Ferroli

Product catalogue

March **2018**

CLIMA&COMFORT | RESIDENTIAL

SUMMARY CATALOGUE FERROLI

Identification colours for each product family

EN ISO 9001:2008
CERTIFIED
QUALITY SYSTEM

ATTENTION

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 minimal lots etc, please refer to Ferroli's commercial representatives.
Application of accessories to be checked on respective installation manuals.

ERP R-EVOLUTION

SHORT GUIDE TO EU REGULATIONS

European community **Erp regulations** about Ecodesign (minimum efficiency limits) and Energy Labelling (energy informational label) entered in force **on 26 september 2015** simultaneously in all UE countries and EEA countries (European economic Area: Liechtestein, Switzerland, Norway, Iceland). **Nothing changed for extra UE** countries markets and production of european manufacturers directed outside EU.
As a consequence, since the mentioned date all involved products sold to the final customer are ErP compliant, except for stock already in the market before 26/09/2015. Moreover, products meant for domestic use, are equipped with an **energy label**.

PRODUCTS SUMMARY

VOLUME / OUTPUT LIMITS:	0-70 kW 0-500 lts (tank)	71-400 kW 501 - 2000 lts (tank)	over 400 kW over 2000 lts (tank)
HEATING GENERATOR gas / oil / biomass / electric boiler	**ENERGY LABEL** **ERP COMPLIANCE**	**NO ENERGY LABEL** **ERP COMPLIANCE**	**ERP REGULATIONS** **NOT APPLIED**
DHW GENERATOR electric / gas water heater / biomass DHW indirect cylinder	**ENERGY LABEL** **ERP COMPLIANCE**	**NO ENERGY LABEL** **ERP COMPLIANCE**	**ERP REGULATIONS** **NOT APPLIED**
ELECTRONIC CONTROLLERS **SOLAR COLLECTORS**	**Compliant. Product fiche in the manual necessary**		
PRESSURISED BOILERS Boiler bodies for jet burners Jet burners	**Can be sold only as replacement of an identical product**		**ERP REGULATIONS** **NOT APPLIED**

Good efficiency B1 type combi boilers (open flue natural draught) under 30 kW are admitted by ErP regulation only as a replacement on collective chimney installations, untill 26/09/2018 (market introduction date). Afterwards such boilers will need to be Class 6 Nox as well.

READING THE CATALOGUE
Symbols used for boilers/water heaters and tanks

PRODUCT IN FULL CONFORMITY WITH ERP REGULATIONS

These products were redesigned and re-certified accordingly to new ErP energy efficiency limits. Furthermore they bring the Energy Label delivered from the manufacturer (if foreseen: up to 70 kW output power or up to 500 lt water storage).
It may happen that along the distribution chain you can find a very similar "pre-ErP" product, which could still be sold and installed if firstly introduced in the EU market before 26 September 2015.
Anyhow most probably the product is not exactly the same (design). These "pre-ErP" products cannot bear the Energy Label.

PRODUCTS FOR REPLACEMENT ONLY

Boilers for jet burners constitute an exception to the ErP applicability. Models with seasonal efficiency $\eta_s < 86\%$ can be sold and installed only as a replacement of identical products, as stated by Reg. 813/2013 lett G, par 2.1. The same rule is applied to jet burners, sold and installed as replacement of identical product.
The rule is applied below 400 kW output. Also some open flue wall hung boilers, complying given requirements, can be installed as a replacement on collective chimneys installation. Of course, such EU options have to be compatible with local laws as well.

PRODUCT FOR EXTRA EU MARKETS ONLY

Product not admitted in the EU (can only be sold and installed in the EU if firstly introduced in the EU market before 26 September 2015).

CHEAP AND EASY FERROLI A+ SYSTEMS

SEASONAL EFFICIENCY

Most of Ferroli condensing boilers boast a very high heating seasonal efficiency, corresponding to η_s **94%**, according to european Regulations on Energy Related Products (**ERP**). Such superior performances permit to achieve A+ classification as an heating package, through the simple combined purchase and installation of the outdoor probe and Romeo remote controller, together with the boiler.

+

+

=

Ferroli boiler	*Romeo*	*Outdoor probe*	*A+ energy label for the heating package*

SYMBOLS KEY

Product in accordance with Erp regulations

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

Product for extra EU markets only

NOx emissions: **class 6**, i.e. most **ecological** class according to European Directives EN 15502-1 in force from 26-09-2018 (<56 mg/kWh)

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

Maximum **domestic hot water comfort**: 3 star according to EN 13203 Directive, emended by Reg. 812/2013

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

Automatic function which **avoids risk of frost** in boiler's CH circuit in stand-by mode (if fuel and power supplied) down to -5°C

Monothermic primary exchanger in **stainless steel**

Double function single exchanger in **stainless steel**

Patented exchanger in **stainless steel**

Can be combined with modulating **remote control** ROMEO

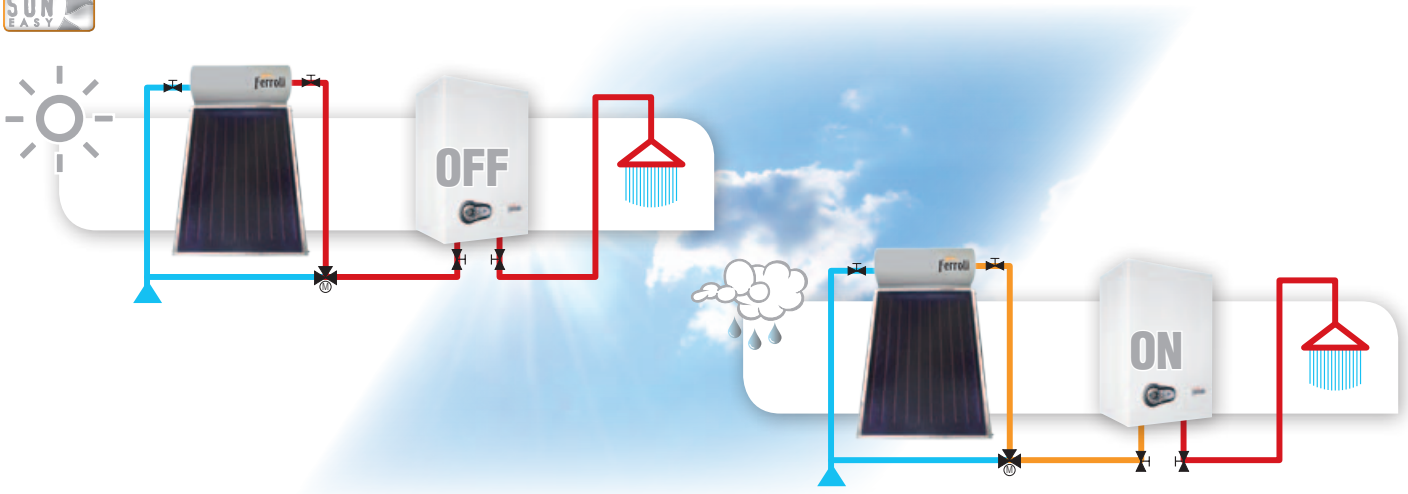
Includes class A efficiency pump **ERP compliant**

Includes modulating pump - class A efficiency - **ERP compliant**

"Range rated" certified generator, according EN 483

94% as seasonal efficiency in heating **(η_s)** according to Reg. 811/2013

Matching Ferroli boiler with solar won't be a simple addition of free energy, but a real integrated system. Boiler will precisely supplement heat produced by solar during mild seasons or with fresh weather, thanks to SUNEASY function in the electronics.

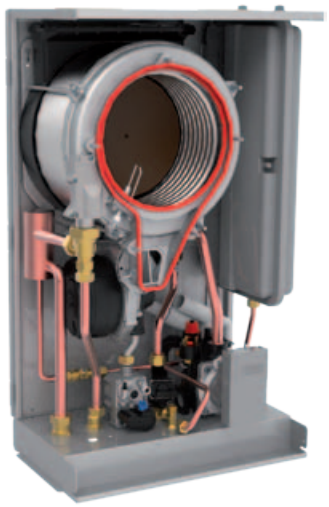


CONDENSING LINE

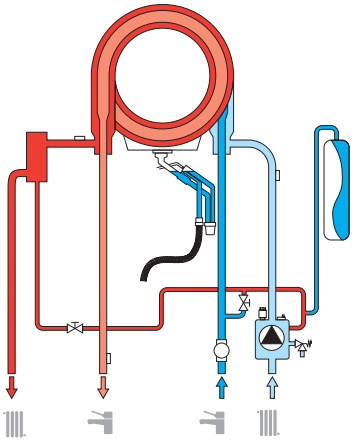
BLUEHELIX PRO S

INSTANT COMBI WALL HUNG CONDENSING BOILER

- Exchanger in stainless **steel**, double function, boasting considerable thickness
- Exchanger consisting in a **pipe-in pipe coil**, with no welding, nor joint, for central heating and instantaneous domestic hot water
- Function "**self-cleaning**" of the exchanger reduces linestone deposits inside DHW circuit
- **Condensation phenomena is enhanced** also in domestic hot water mode thanks to the efficient construction of the monobloc exchanger
- Reduced boiler depth, thanks to the wise positioning of the combustion cell
- **Class 3 DHW comfort** according to EN 13203, emended by Reg. 812/2013
- **NOx** emission **class 6** (directive EN 15502-1)
- **Modulating pump** with Δt control
- Complete thermoacoustic insulation
- Can be combined to the **modulating remote control** and **outdoor probe**
- **Connection to solar heating systems**: ready for domestic hot water production in combination with solar collectors systems
- A+ SYSTEM : in combination with Romeo remote control and the outdoor probe (range from G to A+++)



WATER SCHEME

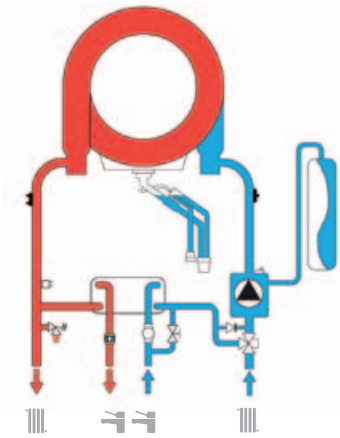


MODEL				S 27 C	S 32 C
Erp Class		(G - A+ Class)		A	A
	XL	(G - A Class)		A	A
Seasonal efficiency				94	94
Heat input		Min	kW	5,8	6,7
		Max Heating	kW	25,0	29,5
		Max DHW	kW	27,0	32,0
Heat output	80°C - 60°C	Min	kW	5,7	6,6
		Max Heating	kW	24,5	28,9
		Max DHW	kW	27,0	32,0
	50°C - 30°C	Min	kW	6,2	7,2
		Max Heating	kW	26,5	31,3
Efficiency	80°C - 60°C		Pmax %	98,0	98,0
			Pmin %	97,8	97,8
	50°C - 30°C		Pmax %	106,1	106,1
			Pmin %	107,5	107,5
	30% partial load		Pmax %	108,8	108,8
DHW production		Δt 30°C	l/min	12,9	15,3
		Δt 25°C	l/min	15,5	18,3
Heating operating pressure		Max / Min	bar	3 / 0,8	3 / 0,8
Empty weight			kg	29	31,5
Dimensions		WxHxD	mm	420x700x250	420x700x320
CODE (see page 3)				**0T1B2IWA**	**0T1B3IWA**

BLUEHELIX TECH RRT C INSTANT COMBI WALL HUNG CONDENSING BOILER

- Extra-thick stainless steel primary heat exchanger, with increased sections to ensure durability and reduced maintenance
- **Domestic hot water** production through dedicated plates exchanger
- **MC²: M**ulti **C**ombustion **C**ontrol, gas-adaptive technology of industrial origin for better adaptability of use as the conditions according to the variations of the gas mains
- **MLR: M**ethane **L**PG **R**eady, via a simple configuration, the boiler can operate both with methane and LPG without using additional conversion kits
- Exclusive **exchanger-burner system with self-cooled door**
- **Hydraulic couplings** covered by the boiler casing
- **Suitable for 50mm diameter flue outlets**
- **FPS: F**lue **P**rotection **S**ystem. The flue check valve installed as standard on air intake allows for easy connection to collective pressure flue systems
- Designed to **simplify and make** normal **maintenance and cleaning steps** easier
- **Connection to solar heating systems:** ready for domestic hot water production in combination with solar collectors systems
- A+ SYSTEM in combination with Romeo remote control and the outdoor probe (range from G to A+++)

WATER SCHEME



ERP COMPLIANT | REMOTE | FUNCTION SUN EASY | DHW | CLIMATIC | CLASS 6 NOx | STAINLESS STEEL | MODULATING PUMP | ETAs 94% | ANTIFROST

MODEL				24 C	28 C	34 C
Erp Class		(G - A+++ Class)		A	A	A
		(G - A Class)		XL A	XL A	XXL A
Seasonal efficiency				94	94	94
Heat input		Min	kW	5,0	5,0	7,1
		Max Heating	kW	20,4	24,5	34,0
		Max DHW	kW	25,0	28,5	34,7
Heat output	80°C - 60°C	Min	kW	4,9	4,9	6,3
		Max Heating	kW	20,0	24,0	30,0
		Max DHW	kW	24,5	28,0	34,0
	50°C - 30°C	Min	kW	5,4	5,4	6,9
		Max Heating	kW	21,7	26,0	32,5
Efficiency	80°C - 60°C		Pmax %	98	98,1	98
			Pmin %	97,8	98,0	97,8
	50°C - 30°C		Pmax %	106,1	106,1	106,1
			Pmin %	107,5	107,5	107,5
	30% partial load		Pmax %	109,8	109,7	109,8
DHW production		Δt 30°C	l/min	11,7	13,4	16,2
		Δt 25°C	l/min	14	16,1	19,5
Heating operating pressure		Max / Min	bar	3 / 0,8	3 / 0,8	3 / 0,8
Empty weight			kg	28	28	32
Dimensions		WxHxD	mm	420x700x250	420x700x250	420x700x320
CODE (see page 3)				**0T3B2BWA**	**0T3B2AWA**	**0T3B3AWA**

BLUEHELIX TECH H

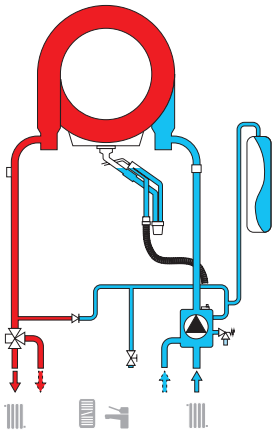
WALL-HUNG CONDENSING BOILER
HEATING ONLY

mod. **45 H**

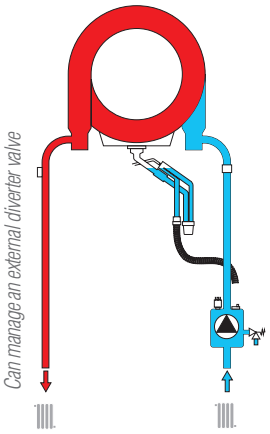
mod. **RRT**

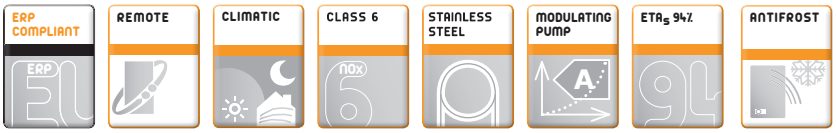
- Primary exchanger in stainless **steel**, boasting considerable thickness
- Exchanger consisting in a **unique large section coil**, with no welding, nor joint
- includes 3 way valve for connection to an external DHW tank, with legionella protection program (except mod. S 45 H)
- **MC²: M**ulti **C**ombustion **C**ontrol, gas-adaptive technology of industrial origin for better adaptability of use as the conditions according to the variations of the gas mains
- **MLR: M**ethane **L**PG **R**eady, via a simple configuration, the boiler can operate both with methane and LPG without using additional conversion kits
- **FPS: F**lue **P**rotection **S**ystem. The flue check valve installed as standard on air intake allows for easy connection to collective pressure flue systems
- **Modulating pump** with Δt control
- Complete thermoacoustic insulation
- Can be combined to the **modulating remote control** and **outdoor probe**
- A+ SYSTEM : in combination with Romeo remote control and the outdoor probe (mod. 24 - 30) (range from G to A+++)

WATER SCHEME mod. 24-30



WATER SCHEME mod. 45





* only for RRT model

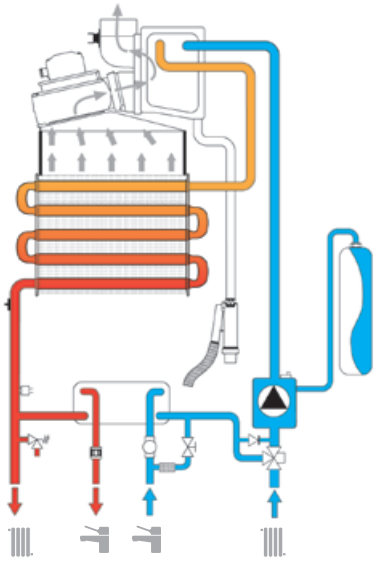
MODEL				RRT 24 H	RRT 30 H	S 45 H
Erp Class		(G - A++ Class)		A	A	A
Seasonal efficiency				94	94	93
Heat input		Min	kW	5,0	6,1	7,5
		Max Heating	kW	24,5	34,0	43,0
		Max DHW	kW	-	-	-
Heat output	80°C - 60°C	Min	kW	4,9	6,3	7,3
		Max Heating	kW	24,0	34,0	42,1
		Max DHW	kW	-	-	-
	50°C - 30°C	Min	kW	5,4	6,9	8,0
		Max Heating	kW	26,0	32,5	45,6
Efficiency	80°C - 60°C		Pmax %	98,1	97,9	98,0
			Pmin %	98,0	98,0	97,8
	50°C - 30°C		Pmax %	106,1	106,1	106,1
			Pmin %	107,5	107,5	107,5
	30% partial load		Pmax %	109,7	109,5	108,8
Heating water content			lts	1,7	2,1	3
Heating operating pressure		Max / Min	bar	3 / 0,8	3 / 0,8	3 / 0,8
Empty weight			kg	28	32	30
Dimensions		WxHxD	mm	420x700x250	420x700x320	420x700x320
CODE (see page 3)				**0T3D2BWA**	**0T3D3AWA**	**0T2D5IWA**

DIVACONDENS D PLUS

CONDENSING WALL HUNG BOILER, INSTANT COMBI

- Forced flue boiler, with stainless steel **atmospheric burner**
- **Double exchanger: CH exchanger** plus **DHW stainless steel plates exchanger** fed by diverting valve
- **Flue gas heat recovery recuperator system**, for primary circuit pre-heating
- Ideal for serving **traditional heating systems**, high or mid-temperature type
- Liquid crystal display with back light for simple user operation
- Can be operated using the **modulating remote control** and **outdoor probe**
- Connection to **solar heating systems**: ready for domestic hot water production in combination with solar panel system

WATER SCHEME

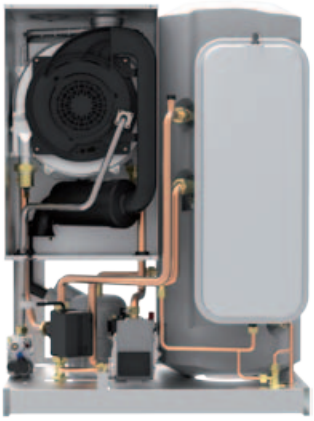


MODEL				24
Erp Class		(G - A++ Class)		B
	XL	(G - A Class)		A
Seasonal efficiency				87
Heat input		Min Max Heating	kW kW	10,0 25,0
Heat output	80°C - 60°C 50°C - 30°C	Min Max Heating Min Max Heating	kW kW kW kW	9,2 24,1 9,6 25,9
Efficiency	80°C - 60°C 50°C - 30°C 30% partial load		Pmax % Pmin % Pmax % Pmin % Pmax %	96,5 92,0 103,5 96,0 103,5
NOx emission			class	3
DHW production		Δt 25°C Δt 30°C	l/min l/min	14,0 11,6
Heating operating pressure		Max Min	bar bar	3 0,8
DHW operating pressure		Max	bar	9
Empty weight			kg	35
Dimensions		WxHxD	mm	400x700x330
CODE (see page 3)				**0CCR4YWA**

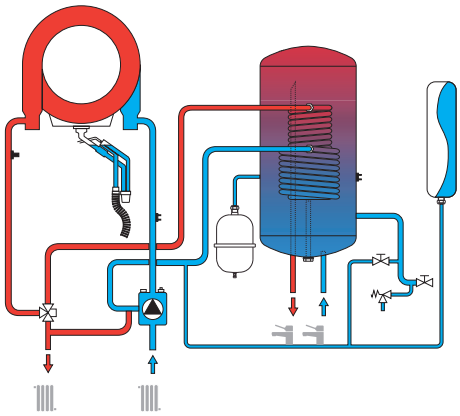
BLUEHELIX K 50

CONDENSING WALL-HUNG BOILER INCLUDING STAINLESS STEEL STORAGE TANK

- Primary exchanger in stainless steel
- Domestic hot water production through 50 liters storage tank in stainless steel, preset for recirculation connection
- Total premix burner in stainless steel
- **Modulating pump** for heating system and DHW tank loading
- Digital Control board with multifunction display interface
- Can be connected to the modulating remote control
- **Class 3 DHW comfort** according to EN 13203, emended by Reg. 812/2013
- **Flow temperature compensation** through optional outdoor probe reading
- Exchanger protection function, via Δt control
- **Legionella protection**, programmable
- Timed **antiseize** program for pump and 3-ways valve
- A+++ SYSTEM : in combination with Romeo remote control and the outdoor probe (range from G to A+++)



WATER SCHEME



MODEL				25 K 50	32 K 50
Erp Class		(G - A++ Class)		A	A
	XL	(G - A Class)		A	A
Seasonal efficiency				94	94
Heat input		Min	kW	5,8	6,7
		Max Heating	kW	25,0	29,5
		Max DHW	kW	27,5	32,0
Heat output	80°C - 60°C	Min	kW	5,7	6,6
		Max Heating	kW	24,5	28,9
		Max DHW	kW	27,0	32,0
	50°C - 30°C	Min	kW	6,2	7,2
		Max Heating	kW	26,5	31,3
Efficiency	80°C - 60°C		Pmax %	98,0	98,0
			Pmin %	97,8	97,8
	50°C - 30°C		Pmax %	106,1	106,1
			Pmin %	107,5	107,5
	30% partial load		Pmax %	108,8	108,8
Tank capacity			litres	50	50
DHW production		Δt 30°C	l/10 min	175	195
		Δt 30°C	l/h	820	945
Heating operating pressure		Max	bar	3	3
DHW operating pressure		Max	bar	9	9
Empty weight			kg	50	58
Dimensions		WxHxD	mm	600x800x590	600x800x590
CODE (see page 3)				**0TAX2AWA**	**0TAX3AWA**

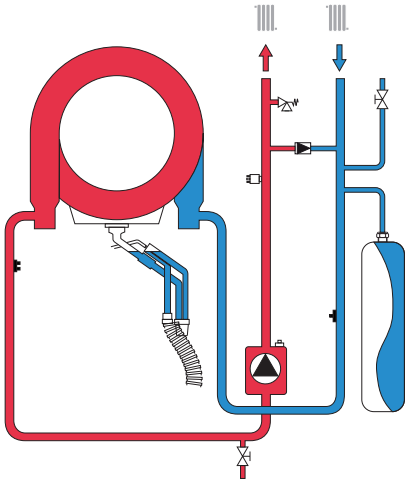
BLUEHELIX B

FLOOR STANDING GAS CONDENSING BOILER, HEATING ONLY

- Heating only generator, with possibility to pilot a free-standing DHW storage tank
- **Heating exchanger in stainless steel**, boasting considerable thickness
- Exchanger consisting in a unique large section coil, with no welding, nor joint
- Integrated combustion unit featuring premix assembly with silencer, fan, stainless steel burner
- **Modulating pump** with ΔT control, timed anti-seize system, electronic control of starting and pull-up torque
- Complete thermoacoustic insulation
- Can be combined to the **modulating remote control** and **outdoor probe**
- Concentric or twin pipe flues system, with possible right, left or back outlet
- Easily accessible water and gas connections: this **facilitates replacement of old generators**
- A+ SYSTEM : in combination with Romeo remote control and the outdoor probe (only for mod. 35) (range from G to A+++)

Control panel BLUEHELIX range

WATER SCHEME



ERP COMPLIANT | REMOTE | CLIMATIC | CLASS 6 | STAINLESS STEEL | MODULATING PUMP | ETAs 94% * | ANTIFROST

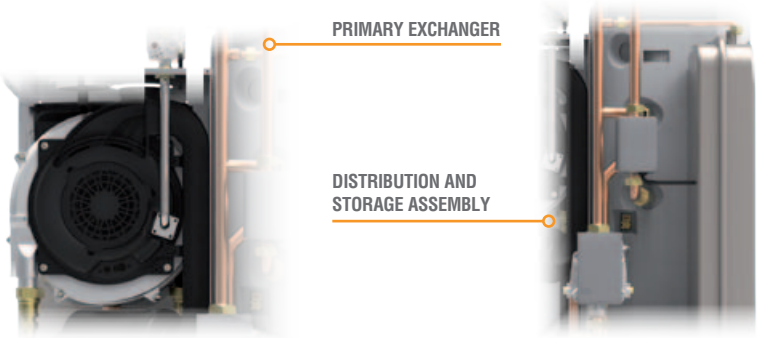
* Except mod. B 45 S

MODEL				B 35	B 45 S
Classe ERP		(G - A+++ Class)		A	A
Seasonal efficiency				94	93
Heat input		Min	kW	6,7	7,5
		Max Heating	kW	32,0	43,0
Heat output	80°C - 60°C	Min	kW	6,6	7,3
		Max Heating	kW	31,4	42,1
	50°C - 30°C	Min	kW	7,2	8,1
		Max Heating	kW	34,0	45,6
Efficiency	80°C - 60°C		Pmax %	98,0	98,0
			Pmin %	97,8	97,8
	50°C - 30°C		Pmax %	106,1	106,1
			Pmin %	107,5	107,5
	30% partial load		Pmax %	108,8	108,8
Heating operating pressure		Max	bar	3	3
Empty weight			kg	50	52
Dimensions		WxHxD	mm	400x850x595	400x850x600
CODE (see page 3)				**0TA03AWA**	**0TAD5AWA**

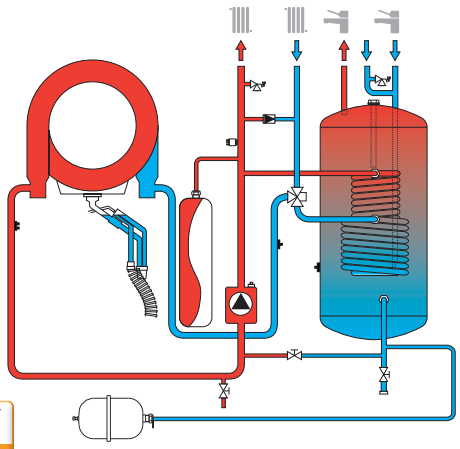
BLUEHELIX B K 50

FLOOR STANDING GAS CONDENSING BOILER INCLUDING STAINLESS STEEL STORAGE TANK

- Primary **exchanger in stainless steel**
- Domestic hot water production through **50 liters storage tank** in stainless steel, preset for recirculation connection
- Total premix burner in stainless steel
- **Modulating pump** for heating system and DHW tank loading
- Digital Control board with multifunction display interface
- Can be connected to the **modulating remote control**
- **Water and gas connection easily accessible**: this favours replacement of old generators
- **Flue gas outlet via twin or concentric pipes**: right / left / back outlet possible
- **Class 3 DHW comfort** according to EN 13203, emended by Reg. 812/2013
- **Flow temperature compensation** through optional outdoor probe reading
- Exchanger protection function, via Δt control
- **Legionella protection**, programmable
- Timed antiseize program for pump and 3-ways valve
- Antifrost protection down to -5°C
- A+ SYSTEM : in combination with Romeo remote control and the outdoor probe (range from G to A+++)



WATER SCHEME

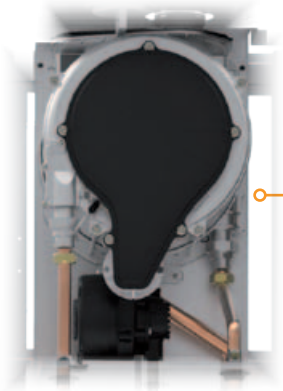


MODEL				B 32 K 50
Erp Class		(G - A++ Class)		A
	XXL	(G - A Class)		A
Seasonal efficiency				94
Heat input		Min	kW	6,7
		Max Heating	kW	29,5
		Max DHW	kW	32,0
Heat output	80°C - 60°C	Min	kW	6,6
		Max Heating	kW	28,9
		Max DHW	kW	31,4
	50°C - 30°C	Min	kW	7,2
		Max Heating	kW	31,3
Efficiency	80°C - 60°C		Pmax %	98,0
			Pmin %	97,8
	50°C - 30°C		Pmax %	106,1
			Pmin %	107,5
	30% partial load		Pmax %	108,8
Tank capacity			litres	50
DHW production		Δt 30°C	l/10 min	195
		Δt 30°C	l/h	945
Heating operating pressure		Max	bar	3
DHW operating pressure		Max	bar	9
Empty weight			kg	58
Dimensions		WxHxD	mm	600x850x595
CODE (see page 3)				**0TAS3AWA**

BLUEHELIX B S K 100

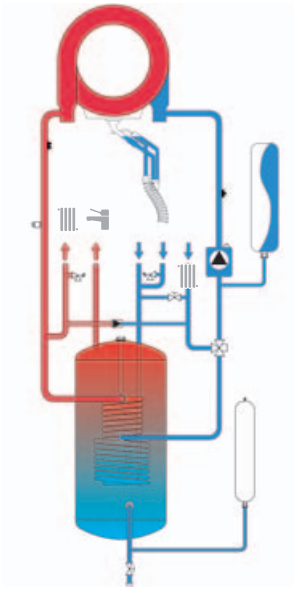
FLOOR STANDING GAS CONDENSING BOILER INCLUDING STAINLESS STEEL STORAGE TANK

- **Primary exchanger in stainless steel**
- Domestic hot water production through **100 liters storage tank in stainless steel**, preset for recirculation connection
- Total premix burner in stainless steel, boasting wide modulation range
- **Modulating pump**, PWM controlled, with electronic control of starting and pull-up torque
- Digital Control board with multifunction display interface
- Can be connected to the **modulating remote control**
- **Water and gas connection easily accessible:** this favours replacement of old generators
- Flow temperature compensation through optional outdoor probe reading
- Exchanger protection function, via Δt control
- **Legionella protection**, programmable
- Timed antiseize program for pump and 3-ways valve
- Antifrost protection down to -5°C
- A+ SYSTEM : in combination with Romeo remote control and the outdoor probe (range from G to A+++)



COMPACT PREMIX ASSEMBLY

WATER SCHEME



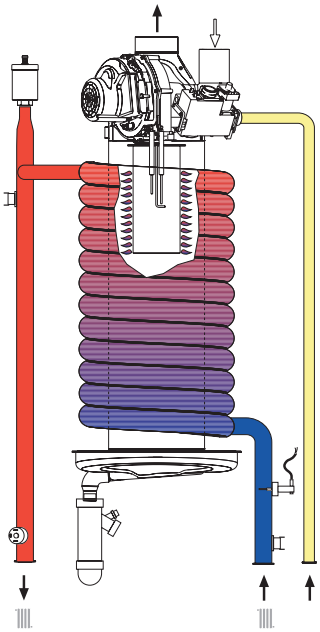
MODEL			B S 32 K 100
ERP Class		(G - A+++ Class)	A
	XXL	(G - A Class)	A
Seasonal efficiency			94
Heat input	Max / Min Heating Max / Min DHW	kW kW	29,5 / 6,7 32,0 / 6,7
Heat output 80°C-60°C 50°C-30°C	Max / Min Heating Max / Min Heating Max / Min DHW	kW kW kW	28,9 / 6,6 31,3 / 7,2 31,4 / 6,6
Tank capacity		litri	100
DHW production	Δt 30°C Δt 30°C	l/10min l/h	270 1000
Operating pressure	Max Heating / DHW Min Heating / DHW	bar bar	6 / 9 0,8 / 0,3
Empty weight		kg	86
Dimensions	WxHxD	mm	500x1500x535
CODE (see page 3)			**0TAV3PWA**

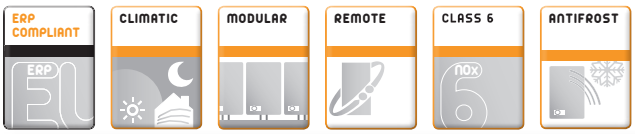
ENERGY TOP W

WALL-HUNG COMMERCIAL CONDENSING BOILER, HEATING ONLY, READY FOR CASCADE SYSTEMS

- **Aluminium boiler body** with dual function of heat exchanger and condenser, with **low pressure drop** and high efficiency. Low water content type boiler. Low inertia and high reactiveness
- Cylindrical micro-flame burner, vertical configuration, reverse flame
- The **Master/Slave** function on the electronic board manages the **cascading** operation of the modules with extreme simplicity, without requiring additional controllers
- Complete monitoring of circuit temperatures through double probe on flow and return pipes
- Can be hung-up on the wall or on self-supporting frames
- Wide availability of **accessories for modular operation** (hydraulic manifold, flue collective pipes, pump sets...)

