Ferroli

COMMERCIAL | INDUSTRIAL

Commercial Product Range

COMMERCIAL PRODUCT CATALOGUE FERROLI

IMPORTANT

For installation of room sealed and forced flue boilers and water heaters, use Ferroli original flue gas kits and accessories. Whenever original flue gas accessories are not used, Ferroli will not be held liable in case of anomalies that could jeopardise the function and safety of the system.

This document includes international standard products and codes. Some products and accessories may differ or not be available in particular geographical areas. For product and code confirmation, commercial conditions, delivery time and eventual minimum lots etc, please refer to Ferroli's commercial representatives. Application of accessories to be checked on respective installation manuals.

CERTIFIED QUALITY SYSTEM

KEY OF SYMBOLS

Remote control of boiler parameters via remote control

Electronics features built-in **master-slave cascade** operation, without additional controllers

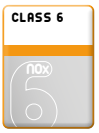
Appliance certified as **"range rated"** according to EN 15502

The equipment is only suitable for operation in **indoor locations**

Possible connection to an optional outdoor probe, thus enabling **system flow temperature compensation**

Products for replacement with identical model only (restiction valid only in the UK)

Suitable for operation **outdoors** with a minimum temperature of **-T1°C for the standard version** and, if fitted with the antifrost kit, even **-T2°C**



Minimum polluting emissions **(class 6 according to EN 15502-1)** already in compliance with the requirements of the ErP directive of 26.09.2018 (NOx emissions < 56mg/kWh)

WALL HUNG BOILERS

FORCE W MODULAR POWER FOR NEW BUILDINGS AND HIGH-POWER UPGRADES

> THE RANGE:

The range consists of 5 boilers.

MOD. W 60
- Heat input 58.0 kW
- Effective heating output (50°C-30°C) 60.8 kW
- Class ErP A

MOD. W 80
- Heat input 74.4 kW
- Effective heating output (50°C-30°C) 77.0 kW
- Max P efficiency (50°C-30°C) 103.5

MOD. W 120
- Heat input 113.0 kW
- Effective heating output (50°C-30°C) 117 kW
- Max P efficiency (50°C-30°C) 103.5

MOD. W 99
- Heat input 96.6 kW
- Effective heating output (50°C-30°C) 100 kW
- Max P efficiency (50°C-30°C) 103.5

MOD. W 150
- Heat input 143 kW
- Effective heating output (50°C-30°C) 148 kW
- Max P efficiency (50°C-30°C) 103.5

> KEY FEATURES:

Device suitable for operation in a **partially protected place** with a minimum temperature of -5°C, as standard

Appliance certified as **"range rated"** according to UNI EN 483

Cascade operation

Device operates with **climatic control** and sliding system temperature (optional external temperature probe)

Minimum polluting emissions **(class 6 according to EN 15502-1)** as required by Directive ErP of 26.09.2018 (NOx emissions < 56mg/kWh)

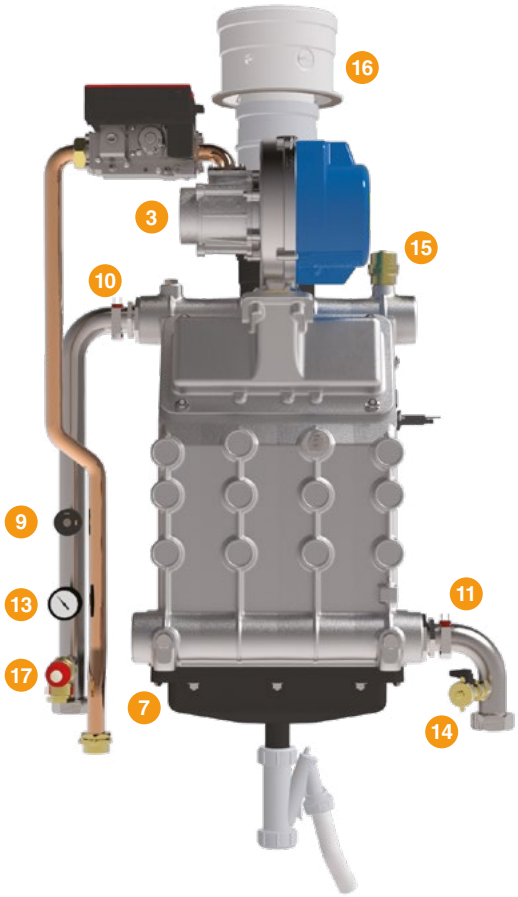
> PRODUCT BENEFITS:

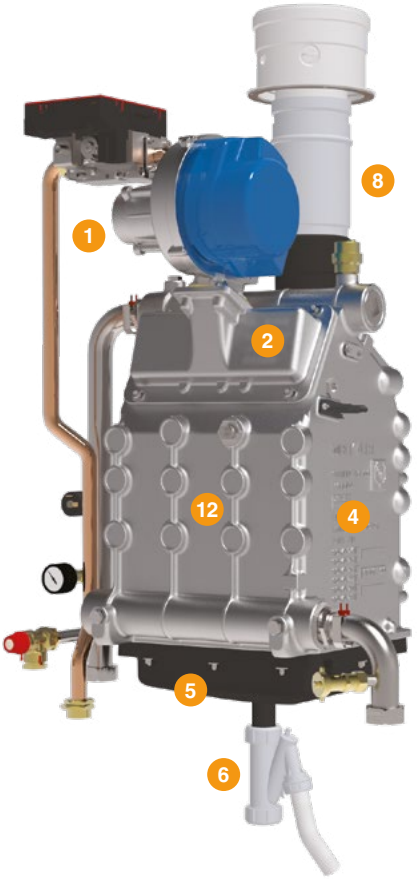
- **High power condensing thermal module**, designed for single installations or in banks **up to 600 kW**
- **Combi W60 boiler,** operating with both natural gas and LPG, is ideal for larger residential houses
- Hydraulic, gas and flue gas accessories **for bank installation**, with 2, 3 and 4 modules
- Heat exchanger with pre-assembled elements in **aluminum-silicon alloy** designed to achieve maximum exchange efficiency and low pressure drops on the water circuit
- Full pre-mixing **combustion unit** with metal fibre micro-flame burner with very low polluting emissions (**Class 6** according to EN 15502-1). The modules can run on **Natural Gas (NG)** and **LPG**
- **Boiler protection systems:**
  * Double sensor (delivery and return) system to operate at **constant ΔT**
  * Exchanger overtemperature protection sensor calibrated to 95°C
  * Flue gas safety sensor
  * Water pressure switch with minimum limit of 0.8 bar
- Hydraulic unit (provided as an accessory) with three-way shut-off valve for discharge into the atmosphere and option of choosing between two **circulators, standard and high head**
- Sealed room air/flue gas circuit and **check valve** on the flue gas ejection duct to size the pressurised manifold
- Module bank management with **self-configurating Master/Slave** system and option of setting the boiler on/off sequence
- **Range Rated** certified boiler to adjust the generated power to the system's needs by increasing the efficiency of the system and preserving the mechanics of the machine.
- The modules can be controlled and operated remotely:
  * Power or temperature adjustment with 0 - 10V signal
  * Blocking alarm signal for safety and to restart operation
  * **Opentherm (OT) and Modbus** communication protocols with settable parameters

