

CONDEXA PRO
HIGH MODULARITY IN THE BOILER ROOM



RIELLO AND THE THERMAL POWER PLANT

Almost a century of history links Riello to the world of the thermal power plant. The boiler room has evolved over time, moving towards ever greener types of fuel, more efficient and intelligent generators, cleaner emissions. Renewing the heating plant means making the most of the energy used and creating a technological, performing and clean environment. Being a technological and proactive force is one of the characteristics of the leader. Then Riello designed CONDEXA PRO, the power condensing wall hung solution, to go beyond... once again.

CONDEXA PRO IS RENEWED

CONDEXA PRO has for years been a distinctive element for Riello and a guarantee in the thermal power plant. Our engineers, however, have studied and designed all the components that make up a product that is strongly consolidated on the market: the heat exchanger operates with surface temperatures reduced by 18% to reduce the thermal stress and increase the duration; the polluting emissions are below the most restrictive limits (Class 6 NOx according to UNI EN 15502-1); the control of the system is fast and reliable; a long list of accessories is available to support the designer in customizing the system.

KNOWING CONDEXA PRO

CONDEXA PRO is the range of gas condensing power wall hung units that can be installed individually or in cascade, specifically designed to offer wide installation modularity with minimum space, reducing the need of space in new thermal power plants and simplifying the requalification of existing ones. The range goes from 57 to 131 kW of power in various configurations. Up to 70 kW the high head pump is on board while the higher power units can be equipped with a either a standard head or high head pump, both offered as an accessory. The boiler and system controls allow the distribution of heat and the management of different types of distribution over several modules. In modular applications it is possible to convey both exhaust and intake and the single versions can also be installed outdoors in partially protected areas. The hydraulic manifolds of the modular versions are positioned below the generators reducing the overall dimensions and unloading the weight on the ground. Compactness, versatility and electronic management are combined with the patented stainless steel heat exchanger with double principle and with the premixed burner with a wide modulation range.

EXCELLENCE AND FLEXIBILITY

The strength of CONDEXA PRO is the extreme flexibility of the system: thanks to the wide range of accessories, the basic unit transforms from a single boiler to a cascade module, from an internal generator to an outdoor solution, from an open chamber to a sealed chamber, and so on, to give life to many different possible installations that allow the specifier and the Installer to solve any situation and installation complexity.