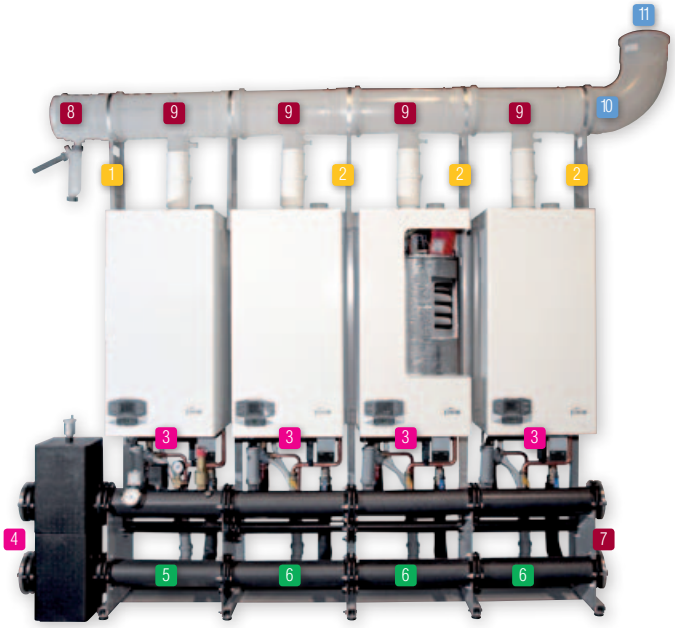
WATER SCHEME





MODEL				W 60	W 80	W 125
ERP Class		(G - A++ Class)		A	ENERGY-LABELLING NOT RELEVANT	
Seasonal efficiency				93	93	93
Heat input		Max Heating	kW	58,0	75,0	116,0
Heat output	80°C - 60°C	Min	kW	16,7	16,7	24,6
		Max Heating	kW	56,8	73,5	113,7
	50°C - 30°C	Min	kW	18,3	18,3	26,9
		Max Heating	kW	61,5	79,5	123
Efficiency	80°C - 60°C		Pmax %	98,0	98,0	98,0
			Pmin %	98,5	98,5	98,5
	50°C - 30°C		Pmax %	106,0	106,0	106,0
			Pmin %	107,5	107,5	107,5
	30% partial load		Pmax%	109,0	109,0	109,0
Heating operating pressure		Max	bar	6	6	6
Empty weight			kg	46	46	51
Dimensions		WxHxD	mm	445x900x430	445x900x430	445x900x430
CODE (see page 3)				**0M6O9IWA**	**0M6OBIWA**	**0M6OEIWA**

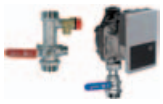
ACCESSORIES FOR CASCADE

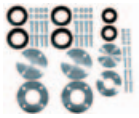


1 *code 042031X0*
2 *code 042032X0*
3 *code 042048X0*
4 *code 042030X0*
5 *code 042028X0*
6 *code 042029X0*
7 *code 042033X0*
8 *code 041026X0*
9 *code 041028X0*
10 *code 041060X0*
11 *code 041062X0*

POSSIBLE MODULAR LAYOUT

OUTPUT	BOILERS IN CASCADE			
kW	MOD. 1	MOD. 2	MOD. 3	MOD. 4
56,8	60	/	/	/
73,5	80	/	/	/
113,7	125	/	/	/
113,7	60	60	/	/
130,3	80	60	/	/
113,7	80	80	/	/
170,5	125	60	/	/
187,2	80	125	/	/
220,5	80	80	80	/
227,4	125	125	/	/
260,7	125	80	80	/
277,3	80	80	60	/
294	80	80	80	80
300,9	125	125	80	/
317,5	125	80	80	60
334,2	125	80	80	80
341,1	125	125	125	/
374,4	125	125	80	80
414,6	125	125	125	80
454,8	125	125	125	125

DESCRIPTION		CODE
	**Basic** kit self-supporting frame for first boiler of the cascade, complete with support brackets	042031X0
	Self-supporting frame **extension** kit for individual boiler (after the first one in the cascade), complete with support brackets	042032X0
	Water kit for single boiler, including on-off valves and **high-efficiency modulating pump (CLASS A)**	042048X0
	Hydraulic separator	042030X0
	**Basic** water manifold for first boiler in the cascade, DN65 (2" 1/2) with safety devices (excluding safety valve and gas on/off valve) and gas manifold, DN40 (1" 1/2)	042028X0

DESCRIPTION		CODE
	Water manifold extension kit for individual boiler (after the first one in the cascade), DN65 (2" 1/2) and gas manifold, DN40 (1" 1/2)	042029X0
	Flange kit, containing: 3 blind flanges, 3 drilled flanges, gaskets (one kit for each cascade)	042033X0
	Condensate drain trap complete with fastening brackets, ø 200 mm	041026X0
	Grey PPs flue gas manifold kit (L=600mm - ø 200 mm) for "side-by-side" modular installation, complete with clapet valves, vertical connections, gaskets and brackets	041028X0
	1 mt PPs extension, ø 200 mm MF	041062X0
	90° PPs bend, ø 200 mm MF	041060X0

Individual evacuation flues, diameter 80 mm, can be directly inserted in the boiler's flues stack, with interposition of gasket 1KWMA84A.
For regular accessories (outdoor probe, flues for individual installation, controllers) please check respective accessories section.

ENERGY TOP B

FLOOR STANDING CONDENSING VERTICAL MODULE, READY FOR CASCADE SYSTEMS. ALSO FOR OUTDOOR INSTALLATION UNTIL -10°C

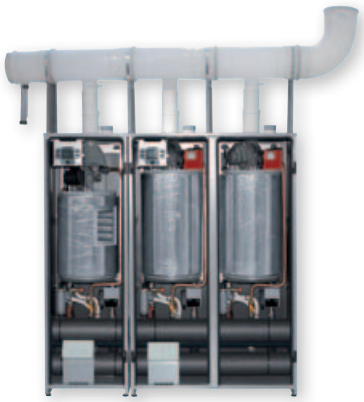
DOUBLE CABINET
(B160 - B250)

SINGLE CABINET
(B80 - B125)

- Modular insulated painted cabinet structure (IPX5D), vertical layout with **double or single combustion unit**
- **Aluminium finned spiral tube** boiler body with dual function of heat exchanger and condenser, boasting **low pressure drop** and high efficiency. Low water content type boiler. Low inertia and high reactiveness
- Electronic board with microprocessor ready for **Master/Slave cascading** connection
- Module complete with insulated system flow and return **manifolds** (DN 100), pump and gas piping (DN65)
- Possible modular layout "**side-by-side**" or "**back-to-back**", in order to satisfy different installation requirements of the cascade in the boiler room, with easy connection of the collective hydraulic manifolds of the modules
- Maximum configuration: **5 Energy Top 250.** Operational range from a minimum output of 24,6 kW to a maximum of **1.137 kW** (80/60°C), thus offering an incredible flexibility
- Possibility to manage an additional sensor on flow manifold or after hydraulic separator
- **Range-rated certified:** possibility to adapt max output to the real heating needs of the building

MODULAR LAYOUTS WITH FLUES MANIFOLDS

BACK-TO-BACK *



SIDE-BY-SIDE

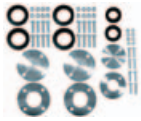
MODEL				B 80	B 125	B 160	B 250
Seasonal efficiency				93	93	93	93
Heat input		Max Heating	kW	75,0	116,0	150,0	232,0
Heat output	80°C - 60°C	Min	kW	16,7	24,6	16,7	24,6
		Max Heating	kW	73,5	113,7	147,0	227,4
	50°C - 30°C	Min	kW	18,3	26,9	18,3	26,9
		Max Heating	kW	79,5	123	159	246
Efficiency	80°C - 60°C		Pmax %	98,0	98,0	98,0	98,0
			Pmin %	98,5	98,5	98,5	98,5
	50°C - 30°C		Pmax %	106,0	106,0	106,0	106,0
			Pmin %	107,5	107,5	107,5	107,5
	30% partial load		Pmax%	109,0	109,0	109,0	109,0
Heating operating pressure		Max	bar	6	6	6	6
Empty weight			kg	110	115	190	210
Dimensions		WxHxD	mm	500x1700x450	500x1700x450	100x1700x450	100x1700x450
CODE (see page 3)				**0M60BAWA**	**0M60EAWA**	**0M60GAWA**	**0M60KAWA**

* Curves for water manifold in "back to back" layout not supplied

POSSIBLE MODULAR LAYOUT

HEAT INPUT kW	HEAT OUTPUT (kW)		MODULES qty	SIDE-BY-SIDE CLEARANCE W x D (mm)	BACK-TO-BACK CLEARANCE W x D (mm)	MODULES QTY					FLUES DIAMETER mm
	80/60°C	50/30°C				1	2	3	4	5	
75	73,5	79,5	1	500 x 450	-	80	-	-	-	-	-
116	113,7	123,0	1	500 x 450	-	125	-	-	-	-	-
150	147,0	159,0	1	1000 x 450	-	160	-	-	-	-	200
191	187,2	202,5	2	1000 x 450	500 x 900	80	125	-	-	-	200
232	227,4	246,0	1	1000 x 450	-	250	-	-	-	-	200
266	260,7	282,0	2	1500 x 450	1000 x 900	125	160	-	-	-	200
307	300,9	325,5	2	1500 x 450	1000 x 900	80	250	-	-	-	200
348	341,1	369,0	2	1500 x 450	1000 x 900	125	250	-	-	-	200
382	374,4	405,0	2	2000 x 450	1000 x 900	160	250	-	-	-	200
416	407,7	441,0	3	2500 x 450	1500 x 900	125	160	160	-	-	200
464	454,8	492,0	2	2000 x 450	1000 x 900	250	250	-	-	-	200
498	488,1	528,0	3	2500 x 450	1500 x 900	125	160	250	-	-	300
539	528,3	571,5	3	2500 x 450	1500 x 900	80	250	250	-	-	300
580	568,5	615,0	3	2500 x 450	1500 x 900	125	250	250	-	-	300
614	601,8	651,0	3	3000 x 450	2000 x 900	160	250	250	-	-	300
696	682,2	738,0	3	3000 x 450	2000 x 900	250	250	250	-	-	300
730	715,5	774,0	4	3500 x 450	2000 x 900	125	160	250	250	-	300
771	755,7	817,5	4	3500 x 450	2000 x 900	80	250	250	250	-	300
812	795,9	861,0	4	3500 x 450	2000 x 900	125	250	250	250	-	300
846	829,2	897,0	4	4000 x 450	2000 x 900	160	250	250	250	-	300
928	909,6	984,0	4	4000 x 450	2000 x 900	250	250	250	250	-	300
1003	983,1	1063,5	5	4500 x 450	2500 x 900	250	250	250	250	80	300
1044	1023,3	1107,0	5	4500 x 450	2500 x 900	250	250	250	250	125	300
1078	1056,6	1143,0	5	5000 x 450	3000 x 900	250	250	250	250	160	300
1160	1137,0	1230,0	5	5000 x 450	3000 x 900	250	250	250	250	250	300

SPECIFIC ACCESSORIES

DESCRIPTION			CODE
	flange kit, containing: 3 blind flanges, 3 drilled flanges, gaskets PS. To be used on individual modules or one for each cascade system		042027X0
	Cabinet complete with hydraulic separator and safety devices (excluding safety valve) and gas on/off valve		0M600MX0
	Condensate drain trap kit for flue gas manifolds complete with fastening brackets PS. Use one for each cascade system	ø 200	041026X0
		ø 300	041027X0
	Flue gas manifold kit, grey PPs (L=600mm) for "side-by-side" cascading configurations complete with clapet valves, vertical connection, gaskets and brackets. PS. To be used on each stack (each furnace)	ø 200	041028X0
		ø 300	041029X0

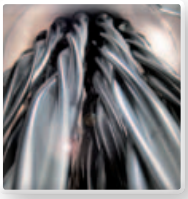
DESCRIPTION			CODE
	MF 90° bend, PPs	ø 200	041060X0
		ø 300	041035X0
	1m MF manifold extension pipe, PPs	ø 200	041062X0
		ø 300	041036X0
	terminal pipe for individual vertical flues outlet, including test point	ø 80	041013X0
	Flue gas manifold kit, grey PPs (L=600mm), double connection for "back-to-back" cascading configurations, complete with bends, clapet valves, vertical connections, gaskets and brackets PS. To be used per each pair of flues outlets (each pair of furnace) installed in back-to-back layout	ø 200	041030X0
		ø 300	041031X0

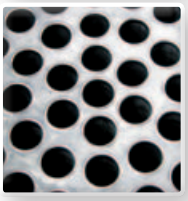
Water connection bends (for back-to-back cascading) not available.
The generator is B23 type. 80 mm individual evacuation flues can be inserted directly on flues stack.
For regular accessories (outdoor probe, flues for individual installation, controllers) please check respective accessories section.

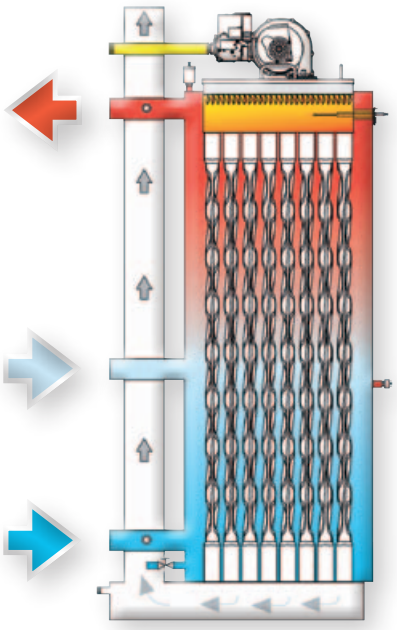
QUADRIFOGLIO B

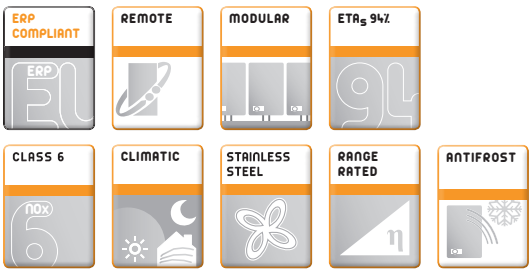
STAINLESS STEEL CONDENSING GENERATOR

- **Steel vertical module** with low thermal load, huge water content.
- The **exchanger in stainless steel** consists in a tubes bundle. The helical rolling section is patented and has been designed to enhance thermal exchange and fumes condensation.
- Premixed microflame burner, Low NOx combustion, vertical layout. **The reduced vertical clearance** enables water/flue gas exchange throughout the entire surface of the exchanger. Quick opening system of combustion chamber door (right/left reversible) for inspection and maintenance operations.
- **Control board** with button for regulation and setting of parameters, wide interface display and ON/OFF switch
- Pocket on boiler flow, for the eventual installation of a safety valve.
- Equipped with temperature probes on flow and return and water minimum pressure switch.
- **Flue gas outlet reversible on right or left side** of the generator.
- **Flue gas no-return** system for modular installation. As a standard on each boiler.
- Range rated certified boiler: adaption of boiler max heating output to real max load, thus keeping high operational efficiency
- Wide and complete offer of **water, gas and flues accessories** - necessary for the installation of cascades including 2 or 3 generators.
- A+ SYSTEM : in combination with Romeo remote control and the outdoor probe (mod. 70) (range from G to A+++)





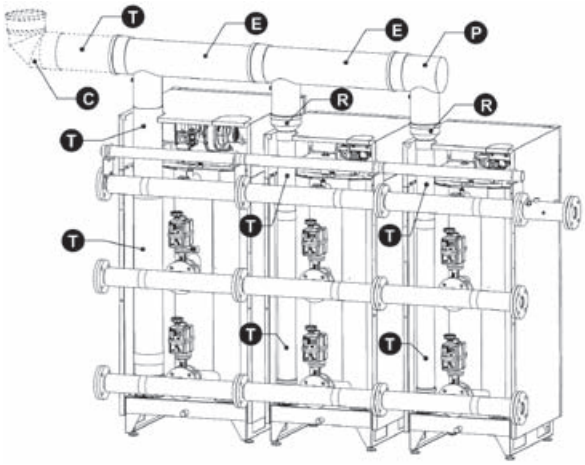




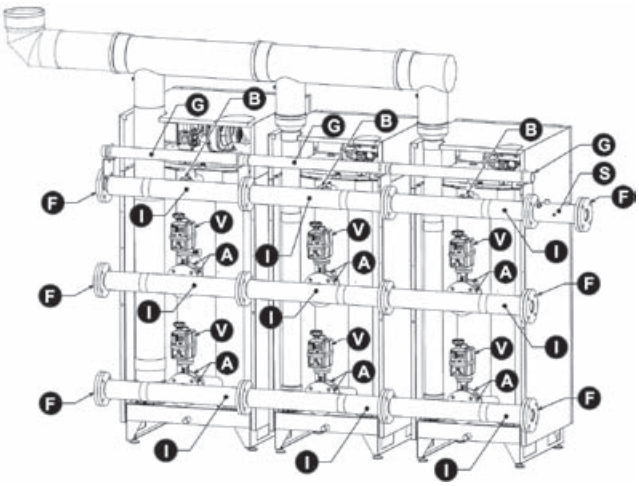
MODEL				70	125	220	320
Erp Class		(G - A+++ Class)		A	ENERGY-LABELLING NOT RELEVANT		
Seasonal efficiency				94	94	94	94
Heat input		Max Min	kW kW	65,5 14,0	116,0 23,0	207,0 41,0	299,0 62,0
Heat output	80°C - 60°C 80°C - 60°C 50°C - 30°C 50°C - 30°C	Min Max Min Max	kW kW kW kW	13,7 64,4 15,0 69,9	22,5 114,0 24,8 125,0	40,2 204,0 44,2 220,0	60,8 294,5 66,8 320,0
Efficiency	80°C - 60°C 80°C - 60°C 50°C - 30°C 50°C - 30°C 30% partial load		Pmax % Pmin % Pmax % Pmin % %	98,3 98,0 106,8 107,7 109,6	98,3 98,0 106,8 107,7 109,6	98,5 98,0 106,8 107,7 109,6	98,5 98,0 106,8 107,7 109,6
Water content			litres	160	265	380	530
Operating pressure		Min / Max	bar	0,8 / 6	0,8 / 6	0,8 / 6	0,8 / 6
Empty weight			kg	180	280	400	500
Return connection				1" 1/4	1" 1/4	2"	DN 65
Stack connection		Ø	mm	80	100	160	200
Dimensions		WxHxD	mm	540x1760x600	660x1760x600	780x1820x600	900x1820x600
CODE (see page 3)				**0RB020WA**	**0RB120WA**	**0RB420WA**	**0RB620WA**

CASCADING MANIFOLD LAYOUT

Flues manifold, top outlet *



Water and gas manifold

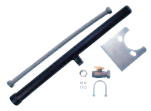


* Flue gas evacuation can occur also at stack's height (mid outlet) or above return manifold (bottom outlet)

DESCRIPTION OF CASCADE ACCESSORIES/COMPONENTS

A Adaptor for connection of motorized valve
B Adaptor connections boiler/manifold
C 90° bend, PPs, with gaskets
E Flues manifold, PPs, including gaskets
F Flange for manifold (one blind flange, a drilled one, including gaskets, screws, nuts)
G Gas manifold, including ON/OFF valve, flexible hose, gaskets, screws, nuts
I Water manifold, including gaskets, screws, nuts
P One side-blind flues manifold, including condensate siphon
R Reduction for connection top flues manifold/vertical flue pipe
S Manifold for lodging of additional optional safety devices (according to Italian INAIL rules)
T Vertical pipe for connection from stack to top flues manifold
V Motorised ON/OFF valve

ACCESSORIES FOR INDIVIDUAL OR MODULAR INSTALLATION

DESCRIPTION			CODE
	Motorized valve, DN 50, 230 V - 50 Hz, **for model 70 and 125**		052000X0
	Motorized valve, DN 50, 230 V - 50 Hz, **for model 220 and 320**		052001X0
	Gas manifold	1' 1/4	042050X0
		2'	042051X0
		2' 1/2	042052X0
	Water manifold	2'	042053X0
		2' 1/2	042054X0
		4'	042055X0
	Manifold for lodging of additional safety devices	2'	042056X0
		2' 1/2	042057X0
		4'	042058X0
	Flange kit (including nuts, bolts and gaskets)	2'	042059X0
		2' 1/2	042060X0
		4'	042061X0
	F-F coupling	1' 1/4	042062X0
		2'	042063X0
	M-F reduction nipple	2' - 1'1/2	042064X0
	Flange - connection	DN50 - 1'1/4	042065X0
		DN65 - 2'	042066X0

DESCRIPTION			CODE
	Terminal for flues manifold	* 160 mm	041066X0
		* 200 mm	041068X0
		* 300 mm	041070X0
	Flues manifold	* 160 mm	041067X0
		* 200 mm	041069X0
		* 300 mm	041071X0
	M/F flue gas pipe, PPs, 0,5 mt length	100 mm	041072X0
		160 mm	041074X0
		200 mm	041076X0
	M/F flue gas pipe, PPs, 1 mt length	80 mm	1KWMA83W
		100 mm	041073X0
		160 mm	041018X0
		200 mm	041062X0
		300 mm	041063X0
	90° M/F bend, PPs	80 mm	1KWMA01W
		100mm	041077X0
		160 mm	041015X0
		200 mm	041060X0
		300 mm	041061X0
	M/F reduction, PPs	80-100 mm	041078X0
		100-160 mm	041079X0
		160-200 mm	041080X0

For regular accessories (probes, controllers...) please check respective accessories section.
* Stated diameters refer to the horizontal, collective side of the manifold. Lower connections to vertical pipe from the individual boiler stack, feature reduced diameter: 100 mm for manifold diam. 160, 160 mm for diam 200, 200 mm for diam 300

WATER AND GAS ACCESSORIES MATCHING

					G	G	G	I	I	I	S	S	S	F	F	F	B	B	A	A	A	V	V
					1"1/2 gas manifold + flex 1"	2" gas manifold + flex 1"	2" 1/2 gas manifold + flex 1"	DN50 - 2" water manifold	DN65 - 2" water manifold	DN100 - DN65 water manifold	2" safety accessories manifold	2"1/2 safety accessories manifold	4" safety accessories manifold	DN50 flange kit	DN65 flange kit	DN100 flange kit	F-F coupling 1"1/4	F-F coupling 2"	2"-1"1/2 M-F reduction nipples	DN50 flange - 1"1/4 connection	DN65 flange - 2" connection	DN50 valve	DN65 valve
																								
HEAT INPUT kW	MODULES QUADRIFOGLIO B			MANIFOLD	042050X0	042051X0	042052X0	042053X0	042054X0	042055X0	042056X0	042057X0	042058X0	042059X0	042060X0	042061X0	042062X0	042063X0	042064X0	042065X0	042066X0	052000X0	052001X0
					nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.
131,0	70	70	-	Gas	2																		
				Flow				2			1			1			2						
				Return				2						1						4		2	
181,5	70	125	-	Gas	2																		
				Flow				2			1			1			2						
				Return				2						1						4		2	
232,0	125	125	-	Gas	2																		
				Flow				2			1			1			2						
				Return				2						1						4		2	
247,0	70	70	125	Gas	3																		
				Flow				3			1			1			3						
				Return				3						1						6		3	
297,0	70	125	125	Gas	3																		
				Flow				3			1			1			3						
				Return				3						1						6		3	
323,0	125	220	-	Gas		2																	
				Flow					2			1			1			2	1				
				Return					2						1				1		4		2
348,0	125	125	125	Gas		3																	
				Flow					3			1			1			3	3				
				Return					3						1				3		6		3
414,0	220	220	-	Gas		2																	
				Flow					2			1			1			2					
				Return					2						1						4		2
439,0	125	125	220	Gas		3																	
				Flow					3			1			1			3	2				
				Return					3						1				2		6		3
506,0	220	320	-	Gas			2								1								
				Flow						2			1			1					1		
				Return						2						1					1		2
530,0	125	220	220	Gas		3																	
				Flow					3			1			1			3	1				
				Return					3						1				1		6		3
598,0	320	320	-	Gas			2								1								
				Flow						2			1			1							
				Return						2						1							2
621,0	220	220	220	Gas			3								1								
				Flow						3			1			1					3		
				Return						3						1					3		3
713,0	320	220	220	Gas			3								1								
				Flow						3			1			1					2		
				Return						3						1					2		3
818,0	320	320	220	Gas			3								1								
				Flow						3			1			1					1		
				Return						3						1					1		3
897,0	320	320	320	Gas			3								1								
				Flow						3			1			1							
				Return						3						1							3

The specified quantities refer to a single system return. In case both return connection on the boiler are used (low and mid temperature) you need to double up return manifold quantity and corresponding values. Also motorised valves may be doubled. Output contact from generator is however unique

FLUES MANIFOLD MATCHING

					P	P	P	E	E	E	T	T	T	T	T	T	T	C	C	C	C	R	R	R
					Ø 300 flue manifold (first boiler)	Ø 200 flue manifold (first boiler)	Ø 160 flue manifold (first boiler)	Ø 300 flue manifold (additional boiler)	Ø 200 flue manifold (additional boiler)	Ø 160 flue manifold (additional boiler)	1 mt MF pipe, Ø 300, PPs	1 mt MF pipe, Ø 200, PPs	0,5 mt MF pipe, Ø 200, PPs	1 mt MF pipe, Ø 160, PPs	0,5 mt MF pipe, Ø 160, PPs	1 mt MF pipe, Ø 100, PPs	0,5 mt MF pipe, Ø 100, PPs	90° MF bend, Ø 300	90° MF bend, Ø 200, PPs	90° MF bend, Ø 160, PPs	90° MF bend, Ø 100, PPs	Ø 160 - 200 MF reduction, PPs	Ø 100 - 160 MF reduction, PPs	Ø 80 - 100 MF reduction, PPs
																									
HEAT INPUT kW	MODULES QUADRIFOGLIO B			FLUE GAS EVACUATION	041070X0	041068X0	041066X0	041071X0	041069X0	041067X0	041063X0	041062X0	041076X0	041018X0	041074X0	041073X0	041072X0	041061X0	041060X0	041015X0	041077X0	041080X0	041079X0	041078X0
					nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.	nr.
131,0	70	70	-	Low			1			1											2			2
				Medium			1			1						2	2				2			2
				High			1			1						2	2							2
181,5	70	125	-	Low			1			1											2			1
				Medium			1			1						2	2				2			1
				High			1			1						2	2							1
232,0	125	125	-	Low			1			1											2			
				Medium			1			1						2	2				2			
				High			1			1						2	2							
247,0	70	70	125	Low			1			2											3			2
				Medium			1			2						3	3				3			2
				High			1			2						3	3							2
297,0	70	125	125	Low			1			2											3			1
				Medium			1			2						3	3				3			1
				High			1			2						3	3							1
323,0	125	220	-	Low		1			1											2			1	
				Medium		1			1					1	2	1	1			2			1	
				High		1			1					1	2	1	1						1	
348,0	125	125	125	Low		1			2											3			3	
				Medium		1			2							3	3			3			3	
				High		1			2							3	3						3	
414,0	220	220	-	Low		1			1											2				
				Medium		1			1					2	2					2				
				High		1			1					2	2									
439,0	125	125	220	Low		1			2						1					3			2	
				Medium		1			2					1	2	2	2			3			2	
				High		1			2					1	2	2	2						2	
506,0	220	320	-	Low	1			1											2			1		
				Medium	1			1				1	1		3				2			1		
				High	1			1				1	1		3							1		
530,0	125	220	220	Low		1			2						2					3			1	
				Medium		1			2					2	4	1	1			3			1	
				High		1			2					2	4	1	1						1	
598,0	320	320	-	Low	1			1											2					
				Medium	1			1				2	2						2					
				High	1			1				2	2											
621,0	220	220	220	Low	1			2											3			3		
				Medium	1			2							9				3			3		
				High	1			2							9							3		
713,0	320	220	220	Low	1			2											3			2		
				Medium	1			2				1	1		6				3			2		
				High	1			2				1	1		6							2		
818,0	320	320	220	Low	1			2											3			1		
				Medium	1			2				2	2		3				3			1		
				High	1			2				2	2		3							1		
897,0	320	320	320	Low	1			2											3					
				Medium	1			2				3	3						3					
				High	1			2				3	3											

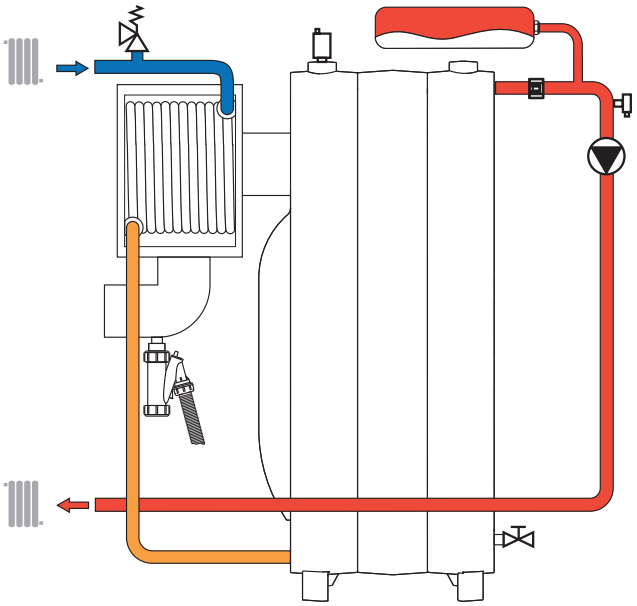
ATLAS D CONDENS UNIT

CAST-IRON OIL CONDENSING BOILER, HEATING ONLY

- G20 cast-iron boiler body with three pass flues sections and cooled combustion chamber
- **Stainless steel AISI 904L post-condenser** on flues outlet
- Easy, quick and complete access to the recouperator for cleaning operations
- Management of optional external storage cylinder with legionella protection
- High efficiency class A heating circulator. Can be set on a pre-fixed speed (3 modes) or on variable speed mode, self-adapting its pressure head
- Includes expansion tank, 3 bar safety valve and water pressure switch
- Complete with Ferroli **SUN G** oil burner (pre-assembled and pre-set)
- Convertible to sealed room type through optional kit
- **System temperature compensation** based on outside probe reading (optional)
- Button controls and **LCD** interface
- Can be used with **remote control** (optional)
- Frost protection system

MONOTHERMIC POST-CONDENSER

WATER SCHEME



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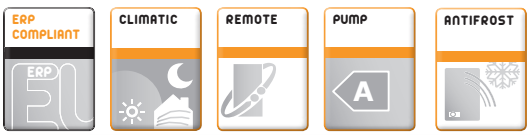


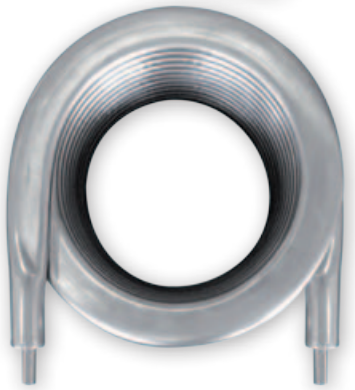
* Provided introduction in the market (eg invoicing) occurs before 26.09.2018

MODEL				32	42
Erp Class		(G - A+++ Class)		A	A
Seasonal efficiency				91	91
Heat input		Max Heating	kW	33,0	43,5
		Min	kW	16,3	30,9
Heat output	80°C - 60°C	Max Heating	kW	32,0	42,0
		Min	kW	16,0	30,0
	50°C - 30°C	Max Heating	kW	33,8	44,5
		Min	kW	17,0	31,7
Efficiency	80°C - 60°C		Pmax %	97,0	96,5
			Pmix %	97,9	97,2
	50°C - 30°C		Pmax%	102,6	102,2
			Pmix %	103,9	102,8
	30% partial load		%	103,5	102,5
Heating operating pressure		Max	bar	3	3
Empty weight			kg	177	216
Dimensions		WxHxD	mm	500x850x830	500x850x930
CODE (see page 3)				**0JHW3PWA**	**0JHW4PWA**

