas valve and fan. It uses this information to modulate the boiler's firing rate to maintain the required setpoint. ACVMax® offers many advanced control options, which may be adjusted for various applications to achieve optimum boiler efficiency and operation. The integrated manometer allows a simple check of the pressure without having to power-on the boiler.

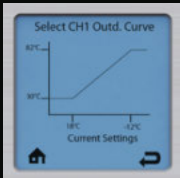


GRAPHICAL USER
INTERFACE



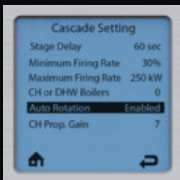
EASY INSTALLATION
SET UP MENU

COVERS 80%
OF STANDARD
INSTALLATIONS



ASY READ-OUT
OF SYSTEM
PARAMETERS

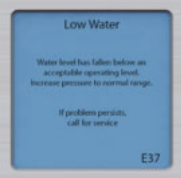
SHOWN: SET
OUTDOOR CURVE



EXTENDED SET
UP MENUS FOR
CASCADES, EXPERT
INSTALLATION

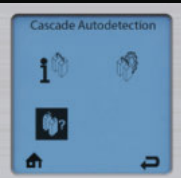


EASY MENU
STRUCTURE



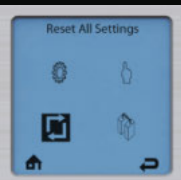
EASY DIAGNOSTICS

FULL-TEXT ERROR
MESSAGES AND
PROBLEM SOLVING
INFORMATION



CONTROLLING OF
CASCADES

UP TO 4 UNITS
WITHOUT
ADDITIONAL
CONTROLLER



RESET TO
FACTORY
SETTINGS

A WEALTH OF FEATURES



NEW INCLINED VIEWING
GLASS POSITIONING

The viewing glass allows easy visual inspection:

- Positioned at the front of the heat exchanger
- Inclined



MECHANICAL
MANOMETER (NO NEED
TO POWER UNIT ON)

Integrated mechanical manometer allows controlling the pressure without having to power on the boiler

CONNECTIONS LOCATED
IDENTICALLY TO
PREVIOUS MODELS

The connections on the underside of the Prestige give easy access during installation with the added benefit of being in the same position as the previous model. There is no need to adapt pipework or wiring.



Model shown: Prestige 75 Solo

NEW BURNER HOOD
WITH FAN ORIENTED
SIDEWAYS

The positioning of the burner hood reduces servicing time

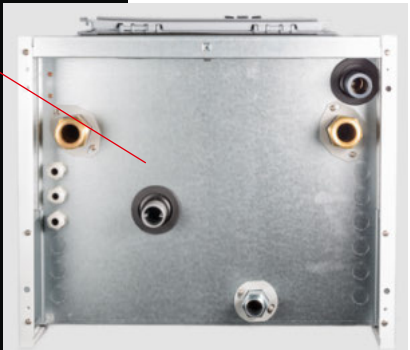
- No need to remove the top cover

EASY FAN MOUNTING/
REMOVAL WITH NEW
CLAMP SYSTEM

The fan can simply be removed without having to remove other parts first

ALL PARTS
SERVICEABLE FROM
FRONT OF UNIT

By giving access to all parts by simply removing the front cover of the boiler, servicing time is reduced.



BOTTOM





EXCELLENCE
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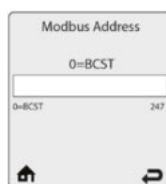
A BRAND OF GROUPE ATLANTIC

SUPPORT OF MULTIPLE PROTOCOLS

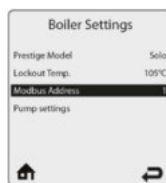
The new Prestige is the most open appliance ever developed by ACV. With native support for open protocols such as OpenTherm® 3.2 and Modbus®, Prestige appliances can easily be integrated in BMS (Building Management System) systems.

The new Prestige also provides control connectivity for 0-10 V modulation control and two room thermostats. The thermostats can be used in several configurations: On/Off switch with fixed temperature or set by outdoor sensor, constant temperature running on heating set point or set by outdoor sensor.

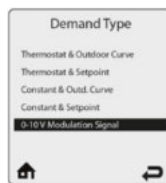
Further connections allow for triggering alarm systems, connecting different NTC sensors and cascade temperature sensor, drive pumps, solenoids and 3-way valves. All connections and functions are easily programmed and activated using the ACVMax® graphical user interface.