MODEL			W 60	W 80	W 99	W 120	W 150
ERP Class	(Class D - A+++)		A	-	-	-	-
Heating heat input	Max/Min	kW	58.0 / 15.0	74.4 / 15.0	96.6 / 19.0	113.0 / 19.0	143.0 / 24.0
Heating heat output 80°C-60°C	Max/Min	kW	57 / 14.7	72.9 / 14.7	94.7 / 18.7	110.5 / 18.7	140.0 / 23.6
Useful heating output 50°C-30°C	Max/Min	kW	60.8 / 16.3	77.0 / 16.3	100.0 / 20.5	117.0 / 20.5	148.0 / 25.9
Efficiency	80°C-60°C 50°C-30°C 30% partial load	Pmax %/Pmin % Pmax %/Pmin % Pmax %	98.3 / 98.3 104.8 / 108.5 108.6	98.0 / 98.3 103.5 / 108.5 108.6	98.0 / 98.3 103.5 / 108.0 108.1	97.8 / 98.3 103.5 / 108.0 108.1	97.8 / 98.3 103.5 / 108.0 108.1
NOx emissions class			6	6	6	6	6
NOx (O_2=0%) weighted		mg/kWh	50	54	39	38	40
CO (O_2=0%) weighted		mg/kWh	75	85	49	50	50
Heating operating pressure	Max/Min	bar	6 / 0.8	6 / 0.8	6 / 0.8	6 / 0.8	6 / 0.8
Water volume		lt	4.2	4.2	5.6	5.6	6.7
Empty weight		kg	67	67	76	76	86
No. of pieces/pallet		**Nr.**	**6**	**6**	**6**	**6**	**6**
Thermal module FORCE W			**0MDSAAWA**	**0MDSCAWA**	**0MDSDAWA**	**0MDSEAWA**	**0MDSFAWA**
System hydraulic kit			042072X0	042072X0	042072X0	042072X0	042072X0
High performance modulating pump (8 mt)			042070X0	042070X0	042070X0	042070X0	042070X0
High performance modulating pump (10 mt)			042071X0	042071X0	042071X0	042071X0	042071X0

* FORCE W is provided without a circulator and hydraulic kit with the shut-off valves.

FORCE W COMPONENTS DESCRIPTION





1. Pre-mixing unit
2. Burner
3. Silencer
4. Aluminium heat exchanger
5. Condensate collection manifold
6. Condensate discharge
7. Flue gas safety sensor 110°C
8. Swing check valve
9. Water pressure switch min 0.8 bar
10. System delivery temperature sensor
11. System return temperature sensor
12. Heat exchanger over-temperature safety sensor
13. Pressure gauge
14. Boiler drain cock
15. Air bleed valve
16. Combustion analysis outlet
17. Safety valve 6 bar

For correct installation, the boiler must always be purchased complete with the following kits: **Modulating circulator** and **System hydraulic kit**

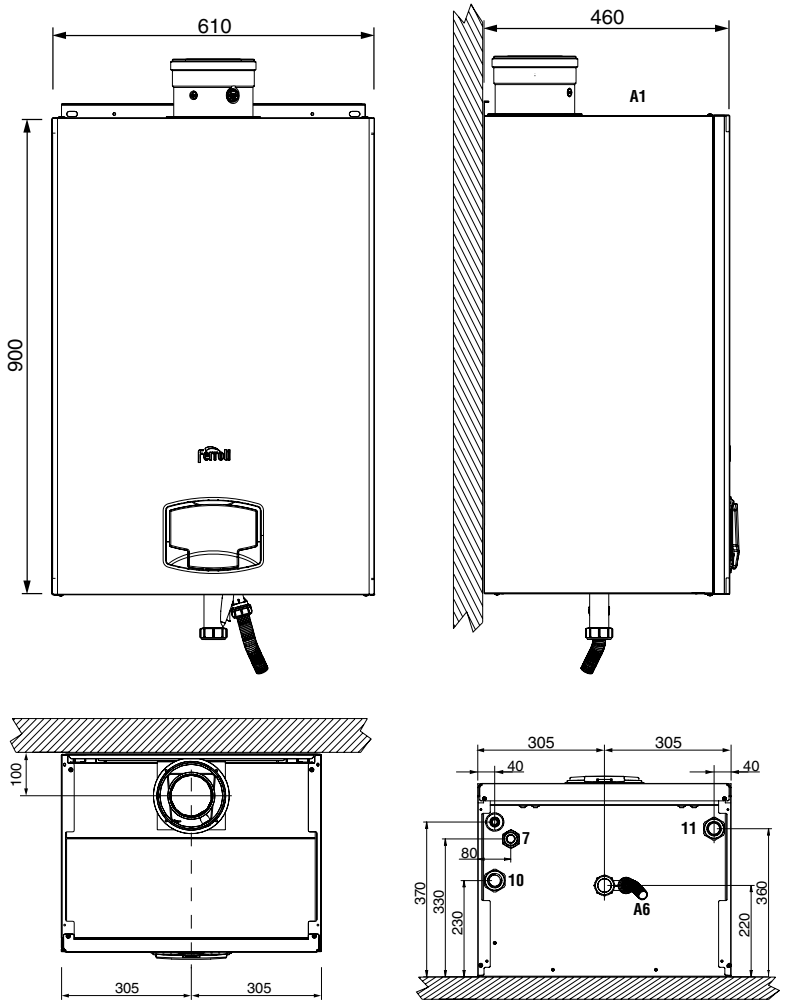
> HYDRAULIC AND CONTROL ACCESSORIES - STARTING FLUE ACCESSORIES:

	DESCRIPTION		CODICE
	low-consumption modulating circulator Head 7 m		042070X0
	low-consumption modulating circulator Head 10 m		042071X0
	**system hydraulic kit:** 1 x MF 1"1/2 cock, 1 x 3-way T 1" 1/2 cock, 1 x 1" 1/2 check valve, 1 x MM		042072X0
	kit for management with thermostat (not supplied) of a dhw storage tank (for heating only boilers)		013017X0
	additional sensor for storage tank and/or system flow for cascade	cable 2 mt	1KWMA11W
		cable 5 mt	043005X0
	outdoor probe		013018X0
	ø 100 flue gas terminal		1KWMA29K

	DESCRIPTION	CODE
	90° coaxial bend, 360° swivel with 45° pitch ø 100/150 mm	041107X0
	1 mt concentric extension Ø 100/150 mm	041108X0
	0,5 mt concentric extension Ø 100/150 mm	041109X0
	1 mt concentric horizontal terminal pipe, Ø 100/150 mm Included wall gasket Ø 150 mm	041110X0
	1 mt concentric vertical terminal pipe, Ø 100/150 mm	041111X0
	wall gasket Ø 150 mm	041112X0
	90° bend kit in pps ø 100 mm	041077X0
	1 m PPS ø 100 mm MF flue gas duct kit	041073X0

FORCE W

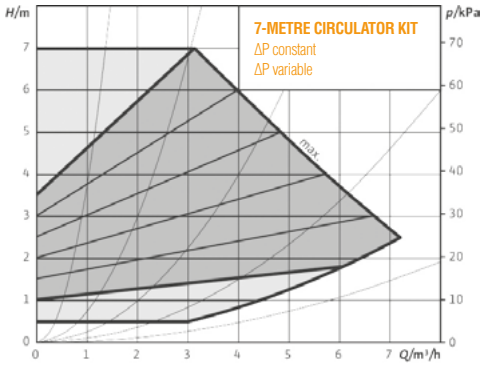
DIMENSIONS AND CONNECTIONS
CHARACTERISTIC CIRCULATOR HEAD/FLOW RATE CURVES

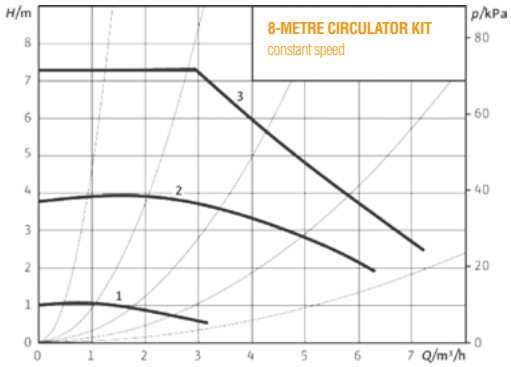


> KEY

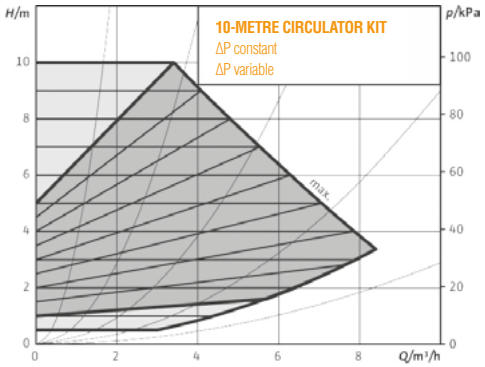
7 Ø 3/4" gas inlet
10 Ø 1" ½ System delivery
11 Ø 1" ½ System return
A6 Condensate discharge
A1 Flue gas outlet Ø 100/150 mm