ATLAS D CONDENS SI UNIT

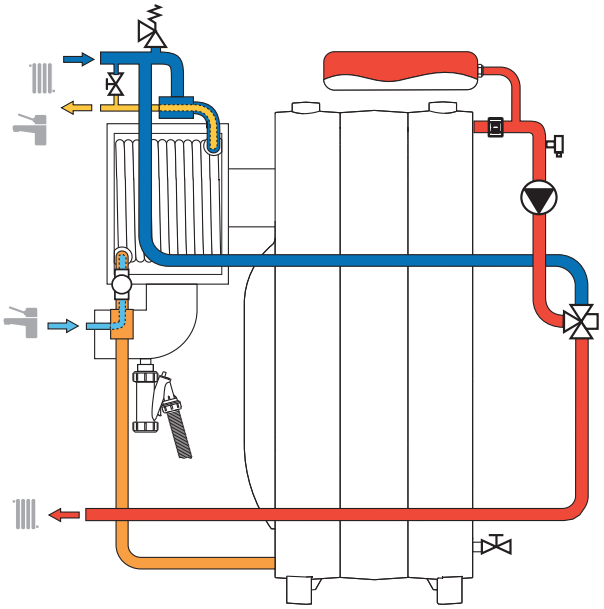
CAST-IRON OIL CONDENSING BOILER WITH INSTANT DOMESTIC HOT WATER PRODUCTION

- G20 cast-iron boiler body with three pass flues sections and cooled combustion chamber
- **Stainless steel AISI 904L post-condenser** on flues outlet, featuring pipe-in-pipe construction
- **Tap water is heated in a coil dipped into the condenser**, resulting in a fast DHW production and top performances in condensation operation.
- Easy, quick and complete access to the recouperator for cleaning operations
- High efficiency class A heating circulator. Can be set on a pre-fixed speed (3 modes) or on variable speed mode. This latter setting will have pressure head increased correspondingly to the flow, enhancing energy economies
- Includes pump with diverting valve, expansion tank, 3 bar safety valve, water pressure switch and filling cock
- Complete with Ferroli **SUN G** oil burner (pre-assembled and pre-set)
- Convertible to sealed room type through optional kit
- **System temperature compensation** based on outside probe reading (optional)
- Button controls and **LCD** interface
- Can be used with **remote control** (optional)
- Frost protection system



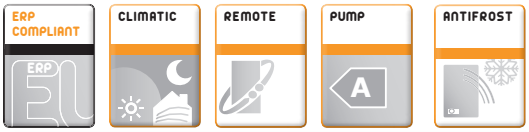
BITHERMIC POST-CONDENSER

WATER SCHEME



FULL CONDENSATION (Heating + DHW)

*



* Provided introduction in the market (eg invoicing) occurs before 26.09.2018

MODEL				32
Erp Class		(G - A++ Class)		A
	XL	(G - A Class)		A
Seasonal efficiency				91
Heat input		Max Heating Min	kW kW	33,0 16,3
Heat output	80°C - 60°C 50°C - 30°C	Max Heating Min Max Heating Min	kW kW kW kW	32,0 16,0 33,8 17,0
Efficiency	80°C - 60°C 50°C - 30°C 30% partial load		Pmax % Pmin % Pmax % Pmin % Pmax%	97,0 97,9 102,6 103,9 103,5
DHW production		Δt 25°C	l/min	18,9
Heating operating pressure		Max	bar	3
Empty weight			kg	180
Dimensions		WxHxD	mm	500x850x830
CODE (see page 3)				**0LHW3PWA**

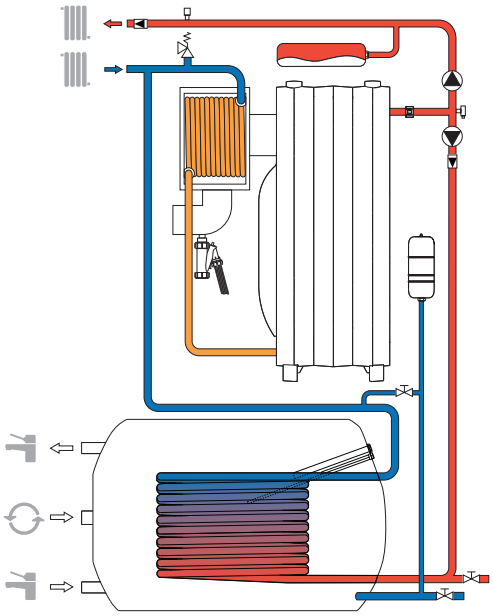
ATLAS D CONDENS K UNIT

CAST-IRON OIL CONDENSING BOILER, STORAGE COMBI

- G20 cast-iron boiler body with three pass flues sections, with cooled combustion chamber
- **Stainless steel AISI 904L post-condenser** on flues outlet, supporting heating and DHW circuits
- Top **condensation** performances both in central **heating and DHW** operation.
- Easy, quick and complete access to the recouperator for cleaning operations
- **Enamelled 130 liters DHW storage tank**, equipped with recirculation connections
- **Eco/Comfort mode:** Eco selection disables heating of storage tank. If Romeo remote control is connected, the function can be planned
- Includes CH and DHW high efficiency class A pumps and expansion tank, safety valves, water pressure switch; filling valve to be assembled
- Complete with Ferroli **SUN G** oil burner (pre-assembled and pre-set)
- Convertible to sealed room type through optional kit
- **System temperature compensation** based on outside probe reading (optional)
- Button controls and **LCD** interface
- Can be used with **remote control** (optional)
- Frost protection system

MONOTHERMIC POST-CONDENSER, WORKING FOR CH AND DHW

WATER SCHEME



FULL CONDENSATION (Heating + DHW)

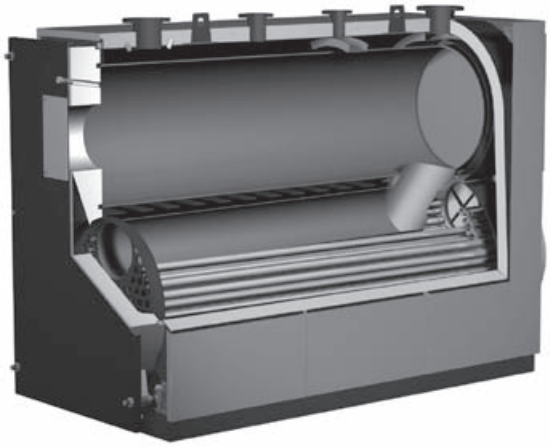
* Provided introduction in the market (eg invoicing) occurs before 26.09.2018

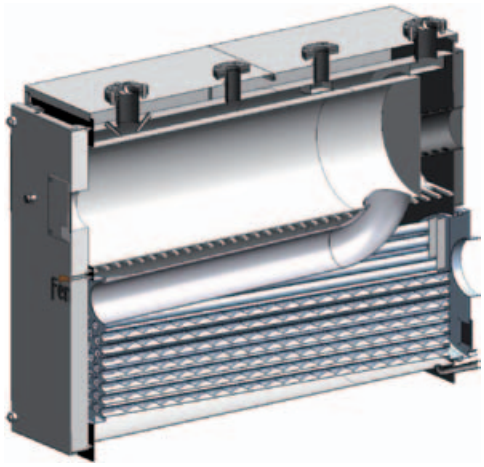
MODEL				32 K 130
Erp Class		(G - A++ Class)		A
	XXL	(G - A Class)		A
Seasonal efficiency				91
Heat input		Max Heating Min	kW kW	33,0 16,3
Heat output	80°C - 60°C 50°C - 30°C	Max Heating Min Max Heating Min	kW kW kW kW	32,0 16,0 33,8 17,0
Efficiency	80°C - 60°C 50°C - 30°C 30%		Pmax % Pmin % Pmax % Pmin % %	97,0 97,9 102,6 103,9 103,5
DHW production		Δt 30°C Δt 30°C	l/h l/10 min	850 250
Heating operating pressure		Max	bar	3
Empty weight			kg	250
Dimensions		WxHxD	mm	500x1350x950
CODE (see page 3)				**0LHX3PWA**

TP3 COND

THREE PASS CONDENSING GENERATOR, FOR OIL AND GAS

- High water content condensing generator. To be coupled with jet burner for **liquid or gas fuel**
- **3-pass flues design.** Second pass constituted by large pipe collecting fumes from back of the furnace. Third pass as a pipe bundle. Both in stainless steel **AISI 2205** (duplex)
- Floating combustion chamber with cooled end plate, small volumetric heating load
- Turbulators on last flues pass
- Front door including blind burner flange. **Reversible opening** (right/left), regulation on 4 adjustable positions
- **Double return** connection for low and high temperature systems
- Reduced front clearance: **easy access** to boiler room
- Flow inside the body is guided in order to improve thermal exchange and avoid thermal shocks





ERP COMPLIANT

MANDATORY OPTION see page **28**

Thermostatic control panel 0Q2K09XA

MODEL			65	100	150	230	370	500	650
ERP class			A	ENERGY-LABELLING NOT RELEVANT					
Thermal input power (kW)		Max	61,3	94,3	141,5	217	349,1	471,7	613,2
		Min	18,4	28,3	42,5	65,1	104,7	141,5	184
Thermal output power (80/60°C) (kW)		Max	59,5	91,5	137,3	210,5	338,6	457,5	594,8
		Min	18	27,7	41,6	63,8	102,6	138,7	180,3
Thermal output power (50/30°C) (kW)	Gas	Max	65	100	150	230	370	500	650
		Min	19,7	30,3	45,4	69,7	112	151,4	196,8
	Oil	Max	62,9	96,7	145	222,4	357,8	483,5	628,5
		Min	19,1	29,4	44,2	67,7	108,9	147,2	191,3
Efficency (50/30°C) (%)	Gas	Max	106	106	106	106	106	106	106
		Min	107	107	107	107	107	107	107
	Oil	Max	102,5	102,5	102,5	102,5	102,5	102,5	102,5
		Min	104	104	104	104	104	104	104
Efficency 30%	Gas	Max	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
Maximun operating pressure		bar	6	6	6	6	6	6	6
Loss pressure water side		mbar	0,4	0,65	1,7	1,7	2	3,5	4,2
Protection rating			IPX0D						
Electrical power supply		V/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50
Empty weight		Kg	377	436	490	645	1035	1338	1451
Dimensions		WxH*xD	700x1335x1157	700x1335x1337	700x1335x1577	800x1535x1777	950x1715x1987	1050x1860x2187	1050x1860x2387
CODE (see page 3)			**0RGZ3AXA**	**0RGZ4AXA**	**0RGZ5AXA**	**0RGZ8AXA**	**0RGZBAXA**	**0RGZDAXA**	**0RGZGAXA**

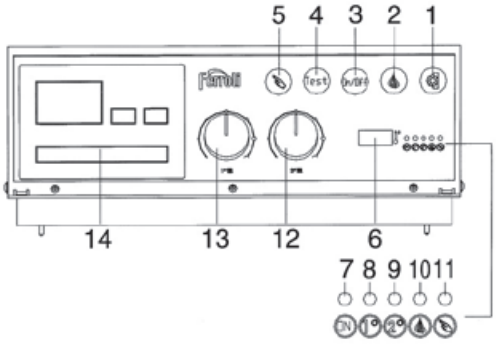
* Including water connections

CONTROL BOARD

FOR PRESSURISED BOILERS

THERMOSTATIC CONTROL BOARD

- Suitable for single or two stages burners
- Digital thermometer and LED diagnostic
- Pre-set for integration of an electronic controller
- Includes 2 stages regulation thermostat based on NTC flow probe, safety thermostat
- Inputs for ambient thermostat, additional safety device (max 2 in series)



Panel is equipped with:

1- Pump ON switch
2 - Burner ON switch
3 - Boiler ON switch
4 - Test button
5 - Safety button with manual reset
6 - Boiler water temperature
7 - Boiler ON LED
8 - 1st stage burner LED
9 - 2nd stage burnerLED
10 - Burner lockout LED
11 - Safety pressure switch LED
12 - 2nd stage control thermostat TR1
13 - 1st stage control thermostat TR1
14 - Housing for optional temperature controller (not supplied)

CODE	DESCRIPTION
0Q2K09XA	THERMOSTATIC CONTROL BOARD

GAS
WALL HUNG BOILERS

DOMINA N

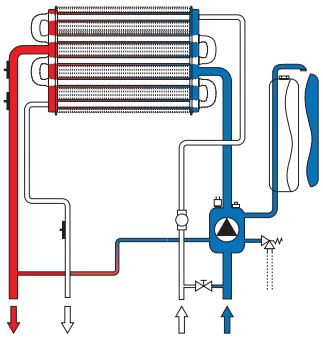
INSTANT COMBI WALL HUNG GAS BOILER

- **Bithermic** copper exchanger
- Combined control panel: knobs, buttons, LEDs for a quick, easy handling of boiler operation
- **3 speed pump** with antiseize function: it is switched on for few seconds in case of 24 hours inactivity
- Hydraulic bypass as a standard
- Atmospheric burner in stainless steel AISI 304
- Modulating operation both in heating and domestic hot water mode
- Can be combined with **modulating remote control**
- **ECO/COMFORT** mode: choice of Comfort mode maintains exchanger warm, drastically reducing waiting time for domestic hot water supply
- **Ready for connection to solar systems**: integrated management of combined DHW production
- Condensate trap for air pressure switch
- Compact dimensions thus enabling installation, also in place where limited space is available
- Protection index **IPX5D**, which means excellent electrical protection of the appliance

PHASING OUT

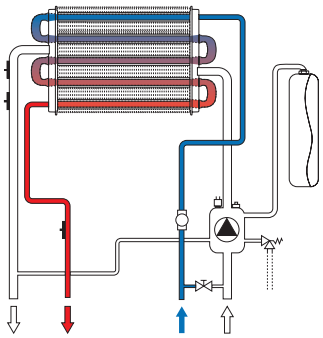
MOD C: OPEN FLUE, NATURAL DRAUGHT
MOD F: ROOM SEALED, FORCED DRAUGH

WATER SCHEME

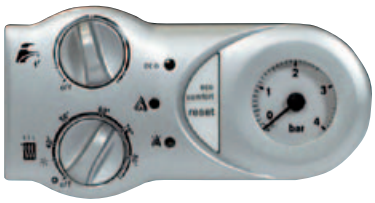


CH

WATER SCHEME



DHW



Control panel (DOMINA N, DIVAPROJECT)

EXTRA EU | REMOTE | FUNCTION

MODEL			C 20 N	C 24 N	C 28 N	C 32 N	F 20 N	F 24 N	F 28 N	F 32 N
Heat input	Max Heating	kW	22,0	25,8	30,8	34,4	21,5	25,8	30,0	34,4
	Min	kW	8,3	8,3	11,5	11,5	8,3	8,3	11,5	11,5
	Max DHW	kW	22,0	25,8	34,4	34,4	21,5	25,8	34,4	34,4
Heat output	Max Heating	kW	20,0	23,5	28,0	31,3	20,0	24,0	28,0	32,0
	Min	kW	7,0	7,0	9,9	9,9	7,2	7,2	9,9	9,9
	Max DHW	kW	20,0	23,5	31,3	31,3	20,0	24,0	32,0	32,0
Efficiency	80°C - 60°C	Pmax %	91	91	91	91	93	93	93,1	93,1
	30% load	%	89,6	89,6	89,6	89,6	90,5	90,5	91	91
Heating water content		litres	1,2	1,2	1,2	1,2	1,0	1,0	1,2	1,2
DHW production	Δt 25°C	l/min	11,5	13,4	17,9	17,9	11,5	13,7	18,3	18,3
	Δt 30°C	l/min	9,6	11,2	14,9	14,9	9,6	11,4	15,2	15,2
Heating operating pressure	Max	bar	3	3	3	3	3	3	3	3
Empty weight		kg	25	25	30	30	30	30	35	35
Dimensions	WxHxD	mm	400x700x230	400x700x230	400x700x330	400x700x330	400x700x230	400x700x230	400x700x330	400x700x330
CODE (see page 5)			-	0ABC4RUA	0ABC5RUA	0ABC7RUA	-	0ABF4RUA	0ABF5RUA	0ABF7RUA

DIVA

INSTANT COMBI WALL HUNG GAS BOILER

- Traditional compact wall hung boiler for central heating and domestic hot water
- Monothermic **CH copper exchanger** plus **DHW stainless steel plates exchanger** fed by 230 V diverting valve
- Complete and intuitive control board, with autodiagnostic function featuring backlit display and setting buttons
- Can be connected to **modulating remote control**, as optional
- Modulating operation both in heating and domestic hot water mode, with adjustable temperature increase slope
- Hydraulic bypass as a standard
- ECO/COMFORT mode for a fast production of domestic hot water
- Antifrost function, if gas and power supplied
- **Ready for connection to solar systems**: integrated management of combined DHW production through boiler and solar system
- Compact dimensions: same width and height of a bithermic wall hung boiler
- **IPX5D** protection rating
- **Condensate trap** for air pressure switch.

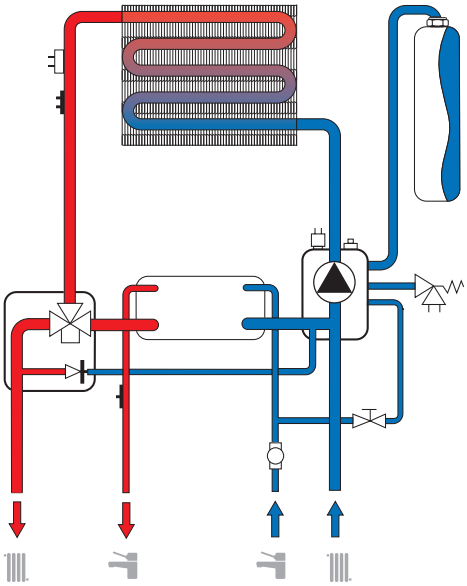
PHASING OUT

MOD C: OPEN FLUE, NATURAL DRAUGHT
MOD F: ROOM SEALED, FORCED DRAUGHT

Water assembly

EXTRA EU | REMOTE | FUNCTION SUN EASY

WATER SCHEME



MODEL			C 24	C 28	C 32	F 24	F 28	F 32	F 37
Heat input	Max Min	kW kW	25,8 8,3	30,8 11,5	34,4 11,5	25,8 8,3	30,0 11,5	34,4 11,5	39,7 14,0
Heat output	Max Min	kW kW	23,5 7,0	28,0 9,9	31,3 9,9	24,0 7,2	28,0 9,9	32,0 9,9	37,0 12,9
Efficiency	80°C - 60°C 30% load	Pmax % %	91,0 89,6	91,0 89,8	91,0 89,8	93,0 90,5	93,1 91	93,1 91	93,2 91
DHW production	Δt 25°C Δt 30°C	l/min l/min	13,4 11,2	17,9 14,9	17,9 14,9	13,7 11,4	18,3 15,2	18,3 15,2	21,1 17,6
Heating operating pressure	Max	bar	3	3	3	3	3	3	3
Empty weight		kg	27	30	30	32	35	35	37
Dimensions	WxHxD	mm	400x700x330	400x700x330	400x700x330	400x700x330	400x700x330	400x700x330	450x700x330
CODE (see page 5)			**0AEC4RUA**	**0AEC5RUA**	**0AEC7RUA**	**0AEF4RUA**	**0AEF5RUA**	**0AEF7RUA**	**0AEF8RUA**

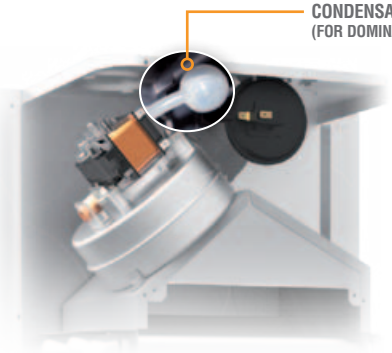
DIVA H

ONLY HEATING WALL HUNG BOILER

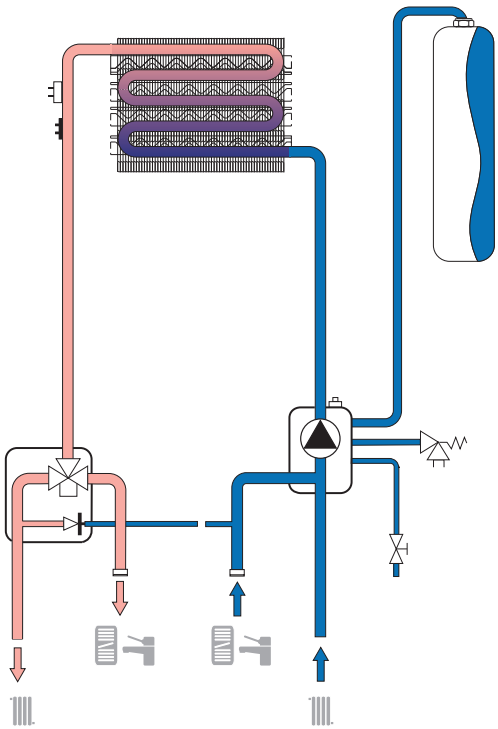
- **Primary exchanger in copper**, protected by aluminium coating
- Built-in electronic management of an **eventual external DHW cylinder**, fed by the onboard diverter valve
- Can be operated using the **modulating remote control**
- Complete and intuitive **backlit graphic display** for easy and correct setting of the parameters
- Antifrost function, if gas and power supplied
- Timed antiseize program for pump and diverter valve
- Automatic bypass as standard
- Condensate trap for air pressure switch
- Protection index **IPX5D**, which means excellent electrical protection of the appliance

PHASING OUT

MOD C: OPEN FLUE
MOD F: ROOM SEALED



WATER SCHEME



EXTRA EU COMPLIANT

REMOTE

MODEL			H C 24	H F 24	H F 32
Heat input	Max Heating Min	kW kW	25,8 8,3	25,8 8,3	32,0 9,9
Heat output	Max Heating Min	kW kW	23,5 7,0	24,0 7,2	34,4 11,5
Heating operating pressure	Max	bar	3	3	3
Heating water content		litres	1	1	1,5
Empty weight		kg	26	31	35
Dimensions	WxHxD	mm	400x700x330	400x700x330	450x700x330
CODE (see page 5)			**0AEL4REA**	**0AEO4RWA**	**0AEO7RWA**

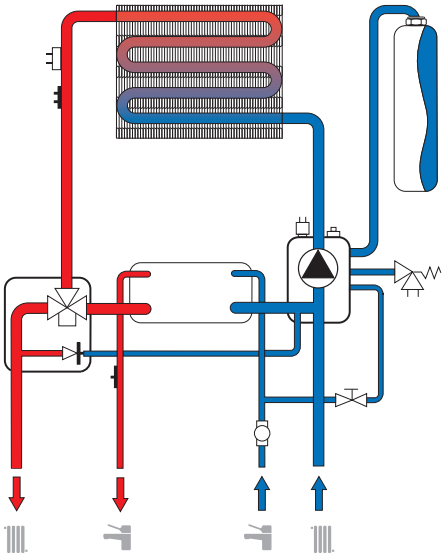
DIVATECH D

INSTANT COMBI WALL HUNG GAS BOILER

- Traditional compact wall hung boiler for central heating and domestic hot water
- **Monothermic CH exchanger** plus **DHW stainless steel plates exchanger** fed by diverting valve
- Complete and intuitive control board, with autodiagnostic function, featuring backlit display and setting buttons
- Can be connected to **outdoor probe** and **remote control**, as optionals
- Modulating operation both in heating and domestic hot water mode, with adjustable temperature increase slope
- Hydraulic bypass as a standard
- Antifrost function, if gas and power supplied
- Ready for connection to **solar systems**: integrated management of combined DHW production through boiler and solar system
- Compact dimensions thus enabling installation, also in place where limited space is available
- Available in the LPG version

MOD C: OPEN FLUE
MOD F: ROOM SEALED

WATER SCHEME



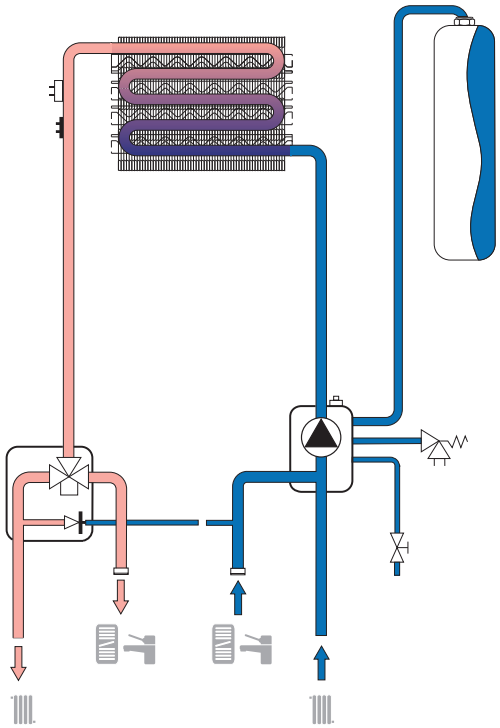
MODEL			C 24	C 32	F 24	F 32	F 37
Heat input	Max Min	kW kW	25,8 8,3	34,4 11,5	25,8 8,3	34,4 11,5	39,7 14,0
Heat output	Max Min	kW kW	23,5 7,0	31,3 9,7	24,0 7,2	32,0 9,9	37,0 12,9
Efficiency	80°C - 60°C 30% load	Pmax % %	91,0 89,6	91,0 89,8	93,0 90,5	93,1 91	93,2 91
DHW production	Δt 25°C Δt 30°C	l/min l/min	13,4 11,2	17,9 14,9	13,7 11,4	18,3 15,2	21,1 17,6
Heating operating pressure	Max	bar	3	3	3	3	3
Empty weight		kg	27	30	32	35	37
Dimensions	WxHxD	mm	400x700x330	400x700x330	400x700x330	400x700x330	450x700x330
CODE (see page 3)			**0DAC4YYA**	**0DAC7YYA**	**0DAF4YYA**	**0DAF7YYA**	**0DAF8YYA**

DIVATECH D HF

ONLY HEATING WALL HUNG BOILER

- Traditional compact wall hung boiler for central heating and verical external DHW cylinder
- **CH exchanger** plus **DHW stainless steel plates exchanger** fed by diverting valve
- Built-in electronic management of an **eventual external DHW cylinder**, fed by the onboard diverter valve
- Can be connected to **outdoor probe** and **remote control**, as optionals
- Complete and intuitive **backlit graphic display** for easy and correct setting of the parameters
- Antifrost function, if gas and power supplied
- Timed antiseize program for pump and diverter valve
- Automatic bypass as standard
- Protection index **IPX5D**, which means excellent electrical protection of the appliance

WATER SCHEME



MODEL			H F 24	H F 32
Heat input	Max Heating Min	kW kW	25,8 8,3	34,4 11,5
Heat output	Max Heating Min	kW kW	24,0 7,2	32,0 9,9
Heating operating pressure	Max	bar	3	3
Heating water content		litres	1	1,5
Empty weight		kg	31	35
Dimensions	WxHxD	mm	400x700x330	450x700x330
CODE (see page 5)			**0DA04ZYA**	**0DA07ZYA**

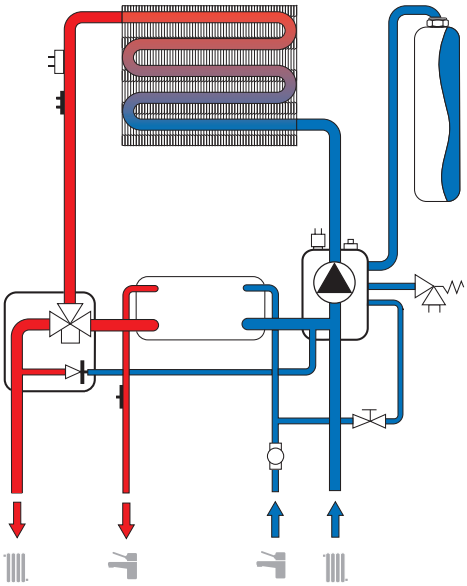
DIVATECH D LN ERP

INSTANT COMBI WALL HUNG GAS BOILER LOW NOX

- Traditional compact wall hung boiler for central heating and domestic hot water, **open flue natural draught**
- Monothermic **CH exchanger** plus **DHW stainless steel plates exchanger** fed by diverting valve
- Complete and intuitive control board, with autodiagnostic function, featuring backlit display and setting buttons
- **Class A pump** with antiseize function: it is switched on for few seconds in case of 24 hours inactivity
- Hydraulic bypass as a standard
- Atmospheric burner in stainless steel AISI 304
- Modulating operation both in heating and domestic hot water mode
- Can be combined with **modulating remote control**
- Antifrost protection, if gas and power supplied and in stand-by mode
- **Ready for connection to solar systems**: integrated management of combined DHW production
- Compact dimensions thus enabling installation, also in place where limited space is available

ONLY MOD C: OPEN FLUE

WATER SCHEME



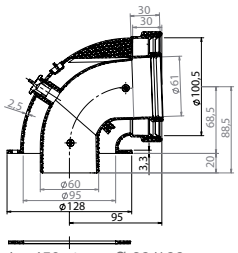
REPLACEMENT OF BOILERS INSTALLED IN COLLECTIVE CHIMNEYS

In the EU the ***new*** (redesigned) **DIVATECH D C 24/30 "ErP Compliant"** can ONLY be installed as replacement for open flues boilers evacuating through collective chimneys, **provided that such installation is also permitted by local laws.** In that sense the ***new*** DIVATECH D C 24/30 are deemed to be compliant with ErP, which explicitely allows only for that exception.

MODEL			C 24	C 30
Erp Class		(G - A+++ Class)	C	C
	XL	(G - A Class)	A	A
Seasonal efficiency			77	77
Heat input	Max Min	kW kW	25,8 8,3	30 9,7
Heat output	Max Min	kW kW	23,5 7,0	33,0 11,5
Efficiency	80°C - 60°C 30% load	Pmax % %	91,0 89,6	91,0 89,8
DHW production	Δt 25°C Δt 30°C	l/min l/min	13,4 11,2	17,2 14,3
Heating operating pressure	Max	bar	3	3
Empty weight		kg	27	30
Dimensions	WxHxD	mm	400x700x330	400x700x330
CODE (see page 3)			**0DCC4YWA**	**0DCC6YWA**

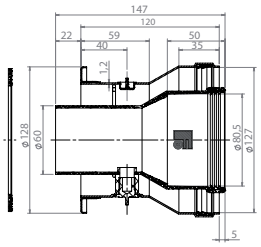
FLUE STARTING CONNECTIONS CONDENSING GAS BOILERS

041001X0



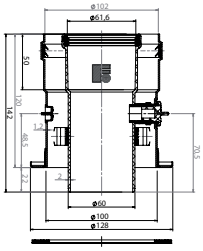
90° flanged concentric bend, 360° adjustable by 45° steps, Ø 60/100 mm, with test point

041006X0



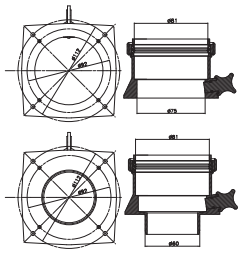
Vertical concentric adapter from Ø 60/100 mm to Ø 80/125 mm, with test point

041002X0



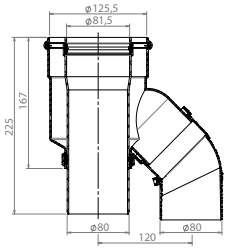
Vertical concentric connection - Ø 60/100 mm, with test point

041039X0



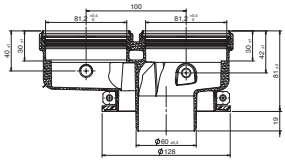
Twin pipes adaptor Ø 80/80 mm, with test point

041007X0



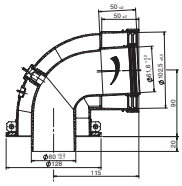
Vertical concentric adaptor - Ø 80/125 mm - with flues test point

041082X0



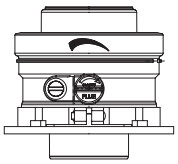
Twin pipes adaptor Ø 80/80 mm, with test point

041084X0



90° flanged concentric bend, 360° adjustable by 45° steps, Ø 60/100 mm, with test point

041083X0



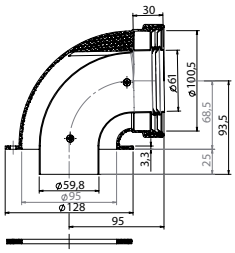
Vertical concentric connection - Ø 60/100 mm, with test point

BOILER MATCHING	041001X0	041002X0	041007X0	041006X0	041039X0	041650X0	041084X0	041083X0	041082X0
ENERGY TOP W *			•						
BLUEHELIX TECH RRT				•			•	•	•
BLUEHELIX wall-hung	•	•		•	•				
BLUEHELIX floor-standing	•					•			
DIVACONDENS D	•	•		•	•				

* Non-starting 80 mm flues can be inserted directly on flues stack (with interposition of gasket code 1KWMA84A)
"FLUE STARTING CONNECTIONS" are those immediately in contact with boiler's stack. Listed accessories are used for individual installation (not cascade).
For calculation of max flues lenght, please consult the boiler instruction manual.