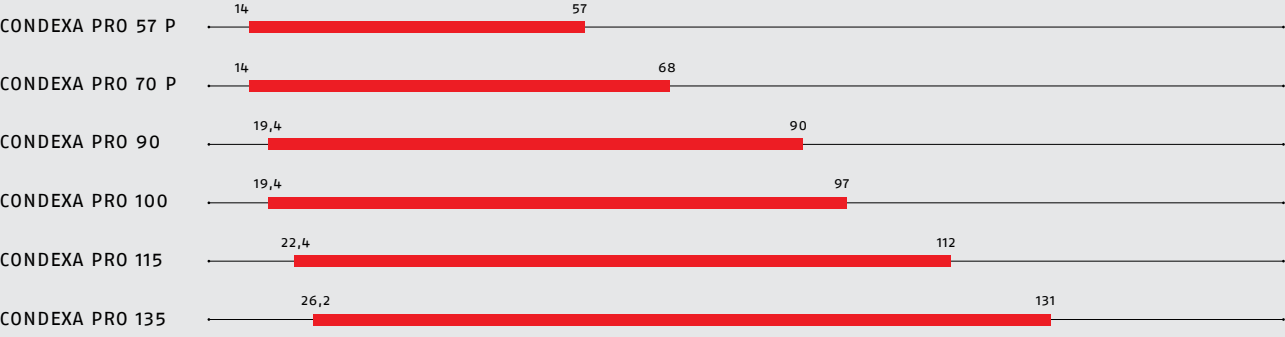
RIELLO

TECHNICAL DATA

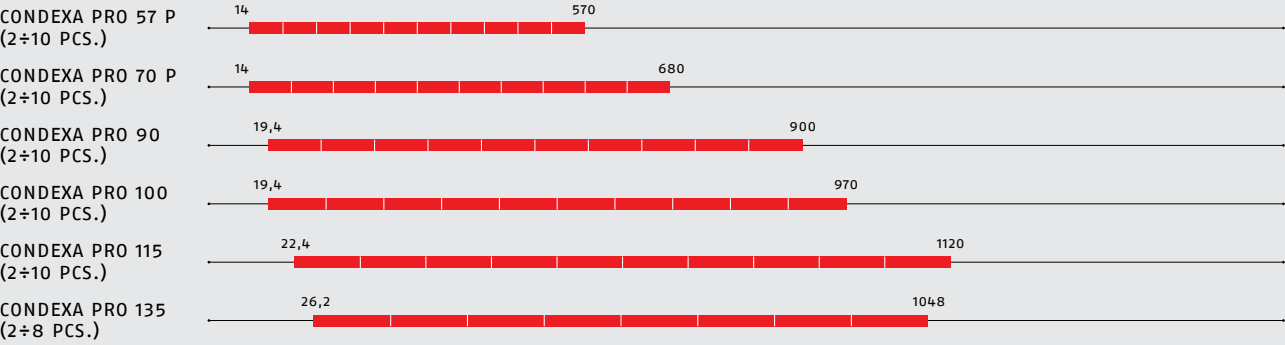
Description	UoM	Energy efficiency class	POWER kW			EFFICIENCY %			Dimensions H x L x D mm
			usefull OUTPUT 80-60°C max	usefull OUTPUT 50-30°C max	furnace INPUT min-max	usefull Pn 80-60°C max	usefull Pn 50-30°C max	usefull 30% Pn 50-30°C	
CONDEXA PRO 57 P	D → A +++ (*)	A	55,7	61,6	14,0-57,0	98,3	108,6	109,2	1000x600x435
CONDEXA PRO 70 P	D → A +++ (*)	A	67,1	73,9	14,0-68,0	98,1	108,1	109,0	1000x600x435
CONDEXA PRO 90		-	88,3	97,4	19,4-90,0	98,2	108,3	109,1	1000x600x435
CONDEXA PRO 100		-	95,3	105,1	19,4-97,0	98,1	108,2	109,0	1000x600x435
CONDEXA PRO 115		-	109,9	121,2	22,4-112,0	98,5	108,6	109,0	1170x600x435
CONDEXA PRO 135		-	129,2	142,3	26,2-131,0	98,3	108,3	109,1	1170x600x435

(*) The energy efficiency class range of this product category is between D and A+++

STAND ALONE APPLICATION



CASCADE APPLICATION



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CONDEXA PRO



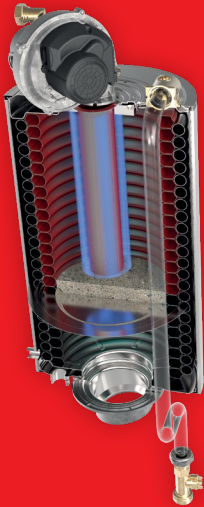
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INGREDIENTS OF SUCCESS

THE BEATING HEART

The CONDEXA PRO heat exchanger is the technological core of the system and it has been designed in absolute symbiosis with the premixed gas burner. The best transformation of the chemical energy of the fuel into useful thermal energy transferred to the water depends on the synergy between combustion and heat exchange. The exchanger is made of precious steel stainless steel to provide inalterability and reliability over time. The shape, the path water and the passage sections have been optimized to limit losses loading and ensuring the best heat transfer. The result is a more homogeneous wall temperature synonymous with longer life and better yield. The premixed burner is designed to contain polluting emissions below the most restrictive European limits, allowing at CONDEXA PRO to be in Class 6 NOx according to UNI EN 15502-1, the best expected.



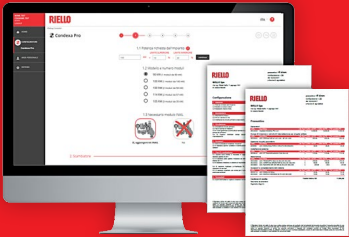
THE BRAIN OF THE SYSTEM

CONDEXA PRO electronic regulation has complex tasks. It must monitor and quickly process a lot of information, coming from the generators and the plant, to offer the best comfort to the user with the least energy consumption and maximum operational safety. The CONDEXA PRO control has been designed with great attention to the refinement of the calculation programs, the efficiency of the detection and the processing speed. The operating logic of the boiler in managing or depending mode, in case of applications in cascade, they are integrated in the card, providing the unit maximum flexibility of use. The interface display is backlit, intuitive and multilingual, to simplify the dialogue between the machine and the operators.