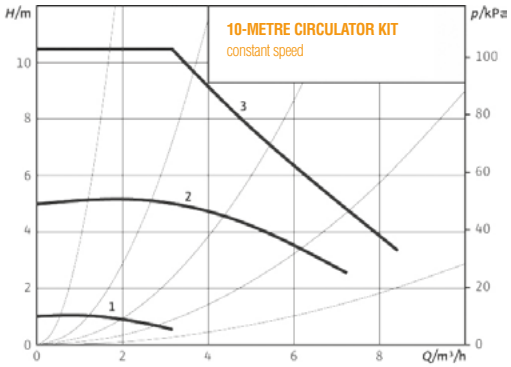
CIRCULATOR KIT 7 m





CIRCULATOR KIT 10 m





FORCE W CASCADE INSTALLATION

> ACCESSORIES:
NECESSARY TO CORRECTLY INSTALL FORCE W BOILERS IN A BANK

P_{out} (50/30°C)	MODULES FORCE W					Tot. modules	6	7	1		2	3	4	8	9
	60	80	99	120	150		Self-standing frame (start) *	Self-standing frame (extension)	8-m modulating circulator	10-m modulating circulator	hydraulic kit: 1 x MF 1"1/2 cock, 1 x 3-way T 1" 1/2 cock, 1 x 1" 1/2 check valve, 1 x MM	hydraulic (DN65 delivery and return), gas (DN40) manifolds kit for bank installation	Blind flange kit DN65	Flue gas manifold starter kit (Ø 200 mm) *	Flue gas manifold extension kit (Ø 200 mm) *
							042076X0	042077X0	042070X0	042071X0	042072X0	042074X0	042073X0	041091X0	041092X0
62	1					1	1	-	1	1	1	1	1	-	-
77		1				1	1	-	1	1	1	1	1	-	-
98			1			1	1	-	1	1	1	1	1	-	-
117				1		1	1	-	1	1	1	1	1	-	-
148					1	1	1	-	1	1	1	1	1	-	-
124	2					2	1	1	2	2	2	2	1	1	2
139	1	1				2	1	1	2	2	2	2	1	1	2
154		2				2	1	1	2	2	2	2	1	1	2
179	1			1		2	1	1	2	2	2	2	1	1	2
194		1		1		2	1	1	2	2	2	2	1	1	2
215			1	1		2	1	1	2	2	2	2	1	1	2
234				2		2	1	1	2	2	2	2	1	1	2
265				1	1	2	1	1	2	2	2	2	1	1	2
296					2	2	1	1	2	2	2	2	1	1	2
332			1	2		3	1	2	3	3	3	3	1	1	3
351				3		3	1	2	3	3	3	3	1	1	3
373		1			2	3	1	2	3	3	3	3	1	1	3
394			1		2	3	1	2	3	3	3	3	1	1	3
413				1	2	3	1	2	3	3	3	3	1	1	3
444					3	3	1	2	3	3	3	3	1	1	3
468				4		4	1	3	4	4	4	4	1	1	4
530				2	2	4	1	3	4	4	4	4	1	1	4
561				1	3	4	1	3	4	4	4	4	1	1	4
592					4	4	1	3	4	4	4	4	1	1	4

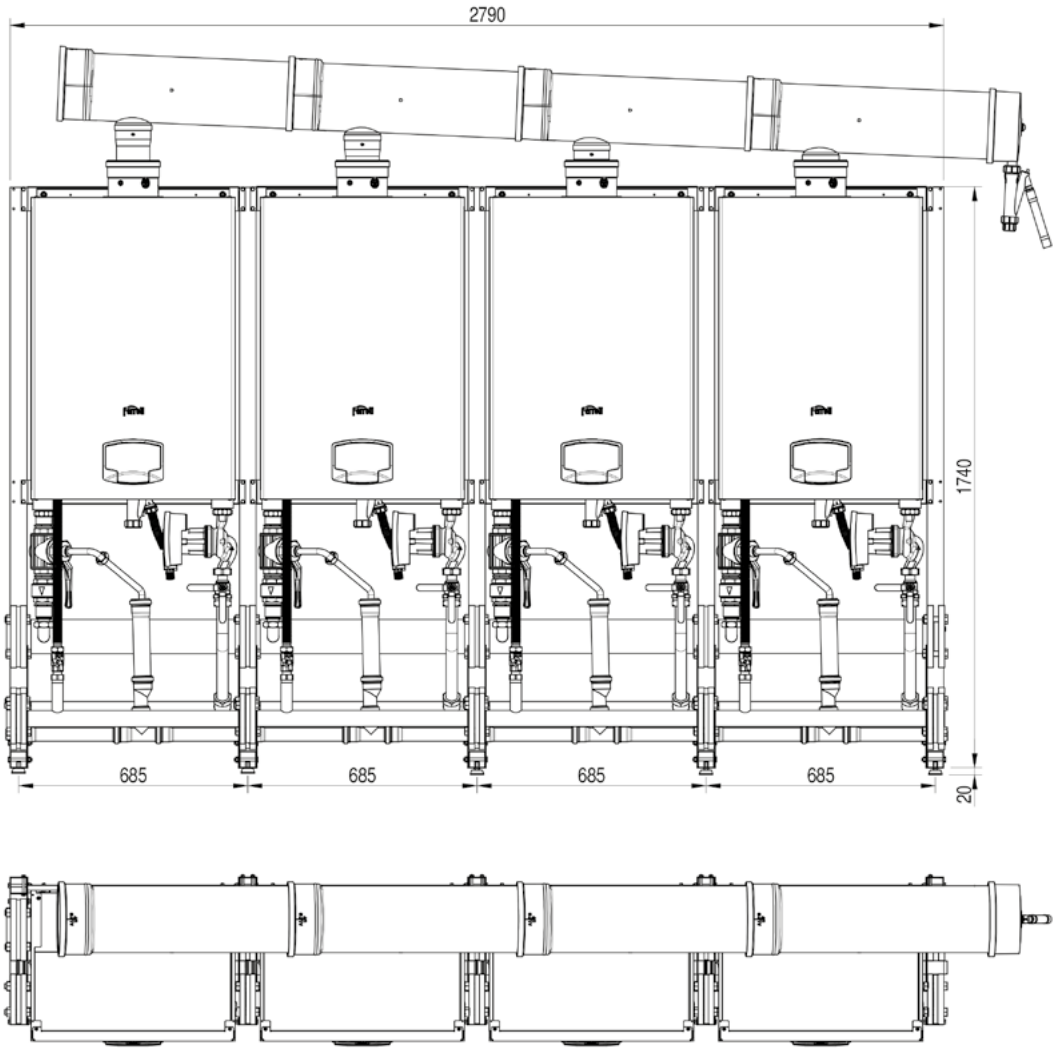
* * Flue gas accessories certified for installation in a utility room or in a protected place