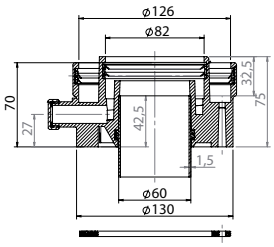
FLUE STARTING CONNECTIONS
TRADITIONAL GAS BOILERS AND WATER HEATERS

010007X0



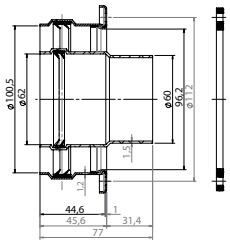
90° flanged concentric bend - 360° adjustable by 45° steps - Ø 60/100 mm, external PVC internal aluminium

010018X0



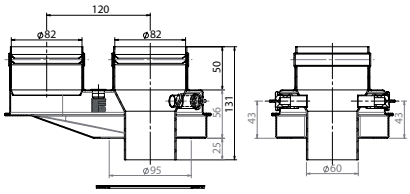
Vertical concentric connection, Ø 80/125 mm, with test point, aluminium

010006X0



Vertical concentric connection, Ø 60/100 mm, external PVC internal aluminium

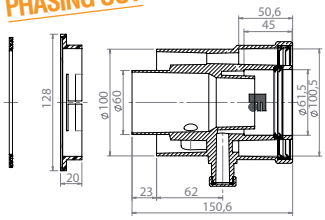
010031X0



Twin pipes adaptor Ø 80/80 mm

010023X0

PHASING OUT



Vertical concentric connection, Ø 60/100 mm, aluminium, with condensate drain

COMBINED KIT

010012X0

Concentric kit 01007X0 + 1KWMA56A (made by: 90°bend, 1mt terminal pipe, Ø 60/100 mm)

BOILER MATCHING	010007X0	010006X0	010023X0	010018X0	010031X0	010012X0
DIVATECH D	•	•	•	•	•	•
SKY F gas water heater	•	•	•	•	•	•

Accessories valid for room sealed models only
"FLUE STARTING CONNECTIONS" are those immediately in contact with boiler's stack. Listed accessories are used for individual installation (not cascade).
For calculation of max flues lenght, please consult the boiler instruction manual.

FLUES CHIMNEY ACCESSORIES CONDENSING GAS BOILERS

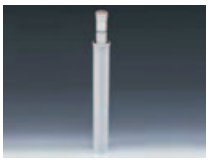
1KWMA56W

1 mt Concentric terminal pipe, Ø 60/100 mm, external PVC, internal PPs.
Includes wall gasket.

1KWMA58W

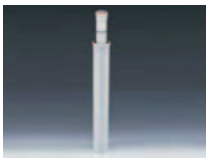
1 mt Concentric terminal pipe, Ø 80/125 mm, external PVC, internal PPs.
Includes wall gasket.

1KWMA57W



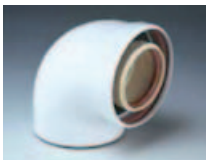
1 mt M-F concentric extension, Ø 60/100 mm, external PVC, internal PPs

1KWMA59W



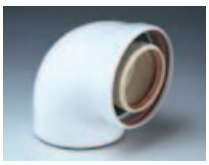
1 mt M-F concentric extension, Ø 80/125 mm, external PVC, internal PPs

041051X0



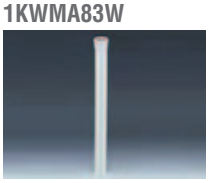
90° M-F concentric bend, Ø 60/100 mm, PPs

1KWMA73W



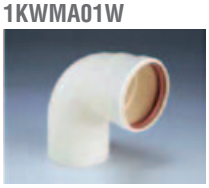
90° M-F concentric bend, Ø 80/125 mm, external aluminium, internal PPs

1KWMA83W



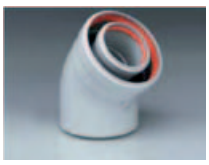
1 mt M-F pipe, Ø 80 mm, PPs

1KWMA01W



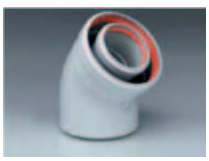
90° M-F bend, Ø 80 mm, PPs

1KWMA64W



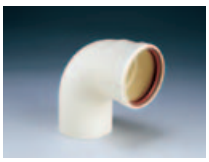
45° M-F concentric bend, Ø 60/100 mm, external PVC, internal PPs

1KWMA72W



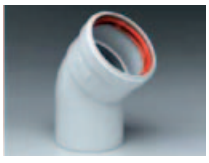
45° M-F concentric bend, Ø 80/125 mm, external PVC, internal PPs

1KWMA88W



90° M-F bend, Ø 60 mm, PPs

1KWMA65W



45° M-F bend, Ø 80 mm, PPs

1KWMA70W

Flue or air test point Ø 80 mm (M-F) PPs

041000X0

90° M-F bend, Ø 80 mm, PPs, with test point

041049X0

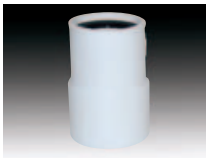
Concentric roof terminal, Ø 60/100 mm, external PVC, internal PPs (*)

010036X0

Concentric roof terminal, Ø 80/125 mm, external PVC, internal PPs (*)

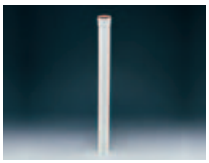
FLUES CHIMNEY ACCESSORIES CONDENSING GAS BOILERS

041050X0



M-F reduction,
ø 80/60 mm

1KWMA89W

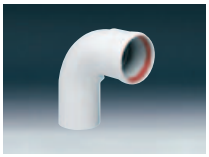


1m M-F pipe,
ø 60 mm

041086X0

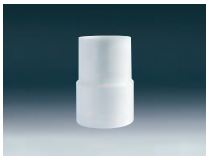
1m extension,
ø 50 mm

041085X0



90° M-F bend,
ø 50 mm

041087X0



Reduction,
ø 80/50 mm

* INCLUDES Ø 132 MM COLLAR (ADJUSTABLE IN HEIGHT) FOR CONNECTION TO FERROLI'S ROOF TILES. ACCESSORIES VALID FOR ROOM SEALED MODELS ONLY

FLUES CHIMNEY ACCESSORIES
TRADITIONAL GAS BOILERS AND WATER HEATERS

1KWMA56A

1 mt concentric terminal pipe, Ø 60/100 mm, external PVC, internal aluminium.
Includes wall gasket.

1KWMA66A

1 mt concentric terminal pipe, Ø 60/100 mm, aluminium. Includes wall gasket.

1KWMR56A

1 MT concentric terminal pipe, Ø 80/125 mm, aluminium

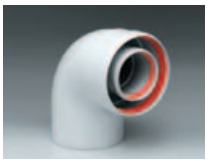
1KWMA56U

1 mt M-F concentric extension, Ø 60/100 mm, external PVC, internal aluminium

1KWMR56U

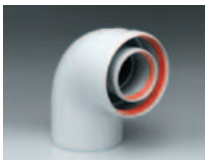
1 mt M-F concentric extension, Ø 80/125 mm, external PVC, internal aluminium

1KWMA81W



90° M-F concentric bend, Ø 60/100 mm, external PVC, internal aluminium

010002X0

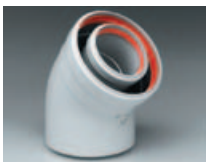


90° M-F concentric bend, Ø 80/125 mm, external PVC, internal aluminium

1KWMA31W

45° M-F concentric bend, Ø 60/100 mm, external PVC, internal aluminium

1KWMA72K



45° M-F concentric bend, Ø 80/125 mm, aluminium

1KWMA08K

1 mt M-F pipe, Ø 100 mm, aluminium

1KWMA38A

0,5 mt M-F pipe, Ø 80 mm, aluminium

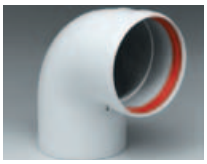
1KWMA70U

90° M-F bend, Ø 80 mm, aluminium, with test point

1KWMA82A

90° M-F bend, Ø 80 mm, aluminium

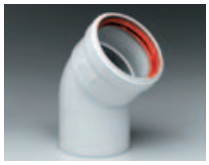
1KWMA04K



90° M-F bend, Ø 100 mm, aluminium

FLUES CHIMNEY ACCESSORIES
TRADITIONAL GAS BOILERS AND WATER HEATERS

1KWMA65A



45° M-F bend, Ø 80 mm, aluminium

1KWMA03K

45° M-F bend, Ø 100 mm, aluminium

1KWMA02K

90° F-F bend, Ø 80 mm, aluminium

1KWMA01K

45° F-F bend, Ø 80 mm, aluminium

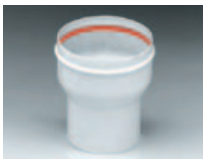
1KWMA19K

Reduction nipple for flexible pipe, Ø 72/79 mm, stainless steel AISI 316 L

1KWMA16U

Vertical connection, Ø 80 mm, aluminium, with test point

1KWMA03U



M-F reduction, Ø 80-100 mm, aluminium

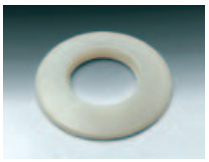
FLUES CHIMNEY ACCESSORIES UNIVERSAL USE

Accessories valid for room sealed models only

1KWMA84A

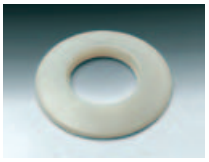
Wall gasket, Ø 80 mm, silicon

1KWMR11A



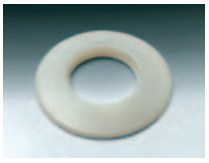
Wall gasket, Ø 100 mm, silicon

1KWMA91A



Wall gasket, Ø 60 mm, silicon

1KWMR09A



Wall gasket, Ø 125 mm, silicon

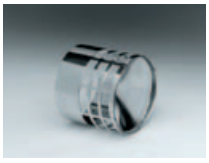
1KWMA85A

Air terminal, Ø 80mm, stainless steel

1KWMA14K

Air terminal Ø 100 mm, stainless steel

1KWMA86A



Flue terminal, Ø 80 mm, stainless steel

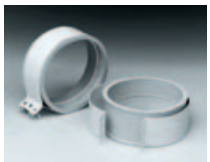
1KWMA29K

Flue terminal Ø 100 mm, stainless steel

1KWMA90A

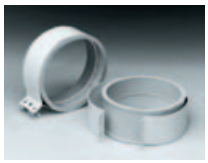
Flue terminal, Ø 60 mm, stainless steel

1KWMA07U



Connection joint, Ø 80 mm, steel

1KWMA08U



Connection joint, Ø 100 mm, steel

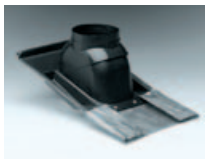
1KWMA81U

Roof tile for flat roofs, PVC Ø 132 mm

1KWMA86U

Roof reduction from Ø 125 mm to Ø 80 mm, PVC (For adaption of code 010026X to evacuation chimney only thus closing air inlet)

1KWMA82U



Roof tile for sloping roofs, PVC and lead moldable support Ø 132 mm

010026X0

Concentric roof terminal, Ø 80/125 mm, external plastic, internal aluminium,condensate-proof (⋆)

PHASING OUT

010027X0

Concentric roof terminal, Ø 60/100 mm with adaptor for twin pipe system Ø 80-80 mm, external plastic, internal aluminium, condensate-proof (⋆)

(⋆) See page 39

PHASING OUT

WATER ACCESSORIES

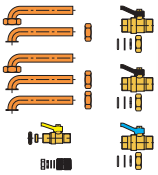
TEMPLATES

Standard galvanised template

BOILER MATCHING	046044X0	056004X0	046049X0
BLUEHELIX PRO S	•		
BLUEHELIX TECH RRT C			•
BLUEHELIX K		•	

CONNECTION KIT

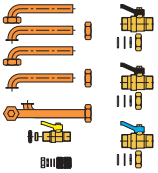
Boiler connection pipings, gas cut off valve, one DHW, two CH valves



BOILER MATCHING	012029W0	012043W0
BLUEHELIX PRO S	•	
BLUEHELIX TECH RRT C		•

CONNECTION KIT

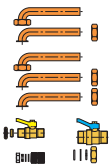
Boiler connection pipings, gas cut off valve, one DHW, two CH valves



BOILER MATCHING	052003X0
BLUEHELIX K	•

CONNECTION KIT

Boiler connection, gas cut off valve, DHW valve, nipples



BOILER MATCHING	012040W0
DIVACONDENS D PLUS	•
DIVATECH D	•

DHW STORAGE HANDLING

Probe for DHW storage tank. Temperature in the tank is detected through the resistive signal of the probe and shown on the boiler's display

BOILER MATCHING	1KWMA11W 2 mts cable	043005X0 5 mts cable
BLUEHELIX TECH RRT H	•	•
BLUEHELIX B	•	•
ENERGY TOP W	•	•
QUADRIFOGLIO B	•	•
ATLAS D CONDENS UNIT	•	•

Kit for handling DHW storage by means of a (not supplied) thermostat. The kit includes some resistors, which enable coupling with the existing thermostat on the tank. DHW temperature is not shown on boiler's display

BOILER MATCHING	013017X0
BLUEHELIX TECH RRT H	•
BLUEHELIX B	•
ENERGY TOP W	•
QUADRIFOGLIO B	•
ATLAS D CONDENS UNIT	•

Specific accessories dedicated to one model only: to be checked on respective product page

WALL HUNG ELECTRIC BOILERS

LEB

WALL-HUNG ELECTRIC BOILER, HEATING ONLY

- **One or three phases** operation
- Output modulation on 6 stages for models 6 ÷ 9, on 12 steps for bigger models
- **Flow temperature compensation** through (optional) outdoor probe
- Heating planning through **internal timer** or optional programmable thermostat
- 2 levels antifrost function
- Modular operation through optional cascade controller
- Includes high efficiency pump with anti-seize function, expansion vessel, bypass
- Can manage an **external DHW tank**

1 ON-OFF
2 Winter/Summer mode switch
3 Reset switch
4 Timing and set switch
5 Setting switch
6 Floor heating mode
7 Setting switch
8 Confirm switch
9 Heating temperature adjustment
10 Hot water temperature adjustment
11 Water pressure gauge
12 LCD display

MOD. 9.0

MODEL			6.0 TS	7.5 TS	9.0 TS	12.0 TS	18.0 TS	24.0 TS
Erp Class		(G - A+++ Class)	D	D	D	D	D	D
Input power		kW	6	7,5	9	12	18	24
Voltage			1x230V/50Hz or 3x230V/400V/50Hz			3x230V/400V/50Hz		
Current	max	A	41	41	41	3x43	3x43	3x43
Operating temperature in CH	max	°C	80	80	80	80	80	80
Expansion water tank		litres	10	10	10	10	10	10
Operating pressure	max min	bar bar	0,8 3	0,8 3	0,8 3	0,8 3	0,8 3	0,8 3
Flow / return connection		G	3/4”	3/4”	3/4”	3/4”	3/4”	3/4”
Water filling / drain hole		G	1/2”	1/2”	1/2”	1/2”	1/2”	1/2”
Protection class		IP	40	40	40	40	40	40
Empty weight		kg	29,5	29,5	29,5	40	40	40
Dimensions	WxHxD	mm	440x740x265	440x740x265	440x740x265	740x440x340	740x440x340	740x440x340

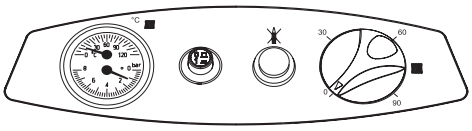
FLOOR STANDING BOILERS

PEGASUS 23 - 32 - 45

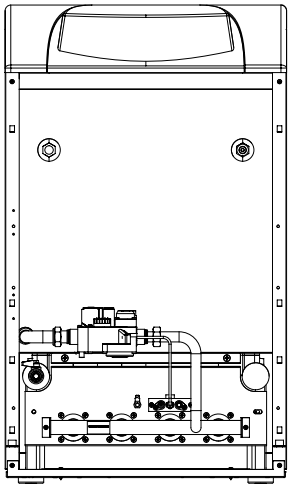
CAST IRON ATMOSPHERIC GAS BOILER, HEATING ONLY

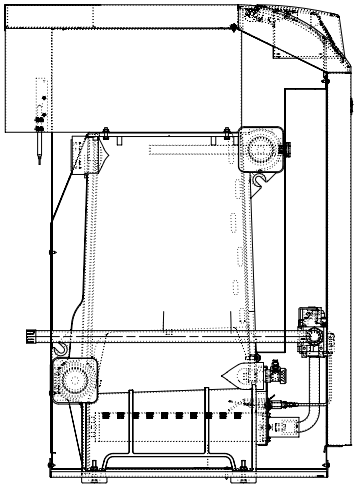
- Boiler body made of assembled **G 20 cast iron sections,** generously insulated by a rockwool layer externally lined with tearproof material
- Atmospheric burner in stainless steel with electronic ignition and ionization control
- **Analogue control panel** protected with a flip cover
- Control board includes temperature and pressure gauge, ignition switch, safety thermostat with manual reset and temperature setting knob
- **Oversize 1" ½ F system flow and return connections**
- Steel casing painted white by anaphoresis using epoxy powder paint
- Boiler is supplied packed inside a robust wooden crate

CONTROL BOARD



SCHEME





EXTRA EU

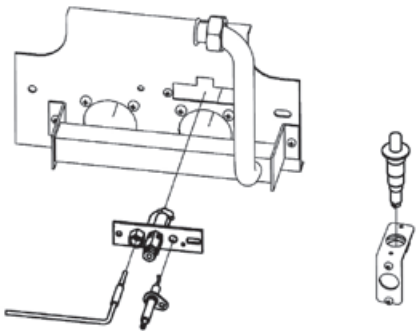
MODEL			23	32	45
Heat input	Max Heating Min	kW kW	25,3 10,1	34,9 14,9	49,5 19,7
Heat output	Max Heating Min	kW kW	23,0 8,8	32,0 13,0	45,0 17,2
Efficiency	80°C - 60°C 30%	Pmax % %	90,9 91,3	91,7 91,5	90,9 91,6
Number of elements		no.	3	4	5
Heating water content		litres	9,1	11,6	14,1
Heating operating pressure	Max	bar	6	6	6
Empty weight		kg	106	136	164
Dimensions	WxHxD	mm	400x850x615	500x850x615	500x850x615
CODE (see page 3)			**0E4L3MWA**	**0E4L4MWA**	**0E4L5MWA**

PEGASUS T

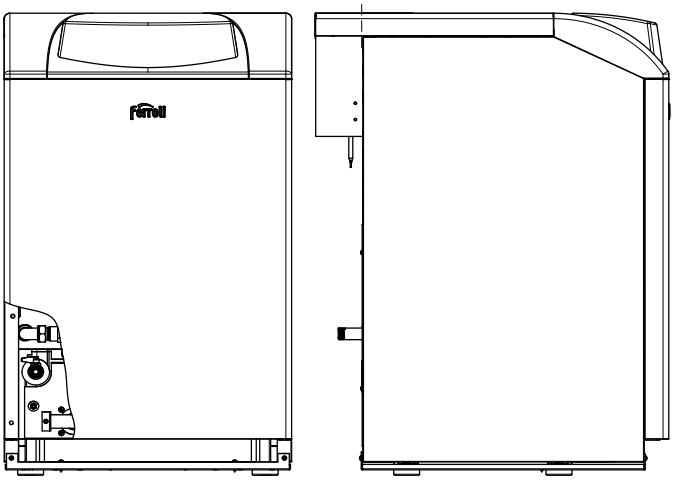
CAST IRON ATMOSPHERIC GAS BOILER, HEATING ONLY, PILOT IGNITION

- Boiler body made of assembled **G 20 cast iron sections**, generously insulated by a rockwool layer externally lined with tearproof material
- Atmospheric burner in stainless steel with **pilot ignition and termocouple**
- **Analogue control panel** protected with a flip cover
- Control board includes thermometer, pressure gauge, ignition switch, safety thermostat with manual reset and temperature setting knob
- **Oversize 1" ½ F system flow and return connections**
- Steel casing painted white by anaphoresis using epoxy powder paint
- Easy access to combustion assembly and stack, simply removing casing (fixed with quick pressure clips) and respective insulation
- Boiler is supplied packed inside a robust wooden crate

IGNITION ASSEMBLY'S EXPLODED VIEW



SCHEME



EXTRA EU

MODEL			23	35	45
Heat input	Max Heating Min	kW kW	25,3 10,1	38,8 14,9	49,5 19,7
Heat output	Max Heating Min	kW kW	23,0 8,8	35,0 13,0	45,0 17,2
Efficiency	80°C - 60°C 30%	Pmax % %	90,9 91,3	90,9 91,5	90,9 91,6
Number of elements		no.	3	4	5
Heating water content		litres	9,1	11,6	14,1
Heating operating pressure	Max	bar	6	6	6
Empty weight		kg	106	136	164
Dimensions	WxHxD	mm	400x850x615	500x850x615	500x850x615
CODE (see page 3)			**0E4K3MWA**	**0E4K4RWA**	**0E4K5MWA**

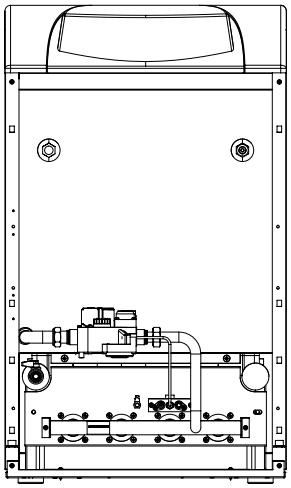
PEGASUS D 23 - 32 - 45

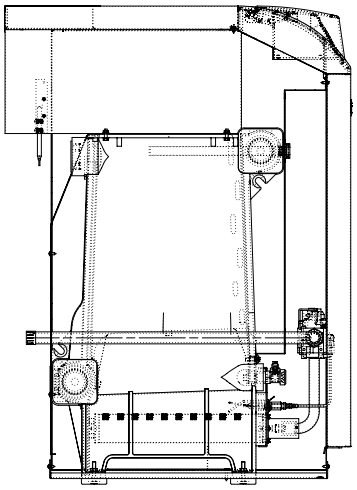
CAST IRON ATMOSPHERIC GAS BOILER, HEATING ONLY

- Stainless steel atmospheric burner and gas valve with adjustable output according to the installation's requirement
- Management of optional external storage cylinder, with legionella protection
- System **flow temperature compensation** (with installation of optional outdoor probe)
- Wide backlit **LCD** interface with button control
- Can be connected with **remote control** (optional)
- **Frost protection** system
- Available as optional pump and expansion vessel kit

Panel for PEGASUS D range

SCHEME





MOD. D32 - D45

SPECIFIC ACCESSORIES		CODE
Kit including: pump, 14 lts. CH expansion vessel, 1/2" F-F 3 bar safety valve		022002X0
Probe for DHW tank	2 mts	KWMA11W
	5 mts	043005X0
Kit for handling DHW storage by means of a (not supplied) thermostat		013017X0

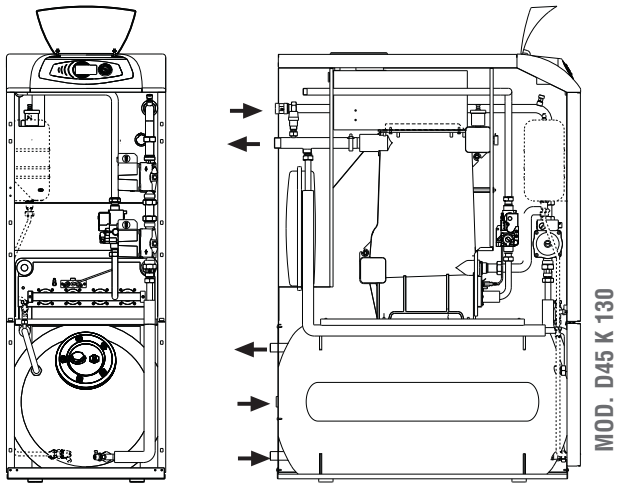
MODEL			23	32	45
Heat input	Max Heating Min	kW kW	25,3 10,1	34,9 14,9	49,5 19,7
Heat output	Max Heating Min	kW kW	23,0 8,8	32,0 13,0	45,0 17,2
Efficiency	80°C - 60°C 30%	Pmax % %	90,9 91,3	91,7 91,5	90,9 91,6
Number of elements		no.	3	4	5
Heating water content		litres	9,1	11,6	14,1
Heating operating pressure	Max	bar	6	6	6
Empty weight		kg	106	136	164
Dimensions	WxHxD	mm	400x850x615	500x850x615	500x850x615
CODE (see page 3)			**0E4L3AWA**	**0E4L4AWA**	**0E4L5AWA**

PEGASUS D K 130

CAST IRON ATMOSPHERIC GAS BOILER, INCLUDING DOMESTIC HOT WATER ENAMELLED STORAGE TANK

- **3 stars** efficiency according to 92/42 EEC emended by Reg. 812/2013 for 30 and 40 models
- **130 ltrs** enamelled steel hot water **storage**
- Digital control panel suitable for connection to opentherm **modulating remote control** and **outdoor probe** (optionals)
- Evolved **digital** interface for planning and monitoring of CH-DHW temperatures and advanced features (economy, legionella protection, troubleshooting ect)
- Stainless steel AISI 304 atmospheric gas burner
- Gas valve with adjustable output according to the installation's requirement, thus allowing unchanged combustion quality and excellent performances
- DHW expansion vassel and filling valve are not supplied
- Central Heating **frost protection** system
- DHW storage tanks are equipped with connection for a recirculation loop, for immediate availability of hot water to the user

SCHEME



MOD. D45 K 130

ATTENTION:
DHW expansion vessel and filling valve are not supplied.
The drawing represents a possible lodging of a generic expansion vessel

MODEL			D 30 K 130	D 40 K 130	D 45 K 130
Heat input	Max Heating Min	kW kW	32,2 14,9	42,9 19,7	49,5 19,7
Heat output	Max Heating Min	kW kW	30,2 13,5	40,1 17,7	45,0 17,2
Efficiency	80°C - 60°C 30% partial load	Pmax % %	93,7 91,8	93,5 92,5	90,9 91,6
Section		Quantity	4	5	5
DHW content		litres	130	130	130
DHW production	Δt 30°C Δt 30°C	l/10min l/h	250 850	250 850	250 850
Heating operating pressure	Max	bar	6	6	6
Empty weight		kg	250	275	275
Dimensions	WxHxD	mm	500x1345x950	500x1345x950	500x1345x950
CODE (see page 3)			**0F4U4TWA**	**0F4U5TWA**	**0F4U5DWA**

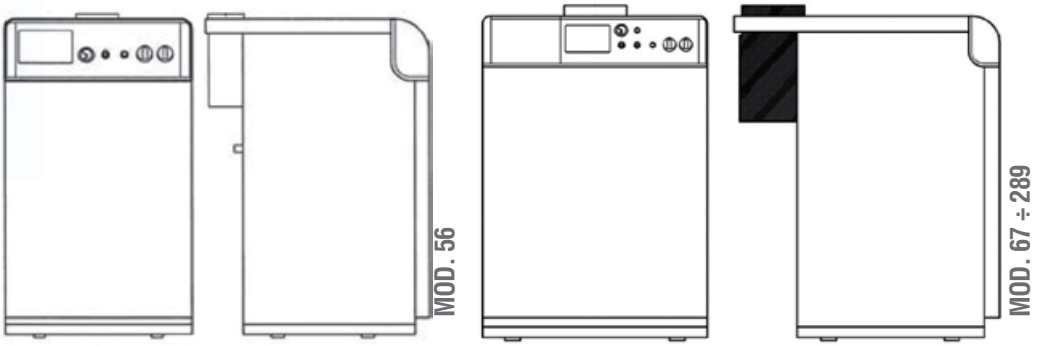
PEGASUS

CAST-IRON ATMOSPHERIC GAS BOILER, HEATING ONLY

- Boiler body made of assembled **G20 cast iron sections**, generously insulated by a rockwool layer externally lined with tearproof material
- Atmospheric burner with AISI 304 steel heads, electronic ignition with intermittent pilot flame and safety device detecting the ionisation current produced by the flame
- Variable heat input, with **two-stages** operation (except model 56)
- Flues collector with semi-integrated antirefouleur and flues test point
- For smaller boilers (56÷107 kW) element with factory name "B.A.G. 21" is used, whereas for higher outputs (119÷289 kW) a bigger element (namely "LS3") is used
- Efficient operation thanks to the **large heat exchange surface** of the cast-iron section, and the generous insulation of the boiler body
- Possibility to install the modules in cascade with a side-by-side or back-to-back layout
- Steel casing painted white by anaphoresis using epoxy powder paint
- Control board is **preset** for integration of an electronic controller

Element
mod. 119÷289
Type LS3

SCHEME



EXTRA EU

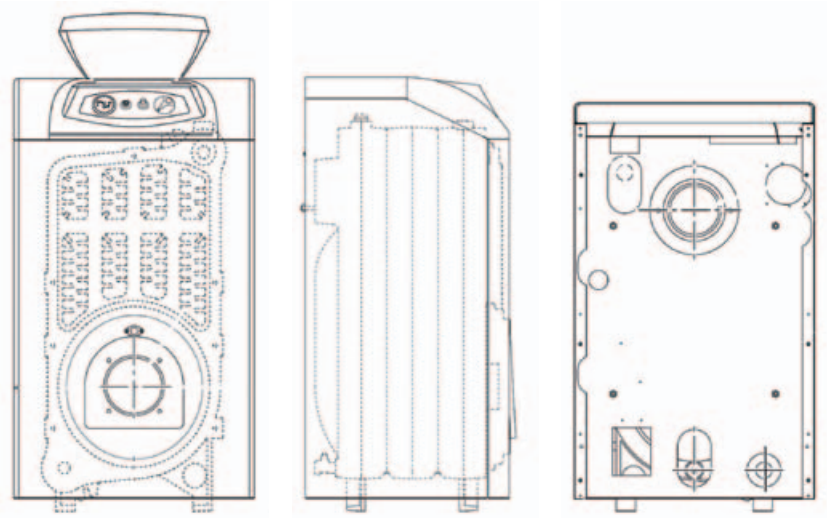
MODEL			56	67	77	87	97	107	119	136	153	170	187	221	255	289
Heat input	Max	kW	61,6	73,3	84,2	95,2	106,0	117,0	131,0	149,0	168,0	187,0	206,0	243,0	280,0	317,0
	Min	kW	24,5	31,0	35,7	40,3	45,0	49,0	77,0	89,0	100,0	110,0	122,0	144,0	166,0	188,0
Heat output	Max	kW	56,0	67,0	77,0	87,0	97,0	107,0	119,0	136,0	153,0	170,0	187,0	221,0	255,0	289,0
	Min	kW	21,6	27,3	31,4	35,5	39,6	43,0	71,0	82,0	92,0	102,0	112,0	133,0	153,0	173,0
Efficiency	80-60°C	Pmax %	90,9	91,4	91,5	91,4	91,5	91,5	91,2	91,3	91,4	91,5	91,6	91,7	91,9	92,0
Number of elements		no.	6	7	8	9	10	11	8	9	10	11	12	14	16	18
Operating temperature	Max	°C	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Heating operating pressure	Max	bar	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Heating water content		litres	16,6	19,1	21,6	24,1	26,6	29,1	38	42	46	50	54	62	70	78
Depth		mm	83	760	760	760	760	760	760	1050	1050	1050	1050	1050	1050	1050
Height		mm	600	760	850	930	1020	1100	930	1020	1100	1190	1270	1440	1610	1780
Width		mm	850	970	970	970	970	970	1050	1050	1050	1050	1050	1050	1050	1050
CODE (see page 3)			0E4L6AWA	0E4L7AWA	0E4L8AWA	0E4L9AWA	0E4LAAWA	0E4LBAWA	0E2L8AWA	0E2L9AWA	0E2LAAWA	0E2LBAWA	0E2LCAWA	0E2LEAWA	0E2LGAWA	0E2LIAWA

ATLAS

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

- 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
- **Available** complete range of one and 2 stages **burners** to be easily fitted, both for gas or liquid fuel

SCHEME

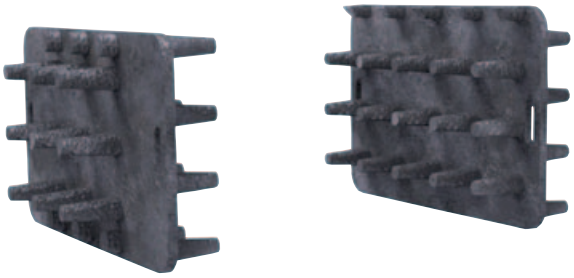


MODEL			32	47	62	78	95
Heat input	Max Heating	kW	34,9	51,6	67,7	85,6	103,2
Heat output	Max Heating	kW	32,0	47,0	62,0	78,0	95,0
Efficiency	80°C - 60°C 30% load	Pmax % %	91,7 94,3	91,1 93,5	91,5 94,0	91,1 93,5	92,0 93,8
Number of element		no.	3	4	5	6	7
Heating water content		litres	18	23	28	33	38
Heating 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 (see page 3)			**0IHJ3AWA**	**0IHJ4AWA**	**0IHJ5AWA**	**0IHJ6AWA**	**0IHJ7AWA**