SIMPLIFY COMPLEXITY

Riello supplies with CONDEXA PRO an articulated range and tools for taming it. The choice of the solution that best interprets the characteristics of the project can be a burdensome activity with a certain degree of complexity, which Riello simplifies by providing a dynamic configuration system. Starting from the basic information on the total thermal power required, the Configurator gradually requests further specifications and proposes progressively possible solutions. The tool thus guides the designer towards the best technical choice, which can be translated directly into an estimate and accompanied by product documentation. Once again Riello transforms complexity in a continuous challenge and therefore in an opportunity.



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EXCELLENCE AND FLEXIBILITY IN THERMAL POWER PLANT



STAND ALONE

THE STRUCTURE CAN SUPPORT THE MODULE ALSO IN CASE OF SINGLE INSTALLATION, WHEN IT IS NOT POSSIBLE THE WALL FASTENING OR WHEN YOU OPT FOR THE SOLUTION WITH PLATE EXCHANGER, ENCLOSED IN THE INSULATED LOWER COVER.



CONCENTRATED POWER

BACK TO BACK CONFIGURATION OPTIMIZES THE USE OF SPACE IN THE BOILER ROOM AND ENABLE TO GET HIGH POWER SOLUTIONS WITH REDUCED IMPACT TO THE GROUND. IN CASCADE INSTALLATIONS THE INTERFACE BETWEEN PRIMARY CIRCUIT AND SECONDARY CIRCUIT CAN BE MADE WITH HYDRAULIC SEPARATOR AND WITH EXCHANGER AND PLATES.



KILOWATT ALWAYS AVAILABLE

THE CONDEXA PRO MODULE IS DESIGNED TO WORK IN CASCADE TO MAKE THERMAL POWER PLANTS. THE INTEGRATED LOGICAL MANAGING-DEPENDENT OFFERS THE INTERCHANGEABILITY MODULES AND SERVICE CONTINUITY OF THE SYSTEM. THE LOWER COVER, IN LINE WITH THE BOILER AESTHETICS, PROTECTS AND INSULATES THE COLLECTORS AND ENABLES A CLEAN AND PROFESSIONAL INSTALLATION.



CONDEXA PRO ONE PRODUCT, THOUSAND SOLUTIONS



CONDEXA PRO IS ALWAYS THE RIGHT SOLUTION

CONDEXA PRO is the elementary module that can be wall mounted individually and in many different combinations. The already complete standard equipment allows quick replacements and immediate plant upgrades. It is equipped with a double principle exchanger and an on-board pump up to 70 kW.

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LESS LOSSES

IN ANY CONDEXA PRO MODULE THE KIT, THAT ALLOWS TO EXTRACT AIR FROM THE OUTSIDE OF THE HEATING SYSTEM, CAN BE INSTALLED. THE DUCTED SUCTION MAKES TYPE C SOLUTIONS WHERE REQUIRED BUT, ESPECIALLY, AVOIDS THE COOLING OF THE ROOM AND REDUCES THE LOSSES.



WEATHER NO PROBLEM

THE RULES THAT CONTROL THE REALIZATION OF THE GAS THERMAL HEATING PLANTS DO OFTEN FORCE TO EXPENSIVE MAINTENANCE, SOMETIMES NOT CONVENIENT. THE SOLUTION IS TO INSTALL THE UNIT OUTSIDE AND, IN PARTIALLY PROTECTED PLACES. THE CONDEXA PRO KIT FOR SINGLE BOILER RAISE THE PROTECTION LEVEL AT IPX5D.