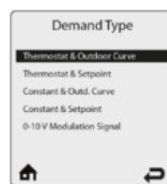
MODBUS® CONFIGURATION



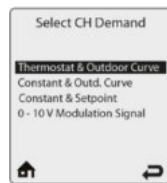
MODBUS® CONFIGURATION



0-10 V MODULATION



THERMOSTAT CONFIGURATION



THERMOSTAT CONFIGURATION



EXTERNAL RELAYS CONFIGURATION

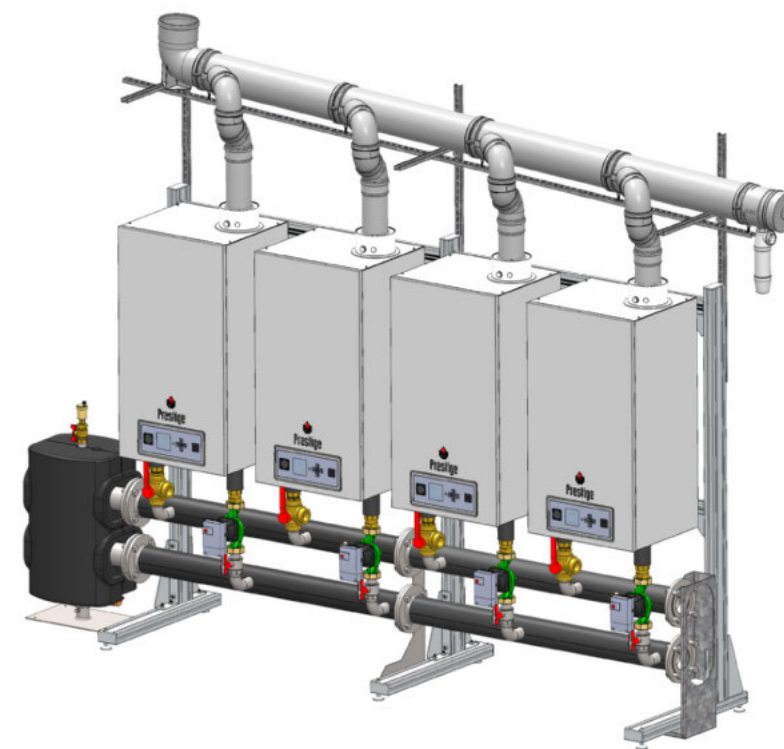
OPEN TO THE OUTSIDE WORLD



Prestige boilers can be installed in a cascade from 2 to 8 boilers with a maximum output of 920kW. Multiple boilers linked together offer a highly flexible output from 20% of one unit to 100% of the combined power of all the boilers. This greatly improves the system efficiency and keeps emissions to a minimum. A modular cascade system combined with the ACV developed hydraulic kit makes installation straight forward. It also provides the Prestige boilers with the ability to control a system with high variability in demand where the average normal load is a fraction of the peak load. With the simple to adjust interface, the Prestige units are installer and user friendly and give complete control of the system parameters.

This modular system, straightforward to install with the hydraulic kit developed and proposed by ACV, is particularly adapted to systems where there is a high variability in demand, and average normal load is only a fraction of the peak load.

OPERATION IN CASCADE



- Integrated non-return flue valve for cascades
- Up to four units in cascade without additional controller
- Broad modulation range
- High availability with redundancy
- Boilers in a cascade can be configured to serve either CH or DHW circuits

PRESTIGE BOILERS AND HOT WATER CYLINDERS

Prestige boilers can be combined with your choice of ACV hot water Tank-in-Tank cylinders with sizes up to 1000 litres.



FOUR GOOD REASONS FOR
CASCADE INSTALLATION

EFFICIENCY

A cascade system allows modulation of the heating power, from the minimum output of one boiler up to the maximum output of all the boilers. Which, in the case of a four-boiler cascade, gives a modulation ratio of 27:1, and of course all the permutations between.

BACK-UP

The ACV cascade controllers optimize the potential of the available boilers, if one of the boilers is off, the controller simply adjusts the power of the remaining boilers to compensate.