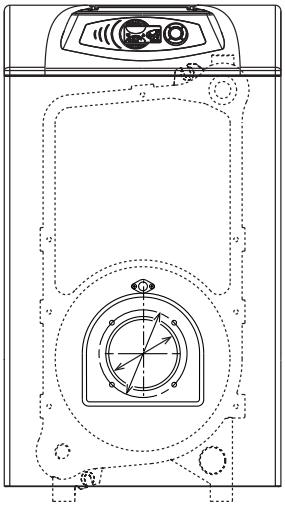
ATLAS D 25÷75

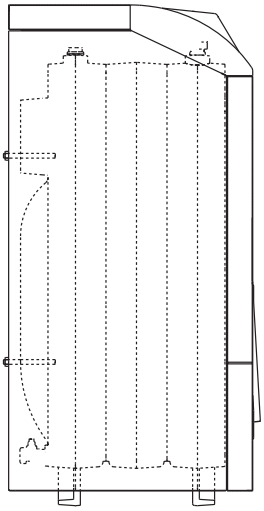
3 PASS-FLUES BOILER, FOR OIL JET BURNER, HEATING ONLY

- Can **handle** a CH **pump** and a DHW pump or diverting valve, both with anti-seize function
- Can **handle** as a standard a DHW **tank** with legionella programmable protection
- Burner door and front jacket optimised for easy **installation of the burner**
- The burner door features reversible hinges and can be quickly opened for inspection and cleaning
- In EU shall be equipped with an oil burner with electric input ≤ 180 W (mod. 25-37) or ≤ 200 W (mod. 50÷75)
- Possible matching, outside EU, with an oil or gas burner
- Conic 120-130 mm stack, to fit different tolerances adopted by flues producers



TURBOLATORS





ERP COMPLIANT | REMOTE | CLIMATIC | ANTIFROST

SPECIFIC ACCESSORIES		CODE
Probe for DHW tank	2 mts	KWMA11W
	5 mts	043005X0
Kit for handling DHW storage by means of a (not supplied) thermostat		013017X0

MODEL		D 25	D 37	D 50	D 63	D 75
Number of sections	no.	3	4	5	6	7
ERP class	(G - A+++ Class)	B	B	B	B	B
Heating seasonal efficiency		86	86	87	86	86
Heating capacity (min-max)	kW	22,4 - 28,3	22,3 - 41,9	33,4 - 56,6	44,5 - 71,3	55,8 - 84,6
Heat output in heating (min-max)	kW	20 - 25	20 - 37	30 - 50	40 - 63	50 - 75
Efficiency Pmax (80-60°C)	%	93,9	94,0	94,1	94,1	94,5
Efficiency 30% load	%	98,2	97,4	97,3	96,7	96,4
Working pressure in heating (min-max)	bar	0,8 - 6	0,8 - 6	0,8 - 6	0,8 - 6	0,8 - 6
Heating water content	litres	18	23	28	33	38
Protection rating	IP	X0D	X0D	X0D	X0D	X0D
Power supply voltage	V/Hz	230/50	230/50	230/50	230/50	230/50
Empty weight	kg	127	166	205	244	283
Pressure drop on flues side	mbar	0,11	0,35	0,38	0,5	0,6
CODE (see page 3)		**0IHJ3PWA**	**0IHJ4PWA**	**0IHJ5PWA**	**0IHJ6PWA**	**0IHJ7PWA**

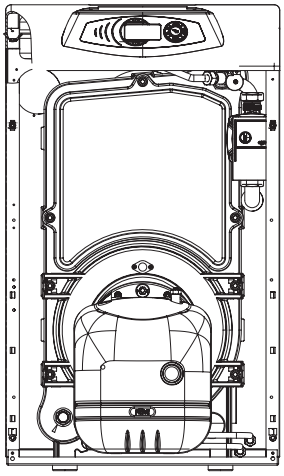
ATLAS D UNIT

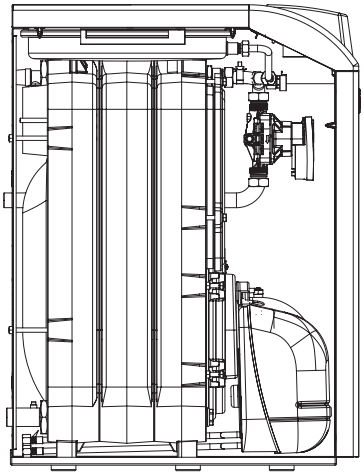
3 PASS-FLUES OIL BOILER, HEATING ONLY

- Already fit with **Ferroli light oil burner**
- The embedded position of the burner inside the casing, together with plastic cover's internal lining, drastically reduce sound pressure
- In addition 3 pass flues layout of the boiler body decrease also turbulence, permitting a particular **silent operation**
- Can handle a CH pump and a DHW pump or diverting valve, both with anti-seize function. System **circulator** already included on models 25 and 37
- Can **handle** a free-standing DHW **tank** with legionella protection
- Conic 120-130 mm stack, to fit different tolerances adopted by flues producers

Control panel

SCHEME





MOD. 25

* Provided introduction in the market (eg invoicing) occurs before 26.09.2018

MODEL		25 UNIT	37 UNIT	50 UNIT
Number of elements	no.	3	4	5
ERP class	(G - A++ Class)	B	B	B
Heating seasonal efficiency		86	86	87
Heating capacity (min-max)	kW	22,4 - 28,3	22,3 - 41,9	33,4 - 56,6
Heat output in heating (min-max)	kW	20 - 25	20 - 37	30 - 50
Efficiency Pmax (80-60°C)	%	93,9	94,0	94,1
Efficiency 30% load	%	98,2	97,4	97,3
Operating pressure in heating (min-max)	bar	0,8 - 6	0,8 - 6	0,8 - 6
Heating water content	litres	18	23	28
Heating expansion tank capacity	litres	10	12	-
Protection rating	IP	X0D	X0D	X0D
Power supply voltage	V/Hz	230/50	230/50	230/50
Empty weight	kg	157	196	232
CODE (see page 3)		0JHL3PWA	0JHL4PWA	0JHL5PWA

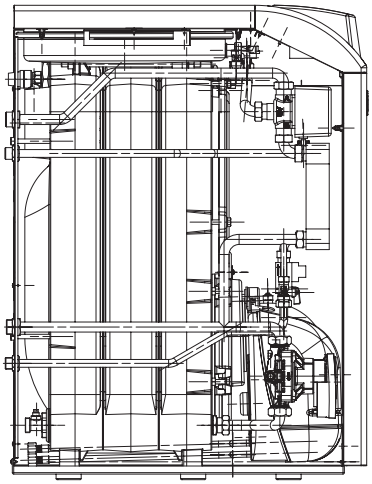
ATLAS D SI UNIT

3 PASS-FLUES OIL BOILER, INSTANT COMBI

- Already fit with **Ferroli light oil burner**
- The embedded position of the burner inside the casing, together with its plastic cover internally lined, drastically reduce sound pressure
- Instantaneous DHW production through stainless **steel plate exchanger** fed by diverting valve. Priority to DHW, activated by flow switch.
- **Comfort** settable function, which allows to keep DHW exchanger warm. Tap water supply is consequently very quick. The function may be also weekly planned, in case Romeo remote control is used.
- Conic 120-130 mm stack, to fit different tolerances adopted by flues producers

Panel for ATLAS D range

SCHEME



MOD. 25

* Provided introduction in the market (eg invoicing) occurs before 26.09.2018

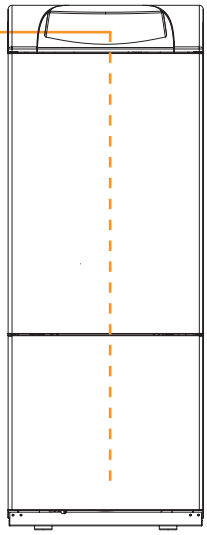
MODEL			25 SI UNIT	37 SI UNIT
Number of elements	no.		3	4
ERP class		(G - A+++ Class)	B	B
		(G - A Class)	XL B	XXL B
Heating seasonal efficiency			86	86
Heating capacity (min - max)	kW		22,4 - 28,3	22,3 - 41,9
Heat output (min - max)	kW		20 - 25	20 - 37
Efficiency Pmax (80-60°C) Efficiency 30% load	% %		93,9 98,2	94,0 97,4
Operating pressure in heating (min - max)	bar		0,8 - 6	0,8 - 6
Heating water content	litres		20	25
Heating expansion tank capacity	litres		8	10
DHW flowrate Δt 25°C	l/min		14,3	21,2
DHW flowrate Δt 30°C	l/min		11,9	17,7
Protection rating	IP		X0D	X0D
Power supply voltage	V/Hz		230/50	230/50
Empty weight	kg		160	200
CODE (see page 3)			**0LHC3PWA**	**0LHC4PWA**

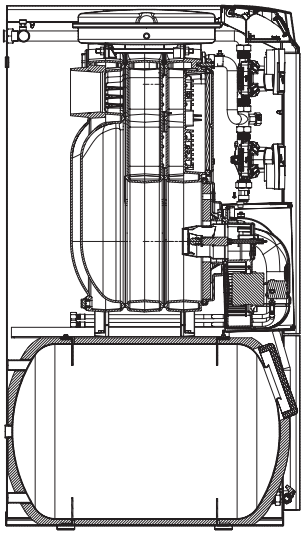
ATLAS D K UNIT

3 PASS-FLUES OIL BOILER, STORAGE COMBI

- Already fit with **Ferroli light oil burner**
- The embedded position of the burner inside the casing, together with its plastic cover's internal lining, drastically reduce sound pressure
- Includes a **DHW tank**, equipped with recirculation connection. Legionella protection function, managed by microprocessor
- The tank is with **enamelled** lining, protected by a magnesium anode
- **Eco/Comfort mode:** Eco selection disables heating of storage tank. If Romeo remote control is connected, the function can be planned
- **Two pumps**, for system and the tank, both with anti-seize function

SCHEME





MOD. 25

* Provided introduction in the market (eg invoicing) occurs before 26.09.2018

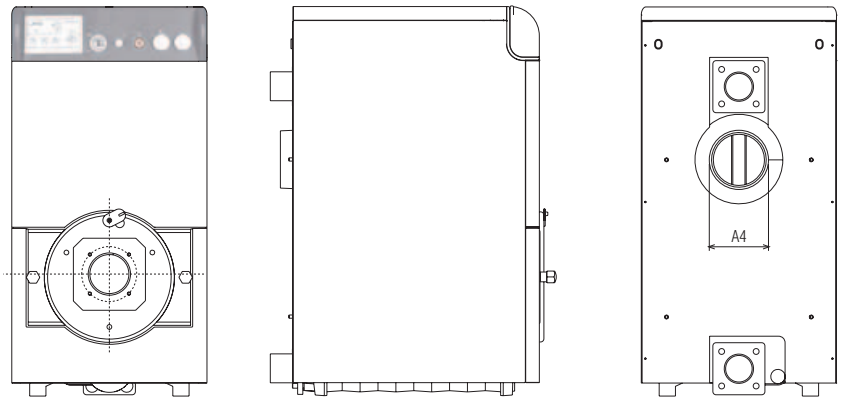
MODEL			D 25 K 100 UNIT	D 37 K 130 UNIT
Number of elements	no.		3	4
ERP class		(G - A++ Class)	B	B
		(G - A Class)	XL B	XXL B
Heating seasonal efficiency			86	86
Heating capacity (min-max)	kW		22,4 - 28,3	22,3 - 41,9
Heat output in heating (min-max)	kW		20 - 25	20 - 37
Efficiency Pmax (80-60°C)	%		93,9	94,0
Efficiency 30% load	%		98,2	97,4
Operating pressure in heating	bar		0,8 - 6	0,8 - 6
Heating water content	litres		21	26
Heating expansion tank capacity	litres		8	10
Operating pressure in DHW (min-max)	bar		0,1 - 9	0,1 - 9
DHW tank content	litres		90	117
DHW expansion tank capacity (optional)	litres		3	3
Hot water flow rate Δt 30°C	l/10 min		195	250
Hot water flow rate Δt 30°C l/h	l/h		750	850
Protection rating	IP		X0D	X0D
Power supply voltage	V/Hz		230/50	230/50
Empty weight	kg		225	265
CODE (see page 3)			**0LHU3PWA**	**0LHU4PWA**

GN2 N

CAST-IRON BOILER, SUITABLE FOR INSTALLATION OF AN OIL OR GAS JET BURNER

- High efficiency floor-standing heat generator fitted for jet burners on liquid and/or gas fuel, with **partial flame reversal** and one flue pass, cooled combustion chamber, for the production of hot water for central heating
- G20 cast-iron boiler body made from pre-assembled elements (6÷14) with steel cone inserts and boiler studs, insulated by a layer of rock wool lined by special tear-proof material.
- Control board includes: temperature and pressure gauge, overheat cut-off thermostat, switch on/off test, presetting led for the burner lockout, 2 stages regulation thermostat, lodging for an electronic controller
- Supplied in **three boxes**:
  1) boiler body in a wooden crate
  2) jacket packaged in a cardboard box
  3) instrument panel packaged in a cardboard box
- **Fitted for two-stage burners**

SCHEME



REG. 812/2013

MODEL			GN 2 N 06	GN 2 N 07	GN 2 N 08	GN 2 N 09	GN 2 N 10	GN 2 N 11	GN 2 N 12	GN 2 N 13	GN 2 N 14
Heat input	Max Min	kW kW	116,0 95,0	136,9 110,0	156,5 125,0	176,0 140,0	195,6 155,0	215,2 170,0	234,7 185,0	254,3 200,0	273,9 215,0
Heat output	Max Min	kW kW	107,0 87,0	126,0 101,0	144,0 115,0	162,0 129,0	180,0 143,0	198,0 157,0	216,0 171,0	234,0 185,0	252,0 199,0
Number of elements		no.	6	7	8	9	10	11	12	13	14
Water content		dm^3	57	65	73	81	89	97	105	113	121
Combustion chamber	volume	dm^3	77,0	91,0	104,0	118,0	132,0	146,0	160,0	174,0	187,0
Heating operating pressure	Max	bar	6	6	6	6	6	6	6	6	6
Pressure drop: combustion chamber hydraulic		 Δp mbar ΔT 20°C	 0,4 -	 0,4 0,5	 0,4 0,8	 0,4 1,8	 0,4 2,2	 0,4 2,6	 0,4 3,2	 0,4 4,0	 0,4 4,5
Boiler body weight		kg	361	412	463	514	565	616	670	725	780
Dimensions	A4	mm	180		200						
	WxHxD	mm	600x1196x757	600x1196x867	600x1196x977	600x1196x1087	600x1196x1197	600x1196x1307	600x1196x1417	600x1196x1527	600x1196x1637
CODE (see page 3)			**0I7J6BWA**	**0I7J7BWA**	**0I7J8BWA**	**0I7J9BWA**	**0I7JABWA**	**0I7JBBWA**	**0I7JCBWA**	**0I7JDBWA**	**0I7JEBWA**

GN4 N

CAST-IRON 3 PASS-FLUES BOILER, SUITABLE FOR INSTALLATION OF AN OIL OR GAS JET BURNER

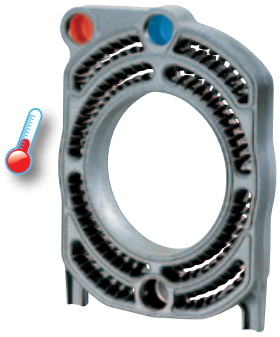
- High efficiency heat generator for liquid or gas fuel, **three flue passes**, cooled combustion chamber, for the production of hot water for central heating, suitable for operation either connected to a **traditional system** or connected to a **low temperature heating system**, with a minimum return temperature of 35°C
- G20 cast-iron boiler body made of sections to be assembled when installing the generator in the boiler room
- **Fitted for two-stage burners**
- Control board includes: thermometer, safety thermostat, 2 stages thermostat with presetting for indication leds, boiler switch, lodging for eventual flues thermostat and electronic controller

LOW TEMPERATURE OPTION

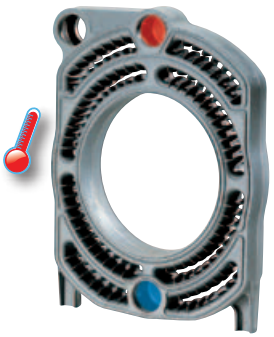
GN4 N is equipped with a double CH flow connection, thus offering the possibility of connection to circuits with different operating temperatures.

CH FLOW CONNECTION

CH RETURN CONNECTION

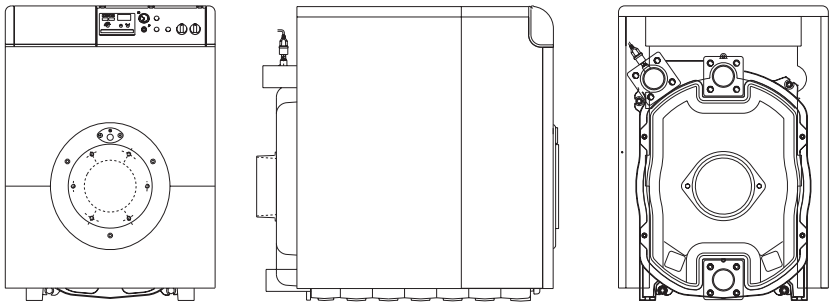


LOW TEMPERATURE CIRCUIT
with minimum CH return temperature 35°C



HIGH TEMPERATURE CIRCUIT
flow from upper connection and return to the lower one

SCHEME



SPECIFIC OPTION: 037000X0 section assembling tool for cast iron boilers

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REG. 812/2013

*** FOR GN4 N 07÷10, IN EUROPEAN COMMUNITY CAN BE SOLD ONLY AS A REPLACEMENT OF AN IDENTICAL MODEL**

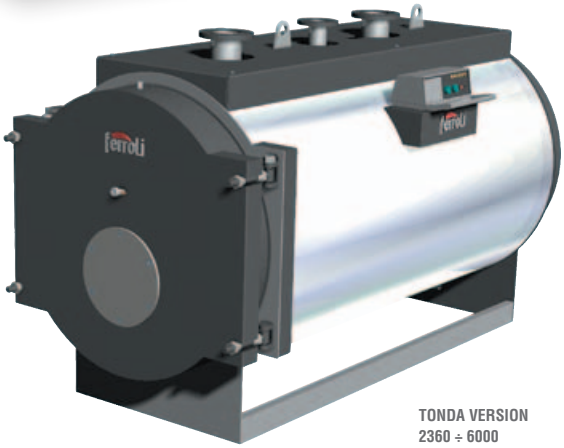
MODEL			GN 4 N 07	GN 4 N 08	GN 4 N 09	GN 4 N 10	GN 4 N 11	GN 4 N 12	GN 4 N 13	GN 4 N 14
Heat input	Max Min	kW kW	217 128	270 170	324 192	388 229	452 266	516 309	600 352	695 416
Heat output	Max Min	kW kW	200 120	250 150	300 180	360 215	420 250	480 290	560 330	650 390
Efficiency	 30%	Pmax % %	92,2 95,4	92,9 96,0	92,6 96,5	92,8 97,1	92,9 97,1	93,0 97,2	93,3 97,3	93,5 97,3
Number of elements		no.	7	8	9	10	11	12	13	14
Water content		dm^3	143	163	183	203	223	243	263	283
Combustion chamber	volume	dm^3	161,3	185,1	208,9	232,8	256,6	280,4	304,3	328,1
Heating operating pressure	Max	bar	6	6	6	6	6	6	6	6
Pressure drop: combustion chamber hydraulic		Δp mbar ΔT 20°C	0,5 20	0,8 30	0,7 42	1,0 54	1,4 65	1,7 77	2,6 88	3,5 100
Boiler body weight		kg	940	1050	1170	1270	1400	1510	1630	1740
Dimensions	WxHxD	mm	850x1193x1040	850x1193x1170	850x1193x1300	850x1193x1430	850x1193x1560	850x1193x1690	850x1193x1820	850x1193x1950
CODE (see page 3)			0I9J7CWA	0I9J8CWA	0I9J9CWA	0I9JACWA	0I9JBCWA	0I9JCCWA	0I9JDCWA	0I9JECWA

PREXTHERM RSW

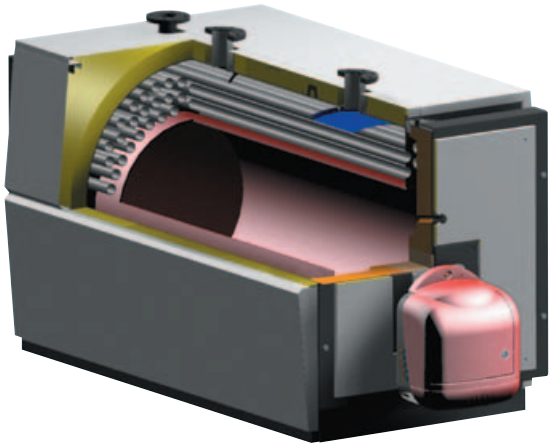
PRESSURISED STEEL BOILER

- 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

QUADRA VERSION
92 ÷ 1890



TONDA VERSION
2360 ÷ 6000



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REG. 812/2013

*** FOR MODELS 92÷350, IN EUROPEAN COMMUNITY CAN BE SOLD ONLY AS A REPLACEMENT OF AN IDENTICAL MODEL**

MANDATORY OPTION see page 28

Thermostatic control panel 0Q2K09XA

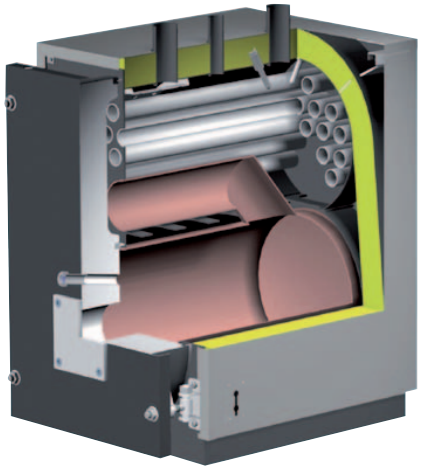
MODEL	HEAT OUTPUT		HEAT INPUT		PRESSURE DROP FLUE GAS SIDE	BODY EMPTY WEIGHT	WIDTH	HEIGHT**	DEPTH	CODE
	min kW	max kW	min kW	max kW	mbar	kg	mm	mm	mm	(see page 3)
92 N	60	92	64,3	99,5	0,5	260	800	925	1087	**0QIJ3AXA**
107 N	70	107	75	116	0,7	260	800	925	1087	**0QIJ4AXA**
152 N	100	152	107,3	165	1,2	350	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**

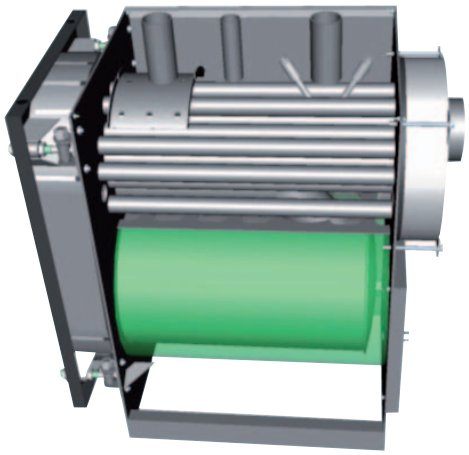
** Including water connections

TP3 LN

3-PASS FLUES STEEL BOILER

- Monobloc generator, **3-pass flues**, **small thermal load**, vertical layout and extremely compact front dimensions. Homologated for systems untill 100°C
- Ready for coupling with jet burners, operating with gas or oil and with low polluting emissions
- Large combustion chamber with **floating cooled back**
- Flues bundle for second and third flue-pass is situated in the top side of the combustion chamber. Flues tubes protudes from the plate, in order to **avoid condensation**
- **Steel turbolators**, increasing thermal efficiency of the generator. They have been carefully designed not to worsen flues pressure drop
- **High efficiency**. Ranges between 94,7% and 96,3% on LCV (t_{avg} 70°C)
- **Max operating pressure: 6 bars**. Higher pressure specifications upon demand
- Vertical connection are threaded until model 240 and flanged until model 600
- Completely insulated front door and **reversible opening** (right and left), thanks to an innovating mechanism on boiler body, with micrometric adjustment. Equipped with flame inspection hole and test point for combustion chamber back pressure





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*** FOR MODELS 70÷399, IN EUROPEAN COMMUNITY CAN BE SOLD ONLY AS A REPLACEMENT OF AN IDENTICAL MODEL**

MANDATORY OPTION see page **28**

Thermostatic control panel	0Q2K09XA

MODEL	HEAT OUTPUT	HEAT INPUT	PRESSURE DROP FLUE GAS SIDE	EMPTY WEIGHT	WIDTH	HEIGHT	DEPTH	CODE
	kW	kW	mbar	kg	mm	mm	mm	(see page 3)
70	70	73,9	0,8	236	670	1185	1130	**0RE099XA**
92	92	97,1	1,4	236	670	1185	1130	**0RE000XA**
107	107	112,9	2,4	332	670	1185	1555	**0RE100XA**
152	152	160,5	3,6	332	670	1185	1555	**0RE200XA**
190	190	200,8	3,4	460	760	1340	1570	**0RE300XA**
240	240	252,9	6,1	524	760	1340	1770	**0RE400XA**
320	320	335,7	3,9	833	820	1525	1990	**0RE600XA**
399	399	417,4	6,2	833	820	1525	1990	**0RE800XA**
500	500	522,8	4,3	1146	850	1615	2390	**0REB00XA**
600	600	627,2	6,3	1146	850	1615	2390	**0RED00XA**

BIOMASS BOILER AND STOVES

SFL

CAST IRON SOLID FUEL BOILER, HEATING ONLY

- Cast-iron boiler, **wood** or **coke** fired as a standard, or can be converted to **pellet** operation through a suitable kit
- Pellet conversion kit can be chosen for **pellet only permanent operation** (single door) or for **reversible pellet operation** (double door)
- Generous combustion chamber and large loading door, with front access
- **Adjustable smokes deflector** on back flues outlet
- Stainless steel ash tray with easy front access
- **Thermostatic regulator** supplied as a standard, in order to control flow temperature and combustion quality as well as consumptions
- Available as an option a safety overtemperature kit in case boiler's temperature reaches 95°C

DOUBLE DOOR SYSTEM FOR QUICKEST FUEL CONVERSION! (wood to pellet and viceversa)

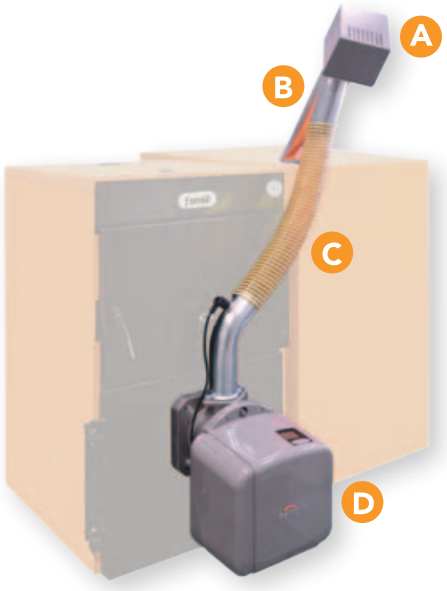
DESCRIPTION		CODE
	Safety valve + coil mod. 3[1]	032010X0
	Safety valve + coil mod. 4[1]	032011X0
	Safety valve + coil mod. 5[1]	032012X0
	Safety valve + coil mod. 6[1]	032013X0
	Safety valve + coil mod. 7[1]	032014X0
	Kit permanent pellet conversion SUN P7 N (SFL 3-4)[2]	035003X1
	Kit permanent pellet conversion SUN P12 N (SFL 5÷7)[2]	035005X0
	Kit reversible pellet conversion SUN P7 N (SFL 3-4)[3]	035004X0
	Kit reversible pellet conversion SUN P12 N (SFL 5÷7)[3]	035006X0

ERP COMPLIANT

[1] Mandatory in EU in case of wood or coke operation
[2] Consists in burner plate to be hinged on right side of the boiler
[3] Consists in burner plate to be hinged on left side of the boiler, complete with microswitch

MODEL			3	4	5	6	7
ErP Class (wood operation)		(G - A++ Class)	A+	A+	A+	A+	A+
Thermal output	wood	kW	19,0	27,0	36,0	43,0	50,0
	coke	kW	22,5	32,5	42,5	52,5	63,5
	pellet	kW	22,0	30,0	36,0	42,0	48,0
Number of elements		no.	3	4	5	6	7
Efficiency (EN 303-5)	wood - coke	class	3	3	3	3	3
	pellet	class	5	5	5	5	5
Burner matching			SUN P7 N	SUN P7 N	SUN P12 N	SUN P12 N	SUN P12 N
Water content		litres	26	30	34	38	42
Chamber content		dm^3	48	68	88	108	128
Heating operating pressure	Max	bar	4	4	4	4	4
Empty weight		kg	193	241	289	337	385
Dimensions	WxHxD	mm	520x940x423	520x940x533	520x940x643	520x940x753	520x940x863
CODE (see page 3)			**0ICJ3TWA**	**0ICJ4TWA**	**0ICJ5TWA**	**0ICJ6TWA**	**0ICJ7TWA**

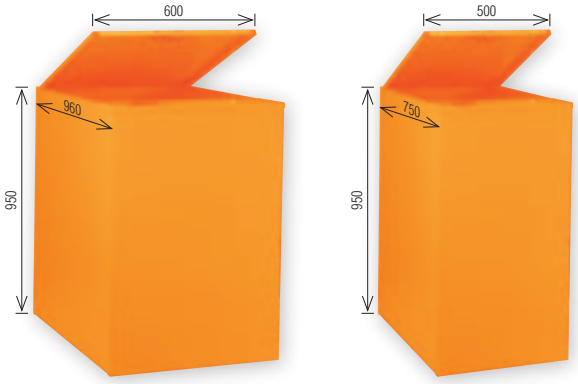
SUN P N JET PELLET BURNER



- **Ultra compact pellet burner**, supplied with the automatic loading system, complete with motor and feeding screw
- The **PCB, besides BMS functions,** governs central heating pump, DHW tank pump, 3 way valve for DHW tank, DHW temperature probe, room thermostat or remote control (OpenTherm input), remote contact 230 V
- **Interface display** with a large LCD and four buttons for the regulation. Control panel is positioned on the top of casing for an easier access for users and service technicians
- It's possible to set up the burner **running operation in three modes**: on-off or two differents flame modulation (5 steps of heat power)
- **Safety flame protection** thermostat (85°C) on board
- The burner offers many functions for protection or comfort purpose:
  * **WARM-UP** Keep boiler body at an (adjustable) temperature level
  * **AUTO-CONFIGURATION BOILER** The boiler can detect the connection of a DHW sensor and automatically changes its configuration from 'only heating" to 'combi boiler'
  * **OVER TEMPERATURE PROTECTION**
  * **LEGIONELLA PROTECTION PROGRAM**
  * **COMFORT** Maintains the exchanger of the boiler in a range of temperatures from 55°C to 75°C. This function is normally used in istantaneous DHW configuration
  * **ANTI-FREEZE** If the heating sensor (of the boiler) goes below 5°C the burner starts
- Two sizes of pellet storage box are available as optional. The small size type of 180 Kg and the biggest of 280 Kg

A feeding motor
B screw feed assembly
C PVC flexible feeding pipe
D burner unit

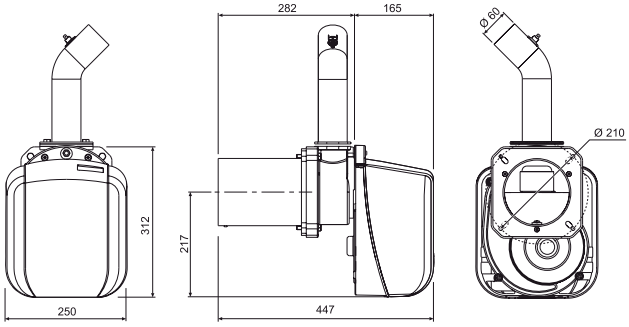
STORAGE BOX



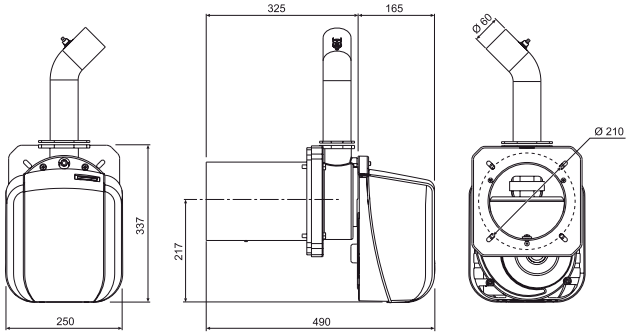
cod. 096004X0
Pellet storage box
350 dm³ - about 280 kg

cod. 096002X0
Pellet storage box
195 dm³ - about 180 kg

SUN P7 N



SUN P12 N



MODEL			7 N	12 N
Heat input	Max Min	kW kW	34,1 13,7	55,0 30,0
Fuel consumption	Max Min	kg/h kg/h	7,2 2,9	11,6 6,3
Max pellet dimension	diameter lenght	mm mm	6 35	6 35
Power input		V/Hz	230/50	230/50
CODE (see page 3)			**0U2F6DXA** *	**0U2F8DXA** *