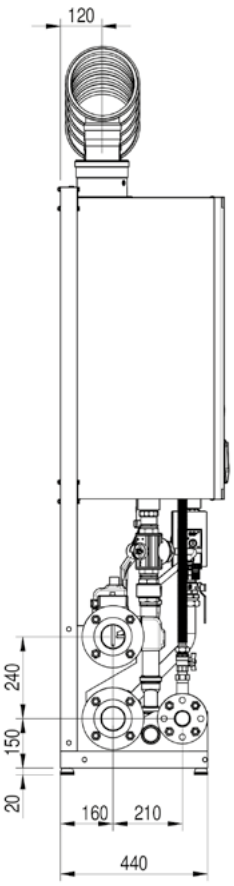
> ACCESSORIES:
UPON REQUEST FOR CONFIGURATION ACCORDING TO PROJECT SPECIFICATIONS

	DESCRIPTION		CODE
	additional sensor for storage tank and/or system flow for cascade	cable 2 m	1KWMA11W
		cable 5 m	043005X0
	outdoor probe		013018X0
	hydraulic separator DN 32 For installation until 150 kW. The installer is responsible for the connection with the boiler		042086X0
	hydraulic separator DN 65 For installation from 151 kW to 300 kW		042078X0
	installation kit for hydraulic separator. For installation from 151 kW to 300 kW		042079X0
	hydraulic separator DN 65 For installation from 301 kW to 600 kW		042080X0
	installation kit for hydraulic separator. For installation from 301 kW to 600 kW		042081X0
	gasketed plates heat exchanger. The hydraulic connection between the boiler and the exchanger is the responsibility of the installer.		

FORCE W

DIMENSIONS AND CONNECTIONS
CASCADE INSTALLATION



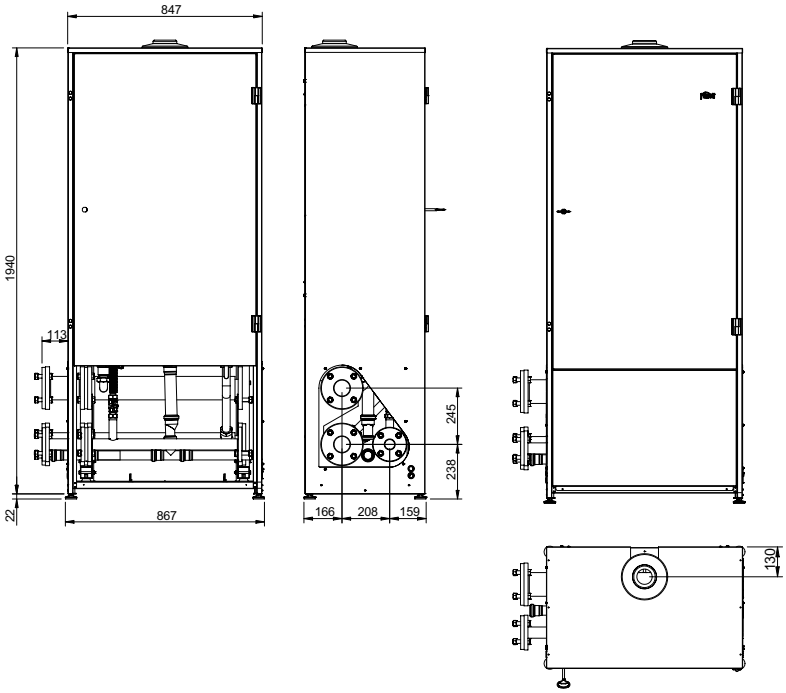


> CASCADE KIT FITTINGS:

- Delivery/return manifolds DN65 PN16
- Gas manifold DN40 PN16
- Condensation drain manifold Ø 40 mm
- Flue gas manifold Ø 200 mm

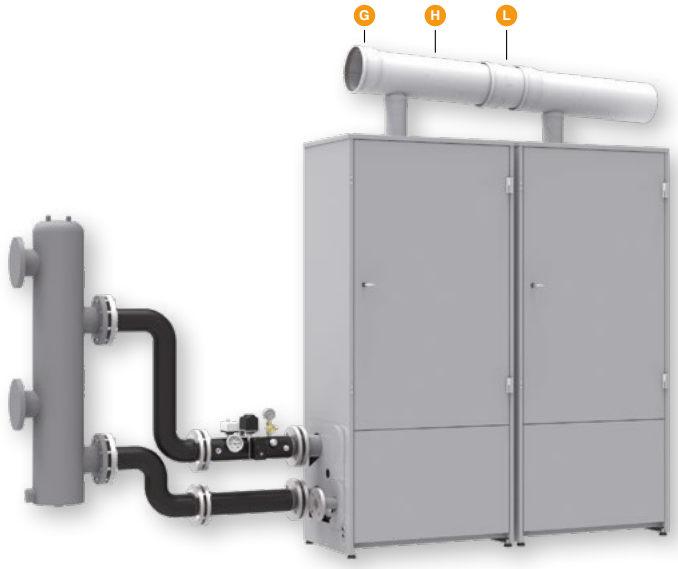
FORCE W OUTDOOR INSTALLATION KIT

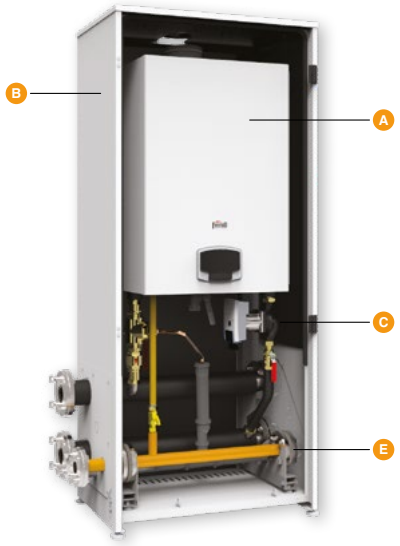
- Cabinet equipped for installing of the FORCE W boilers outdoors in a single or bank configuration up to 600 kW
- The cabinet can be combined with one of five models from the FORCE W range and one of the two circulators (8 m and 10 m head)
- Standard equipment includes:
  * Support frame for the FORCE W boiler
  * DN 65 system delivery and return manifolds
  * DN 40 gas manifold
  * Flanged system fittings kit
  * Condensate collection and drain manifold
  * Three-way shut-off valve with discharge into the atmosphere
  * Two-way shut-off valve
  * Check valve
  * Gas connection pipe between boilers and manifold with shut-off valve
- All optional kits are available for single or bank installation up to four modules in line.
- The boiler combined with the cabinet kit can be installed without any protection against bad weather (IPX5D) and down to temperatures of -5°C



MODEL			W60		W80		W99		W120		W150	
ERP class			A		-		-		-		-	
Nominal power input	Max/Min	kW	58.0 / 15.0		74.4 / 15.0		96.6 / 19.0		113.0 / 19.0		143.0 / 24.0	
Nominal power output 80°C-60°C	Max/Min	kW	57 / 14.7		72.9 / 14.7		94.7 / 18.7		110.5 / 18.7		140.0 / 23.6	
Nominal power output 50°C-30°C	Max/Min	kW	60.8 / 16.3		77.0 / 16.3		100.0 / 20.5		117.0 / 20.5		148.0 / 25.9	
Thermal module FORCE W			0MDSAAWA		0MDSCAWA		0MDSDAWA		0MDSEAWA		0MDSFAWA	
Technical external cabinet			046058X0		046058X0		046058X0		046058X0		046058X0	
High performance modulating pump (8 mt)			042070X0	-	042070X0	-	042070X0	-	042070X0	-	042070X0	-
High performance modulating pump (10 mt)			-	042071X0	-	042071X0	-	042071X0	-	042071X0	-	042071X0