EASY COMMISSIONING

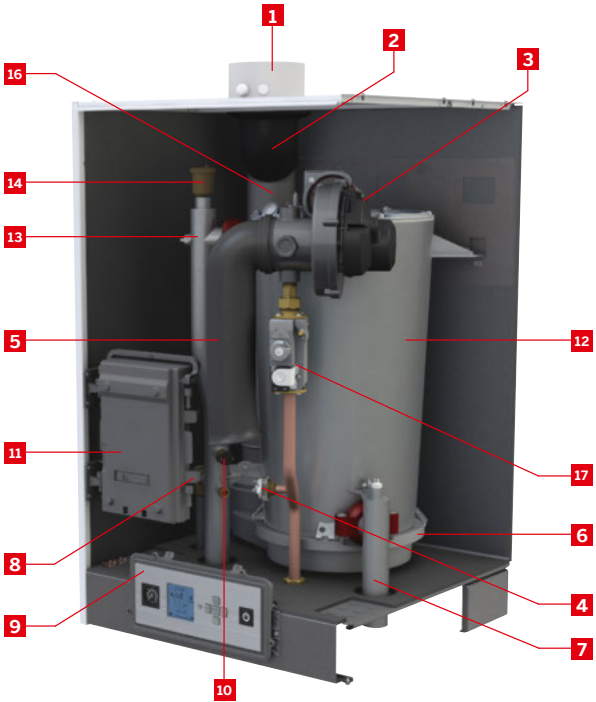
One, two, three or four boilers, the commissioning procedure is the same, simple and easy when undertaken by a qualified engineer.

EASY MAINTENANCE

Any one boiler in a cascade can be serviced and maintained easily whilst the other boilers are operational. This enables the servicing to be carried out at any time of the year and not just during the traditional summer shut down.

WHEN TO INSTALL
A PRESTIGE?

- In large residential properties where heating and abundant hot water are required.
- In offices and public buildings where a flexible and reliable heating solution is demanded.
- In all applications where there is significant variability and high peak demand in hot water requirements.



1. Concentric chimney connection ø 100/150mm with measuring element
2. Chimney tube
3. Modulating Air/gas premix burner
4. Gas pressure switch
5. Air inlet
6. Condensate recovery dish
7. Heating return
8. Safety valve
9. Control panel with display and pressure gauge
10. Pressure sensor
11. Electrical panel
12. Stainless steel heat exchanger
13. Heating flow
14. Auto air vent
15. Flame sight glass
16. Insulated casing
17. Gas valve

Model shown: Prestige 100 Solo

TECHNICAL CHARACTERISTICS AND DIMENSIONS

Type		Prestige 24 Solo	Prestige 32 Solo	Prestige 42 Solo	Prestige 50 Solo	Prestige 75 Solo	Prestige 100 Solo	Prestige 120 Solo
Reference		05647901	05648001	05650201	05629801	05629901	05648401	05630001
Fuel		Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas	Natural gas
Input max (heating) LCV	kW	24	32	42	50	69,9	99	117
Input max (heating) HCV	kW	26,64	35,52	46,62	55,5	77,59	109,89	129,87
Output power max (80/60°C)	kW	23,3	31,0	40,7	48,5	67,8	97,5	111,8
Output power min (80/60°C)	kW	4,3	4,7	-	-	-	-	-
Efficiency at 30% load (EN677)	%	109	109	108,5	109	108,4	108,1	107
Capacity (total)	L	8	8	-	-	-	-	-
Connection - heating	Ø"	1 M	1 M	5/4 M	5/4 M	5/4 M	6/4 M	6/4 M
Connection gas	Ø"	3/4 M	3/4 M	3/4 M	3/4 M	3/4 M	1 M	1 M
Water pressure drop boiler at Δt = 20°C	mbar	141	141	23	30	74	42	80
Gas flow rate (max output)	m³/h	2,54	3,3	4,4	5,2	7,3	10,5	12,4
Gas flow rate G25 (max output)	m³/h	2,95	3,94	4	6	8,5	12,3	14,1
Gas flow rate G31 (max output)	m³/h	0,98	1,31	3,3	3,9	5,4	7,7	8,9
CO emissions max output	ppm	50	88	-	-	-	-	-
Chimney connection	Ømm	60/100	60/100	100/150	100/150	100/150	100/150	100/150
Chimney: max length of concentric flue pipe	m	40	16	25	25	25	20	20
Max operating temperature	°C	87	87	87	87	87	87	87
Max service pressure heating (primary)	bar	3	3	4	4	4	4	4
Voltage	V	230	230	230	230	230	230	230
Protection IP		X4D	X4D	X4D	X4D	X4D	X4D	X4D
Electrical consumption	W	82	90	82	77	126	142	178
Weight (empty)	kg	54	54	50	54	59	89	93
Space heating energy efficiency class		A	A	A	A	A	-	-

CONNECTION TO THE CHIMNEY

B23-B23P-C13(x)-C33(x)-C43(x)-C53(x)-C83(x)-C93

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