> BOILER/BURNER COUPLING

BOILER		BURNER	
MODEL	CODE	MODEL	CODE
SFL 3	0ICJ3TWA	**SUN P7 N**	0U2F6DXA
SFL 4	0ICJ4TWA		
SFL 5	0ICJ5TWA	**SUN P12 N**	0U2F8DXA
SFL 6	0ICJ6TWA		
SFL 7	0ICJ7TWA		

* THE CODE INCLUDES: BURNER, MOTOR, FEEDING SCREW AND CONNECTION PIPE

> ACCESSORIES

CODE	DESCRIPTION
096002X0	PELLET STORAGE BOX (UNASSEMBLED) UNTILL 195 dm³
096004X0	PELLET STORAGE BOX (UNASSEMBLED) UNTILL 350 dm³
033001X0	SAFETY THERMOSTAT FOR PELLET BURNER (APPLICABLE ONLY FOR PERMANENT, IRREVERSIBLE CONVERSION TO PELLET)

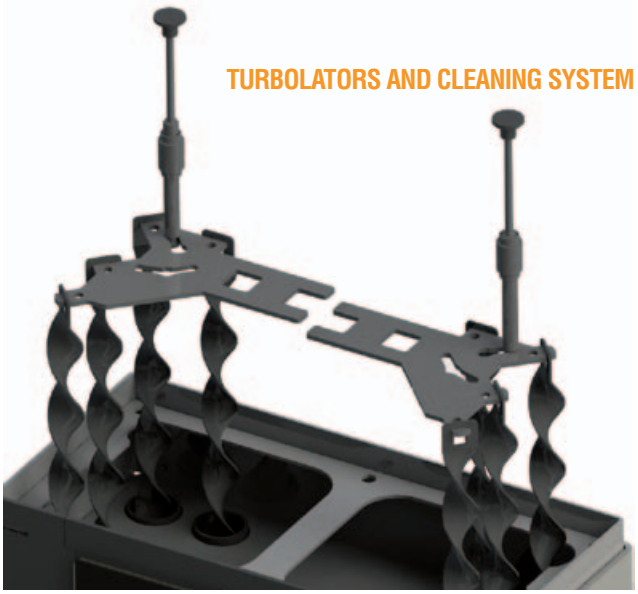
EASYFIRE

STANDALONE
PELLET BOILER

- **Very compact pellet boiler** for central heating, including automatic burner
- Steel combustion chamber, fully thermal insulated
- **Completely cooled flue pass.** Large volumes of the reversal collectors for the best control of the temperature and speed of flues, incorporating steel turbolators
- **Fully inspectable:** in addition to the two doors, the flue gas collectors can also be inspected at the bottom (through the side and center plugs) and at the top (removing the cover panel)
- Firebox with cast iron grate, designed for optimum distribution of primary and secondary air. **Double post-combustion of fumes**
- Control panel with a complete interface display and a set of keys for a very easy boiler setting
- Large capacity of the pellet daily stock: 70 kg for models 29 - 35 - 39 and 50 kg for models 17 - 24

BURNER
4 combustion levels

TURBOLATORS AND CLEANING SYSTEM



ERP COMPLIANT

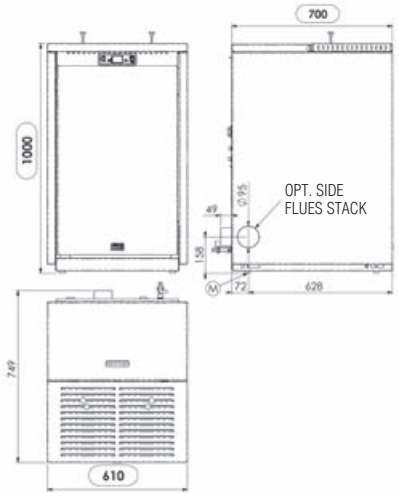
EASYFIRE			17	24	29	35	39
ErP Class		(G - A+++ Class)	A+	A+	A+	A+	A+
Heat input	Min	kW	4,4	4,4	6,4	6,4	6,4
	Max	kW	17,0	23,2	29,0	34,4	38,3
Heat output	Min	kW	4,2	4,2	5,8	5,8	5,8
	Max	kW	16,2	22,0	27,4	32,4	34,9
Efficiency	Pmax	%	95,7	94,5	94,5	94,2	91,3
	Pmin	%	95,1	95,1	90,1	90,1	90,1
Boiler class (EN 303-5 2012)			5	5	5	5	5
Fuel consumption	Pmax	Kg/h	3,5	4,8	6,0	7,1	7,9
	Pmin	Kg/h	0,9	0,9	1,3	1,3	1,3
Set temperature of water	Max	°C	80				
Working pressure	Max	bar	3				
Electrical power		V/Hz	230/50				
Rated input power		W	Start 440 W - Stand-by 3 W - Nominal output 85 W - Reduced output 30 W				
Dimensions	HxWxD	mm	1306x580x698		1300x700x700		
CODE* (see page 3)			**L40DB30A**	**L40EB30A**	**L40FB30A**	**L40GB30A**	**L40LB30A**

T

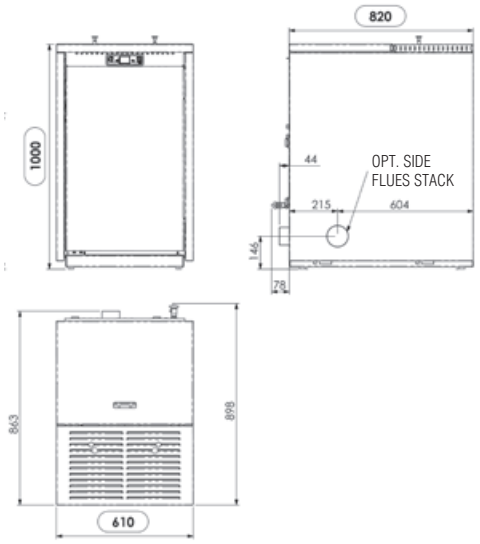
PELLET CENTRAL HEATING STOVE

- **Pellet stove for central heating**. Air grill on top side for residual **warm air** irradiation
- Combustion chamber with wide surface for thermal exchange with water. Completely insulated
- Steel turbulators. **Cleaning mechanism** can be manually activated through external knobs on the top of the
stove
- **Two front doors:** one with flame peephole, other for ash tray removal
- Safety explosion relief valve and vacuum switch on combustion chamber, along with air mass flow sensor
- Pressure transducer and safety valve on water side
- Safety thermostat on combustion chamber and pellet hopper
- The LCD interface includes a **weekly timer**. An external ambient thermostat can be used as an alternative
- **Remote control:** on/off, setpoint regulation, power regulation
- **Can manage DHW** function via tank probe/thermostat or DHW flowmeter.
- **Manages double pump** CH/DHW or single pump + diverter valve

T 18



T 23

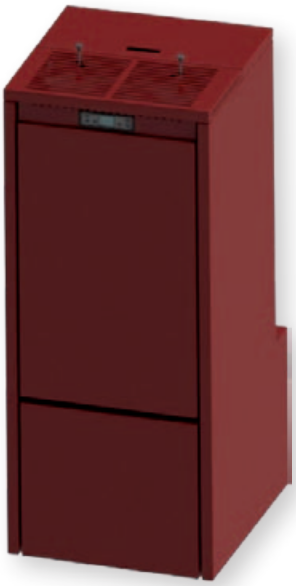


ERP COMPLIANT

T			18	23
ErP Class		(G - A⁺⁺ Class)	A⁺⁺	A⁺⁺
Heat input		kW	20,41 - 5,77	24,63 - 7,22
Nominal heat output		kW	19,00 - 5,50	23,00 - 6,85
Water heating output		kW	17,34 - 4,82	21,14 - 5,97
Room heating output		kW	1,66 - 0,68	1,86 - 0,88
Efficiency		%	93,11 - 95,28	93,40 - 94,75
Fuel consumption		kg/h	4,21 - 1,19	5,08 - 1,49
Emission CO		% mg/m³	0,007 - 0,01 84,7 - 121,8	0,010 - 0,005 128,0 - 68,1
Emission CnHm		mg/m³	0,7 - 1,1	0,3 - 0,8
Emission Nox		mg/m³	149,8 - 152,6	151,1 - 173,9
Emission dust PP		mg/m³	11,6 - 4,3	7,5 - 5,4
Total dust emission		mg/m³	12,1 - 4,7	7,6 - 5,7
Max working pressure		bar MPa	2 0,2	2 0,2
Hydraulic connections		"	1	1
Pellet hopper capacity		kg	30	40
Fume outlet pipe		mm	80	80
Electrical power			230V - 50Hz - 2A	230V - 50Hz - 2A
Rated input power		W	Start: 400 - P.nom: 85 - Stand-by: 3,4	Start: 400 - P.nom: 85 - Stand-by: 3,4
Dimensions		mm	1000 x 610 x 700	1000 x 610 x 820
Weight		kg	155	175
CODE* (see page 3)			**LS6MA30A**	**LS6NA30A**

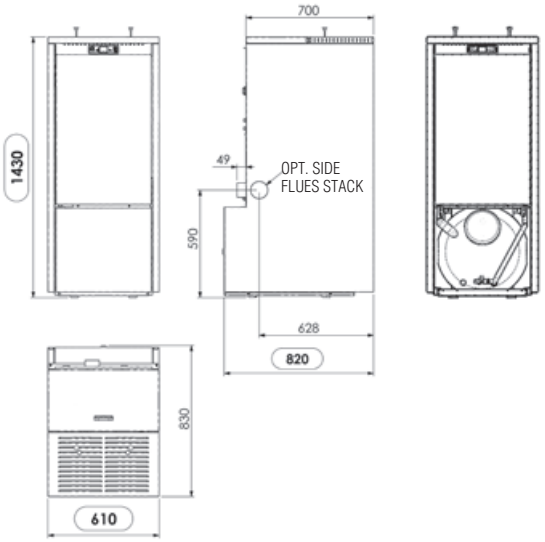
AT

PELLET CENTRAL HEATING STOVE, INCLUDING BUFFER TANK

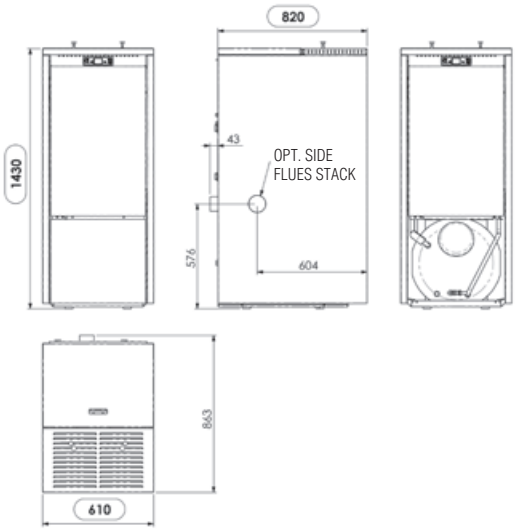


- Pellet stove for central heating. Air grill on top side for residual warm air irradiation
- Includes 100 lts DHW tank in stainless steel, protected by magnesium anode
- Combustion chamber with wide surface for thermal exchange with water. Completely insulated
- Steel turbulators. Cleaning mechanism can be manually activated through external knobs on the top of the stove
- Comburent air inlet from the internal ambient or from outside, through 50 mm Ø on the back
- Safety explosion relief valve and vacuum switch on combustion chamber, along with air mass flow sensor
- Pressure transducer and safety valve on water side
- Safety thermostat on combustion chamber and pellet hopper
- Pellet level sensor
- The LCD interface includes a weekly timer. An external ambient thermostat can be used as an alternative
- Remote control: on/off, setpoint regulation, power regulation

AT 18



AT 23



ERP COMPLIANT

T			18	23
ErP Class		(G - A++ Class)	A++	A++
Heat input		kW	20,41 - 5,77	24,63 - 7,22
Nominal heat output		kW	19,00 - 5,50	23,00 - 6,85
Water heating output		kW	17,34 - 4,82	21,14 - 5,97
Room heating output		kW	1,66 - 0,68	1,86 - 0,88
Efficiency		%	93,11 - 95,28	93,40 - 94,75
Fuel consumption		kg/h	4,21 - 1,19	5,08 - 1,49
Emission CO		% mg/m³	0,007 - 0,01 84,7 - 121,8	0,010 - 0,005 128,0 - 68,1
Emission CnHm		mg/m³	0,7 - 1,1	0,3 - 0,8
Emission Nox		mg/m³	149,8 - 152,6	151,1 - 173,9
Emission dust PP		mg/m³	11,6 - 4,3	7,5 - 5,4
Total dust emission		mg/m³	12,1 - 4,7	7,6 - 5,7
Max working pressure		bar MPa	2 0,2	2 0,2
Hydraulic connections		"	1	1
DHW connections		"	3/4"	3/4"
Pellet hopper capacity		g/s	30	40
Electrical power			230V - 50Hz - 2A	230V - 50Hz - 2A
Rated input power		W	Start: 400 - P.nom: 85 - Stand-by: 3,4	Start: 400 - P.nom: 85 - Stand-by: 3,4
Dimensions		mm	1430 x 610 x 820	1430 x 610 x 820
Weight		kg	190	210
CODE* (see page 3)			**LS6VA30A**	**LS6WA30A**

HYDRONIC SYSTEMS

RVL-I PLUS

REVERSIBLE HEAT PUMP FOR OUTDOOR INSTALLATION WITH DC INVERTER COMPRESSOR

ERP COMPLIANT

> GENERAL FEATURES

This series of air-water heat pumps meets the winter and summer comfort requirements in residential installations, as well as small-mid sized commercial ones.
The unit is suitable for **outdoor installation** and can produce **hot water up to 60°C**. It may be employed in systems with radiant floor, fancoils, radiators and for the indirect production of domestic hot water (DHW) via an external storage tank (not supplied).
The heart of the heat pump consists in the DC inverter compressor offering modulation from 30% to 120% on the rated capacity. High energy efficiency and low noise level are the main qualities of RVL-I PLUS. It can be employed as the only generator in the system, as well as in combination with other energy sources such as backup electric heaters or boiler.
A temperature probe for domestic hot water tank is supplied with the appliance. An external air temperature probe (already installed on the unit) permits the climatic control both in heating and cooling modes.
All the chillers are accurately built and individually tested in the factory. The installation requires only electrical and plumbing connections.

> REFRIGERANT CIRCUIT

It is contained in a protected compartment to simplify the maintenance operations. A **DC inverter compressor**, twin rotary type, ensures great dynamic balance and reduces vibrations. It is placed on vibration-damping rubber supports and wrapped by a double layer of sound-absorbing material to minimise the noise. Furthermore, the compressor is equipped with crankcase oil heater. The circuit includes a stainless steel brazed **plates heat exchanger** complete with antifreeze heater, electronic expansion valve, 4-way valve, finned coil consisting in copper tubes and aluminium fins, **axial fans with brushless DC motor** complete with safety protection grilles. The variable speed control of the fans permits a correct operation both in case of low outdoor temperatures -in cooling mode- or warm outdoor climate in heating mode

> HYDRAULIC CIRCUIT

It is inside in a compartment, protected from the air flow, to simplify the maintenance operations. It comprises an electronic circulator (brushless DC motor), water flow switch, automatic air vent, water pressure gauge, expansion vessel, safety valve, water filter. The plate heat exchanger and water piping are thermally insulated to prevent condensation on the external surfaces and reduce temperature loss.

> ACCESSORIES

- ELECTRICAL BOOSTER (BACKUP HEATER BOX) Suitable for indoor installation, it consists in an electric heating element (3kW, 230V-1-50) mounted inside a painted sheet metal box, complete with electrical control panel. The heat pump uses the booster for integration purposes. It is used also as a backup out of the operational limit conditions or for alarm.
- RUBBER ANTIVIBRATION DAMPERS
- BUFFER TANK 60-liter tank in painted sheet metal, thermally insulated. The cylinder is included inside a box, which can be positioned below the heat pump.

> CONTROL SYSTEM

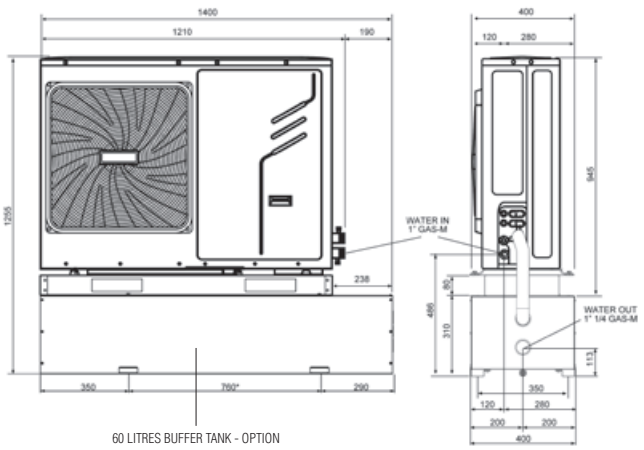
The internal controller manages the inverter system and the correct operation of the compressor. It integrates regulation algorithms based on pre-set climatic curves, which can be selected by the user. It is then possible to handle the DHW circuit, alarm alerts, pump anti-seize cycle and integration with external heating sources. An evolved timer is included for climatic and acoustic comfort program.

The user interface - consisting in a wired panel - permits the operations listed below:
- HEATING AND COOLING SYSTEM The unit, when active in heat or cool mode, modulates the frequency of the compressor with the aim to keep system temperature to the setpoint value.
- DOMESTIC HOT WATER PRODUCTION (DHW) The unit operates in heating mode to reach and keep the temperature inside a DHW cylinder (not supplied) to the setpoint value. A 3-way diverter valve (not supplied) is needed, together with a temperature sensor (T5 probe, L = 10m, provided) to be inserted into one well of the DHW tank.
- ADDITIONAL HEATING SOURCES (boiler or electric heating element). Depending on the parameters set, these sources can intervene as integration of the heat pump, when there is requirement for space heating or for DHW production. The external sources can be automatically switched on, also as a backup, in case the heat pump cannot work for anomaly error or operational temperature limits.
- ELECTRIC HEATER IN THE DHW TANK It is possible to handle the electric heating element of the DHW cylinder as an integration/backup or for legionella protection cycle.
- FAST DHW This manual function permits to reach DHW setpoint in the shortest time, using all available heating sources.
- LEGIONELLA PROTECTION it is possible to set weekly cycles of DHW disinfection, via temperature increase. For this purpose, the heat pump needs energy supplement by heating element inside DHW tank or a boiler.
- SILENT MODE Provided the function is enabled, it is possible to schedule up to 2 periods (normally night/rest ones) when the appliance shall operate in low-noise mode. The maximum frequency of the compressor will be thus reduced, together with fan's speed. Acoustic drop rate can be set in 2 levels.
- REMOTE ON / OFF using an external contact. The unit can be switched on and off via an external contact.
- HEATING / COOLING REQUEST via external contacts. The unit can be activated in heating or cooling mode via two external contacts (eg. room thermostats).
- ECO/COMFORT It is possible to define daily time bands and corresponding set point for ECO and COMFORT modes, either in heating or cooling operation
- WEEKLY TIMER Scheduling on 6 time bands per each day of the week, with specification of the operating mode (COOL / HEAT / DHW) and the required setpoint.
- ANTIFROST PROTECTION Guaranteed for outdoor air temperature down to -20°C, thanks to the intervention of all the available sources inside the heat pump: the machine operating in heating mode, together with the onboard electric heating element (as a standard on the plate heat exchanger) and the electric booster (if installed).

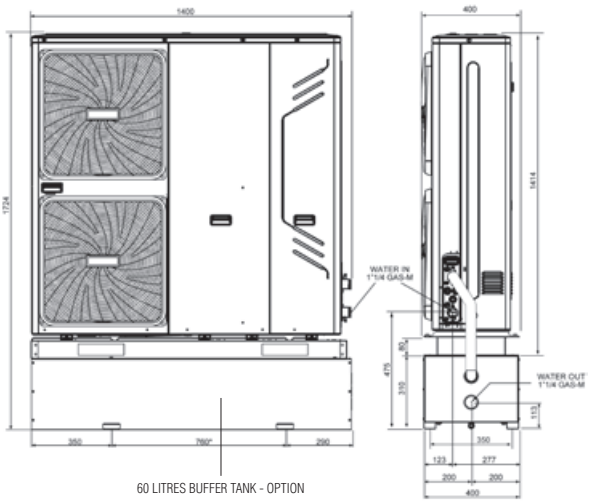
REMOTE CONTROLLER (REM CC)
AS A STANDARD

DIMENSIONS

mod. 5 - 7 - 9

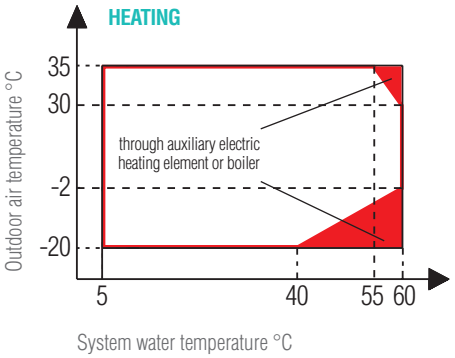


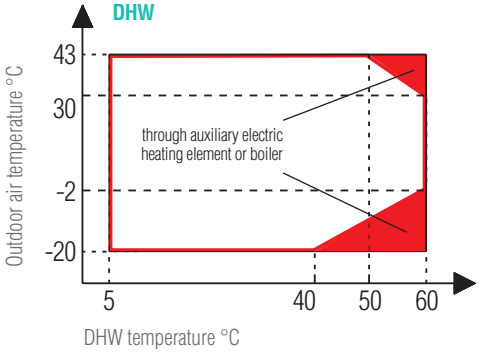
mod. 12 - 12T - 14T - 16T

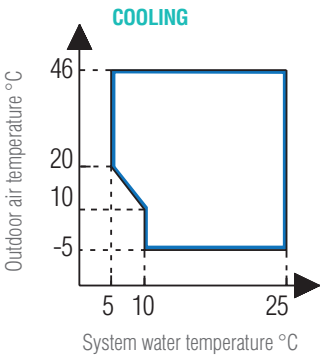


MODEL	5	7	9	12	12T	14T	16T
Package dimensions (mm)	1500x1140x450			1475x1580x440			
Net weight \ Gross weight (kg)	99 / 117			162 / 178	177 / 193	177 / 193	177 / 193

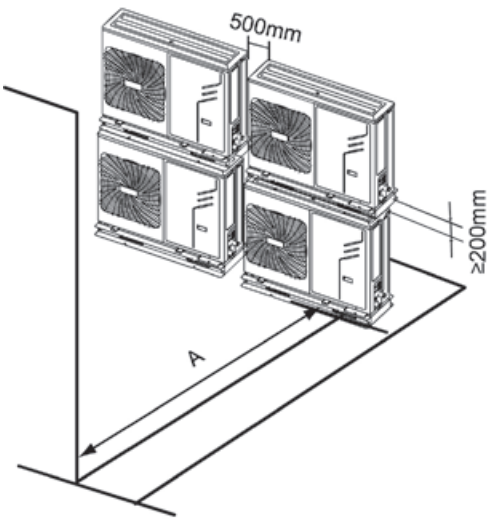
OPERATION LIMITS

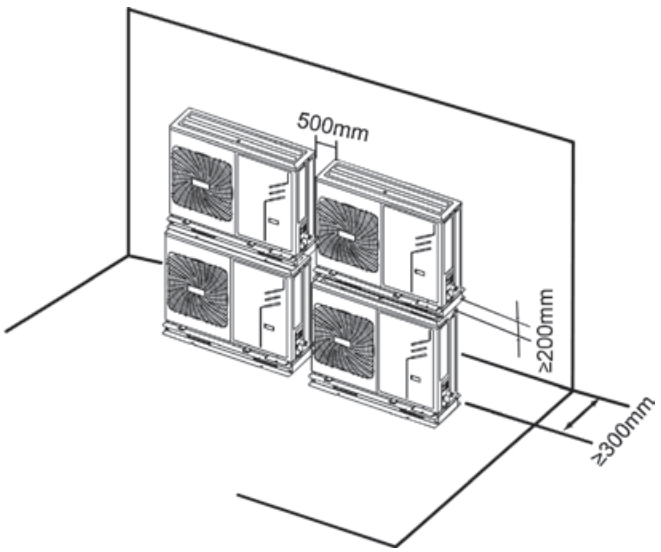






MINIMUM CLEARANCE





MODEL	5	7	9	12	12T	14T	16T
A (mm)	1000			1500			

TECHNICAL DATA

GENERAL DATA		5	7	9	12	12T	14T	16T
ERP efficiency capacity / Seasonal efficiency (%) medium temperature (water 55°C)	(G - A++ Class)	A++ 126	A++ 126	A++ 127	A++ 129	A++ 131	A++ 128	A++ 126
ERP efficiency capacity / Seasonal efficiency (%) low temperature (water 35°C)	(G - A++ Class)	A++ 176	A++ 178	A++ 163	A++ 166	A++ 175	A++ 168	A++ 164
Power supply	V-ph-Hz	230-1-50				400-3-50	400-3-50	
Compressor type	-	Twin Rotary DC						
N° compressors / N° refrigerant circuits	n°	1/1						
Plant side heat exchanger type	-	stainless steel brazed plates						
Source side heat exchanger type	-	finned coil						
Fans type	-	DC axial						
N° fans	n°	1			2			
Expansion tank volume	l	2			5			
Water safety valve set	bar	3			3			
Hydraulic fittings	“	1”			1-1/4”			
Minimum water content on the system	l	20 (obtainable eventually integrating a buffer tank)						
DHW boiler - minimum surface of the coil	m^2	1,4			1,7			
Refrigerant type	-	R410A			R410A			
Refrigerant charge	kg	2,40			3,60			
Control type	-	remote wired						
SWL - Sound power level*	dB(A)	61	65	68	70	70	71	72
SPL - Sound pressure level at 1mt**	dB(A)	46	50	53	55	55	56	57
Maximum current input	A	16	16	20	32	16	16	16

* **SWL =** Sound power levels, with reference to $1x10^{-12}$ W. The Total sound power level in dB(A) measured in compliance with ISO 9614 standards. The Total Sound Power in db(A) the only binding acoustic specification.
** **SPL** = Sound pressure levels, with reference to $2x10^{-5}$ Pa. The sound pressure levels are values calculated by applying the ISO-3744 relation.

PERFORMANCE DATA				5	7	9	12	12T	14T	16T
A7W35	Heating capacity	W	nom	4600	6600	8600	12170	12370	14100	16300
		W	min-max	1341-5800	1909-7574	2507-9500	3529-12657	3606-14651	4110-16700	4751-19306
	Power input	W	nom	970	1460	2000	2730	2760	3260	3880
		W	min-max	283-1280	420-1957	580-2561	792-3000	799-3876	944-4578	1124-5449
	COP	W/W		4,72	4,52	4,3	4,46	4,48	4,33	4,20
	Water flow rate	l/h		791	1135	1474	2093	2128	2425	2804
A7W45	Heating capacity	W	nom	4700	6700	9200	12580	12020	14100	16060
		W	min-max	1370-5500	1953-7700	2682-9200	3663-13321	3504-12958	4110-15200	4681-17313
	Power input	W	nom	1440	2055	2640	3860	3720	4460	5230
		W	min-max	417-1833	595-2628	764-2636	1118-4451	1078-4371	1293-5241	1516-6146
	COP	W/W		3,27	3,26	3,49	3,26	3,23	3,16	3,07
	Water flow rate	l/h		808	1152	1577	2164	2067	2425	2762
A35W18	Cooling capacity	W	nom	4550	6450	8350	12190	12640	14000	15100
		W	min-max	1320-4921	1872-7000	2423-9100	3538-12357	3668-13362	4063-14800	4382-15963
	Power input	W	nom	1000	1470	2100	2650	2750	3260	3780
		W	min-max	304-1158	445-1719	632-2364	805-2806	837-3038	992-3601	1150-4175
	EER	W/W		4,55	4,39	3,97	4,6	4,6	4,29	4,00
	Water flow rate	l/h		783	1109	1431	2097	2174	2408	2597
A35W7	Cooling capacity	W	nom	4600	6700	8100	12210	12580	13800	15260
		W	min-max	1479-5430	1947-7000	2351-8300	3544-12210	3654-12580	4005-13800	4432-15260
	Power input	W	nom	1560	2570	3520	4170	4320	5150	6410
		W	min-max	527-2011	773-2857	1058-3756	1270-4165	1313-4319	1565-5149	1948-6409
	EER	W/W		2,95	2,61	2,3	2,93	2,91	2,68	2,38
	Water flow rate	l/h		791	1152	1389	2100	2164	2374	2625
CODE (see page 3)				**2C09700F**	**2C09701F**	**2C09705F**	**2C09706F**	**2C09707F**	**2C09704F**	**2C09709F**

The values are referred to units without options and accessories.
Data declared according to **EN 14511**:
EER (Energy Efficiency Ratio) = ratio of the total cooling capacity to the effective power input of the unit
COP (Coefficient Of Performance) = ratio of the total heating capacity to the power input of the unit effective

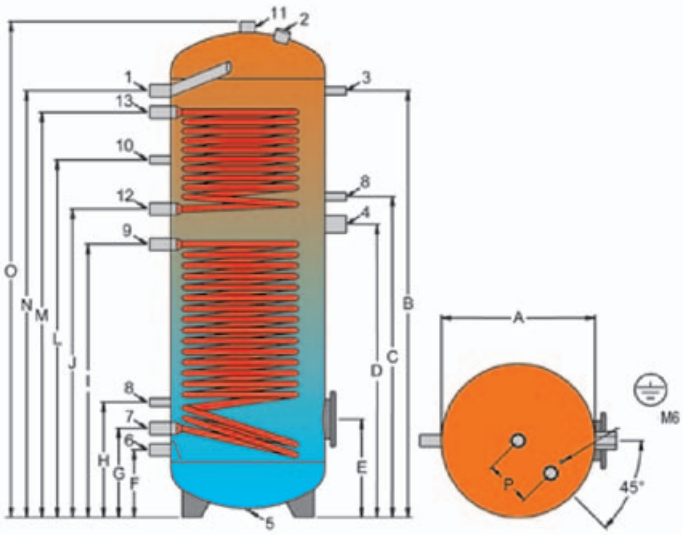
A35W7 = source : air in 35°C d.b. / plant : water in 12°C out 7°C
A35W18 = source : air in 35°C d.b. / plant : water in 23°C out 18°C
A7W45 = source : air in 7°C d.b. 6°C w.b. / plant : water in 40°C out 45°C
A7W35 = source : air in 7°C d.b. 6°C w.b. / plant : water in 30°C out 35°C

ACCESSORIES	DESCRIPTION
2C0970AF	Electric booster 3kW 230-1-50 for internal installation
2C0970BF	System flow temperature probe 10 mt
2C0970CF	Rubber antivibration kit RVL-I PLUS
2C0970DF	KFI 60 lt buffer tank RVL-I PLUS

ECOGEO-2 PC DHW CYLINDER FOR HEAT PUMP + BOILER

- DHW cylinder, integrating 2 coils in carbon steel and anodic protection. Lower coil is generously dimensioned for connection of the heat pump
- Internal surface treatment: vitrification, according to DIN 4753-3 and UNI 10025
- Insulation in rigid PU, 50 mm thickness
- Preset for electric heating element (not supplied)

ITEM (mm)	200	300	500
A	500	500	650
B	1000	1390	1425
C	885	1045	1060
D	810	955	960
E	320	320	365
F	220	220	265
G	290	290	345
H	375	375	440
I	750	890	880
J	835	1005	1015
L	905	1165	1170
M	975	1320	1330
N	1070	1390	1415
O	1215	1615	1690
P	150	150	150



CONNECTIONS		200-300-500
1	DHW supply	1"
2	Anode	1" 1/4
3	Thermometer - probe	1/2"
4	Electric heating element	1" 1/2
5	Drain	1/2"
6	Cold water inlet	1"
7	Coil return	1"
8	Thermostat	1/2"
9	Coil flow	1"
10	Recirculation	1/2"
11	DHW supply	1" 1/4
12	Upper coil return	1"
13	Upper coil flow	1"

ERP COMPLIANT

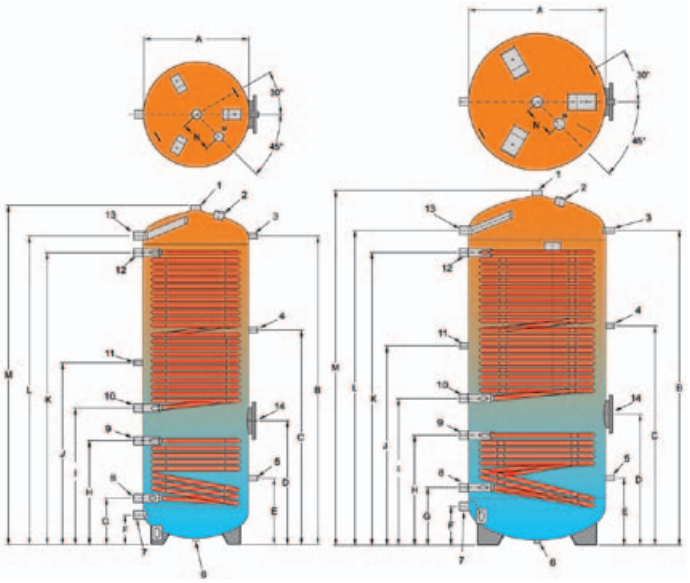
ECOGEO-2 PC		200	300	500
ERP Class	(F - A+ Class)	C	C	C
Total volume	l	196	273	475
Max operating pressure / coils pressure	bar	10 / 10	10 / 10	10 / 10
External diameter including insulation	mm	600	600	750
Total height	mm	1215	1615	1690
Empty weight	kg	95	130	170
Upper / lower coil surface	m^2	0,5 / 1,5	1,1 / 1,8	1,3 / 2,2
DHW production 80-60°C / 10-45°C (lower / upper coil)	m^3h	0,3 / 0,9	0,7 / 1,1	0,8 / 1,4
CODE (see page 3)		**20Z14950**	**20Z14960**	**20Z14970**

ECOGEO-2 SP

DHW CYLINDER
FOR HEAT PUMP + SOLAR THERMAL

- DHW cylinder, integrating 2 coils in carbon steel and anodic protection. Upper coil is generously dimensioned for connection of the heat pump
- Internal surface treatment: vitrification, according to DIN 4753-3 and UNI 10025
- Insulation in rigid PU, 50 mm thickness
- Preset for electric heating element (not supplied)

ITEM (mm)	300	500
A	500	650
B	1470	1500
C	1020	1045
D	590	625
E	315	320
F	140	185
G	220	275
H	495	525
I	650	700
J	865	950
K	1390	1395
L	1470	1500
M	1615	1690
N	150	150



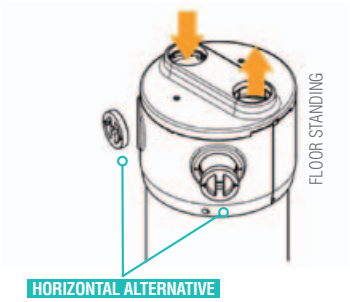
CONNECTIONS		300-500
1	DHW supply	1" 1/4
2	Anode	1" 1/4
3	Thermometer / probe	1/2"
4	Thermostat	1/2"
5	Thermostat	1/2"
6	Drain	1/2"
7	Cold water inlet	1"
8	Lower coil return	1"
9	Lower coil flow	1"
10	Upper coil return	1"
11	Recirculation	1/2"
12	Upper coil flow	1"
13	DHW recirculation	1"
14	Electric heating element (not supplied)	1/2"

ERP COMPLIANT

ECOGEO2-SP		300	500
ERP Class	(F - A+ Class)	C	C
Total volume	l	291	500
Max operating pressure / coils pressure	bar	10 / 6	10 / 6
External diameter including insulation	mm	590	740
Total height	mm	1615	1710
Empty weight	kg	140	245
Upper / lower coil surface	m^2	3,7 / 1,2	5,2 / 1,8
DHW production 60-50°C / 10-45°C (upper coil)	m^3h	0,45	0,68
DHW production 80-60°C / 10-45°C (lower coil)	m^3h	0,71	1,08
CODE (see page 3)		**20Z14670**	**20Z14680**

AQUA¹ PLUS AIR-WATER HEAT PUMPS FOR DOMESTIC HOT WATER PRODUCTION

ERP COMPLIANT



HORIZONTAL ALTERNATIVE

> 2 MODELS

> LT (LOW-TEMPERATURE)
Air inlet -7°C / +38°C
Only Floor standing set-up, models **200-260**
Including auxiliary solar coil

> HT (HIGH-TEMPERATURE)
Air inlet +4°C / +43°C
Floor standing set-up, models **160 -200-260**
Wall-hung set-up, model **90**

GENERALITIES
Air water heat pump for domestic hot water preparation. Storage in enamelled steel with anode protection, externally wrapped condenser for the highest safety and hygiene. Rotary compressor R134A coolant. Max setpoint temperature 56°C from renewable energy. Tank is insulated by a 50 mm tick PU layer.
Digital programmable electronics, heating settable integration with solar **(model LT)** or electric heating element (up to 70°C). Power settable integration with solar PV system.