FORCE W CASCADE INSTALLATION FOR OUTDOORS





> ACCESSORIES:
NECESSARY TO CORRECTLY INSTALL FORCE W BOILERS IN A BANK

	A						B	C		E	G	H	L	
							Technical cabinet equipped for outdoors	8-m modulating circulator	10-m modulating circulator	Blind flange kit DN65	Flue gas manifold starter kit (Ø 200 mm) *	Flue gas manifold extension kit (Ø 200 mm) *	Flue manifold adapter F 200 mm	Smoke chimney F 100 mm (for unprotected roof installations)
P_{out} (50/30°C)	MODULES FORCE W					Tot. modules								
	60	80	99	120	150		046058X0	042070X0	042071X0	042073X0	041091X0	041092X0	041093X0	041094X0
62	1					1	1	1	1	1	-	-	-	1
77		1				1	1	1	1	1	-	-	-	1
98			1			1	1	1	1	1	-	-	-	1
117				1		1	1	1	1	1	-	-	-	1
148					1	1	1	1	1	1	-	-	-	1
124	2					2	2	2	2	1	1	2	1	2
139	1	1				2	2	2	2	1	1	2	1	2
154		2				2	2	2	2	1	1	2	1	2
179	1			1		2	2	2	2	1	1	2	1	2
194		1		1		2	2	2	2	1	1	2	1	2
215			1	1		2	2	2	2	1	1	2	1	2
234				2		2	2	2	2	1	1	2	1	2
265				1	1	2	2	2	2	1	1	2	1	2
296					2	2	2	2	2	1	1	2	1	2
332			1	2		3	3	3	3	1	1	3	2	3
351				3		3	3	3	3	1	1	3	2	3
373		1			2	3	3	3	3	1	1	3	2	3
394			1		2	3	3	3	3	1	1	3	2	3
413				1	2	3	3	3	3	1	1	3	2	3
444					3	3	3	3	3	1	1	3	2	3
468				4		4	4	4	4	1	1	4	3	4
530				2	2	4	4	4	4	1	1	4	3	4
561				1	3	4	4	4	4	1	1	4	3	4
592					4	4	4	4	4	1	1	4	3	4

* Flue gas accessories certified for installation in a utility room or in a protected place

> ACCESSORIES:
UPON REQUEST FOR CONFIGURATION ACCORDING TO PROJECT SPECIFICATIONS

	DESCRIPTION		CODE
	additional sensor for storage tank and/or system flow for cascade configurations with and without hydraulic separator	cable 2 m	1KWMA11W
		cable 5 m	043005X0
	outdoor probe		013018X0
	Single empty cabinet for outdoors		046060X0
	Double empty cabinet for outdoors		046061X0
	hydraulic separator DN 32. For installation until 150 kW. The installer is responsible for the connection with the boiler		042086X0
	hydraulic separator DN 65 For installation from 151 kW to 300 kW		042078X0
	installation kit for hydraulic separator. For installation from 151 kW to 300 kW		042079X0
	hydraulic separator DN 65 For installation from 301 kW to 600 kW		042080X0
	installation kit for hydraulic separator. For installation from 301 kW to 600 kW		042081X0
	gasketed plates heat exchanger. The hydraulic connection between the boiler and the exchanger is the responsibility of the installer.		

FORCE W HYDRAULIC SEPARATORS
CHARACTERISTICS - ACCESSORIES TO COMPLETE INSTALLATION

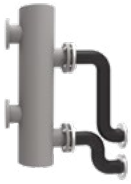
The hydraulic separator guarantees the independence between the primary circuit (boiler) and the secondary circuit (system) without any disturbance or interference between them.
The separator is proposed complete with deaerator, sludge separator and is fully insulated.

CHARACTERISTICS:
Max operating pressure: 6 bar
Temperature range: 0 - 100°C
Connections: DN 65 / DN 100

HYDRAULIC SEPARATOR FOR INSTALLATION UP TO 150 KW

	DESCRIPTION	CODE
	Hydraulic separator DN 32 The installer is responsible for the connection with the boiler	042086X0

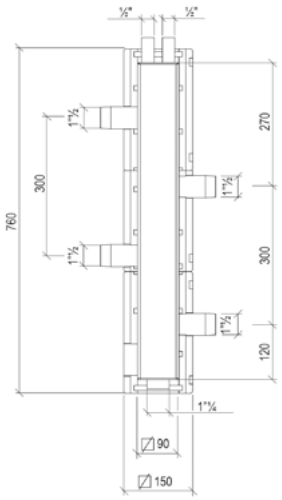
HYDRAULIC SEPARATOR FOR INSTALLATION FROM 151 TO 300 KW

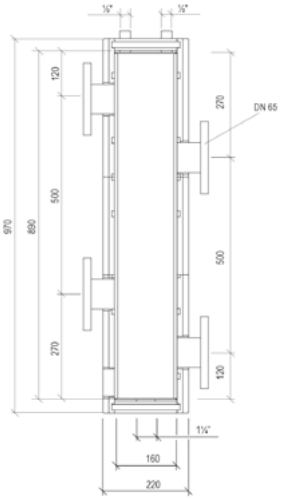
	DESCRIPTION	CODE
	Hydraulic separator DN 65	042078X0
	Kit for hydraulic separator installation	042079X0

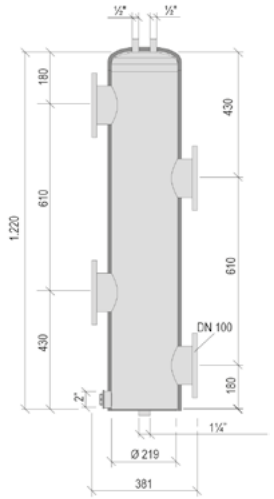
HYDRAULIC SEPARATOR FOR INSTALLATION FROM 301 TO 600 KW

	DESCRIPTION	CODE
	Hydraulic separator DN 100	042080X0
	Kit for hydraulic separator installation	042081X0

> DIMENSION AND TECHNICAL DATA:







MODEL		DN 32	DN 65	DN 100
Flow rate	m³/h	6.5	18	30
Water content	lt	4.8	21	46
Max temperature	°C	100	100	100
Max pressure	bar	6	6	6
Material	-	ST37.1 stainless	ST37.1 stainless	ST37.1 stainless
Insulation	-	Black EPP - 40 g/l	Black EPP - 40 g/l	Black EPP - 40 g/l

NOTES

FLOOR STANDING BOILERS

CONDENSING
TRADITIONAL
INDUSTRIAL

TP3 COND THREE PASS FLUE CONDENSING BOILER

> THE RANGE:

Models Available from **65kW** to **2,600kW**.