SAFETY ON DEMAND

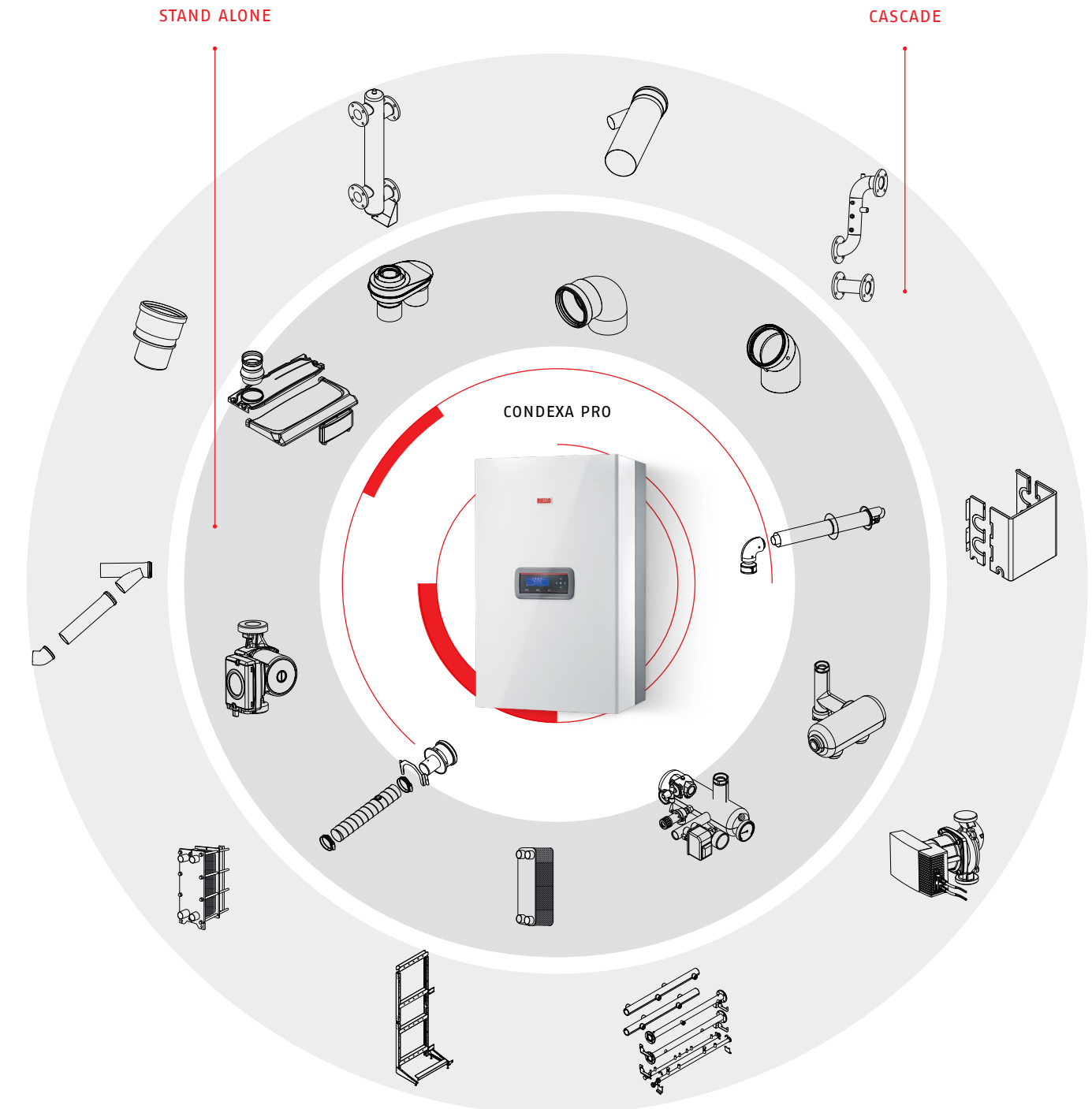
THE KIT INSTALLED UNDER CONDEXA PRO IS A MASTERPIECE OF COMPACTNESS AND IS EQUIPPED WITH THE INSTRUMENTS AND SAFETIES. IT CAN ALSO BE COMBINED WITH IN HORIZONTAL CIRCUIT BREAKER IN ORDER TO ELIMINATE THE DISTURBANCES INDUCED BY RESIDUAL HEAD OF BOILER AND PLANT. THE AD HOC COVER ALLOWS TO GIVE CONTINUITY TO THE AESTHETICS OF THE BOILER.

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ACCESSORIES



CONDEXA PRO is not just a boiler but **a world of solutions** that can be built from the basic configuration. The accessories are specially designed to maximize the flexibility of the system and to obtain the ideal solution for every installation requirement. The simplest configuration can become more and more complex, like many pieces of a puzzle that the installer can compose.



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