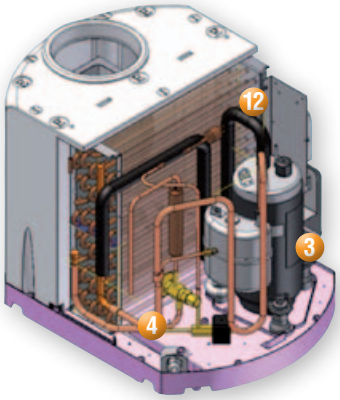
ELECTRONICS
Includes a display, showing temperatures, parameters, alarms, operation status. Weekly timer included.
Operation strategies are the following:
AUTO: heat pump operation as a standard. Heating element over 56°C or as low-temperature backup
ECO: heating element disabled
OVERBOOST: combined temporary operation for quick warming.

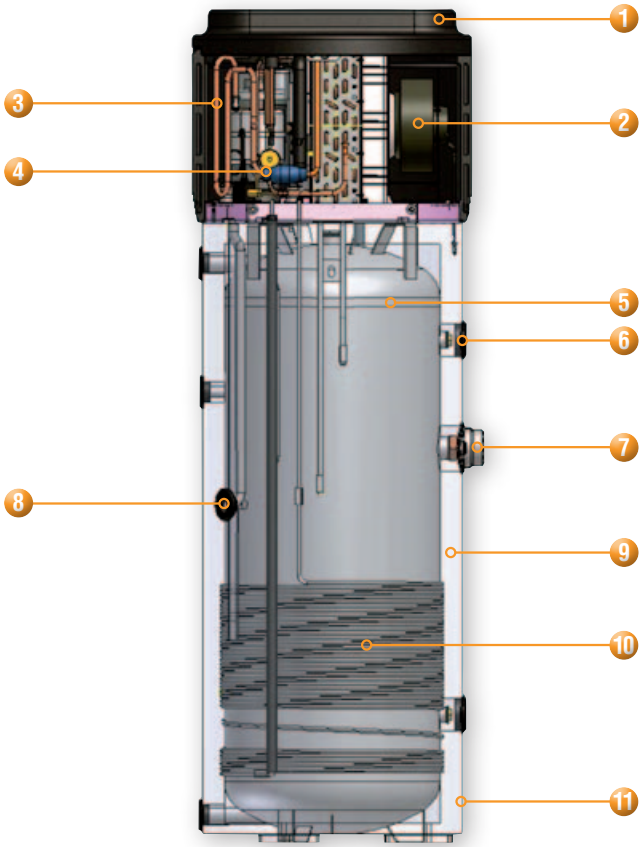
DUCTING POSSIBILITIES
It is possible to draw air from an internal room or from outside. The latter condition is applicable also to model HT, provided the outdoor temperature is at least +4°C. The ducting manifold may be arranged in order to divert cooled exhaust air to an adjacent room during summer season and get a free-cooling service.
Air connections are on the top of the appliance, but, on floor standing model, also on the back, as an alternative.

SOLAR INTEGRATION
POWER: Electronics reserves a dedicated setpoint in case of electric supply from PV. It is thus possible to exploit free solar energy in order to boost DHW production at higher temperature and then stock hot water for longer time.
HEATING: Available on LT models only. When solar heating is enabled, heat pump operation will be stopped for a set period, in order maximise efficiency of DHW production through solar energy.

COMPONENTS

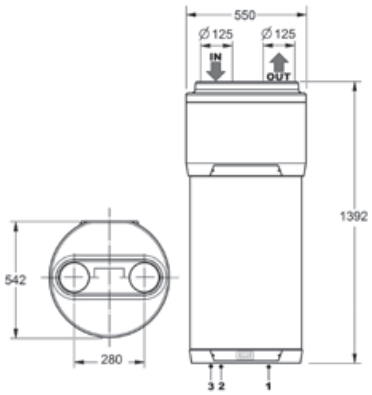
KEY
1 Soundproof thermic insulation in PPE
2 Axial-centrifugal fan
3 Rotary compressor, R143a gas
4 Refrigerant circuit including thermostatic valve
5 Storage tank in enamelled steel
6 Magnesium anode
7 Auxialiary heating element
8 Condensate drain connection
9 50 mm PU tank insulation
10 Aluminium condenser, externally wrapped around the tank
11 Embossed ABS external lining
12 Finned evaporator including Al-tube without welding



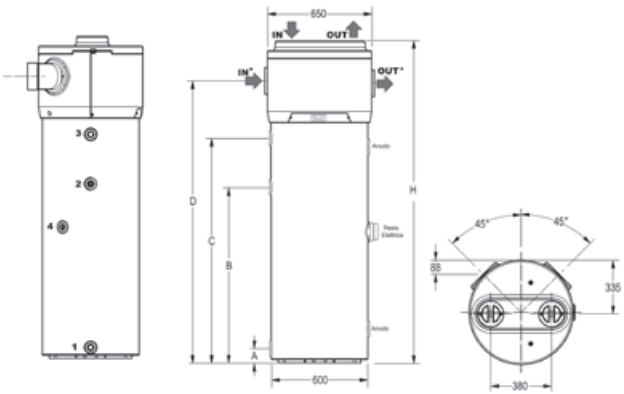


DIMENSIONS

mod. HT 90



mod. HT 160 / 200 / 260

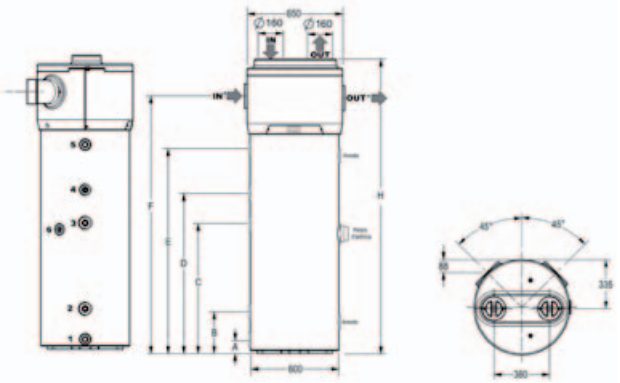


MODEL 90	
1 Cold water inlet	G 1/2
2 DHW supply	G 1/2
3 Condensate drain	G 1/2

MODELS 160 / 200 / 260	
1 Cold water inlet	G 1
2 Recirculation	G 3/4
3 DHW supply	G 1
4 Condensate drain	G 1/2

ITEM (mm)	160	200	260
A	68	68	68
B	1085	1085	1085
C	894	1104	1394
D	1254	1464	1754
H	1504	1714	2004

mod. LT 200 / 260



MODELS 200 / 260	
1 Cold water inlet	G 1
2 Solar coil	G 1" 1/4
3 Solar coil	G 1" 1/4
4 Recirculation	G 3/4
5 DHW supply	G 1
6 Condensate drain	G 1/2

ITEM (mm)	200	260
A	68	68
B	275	275
C	570	860
D	1085	1085
E	1104	1394
F	1464	1754
H	1714	2004

AQUA[1] PLUS			90 HT	160 HT	200 HT	260 HT	200 LT	260 LT
Erp class	(F - A⁺ Class)		A⁺	A⁺	A⁺	A⁺	A⁺	A⁺
Heat pump	Heating capacity (ISO)	W	1005	1600	1600	1600	1820	1820
	Total power input in heating (ISO)	W	210	370	370	370	430	430
	COP (ISO)	W/W	4,79	4,32	4,32	4,32	4,23	4,23
	Max power input	W	270	500	500	500	530	530
	Warming up time (EN) (1)	h:min	5:30	6:41	7:16	9:44	8:17	10:14
	Warming energy (EN) (1)	kWh	1,20	2,68	2,83	3,74	3,25	3,99
	Stand-by input (EN) (1)	W	14	29	27,3	31	29	29
	Class of usage (EN) (1)	Type	M	L	L	XL	L	XL
	Power consumption during cycle of use WEL-TC (EN) (2)	kWh	2,20	4,43	4,18	6,17	3,97	6,19
	COP DHW (EN) (1)	W/W	2,70	2,63	2,80	3,10	2,94	3,08
	Reference temperature (EN) (1)	°C	50,8	55,9	51,4	53,7	53,7	52,7
	Max. quantity of water usable (EN) (2)	m³	0,094	0,233	0,260	0,358	0,275	0,342
	Heating efficiency. Ref St. (EU)	%	104	104	110	121	117	121
	Energy efficiency. Ref St. (EU)	-	A	A	A	A	A	A
	Annual power consumption (EU)	kWh/year	489	986	929	1384	879	1393
Electric heating	Capacity	W	1200	1500	1500	1500	1500	1500
Heat pump + electric heating	Total power input	W	1410	1870	1870	1870	1960	1960
	Max total power input	W	1470	2000	2000	2000	2030	2030
Tank	Volume	l	87	158	199	255	196	248
Solar coil	Total surface (ISO)	m²	-	-	-	-	0,6	1,0
	Max pressure (ISO)	Mpa	-	-	-	-	0,7	0,7
Sound power level		dB(A)	60	59	59	59	60	60
Weight	Net	kg	48,5	70	80	100	99	115,2
CODE (see page 3)			2C0B600F	2C0B601F	2C0B602F	2C0B603F	2C0B604F	2C0B605F

NOTE: Standard power supply 230-1-50 V/Hz, limit power supply 207-254 V **(1):** Heating cycle: Ambient temperature = 15°C B.S. / 12°C B.U. • Initial water temperature = 10°C **(2):** Use temperature 40°C • inlet water temperature 10°C **(ISO):** Data according to the standard ISO 255-3 **(EN):** Data according to the standard EN 16147:2011 **(EU):** Data according to the standard EU 812/2013

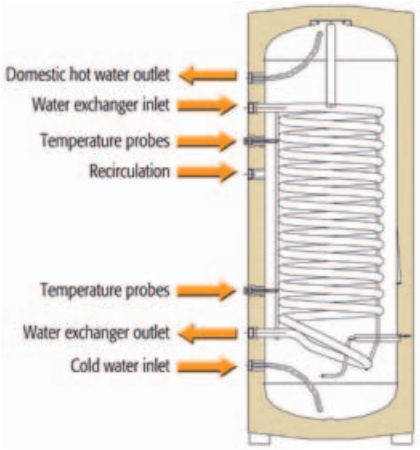
SYSTEM COMPLEMENTS

ECOUNIT F

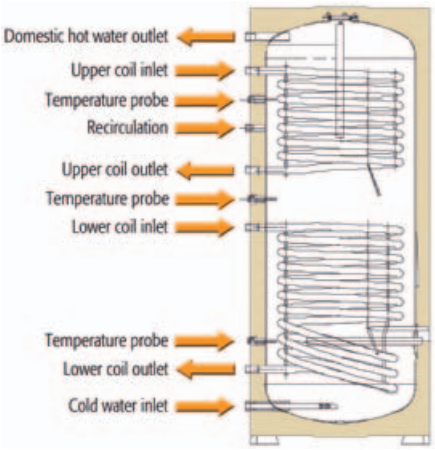
INDIRECT CYLINDER - WITH SINGLE OR DOUBLE COIL

- Indirect cylinder for domestic hot water preparation through single/double coil
- **Model 1C** is equipped with a **single, extended coil,** widely covering necessary part of the container to be heated
- **Model 2C** includes **two coils**, for connection to multiple heat sources
- Container in carbon steel, enamelled with Bluesilicon highly hygienic process
- Equipped with a 1,5 kW backup electric heating element
- Generous insulating layer, 50 mm, on whole surface of the container
- Robust **ABS thermometer**
- Connection for recirculation
- Max operating temperature 95°C - Max pressure 8 bar
- Magnesium anode lodged in a very large flange

SINGLE COIL MODEL



DOUBLE COIL MODEL

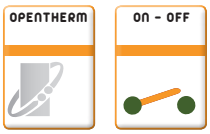


ERP COMPLIANT

MODEL				100 1C	150 1C	200 1C	300 1C	400 1C	500 1C	200 2C	300 2C	400 2C	500 2C
Erp Class		(F - A+ Class)		C	C	C	C	C	C	C	C	C	C
Nominal capacity			litres	100	150	200	300	400	500	200	300	400	500
TOP COIL	Power output	Δt 35 K	kW	-	-	-	-	-	-	12,5	18	29,6	29,6
	DHW flow rate	Δt 35 K	l/h	-	-	-	-	-	-	306	444	726	726
		Δt 50 K	l/h	-	-	-	-	-	-	216	310	510	510
	Heating time	Δt 35 K	min	-	-	-	-	-	-	39	41	33	41
		Δt 50 K	min	-	-	-	-	-	-	56	58	47	59
	Coil exchanger surface		m^2	-	-	-	-	-	-	0,5	0,72	1,19	1,19
	Coil lenght		m	-	-	-	-	-	-	6,38	9,17	11,43	11,43
	Coil flow resistance		mbar	-	-	-	-	-	-	155	220	58	58
	Nominal coil flow rate		m^3/h	-	-	-	-	-	-	2	2	3	3
BOTTOM/MAIN COIL	Power output	Δt 35 K	kW	18,5	31,25	35	45,75	59,25	84,75	20,75	25	38,1	55
	DHW flow rate	Δt 35 K	l/h	450	790	860	1120	1440	2060	510	618	936	1350
		Δt 50 K	l/h	318	537	606	774	1020	1458	357	430	655	945
	Heating time	Δt 35 K	min	13	11,5	14	16	17	14,5	24	29	26	22
		Δt 50 K	min	19	17	20	23	24	21	34	42	37	32
	Coil exchanger surface		m^2	0,74	1,25	1,4	1,83	2,37	3,39	0,83	1	1,52	2,2
	Coil lenght		m	9,3	15,8	17,7	23,3	22,8	32,6	10,52	12,72	14,7	21,2
	Coil flow resistance		mbar	228	386	432	565	118	167	254	308	75	109
	Nominal coil flow rate		m^3/h	2	2	2	2	2	2	2	2	3	3
Heat loss			kWh/24h	1,6	1,8	2,2	2,7	2,9	3,5	2,2	2,7	2,9	3,5
Weight empty			kg	45	64	73	103	126	155	73	102	126	155
Dimensions		ø x H	mm	500x978	500x1325	540x1453	620x1535	750x1469	750x1769	540x1453	620x1535	750x1469	750x1769
CODE (see page 3)				**GRZ1010A**	**GRZ3010A**	**GRZ4110A**	**GRZ6310A**	**GRZ7410A**	**GRZ8410A**	**GRZ4120A**	**GRZ6320A**	**GRZ7420A**	**GRZ8420A**

ELECTRONIC DEVICES

MATCHING GUIDE



OPENTHERM-READY BOILERS*

DIVATECH D
BLUEHELIX family
DIVACONDENS D
ENERGY TOP
QUADRIFOGLIO B
ATLAS D - D CONDENS family
PEGASUS D family
SUN P N

BOILERS WITH ON/OFF HEAT REQUEST ONLY

Analogue PEGASUS
Analogue ATLAS
GN 2 / 4 N
TP3 family
PREXTHERM
LEB

* Opentherm - ready boilers support also on-off devices as an alternative

ROMEO - modulating remote control

ROMEO W: weekly

BRIDGE*

* Receiver for Wireless version

- **Weekly** programming, max 6 periods a day
- Permits complete control of boiler's status and functions remotely, thanks to **Opentherm** communication protocol
- Permits **modulation of flow temperature** as room temperature approaches to setpoint, thus avoiding annoying temperature fluctuation in the room
- Boiler **remote restart** in case of a temporary shutdown
- **Holiday function**, settable from 1 hour to 45 days
- **Phone contact input**, for remote boiler switch on/off
- **Model RF** features **wireless** transmission from/to boiler's control board

COMPATIBILITY
Opentherm-ready boilers

CODES

ROMEO W	013100XA
ROMEO W RF	013101XA

OSCAR - on-off programmable thermostat

OSCAR W: weekly

BRIDGE*

* Receiver for Wireless version

- **Weekly** programming, max 6 periods a day
- Preset standard program, which can be completely customised
- Manual mode available
- Relay with voltage-free contact (24 to 230 V)
- Operated by 2xAA type batteries
- Extra functions for all models: **pump anti-seize, pre-heating, holiday**, **week-end**, **party**
- Phone contact input, for remote boiler switch on/off
- Model **RF** features **wireless** transmission to boiler's control board

COMPATIBILITY
Opentherm-ready boilers /
ON-OFF operated boilers / SUN P N

CODES

OSCAR W	013110XA
OSCAR W RF	013111XA

CASCADE SEQUENCER for on-off boilers

- Can manage **up to four boilers in cascade**
- Can manage **up to two heating zones** with system **flow temperature compensation**, one direct and one mixed
- In addition to the two central heating zones, can manage a domestic hot water storage tank with coil
- Includes controller, 3 circuit sensor, one outdoor probe

COMPATIBILITY
ON-OFF operated boilers / SUN P N

CODE

013015X0

ELECTRONIC DEVICES

EVOLVED CASCADE AND SYSTEM CONTROLLER

- Can control a **modular installation up to 5 boilers** connected together, and a domestic hot water tank
- Possible connection to another cascade controller for management of more than 5 boilers
- **Complete configuration** of cascade operation (sequence, turnover, ignition method, statistics..)
- Central heating and domestic hot water planning
- Other contacts: **0/10 Vdc** input for remote control of cascade output flow temperature, **PC/modem**, **alarm warning**
- Extra functions: night reduction, holiday

COMPATIBILITY
Opentherm-ready boilers

CODE
1KWMH18A

FZ4 ZONING CONTROLLER

- Zoning controller for **maximum 3 zone circuits**. At least one of the zones requires a remote control for room temperature control and programming, the other zones can be supported by on-off thermostats / timers
- **Max 2 zones** - out of the 3 managed - **can be mixed**
- Can control both zone pumps or zone valves with antiseize program
- Circuit flow temperature and compensation curve can be **different for each zone**
- Includes post-circulation function
- Can be connected to boiler **through room thermostat** voltage free contact or using **Opentherm** protocol
- Alphanumeric display
- Autoconfiguration procedure for 28 system schemes
- Diagnostics of all inputs and outputs through leds
- System strategy completely customisable by technician through parameters
- Legionella protection program for DHW tank (handled as alternative of an heating zone)

COMPATIBILITY
Opentherm-ready boilers /
ON-OFF operated boilers / SUN P N

CODE
013013X0

OUTDOOR PROBE

- Outdoor sensor for boilers flow temperature compensation according to outside temperature
- Probe is sealed inside a IP 66 protected box, RAL 7035 colour
- Operating temperature - 40°C + 60 °C

COMPATIBILITY
Opentherm-ready boilers

CODE
013018X0

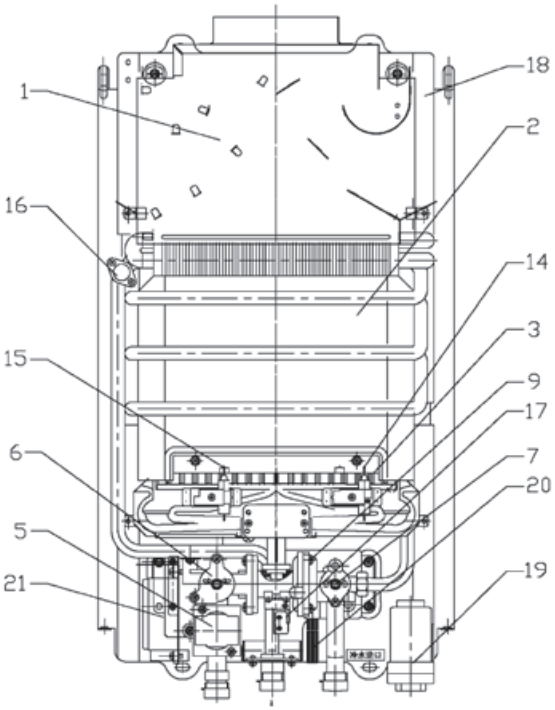
GAS WATER HEATERS

ZEFIRO

WALL-HUNG INSTANTANEOUS GAS WATER HEATER, OPEN FLUE, ELECTRONIC IGNITION

- Power and temperature selector
- Flue gas evacuation control device
- Electronic ignition with flame detection by **ionisation**
- Electronic, **battery** powered, ignition
- **Modulating** gas valve, activation upon double signal
- Output regulation from 40% to 100%
- SOFT START device for **progressive and silent ignition**
- Extremely easy installation and maintenance
- Safety device for protection against insufficient water
- Certified also for operation with **butane** (G30) or **LPG** (G31)

SCHEME



KEY

1 draugh diverter
2 heat exchanger
3 burner
5 gas valve
6 power adjustment knob
7 temperature selector
14 ionisation electrode
15 ignition electrode
16 limit thermostat
17 ignition microswitch
18 flue gas control device
19 battery box
20 water relief valve
21 control board

ERP COMPLIANT

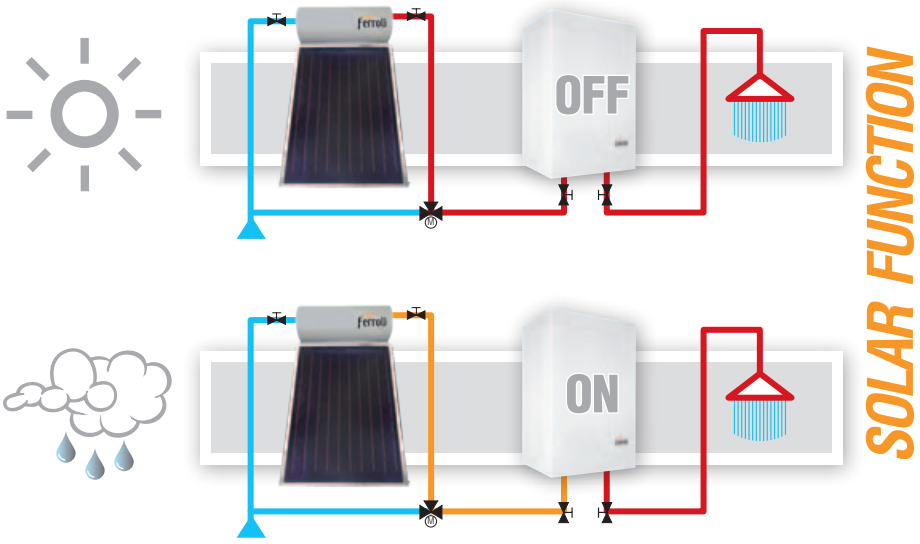
* Provided introduction in the market (eg invoicing) occurs before 26.09.2018

MODEL			5	11	14
DHW tapping profile			XS	M	M
Erp Class			A	A	A
Heat input	Max	kW	10,1	21,1	26,8
Heat output	Min	kW	3,6	7,1	9,3
	Max	kW	8,9	18,9	23,8
Operating pressure	Max	bar	10	10	10
DHW flow rate	Δt 25°C	l/min	5,1	10,8	13,7
	Δt 50°C	l/min	2,6	5,4	6,8
DHW set point	Min	°C	40	40	40
	Max	°C	65	65	65
Dimensions	WxHxD	mm	280x455x130	328x550x130	400x650x181
CODE (see page 5)			-	**GCT1MBAA**	**GCU1PBAA**

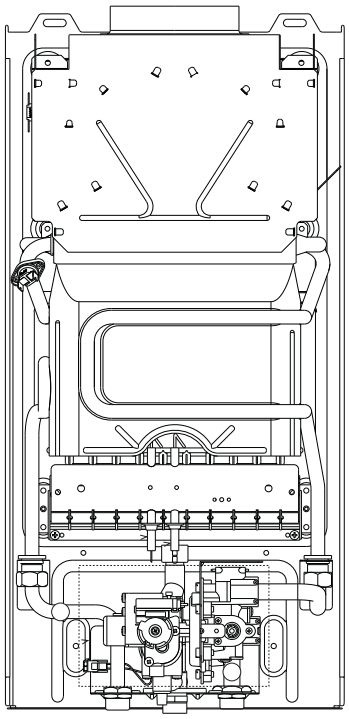
SKY C "B"

WALL-HUNG INSTANTANEOUS GAS WATER HEATER, OPEN FLUE, BATTERY IGNITION

- Compact heat exchanger made completely of copper, protected by an atoxic aluminium coating, inside a cooled combustion chamber
- **Graphic display** indicating temperature, battery charge level, burner status
- Double knob for **output selection and temperature setting**
- Burner in stainless steel, specially shaped for silent operation
- Wide range of temperature regulation
- Very **compact** dimensions
- Ready for domestic hot water production **in combination with solar collectors systems**
- **Operated by 2 X 1,5V, type «A» batteries**, located in a box easily accessible from the bottom of the water heater
- Certified also for operation with **butane** (G30) or **LPG** (G31)



SCHEME



ERP COMPLIANT * FUNCTION SUN EASY

* Provided introduction in the market (eg invoicing) occurs before 26.09.2018

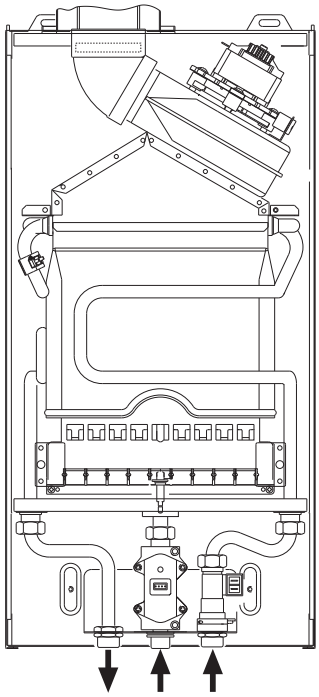
MODEL			C 11 B	C 14 B
Erp Class	M	(G - A Class)	A	A
Heat input	Max	kW	21,7	26,9
Heat output	Min	kW	7,1	8,8
	Max	kW	19,2	23,9
Working pressure	Max	bar	10	10
DHW flow rate	Δt 25°C	l/min	11	14
	Δt 50°C	l/min	5,5	6,8
DHW set point	Min	°C	40	40
	Max	°C	65	65
Empty weight		kg	11	12
Dimensions	WxHxD	mm	295x595x195	335x595x195
CODE (see page 3)			**0AF64IAA**	**0AF65IAA**

SKY F

WALL-HUNG INSTANTANEOUS GAS WATER HEATER, ROOM SEALED, ELECTRONIC IGNITION

- Compact heat exchanger made completely of copper
- **Evolved Combustion System:** electronic monitoring of combustion quality, which ensures the best operation depending on the different thermal load and chimney draught
- Steplessly output **modulation** from 36% to 100%
- Simple and intuitive **LCD** interface
- **Ready for connection to solar systems:** can operate in combination with domestic hot water pre-heating systems
- Very **compact** dimensions
- 230V power supply
- Certified also for operation with **butane** (G30) or **LPG** (G31)

SCHEME



* ERP COMPLIANT — FUNCTION SUN EASY

* Provided introduction in the market (eg invoicing) occurs before 26.09.2018

FLUES ACCESSORIES:
please consult section reserved to traditional boilers.

MODEL			F 11	F 14	F 17
Erp Class	XL	(Classe G - A)	A	A	A
Heat input	Min	kW	8,3	10,3	12,6
	Max	kW	21,7	26,9	32,9
Heat output	Min	kW	7,1	8,8	10,7
	Max	kW	19,2	23,9	29,2
Efficiency		Pmax %	88,5	88,7	88,9
Working pressure	Min	bar	0,20	0,20	0,20
	Max	bar	10	10	10
DHW flow rate	Δt 25°C	l/min	11,0	13,7	16,8
	Δt 50°C	l/min	5,5	6,9	8,4
Empty weight		kg	13	14	17
Dimensions	WxHxD	mm	295x595x195	335x595x250	375x595x290
CODE (see page 3)			**0AF94IAA**	**0AF95IAA**	**0AF97IAA**

ELECTRIC WATER HEATERS

SPECIFIC ICONS FOR ELECTRIC WATER HEATERS

TANK WARRANTY

This icon indicates warranty coverage in number of years, and it may differ from model to model. The warranty covers the integrity of the water tank and its lining. Conditions are written in the product's manual.

ELEMENT WARRANTY

Models with Blueforever heating element enjoy an upgraded warranty period in case of eventual malfunctions of the element itself. Conditions are written in the product manual.