> PRODUCT BENEFITS:

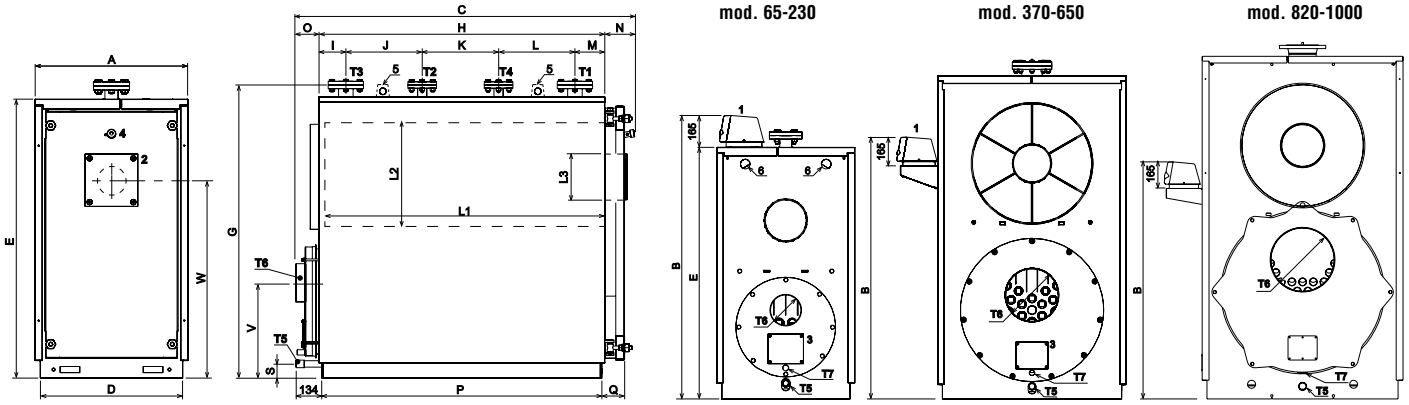
- Horizontal condensing boiler for pressurised combustion with three flue gas passes and **four-star certified energy efficiency** in accordance with directive EN 15502-1
- Ready for operation in combination with a **jet burner on gas fuel**
- The arrangement and **generous sizing of the combustion chamber guarantee a low heating load** and the possibility to be combined with burners featuring technology for the combustion with low polluting emissions
- Range consisting of 7 models with rated outputs from **820** to **2,600 kW**.
- **Steel, condensing heat boiler** with **high water content**, designed to work in conjunction with **gas or oil** jet burners
- **Boiler with three flue gas passes**, with return pipe from the bottom of the combustion chamber
- **Floating combustion chamber with wet bottom,** low volumetric heat load and **standard turbulators** on the last flue gas pass
- **Front single-piece door** equipped with blind flange for securing the burner. All the parts in contact with the flue gases are coated with refractory material offering high resistance and thermal insulation **Reversible opening (right and left)** and closing system and micro-metric adjustment on four points
- **Double return fitting** for low and high temperature systems
- **Contained front overall dimensions** to fit the boiler through the accessways of thermal power plants
- **High energy** efficiency
- **Maximum** operating **pressure 6 bar**
- **Heat transfer fluid circulation** control system inside the body to improve exchange and avoid thermal shock
- **"Satellite" control panel** available in thermostatic version

Note: The TP3 COND Boiler is supplied with Controller – Part no:- 0Q2K10XA, please see Technical Files on website for details.

MODEL			65	100	150	230	370	500	650	820	1000
ERP Class			A	ENERGY LABELLING NOT RELEVANT							
Heat input (kW)		Max	61.3	94.3	141.5	217	349.1	471.7	613.2	767	935
		Min	18.4	28.3	42.5	65.1	104.7	141.5	184	498	608
Useful nominal power (80/60°C) (kW)		Max	59.5	91.5	137.3	210.5	338.6	457.5	594.8	752	916
		Min	18	27.7	41.6	63.8	102.6	138.7	180.3	489	595
Useful nominal power (50/30°C) (kW)	Gas	Max	65	100	150	230	370	500	650	820	1000
		Min	19.7	30.3	45.4	69.7	112	151.4	196.8	533	650
	Oil	Max	62.9	96.7	145	222.4	357.8	483.5	628.5	793.5	967.7
		Min	19.1	29.4	44.2	67.7	108.9	147.2	191.3	516.7	630
Efficiency (50/30°C) (%)	Gas	Max	106	106	106	106	106	106	106	106	106
		Min	107	107	107	107	107	107	107	107	107
	Oil	Max	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5
		Min	104	104	104	104	104	104	104	104	104
Efficiency 30%	Gas	Max	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5
	Oil	Min	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
Max operating pressure		bar	6	6	6	6	6	6	6	6	6
Pressure drop on flue gas side		mbar	0.4	0.65	1.7	1.7	2	3.5	4.2	6	6.4
Protection rating			IPX0D								
Electric power supply		V/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50
Empty weight		Kg	377	436	490	645	1035	1338	1451	2050	2150
CODE			**0RGZ3AXA**	**0RGZ4AXA**	**0RGZ5AXA**	**0RGZ8AXA**	**0RGZBAXA**	**0RGZDAXA**	**0RGZGAXA**	**0RGE00XA**	**0RGF00XA**
THERMOSTATIC CONTROL PANEL CODE			**0Q2K10XA**								

TP3 COND

> DIMENSIONS:



> KEY

T1 Heating delivery
T2 High temperature return
T3 Low temperature return
T4 Safety fitting
T5 Boiler discharge connection
T6 Chimney connection
T7 Condensate discharge connection
1 Tool panel
2 Burner connection flange
3 Flue gas chamber cleaning door
4 Flame control light

MODEL			65	100	150	230	370	500	650	820	1000
Measurements	A	mm	700	700	700	800	950	1050	1050	1180	1180
	B	mm	1437	1437	1437	1637	1462	1462	1462	1424	1424
	C	mm	1157	1377	1577	1777	1987	2187	2387	2620	2620
	D	mm	650	650	650	750	900	1000	1000	1120	1120
	E	mm	1275	1275	1275	1475	1655	1805	1805	2006	2006
	G	mm	1335	1335	1335	1535	1715	1860	1860	2075	2075
	H	mm	878	1098	1298	1498	1698	1900	2100	2094	2094
	I	mm	123	123	123	142	172	179	179	224	224
	J	mm	200	260	350	400	450	500	600	650	650
	K	mm	200	300	320	400	450	500	600	300	450
	L	mm	200	260	350	400	450	500	500	600	600
	M	mm	155	155	155	156	176	221	221	320	320
	N	mm	157	157	157	157	167	167	167	278	273
	O	mm	122	122	122	122	122	120	120	262	262
	P	mm	846	1066	1266	1467	1667	1867	2067	2068	2216
	Q	mm	134	134	134	134	144	144	144	226	226
	S	mm	80	80	80	80	70	70	70	78	78
	V	mm	450	443	435	500	550	587	580	830	830
	W	mm	905	905	905	1055	1200	1315	1315	1480	1480
System flow	T1		DN 50	DN 50	DN 50	DN 65	DN 80	DN 100	DN 100	DN 125	DN 125
High temperature system return	T2		DN 40	DN 40	DN 40	DN 40	DN 50	DN 65	DN 65	DN 65	DN 65
Low temperature system return	T3		DN 50	DN 50	DN 50	DN 65	DN 80	DN 100	DN 100	DN 125	DN 125
Safety fitting	T4		DN 40	DN 40	DN 40	DN 40	DN 50	DN 65	DN 65	DN 80	DN 80
Boiler discharge	T5		1”	1”	1”	1”	1”	1”	1”	1" 1/2	1" 1/2
Flue gas outlet	T6	ØE mm	160	160	160	200	250	300	300	350	350
Hearth length	L1	mm	686	906	1106	1308	1473	1672	1872	1980	2130
Internal diameter of the hearth	L2	Ø mm	420	420	420	500	550	610	610	700	700
Max nozzle diameter	L3	Ø mm	155	155	155	155	190	190	190	270	270
Nozzle length min / max		mm	160/230	160/230	160/230	160/230	160/230	160/230	160/230	320/390	320/390

PREXTHERM RSW PRESSURISED STEEL BOILER

QUADRA VERSION
92 ÷ 1890

TONDA VERSION
2360 ÷ 6000

*

REG. 812/2013

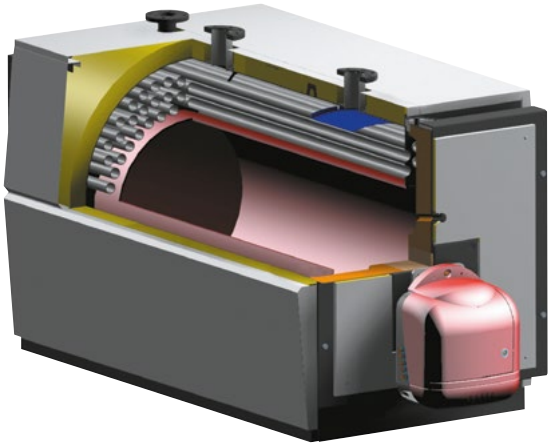
* FOR MODELS 92 ÷ 350

> THE RANGE:

Models Available from **92kW** to **6000kW** (6MW)

> PRODUCT BENEFITS:

- Boiler body made entirely from **steel**, completely lined with an 80 mm layer of high density glass wool, in turn covered by a strong layer of tearproof material
- Maximum **operating pressure 6 bars**, higher pressures upon request
- Pressurised steel boiler, fit for installation of a jet burner, operating with gas or liquid fuel
- **Reverse flame** boiler body, fully insulated with a 80 mm thick layer of glass wool
- Front door with double layer of insulation and **reversible opening** (right and left) and door centering in a unique mechanism
- Carefully designed with a system optimising fluid circulation inside the boiler, thus improving thermal exchange and minimising stress on the materials
- **Max operating pressure: 6 bar**. Higher pressure specifications upon demand
- Models 92 N ÷ 401 N are available with a standard kit of connection flanges in the supply



MODEL	HEAT OUTPUT		HEAT INPUT		PRESSURE DROP FLUE GAS SIDE	BODY EMPTY WEIGHT	WIDTH	HEIGHT**	DEPTH	CODE
	min kW	max kW	min kW	max kW	mbar	kg	mm	mm	mm	(see page 3)
92 N	60	92	64,3	99,5	0,5	260	800	925	1087	**0QIJ3AXA**
107 N	70	107	75	116	0,7	260	800	925	1087	**0QIJ4AXA**
152 N	100	152	107,3	165	1,2	350	800	980	1337	**0QIJ6AXA**
190 N	137	190	147,4	206	1,2	350	800	980	1337	**0QIJ7AXA**
240 N	160	240	170,9	261	2,3	440	800	980	1587	**0QIJ8AXA**
300 N	196	300	209,5	326	3,3	480	940	1100	1607	**0QIJ9AXA**
350 N	228	350	277,5	378	3,5	590	940	1100	1857	**0QIJAAXA**
401 N	260	401	364,5	432	4,4	590	940	1100	1857	**0QIJBAXA**
525 N	341	525	417	567	4,3	860	1050	1250	1859	**0QIJEAXA**
600 N	390	600	495	648	4,8	970	1050	1250	2219	**0QIJFAXA**
720 N	468	720	502	777	4,5	1250	1250	1400	2219	**0QIJHBXA**
820 N	533	820	566	881	5,6	1250	1250	1400	2219	**0QIJIBXA**
940 N	611	940	651	1011	5,4	1420	1250	1400	2455	**0QIJJBXA**
1060 N	689	1060	731	1140	6,0	1580	1430	1580	2482	**0QIJKBXA**
1250	813	1250	884	1359	6,5	1953	1450	1580	2420	**0QCJ00XA**
1480	962	1480	1046	1608	6,5	2400	1530	1730	2722	**0QCL00XA**
1600	1040	1600	1158	1736	6,8	2500	1530	1730	2722	**0QCN00XA**
1890	1229	1890	1336	2054	7,0	2650	1530	1730	2722	**0QCP00XA**
2360	1535	2360	1668	2565	7,2	3550	1610	1950	3232	**0QCS00XA**
3000	1950	3000	2113	3250	7,5	4490	1800	2140	3446	**0QCU00XA**
3600	2340	3600	2536	3900	8,2	4900	1800	2140	3816	**0QCV00XA**
4000	2600	4000	2819	4334	9,5	6780	1980	2325	4086	**0QCW00XA**
4500	2926	4500	3165	4868	10,5	7380	1980	2325	4436	**0QCX00XA**
5000	3251	5000	3515	5407	10,8	9600	2180	2525	4458	**0QCY00XA**
6000	3902	6000	4215	6483	12,0	11500	2180	2525	4958	**0QCZ00XA**

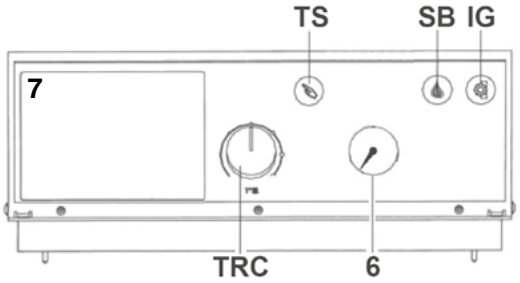
*** Including water connections*

PREXTHERM RSW

THERMOSTATIC CONTROL BOARD FOR STEEL PRESSURISED BOILERS

> THE ADVANTAGES:

- Can be combined with single-stage and two-stage jet burners
- Double contact regulation thermostat
- Anticondensation function with minimum threshold for starting the adjustable pump
- Set-up for the installation of a temperature control



> KEY

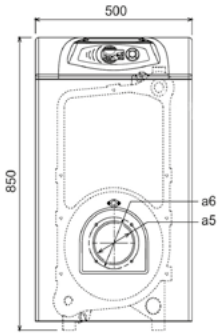
IG Main switch
SB Blocked burner light
TRC Adjustment thermostat
TS Safety Reset / Thermostat
6 Thermometer
7 Temperature control set-up (not supplied)

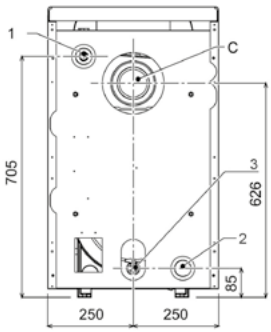
CODE	DESCRIPTION
0Q2K10XA	THERMOSTATIC CONTROL BOARD

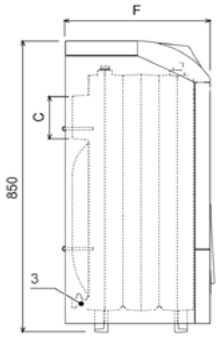
ATLAS D CAST IRON FLOORING STANDING BOILERS, FOR OIL

> PRODUCT BENEFITS:

- **Heating device** designed to operate with jet burners with electric absorption ≤180 W for models 25-37 and ≤200 W for models 50-63-75 or for replacement with identical devices according to current regulations
- **Cast iron body**, with preassembled elements with steel double cones and tie rods, of the **three flue gas pass type** with completely wet combustion chamber
- **The standard electronics** can manage the heating system circulator, the remote timer control or room thermostat, the outdoor probe for flow temperature compensation, the circulator (3-way valve) and storage tank probe for DHW production with external storage
- **Key controls** and **LCD display interface**







> KEY

1 1" 1/2" system flow
2 1" 1/2" system return
3 Heating system drain valve
a5 Burner hole
a6 Burner connection
C Flue gas outlet

MODEL	C ø mm	F mm	a5 ø mm	a6 ø mm
ATLAS D 25	120 - 130	400	115	150
ATLAS D 37	120 - 130	500	115	150
ATLAS D 50	120 - 130	600	115	150
ATLAS D 63	120 - 130	700	115	150
ATLAS D 75	120 - 130	800	115	150

MODEL		25	37	50	63	75
ERP Class*		B	B	B	B	-
Heat Input	kW	28.3	41.9	56.6	71.3	84.6
Max heat output	kW	25.0	37.0	50.0	63.0	75.0
Pmax efficiency (80/60°C)	%	88.2	88.3	88.4	88.4	88.7
Efficiency 30% Pmax	%	92.2	91.7	91.4	91.0	90.5
Pressure drop on flue gas side	mbar	0.1	0.4	0.4	0.5	0.6
Min/Max operating pressure	bar	0.8 / 6	0.8 / 6	0.8 / 6	0.8 / 6	0.8 / 6
Elements	No.	3	4	5	6	7
Empty weight	Kg	127	166	205	244	283
CODE		**0IHJ3PWA**	**0IHJ4PWA**	**0IHJ5PWA**	**0IHJ6PWA**	**0IHJ7PWA**

** The ErP class is certified if the boilers are combined with oil burners with electric absorption ≤180 W for models ATLAS D 25 - 37 and ≤200 W for models ATLAS D 50 - 63 - 75*

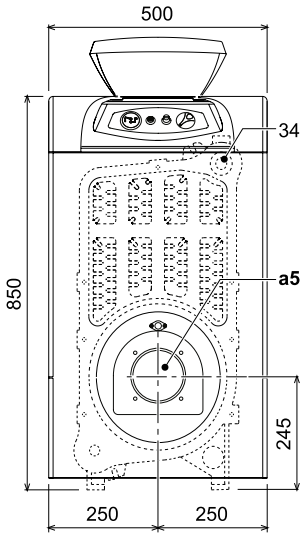
ATLAS A 3 PASS-FLUES BOILER, FOR OIL OR GAS JET BURNER, HEATING ONLY

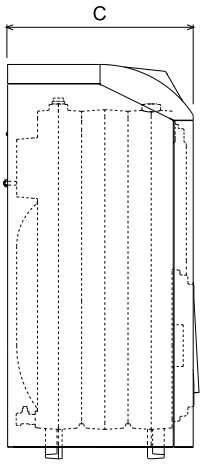
> PRODUCT BENEFITS:

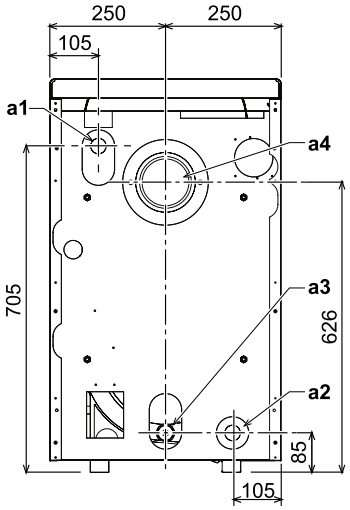
- High efficiency cast iron boiler body, featuring **3 pass** technology, insulated with high density rockwool
- **Silent** operation thanks to low flues turbulence
- Widely copes with requirements for **2 stars** efficiency according to directive 92/42 EEC, emended by Reg. 812/2013
- **Conic chimney stack**, in order to easily adapt to different tolerances of flue pipes diameters
- **Analogue** control panel with elegant fume cover
- Control board includes thermometer, ignition switch, safety thermostat with manual reset and temperature setting knob
- Stylish steel jacket painted by anaphoresis with epoxy powder

> KEY

a1 System delivery - 1" 1/2"
a2 System return - 1" 1/2"
a3 Heating system drain - 1/2"
a4 Flue connection
a5 Burner connection
34 Safety and heating temperature bulb







MODEL	C mm	a4 ø mm	a5 ø mm
ATLAS A 32	400	120÷130	115
ATLAS A 47	500	120÷130	115
ATLAS A 62	600	120÷130	115
ATLAS A 78	700	120÷130	115
ATLAS A 95	800	120÷130	115

REG. 812/2013

MODEL			32	47	62	78	95
Heat input	Max Heating	kW	34,9	51,6	67,7	85,6	103,2
Heat output	Max Heating	kW	32,0	47,0	62,0	78,0	95,0
Efficiency	80°C - 60°C 30% load	Pmax % %	91,7 94,3	91,1 93,5	91,5 94,0	91,1 93,5	92,0 93,8
Number of element		no.	3	4	5	6	7
Heating water content		litres	18	23	28	33	38
Heating operating pressure	Max	bar	6	6	6	6	6
Flues pressure drop		mbar	0,2	0,27	0,4	0,4	0,63
Empty weight		kg	127	166	205	244	283
Dimensions	WxHxD	mm	500x850x400	500x850x500	500x850x600	500x850x700	500x850x800
CODE			**0IHJ3AWA**	**0IHJ4AWA**	**0IHJ5AWA**	**0IHJ6AWA**	**0IHJ7AWA**

INDUSTRIAL HEATING

Ferroli Industrial Heating offers a range of boilers for markets worldwide, with outputs varying between 100 and 19500kW:
- boilers for the production of hot water, superheated water and steam (with flame reversal and 3 flue passes)
- solid fuel boilers for the productionof hot water, superheated water and saturated steam

> STEAM BOILERS:

VAPOPREX LVP
- **Steam output from 150 to 3000kg/h**
- Low pressure steam boiler with three flue passes, two in furnace.

VAPOPREX HVP
- **Steam output from 150 to 5000kg/h**
- Medium pressure steam boiler with three flue passes, two in furnace.

VAPOPREX 3GF
- **Steam output from 1700 to 8500kg/h**
- Medium pressure steam boiler with three flue passes.

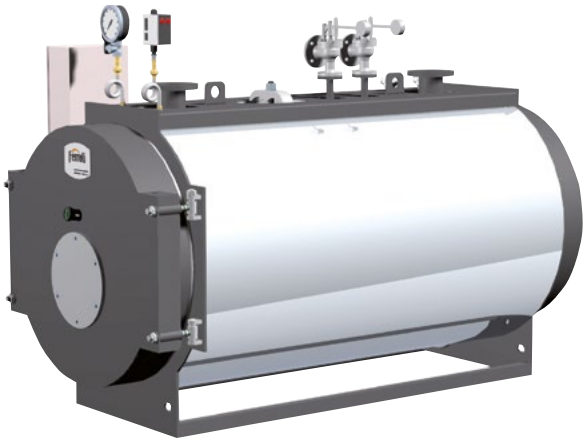
VAPOPREX 3GN
- **Steam output from 2000 to 28000kg/h**
- Medium pressure steam boiler with three flue passes.

> HOT WATER BOILERS:

HOT WATER PREXTHERM RSW/RSH
- **Heat output from 92 to 3600kW**
- Hot water boiler with three flue passes, two in furnace.

PREXTHERM T 3G
- **Heat output from 1200 to 19500kW**
- Hot water boiler with three flue passes, two in furnace.

> SUPERHEATED WATER BOILERS:



PREX N ASL
- **1.210 - 3.500kW**
- Superheated water boiler max temperature 145°, with three flue passes, two in the furnace.

PREX N ASH
- **160 - 3.500kW**
- Superheated water boiler max temperature 200°, with three flue passes, two in the furnace.

PREXTHERM T3G F ASL
PREXTHERM T3G F ASH
- **1.210 - 9.000kW**
- Superheated water boiler with three flue passes.

PREXTHERM T3G N ASL
PREXTHERM T3G N ASH
- **6.000 - 15.000kW**
- Superheated water boiler with three flue passes.

In accordance with the constant efforts to improve its range of products and thus raise the level of customer satisfaction, the Company stresses that the appearance and/or size, technical specifications and accessories may be subject to variation.

Ferroli Ltd
The Granary, Borough Hill Farm, Catton Road,
Walton on Trent, Derbyshire, DE12 8LL
tel. +44.0330.205.0002
www.ferroli.com
uk.sales@ferroli.com

04.25