TITANO SMART

MID CAPACITY ELECTRIC WATER HEATER
ENERGY SAVER

- **High efficiency** storage electric water heater, **vertical or horizontal** layout, **50÷150 litres** capacity
- **"Smart"** control panel, smart=1 according to EU regulation 814/2013
- Optimises energy consumption according to user time habits
- LEDs indicating water temperature. Multifunction LED showing operation status. Buttons interface
- Legionella protection program
- **"Blue Forever" heating** element. Its surface is treated through a special patented process, which permits drastical reduction of limestone deposits
- **Five bolts flange** to ensure sturdiness and easy periodical maintenance, mounting element and anode
- Safety valve set to 8 bar
- **5 years warranty** on tank and heating element

BLUE FOREVER
THE SCALING ENEMY

The element is enameled with Bluesilicon, a unique patented treatment, offering extra qualities such as:

- Drastically reducing the limestone deposit, which substantially shortens the life span of the element
- Top efficiency of the element for a longer period
- Maintaining the high performance throughout the life span of the element
- Extended Ferroli warranty on the element

LONG TERM TEST

Standard element

BLUE FOREVER element

FERROLI PATENT

TITANO SMART			50	80	100	120	150
DHW tapping profile			M	M	M	L	L
ERP Class	(G - A Class)		B	B	B	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35°C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45°C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20,5	25	28,5	29,5

TITANO

MID CAPACITY
ELECTRIC WATER HEATER

- Heating element in copper
- Available in the **vertical** (mod. **VE/RE**) or **horizontal** (mod. **HO**) execution
- Temperature control by mechanical thermostat
- High-concentration magnesium anode to protect the tank
- **Five bolt flange** to ensure sturdiness and easy periodical maintenance
- Unbreakable thermometer in ABS
- On/off light
- Pressure relief valve set to 8 bars
- Manual outside **temperature adjustment** (vertical model)
- 5 years warranty on tank

Either Titano and Calypso are equipped with copper heating element, mounted on the 5 bolts flange.
The flange also hosts anode housing and thermostat dwell and terminals.
The thermostat is a single pole type with bimetal safety cut-out and manual reset.

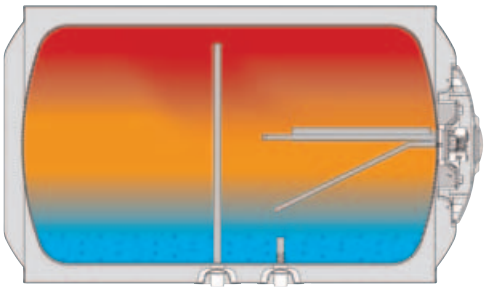
VERTICAL EXECUTION			50 VE/RE	80 VE/RE	100 VE/RE	120 VE/RE	150 VE/RE
DHW tapping profile			M	L	L	L	L
ERP Class	(G - A Class)		C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35° C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45° C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight*		Kg	16	20,5	25	28,5	29,5

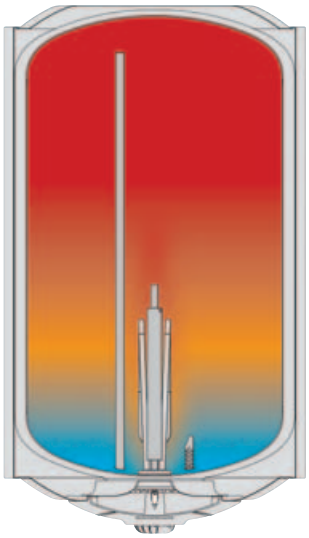
HORIZONTAL EXECUTION			50 HO	80 HO	100 HO	120 HO	150 HO
DHW tapping profile			M	M	L	L	L
ERP Class	(G - A Class)		C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35° C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45° C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight*		Kg	16	20,5	25	28,5	29,5

CALYPSO

MID CAPACITY
ELECTRIC WATER HEATER

- **Five bolt flange** of wide diameter, to ensure sturdiness and easy periodical maintenance
- Available in the **vertical** (mod. **VE/RE**) or **horizontal** (mod. **HO**) execution
- Various models with capacity from 50 to 150 litres, both vertical and horizontal
- Electric heating element in **copper**, assembled on the flange
- Temperature control through mechanical thermostat with probe
- Magnesium anode to protect the tank
- Temperature level indicator
- On/off light indicator
- Pressure relief valve set to 8 bar
- Manual external **temperature adjustment** (vertical model)
- 3 years warranty on tank





HORIZONTAL
Recommended in confined spaces like false ceilings

VERTICAL
Maximum stratification. Withdrawal of hot water from the warmest point in the tank

VERTICAL EXECUTION			50 VE/RE	80 VE/RE	100 VE/RE	120 VE/RE	150 VE/RE
DHW tapping profile			M	L	L	L	L
ERP Class	(G - A Class)		C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35° C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45° C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20,5	25	28,5	29,5

HORIZONTAL EXECUTION			50 HO	80 HO	100 HO	120 HO	150 HO
DHW tapping profile			M	M	L	L	L
ERP Class	(G - A Class)		C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35° C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45° C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20,5	25	28,5	29,5

CALYPSO ECO

MID CAPACITY
ELECTRIC WATER HEATER

- Electric heating element in **copper**
- The element is **screw-fixed** together with the magnesium anode, to the tank
- Available in the **vertical (mod. VG) or horizontal (mod. HO) execution**
- Various models with capacity from 50 to 150 litres, both vertical and horizontal
- Container internally enameled with Titanium Bluesilicon process
- Temperature level indicator
- On/off light indicator
- Pressure relief valve set to 8 bar

REGULATION

INTERNALThrough the internal knob, removing the plastic cover. It is however factory pre-set in order to get maximum possible efficiency (EU regulation 812/2013). A proper setting ensures a high water flow at mixed 40°C temperature. Factory adjustment depends on volume and execution of the heater. 60°C preset on VG 100÷150 and HO 80, 70°C on the others.

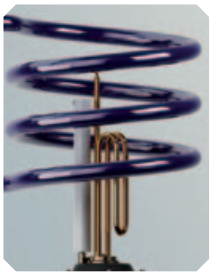
VERTICAL EXECUTION			50 VG	80 VG	100 VG	120 VG	150 VG
DHW tapping profile			M	L	L	L	L
ERP Class	(G - A Class)		C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35° C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45° C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20,5	25	28,5	29,5

HORIZONTAL EXECUTION			50 HO	80 HO	100 HO	120 HO	150 HO
DHW tapping profile			M	M	L	L	L
ERP Class	(G - A Class)		C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35° C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45° C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20,5	25	28,5	29,5

CALYPSO MT

MID CAPACITY ELECTRIC WATER HEATER WITH AUXILIARY COIL

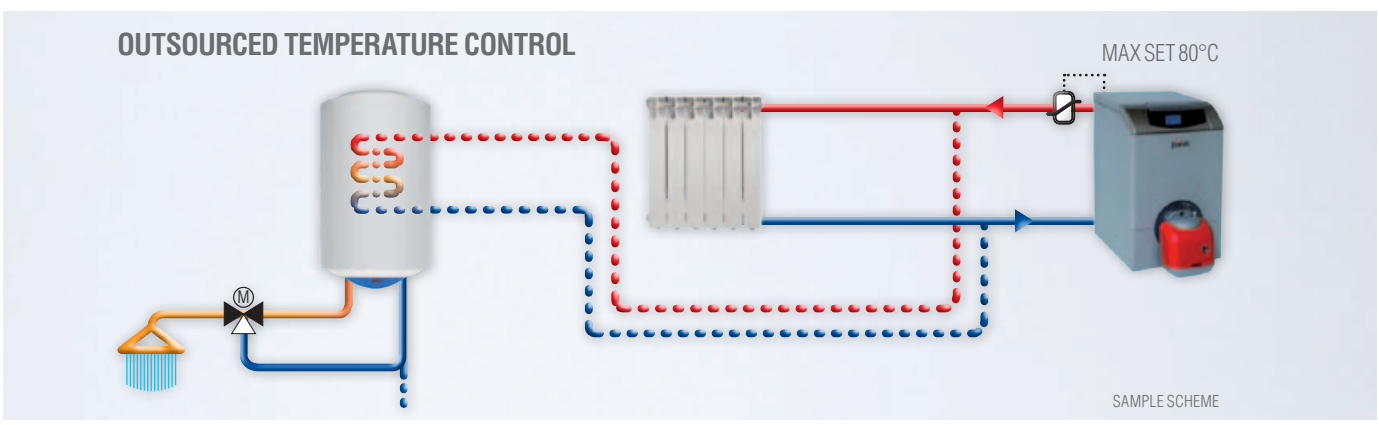
- **Multi-energy** water heater: includes a **copper** electric heating element and **coil** for indirect heating from a external source
- Electric or auxiliary heating can operate individually or simultaneously
- Horizontal execution or vertical one, the latter available with 2 or 6 coils exchanger
- High-concentration magnesium anode to protect the tank
- **Five bolt flange to ensure sturdiness and easy periodical maintenance**
- Pressure relief valve set to 8 bar
- Manual outside temperature adjustment (vertical model)
- Hydraulic connections for auxiliary heating can be on the right on left side of the appliance
- Combined heating system through electric heater and auxiliary coil represent the quickest solution to heat DHW
- Mixed water heater is a flexible solution, which permits the user to choose, in **winter period, between quick combined operation, or economic mode exploiting only the auxiliary coil, fed by an external heating source**
- 3 years warranty on tank

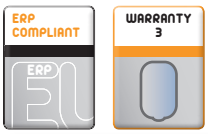


Heating time reduction over 80%
Thermic 6 coils vs electric

Even more through combi operation
(Thermic + Electric)

OUTSOURCED TEMPERATURE CONTROL





CALYPSO MT	Mod.	VERTICAL 2 COILS				VERTICAL 6 COILS EXCHANGER				HORIZONTAL 2 COILS EXCHANGER			
		80	100	120	150	80	100	120	150	80	100	120	150
DHW tapping profile		M	L	L	L	L	M	M	L	M	L	L	L
ERP Class	(G - A Class)	C	C	C	C	C	C	C	C	C	C	C	C
Capacity	litres	80	100	120	150	80	100	120	150	80	100	120	150
Coil surface	m^2	0,15	0,15	0,15	0,15	0,4	0,4	0,4	0,4	0,15	0,15	0,15	0,15
Electric power	W	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Heating time ΔT 35° C	electric	2 h 18'	2 h 53'	3 h 28'	4 h 19'	2 h 18'	2 h 53'	3 h 28'	4 h 02'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	thermic	59'	1 h 14'	1 h 29'	2 h 10'	21'	26'	31'	39'	59'	1 h 14'	1 h 29'	2 h 10'
Weight	kg	24	28,5	32	33	26,5	31	34,5	35,5	20,5	25	28,5	29,5

BRAVO

SMALL CAPACITY
ELECTRIC WATER HEATER

- External casing in strong ABS
- Reinforced hanging bracket with internal steel bar
- Capillary thermostat
- High concentration magnesium anode
- ON/OFF switch
- Front stepless temperature adjustment, with power level led indication
- Pressure relief valve, set to 8,5 bar
- Electric cable included (without plug)

*S = Undersink

ERP COMPLIANT

WARRANTY 5

BRAVO			SN 10	SN 10 S*	SN 15	SN 15 S*	SN 30
DHW tapping profile			XXS	XXS	XXS	XXS	S
ERP Class	(G - A Class)		B	C	B	C	C
Capacity		litres	10	10	15	15	30
Heating time	ΔT 35°C	min.	17'	17'	26'	26'	52'
	ΔT 45°C		22'	22'	33'	33'	1 h 07'
Power		W	1500				
Voltage			220-240 V 50-60 HZ				
Weight		Kg	6,5	6,5	7,8	7,8	11,5

NOVO

SMALL CAPACITY
ELECTRIC WATER HEATER

- Reinforced hanging bracket with internal steel bar
- Capillary thermostat for temperature management
- High concentration magnesium anode
- ON/OFF switch
- Front stepless temperature adjustment, with LED for setpoint reach
- Pressure relief valve, set to 8,5 bar
- Electric cable included (without plug)

*S = Undersink

ERP COMPLIANT

WARRANTY 2

NOVO			5	5 S*	10	10 S*
DHW tapping profile			XXS	XXS	XXS	XXS
ERP Class	(G - A Class)		B	B	B	B
Capacity		litres	5	5	10	10
Heating time	ΔT 35°C	min.	6'	6'	13'	13'
	ΔT 45°C		8'	8'	17'	17'
Power		W	2000			
Voltage			220-240 V 50-60 HZ			
Weight		Kg	6,5	6,5	7,8	7,8

RITA FS DE

INSTANTANEOUS ELECTRIC WATER HEATER

- Red copper heating element, inside glassfiber box
- Power level automatically managed by temperature sensor and PCB
- Lcd indicates shower duration, advises flow reduction need, advises shower head cleaning
- Overheating protection
- Self diagnosis
- Hidden electric installation
- Range: 3,0 kW / 5,0 kW / 7,5 kW / 8,5 kW / 10,0 kW / 12,0 kW

EXTRA EU

MODEL	RITA FS DE
Power	220 ~ 240 Vac, 50/60 Hz
Protection	IP24
Min. water flow rate	1,6 - 1,8 lts/min
Water pressure	0,3 - 8 bar
Max temperature	52°C
Plumbing connections	1/2"
Product dimension H x W x D	280 x 177 x 95 mm

MITO SMD

INSTANTANEOUS ELECTRIC WATER HEATER

- Copper heating element
- Seven work mode
- Color screen LED display
- ELCB device for extra electric protection (optional)
- Self diagnosis
- Low water pressure starting
- Hidden electric installation
- Range: 5,0 kW / 6,5 kW / 7,7 kW / 8,5 kW

EXTRA EU

MODEL	MITO SMD
Power	220 ~ 240 Vac, 50/60 Hz
Protection	IP24
Min. water flow rate	1,8 lts/min
Water pressure	0,3 - 6 bar
Plumbing connections	1/2"
Product dimension H x W x D	280 x 177 x 94,5 mm
Weight	1,85 kg

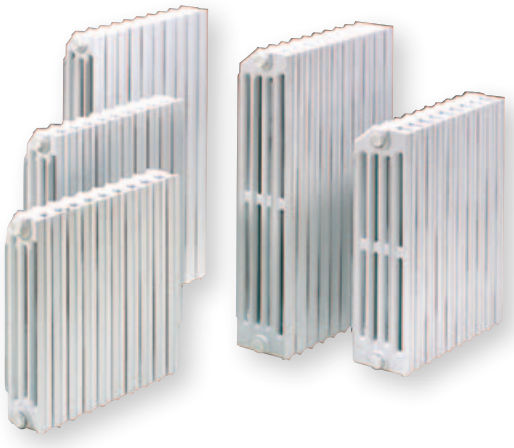
RADIATORS

TAHITI

CAST IRON RADIATOR

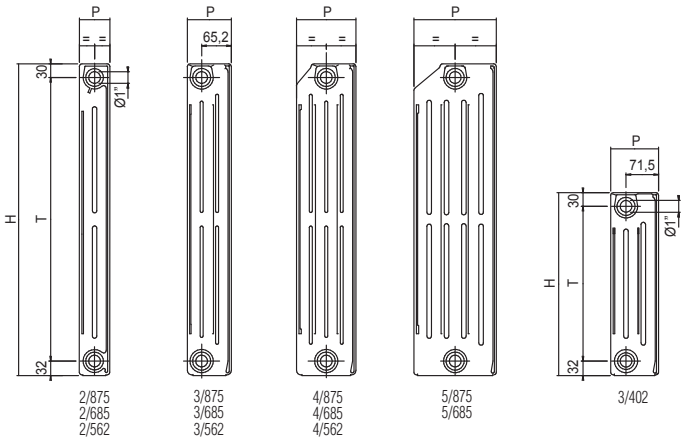
EN 442 EURONORM

CE 05



- G 15 type (EN-GJL-150) cast iron radiator
- Maximum operating pressure 6 bar
- **Tahiti** with basic white primer coating, made through immersion painting and oven-dry; supplied in 10 sections batteries

DRAWINGS



OPTIONAL ACCESSORIES

DESCRIPTION	CODE
Galvanised right blind plug	19999970
Galvanised left blind plug	19999979
Galvanised right ½" reduction	19999972
Galvanised left ½" reduction	19999981
Galvanised right 1/8" reduction	19999975
Galvanised left 1/8" reduction	19999984
190 mm in-wall bracket	19999928
220 mm in-wall bracket	19999110
270 mm in-wall bracket	19999111
1" nipple	19999976
Gasket	19999977

MODEL			2/562	2/685	2/875	3/402	3/562	3/685	3/875	4/562	4/685	4/875	5/685	5/875
Columns		no.	2	2	2	3	3	3	3	4	4	4	5	5
Connection diameter			1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
Net weight		kg	3,4	3,91	5,1	3,4	4,22	5,24	6,44	5,61	6,53	8,53	8,17	10,7
Output	Δt 50°C	Watt x section	58,7	71,2	90,3	60,7	77,4	92,3	114,6	99,7	116,1	142,7	147,5	182,9
	Δt 50°C	kcal/h x section	50,5	61,2	77,7	52,2	66,6	79,4	98,6	85,7	99,8	122,7	126,9	157,3
Output	Δt 60°C	Watt x section	74,0	90,1	114,4	76,8	97,7	116,9	145,6	126,5	147,7	183,2	187,1	232,9
	Δt 60°C	kcal/h x section	63,6	77,5	98,3	66,0	84,2	100,6	125,2	108,8	127,1	157,5	160,9	200,3
Exponent index		n	1,27069	1,29130	1,29910	1,29155	1,28820	1,29520	1,31647	1,30770	1,32030	1,36790	1,30610	1,32673
Constant		K_m	0,40703	0,45548	0,56010	0,38790	0,50163	0,58197	0,66428	0,59798	0,66342	0,67648	0,89059	1,01865
Height	H	mm	562	685	875	402	562	685	875	562	685	875	685	875
Tapping center	T	mm	500	623	813	340	500	623	813	500	623	813	623	813
Depth	D	mm	67	67	67	105	96,5	96,5	96,5	130,5	130,5	130,5	181	181

Thermal emissions in WATT (according to the EN 442 standards, with Δt=50°C) - ø = Km x (Δt)n.
For the purposes of certification, the "TAHITI" models of radiators correspond to the respective models identified by the Factory Name.

FERROLI STEEL PANEL RADIATOR

4 OR 6 CONNECTIONS

- 5 types, 5 heights
- 20 different lenghts between 400 - 3000 mm
- 4 or 6 connections radiators for a total choice of 1000 models
- Optionally equipped with compact plug or insert regulation valve
- Easy-to-clean thanks to removable top grills and side covers
- Convectors are directly welded on the wet ducts of the radiator to minimize thermal losses and get maximum performance
- Protected against damages during transport and storage by strong packaging system
- Ferroli steel panel radiators are equipped as a standard in the package with wall brackets, fischer screws, one blind pug and one air vent. For 6-connection-radiators, such accessories are available upon request

ACCESSORIES

	DESCRIPTION
	4 connection models: package includes wall brackets, fischer screws, one blind plug, one air vent
	6 connection models: abovementioned accessories supplied as an option

TYPE	DESCRIPTION	HEIGHT				
		300	400	500	600	900
11	Output Δt 50°C	451	606	755	895	1248
	Exponent n	1,31042	1,30793	1,30542	1,30291	1,30915
	Constant Km	2,67558	3,63458	4,57361	5,47064	7,44692
	Water content (lts)	1,7	2,1	2,6	3,0	1,2
20	Output Δt 50°C	555	706	850	990	1394
	Exponent n	1,3116	1,30977	1,30794	1,30611	1,31338
	Constant Km	3,28268	4,20054	5,09711	5,98081	8,18149
	Water content (lts)	3,3	4,2	5,1	5,9	8,2
21	Output Δt 50°C	722	927	1122	1307	1803
	Exponent n	1,31467	1,31913	1,32363	1,32809	1,34125
	Constant Km	4,21563	5,31835	6,32695	7,23965	9,49006
	Water content (lts)	3,3	4,2	5,1	5,9	8,2
22	Output Δt 50°C	930	1195	1449	1694	2384
	Exponent n	1,30076	1,315	1,32925	1,34349	1,32728
	Constant Km	5,73718	6,97149	7,99442	8,83753	13,2531
	Water content (lts)	3,3	4,2	5,1	5,9	8,2
33	Output Δt 50°C	1340	1723	2083	2424	3314
	Exponent n	1,30515	1,30686	1,30856	1,31027	1,33485
	Constant Km	8,11901	10,37419	12,45639	14,39815	17,88446
	Water content (lts)	4,4	5,8	7,2	8,6	12,7

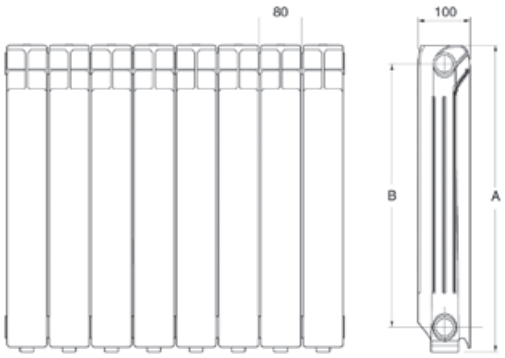
Variable data refer to 1mt long radiator

XIAN

DIE-CAST ALUMINIUM RADIATORS

- Die-cast aluminium radiator with 2 front convective fins
- Elegant design of the rounded top head. Besides aesthetic appearance of the rounded edge and along with the gradual curve of the convective fins alloy a uniform distribution of warmed air, without turbulences and air flows towards the wall
- 6 bar as maximum operating pressure
- Blocks are assembled in factory in units from 2 to 12 sections
- Sections are assembled each other in the factory via an inorganic elastic joint, with unbeatable resistance to high temperature and pressures, dilatations, circuit additives, chemical gaseous reactions in the heating system. This results in the maximum watertightness of the radiator itself.

DRAWINGS



ACCESSORIES

DESCRIPTION	CODE
1" right plug	000250711
1" left plug	000250721
3/4" right reduction	000250771
3/4" left reduction	000250821
1/2" right reduction	000250761
1/2" left reduction	000250811
3/8" right reduction	000250751
3/8" left reduction	000250801
1/4" right reduction	000250741

DESCRIPTION	CODE
1/4" left reduction	000250791
1/8" right reduction	000250731
1/8" left reduction	000250781
1" right/left nipple	000214210
Key for nipples	000214600
65 ml tube of elastic sealant	A71015060
Kit adjustable brackets (2 pcs)	C41015291
Bearing feet for radiators mod. 600 (2 pcs)	C41015360
1/2" air vent	C09276090

Right accessory = clockwise, installation on the left side of the radiator
Left accessory = anti-clockwise, installation on the right side of the radiator

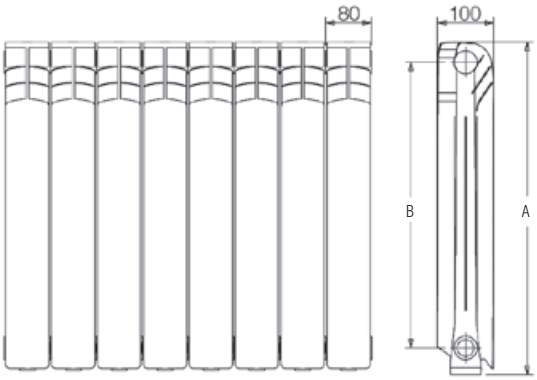
MODEL			450 N	600 N	700 N	800 N
Thermal emission EN 442	Δt 50°C	W	90,8	122,9	142,2	160,2
	Δt 60°C	W	115,1	156,2	181,4	204,3
Exponent index n			1,30483	1,31423	1,334	1,33487
Constant Km			0,5508	0,719	0,7702	0,86447
Water content		Liters	0,31	0,39	0,45	0,5
Dimensions	Total height (A)	mm	431	581	681	781
	Tapping center (B)	mm	350	500	600	700
Connections	Diameter	inches	1"	1"	1"	1"

PROTEO

HIGH-PERFORMANCE DIE-CAST ALUMINIUM RADIATOR

- Die-cast aluminium radiator with 3 front convective fins
- High thermal emission, thus permitting excellent performance with a lower numer of sections and consequent space saving in the installation.
- 10 bar as maximum operating pressure
- Long durability, resistance to dilation stresses and corrosion phenomena
- Blocks are assembled in factory in units from 2 to 12 sections
- For the purpose of certification, "PROTEO" radiator corresponds to factory name "ARENA"

DRAWINGS



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1/2" left reduction	000250811
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3/8" left reduction	000250801
1/4" right reduction	000250741

DESCRIPTION	CODE
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1/2" air vent	C09276090

Right accessory = clockwise, installation on the left side of the radiator
Left accessory = anti-clockwise, installation on the right side of the radiator

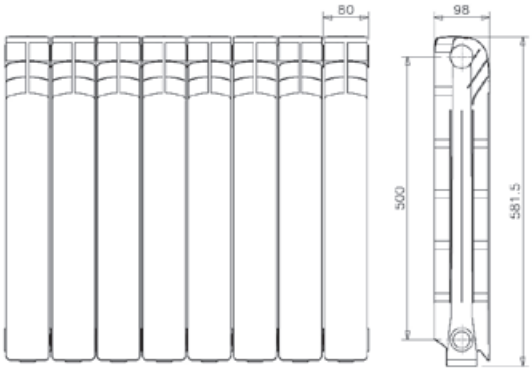
MODEL			450	700	800
Thermal emission EN 442	Δt 50°C	W	92	144	161
	Δt 60°C	W	117,2	181,5	207,1
Exponent index n			1,30565	1,3417	1,35387
Constant Km			0,5587	0,7467	0,81053
Water content		Liters	0,31	0,45	0,5
Dimensions	Total height (A)	mm	431	681	781
	Tapping center (B)	mm	350	600	700
Connections	Diameter	inches	1"	1"	1"

PROTEO HP

HEAVY-DUTY DIE-CAST ALUMINIUM RADIATOR

- Robust radiator: maximum operating pressure 16 bar, thanks to the accurate study of the section
- High convection, through the 3 frontally fins and study of the internal air flow
- Long durability, resistance to dilation stresses and corrosion phenomena
- Blocks are assembled in factory in units from 2 to 12 sections

DRAWINGS



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Right accessory = clockwise, installation on the left side of the radiator
Left accessory = anti-clockwise, installation on the right side of the radiator

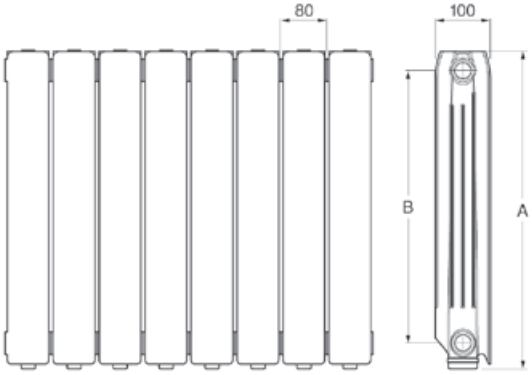
MODEL			600 HP	700 HP
Thermal emission EN 442	Δt 50°C	W	106,6	125,72
	Δt 60°C	W	135,02	159,16
Exponent index n			1,2967	1,29403
Constant Km			0,667824	0,795932
Water content		Liters	0,32	0,354
Dimensions	Total height (A)	mm	581	681
	Tapping center (B)	mm	500	600
Connections	Diameter	inches	1"	1"

EUROPA C

DIE-CAST ALUMINIUM RADIATOR

- Die-cast aluminium radiator with flat surface
- It is is the ideal smart solution which fits perfectly with any style of furniture, thanks to its sober and elegant design
- 6 bar as maximum operating pressure
- Blocks are assembled in factory in units from 2 to 12 sections
- Each section is painted individually through expoxy powder coating: this results in a brilliant surface, resistant to heat throughout the years
- Sections are assembled each other in the factoy via an inorganic elastic joint, with unbeatable resistance to high temperature and pressures, dilatations, circuit additives, chemical gaseous reactions in the heating system. This results in the maximum watertightness of the radiator itself.

DRAWINGS



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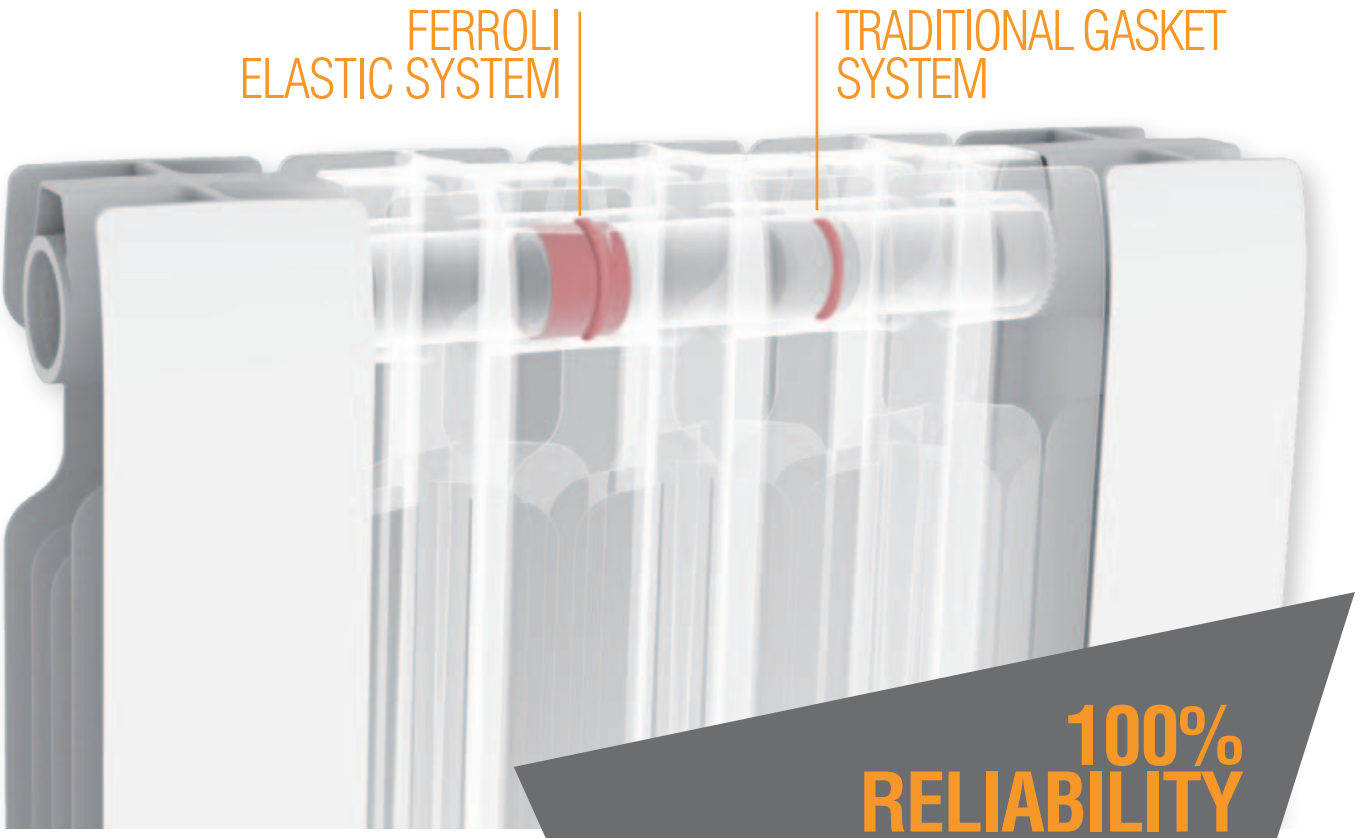
1/2" air vent	C09276090

Right accessory = clockwise, installation on the left side of the radiator
Left accessory = anti-clockwise, installation on the right side of the radiator

MODEL			450 C	600 C	700 C	800 C
Thermal emission EN 442	Δt 50°C	W	89,2	119,8	137,1	158,0
	Δt 60°C	W	112,7	152,3	174,3	200,9
Exponent index n			1,27784	1,31869	1,31598	1,32052
Constant Km			0,601947	0,688627	0,796525	0,901564
Water content		Liters	0,31	0,39	0,45	0,50
Dimensions	Total height (A)	mm	431	581	681	781
	Tapping center (B)	mm	350	500	600	700
Connections	Diameter	inches	1"	1"	1"	1"

ALUMINIUM RADIATORS

ELASTIC SECTION JOINT



100% RELIABILITY

USE BACKED UP BY TESTING AND TESTIMONIALS

JOINTS BETWEEN SECTIONS ARE SUBJECTED TO SIGNIFICANT FATIGUE FOR 2 MAIN REASONS:

1) Expansion and contraction of the sections due to changes in temperature and the fact that two different metals are involved (aluminium and steel)

2) Continuous contact with water with sudden changes in temperature between 15 and 90°C app.

THE FINAL SOLUTION IS FERROLI ELASTIC SILICONE SYSTEM

Zero risk of leaks due to capillary action.

The elastic silicone joint penetrates along the very reduced space in the thread between the nipple and the radiator sections. In this way the joint is not just a thin barrier between one section and the other, but it deeply diffuses around the threaded sides of the sections and nipples, besides of course the flat contact edge between the radiator elements.

OVER **18** MILLION BLOCKS CONSTRUCTED WITH THIS SYSTEM

IN USE FOR OVER **25** YEARS PATENTED IN 1991

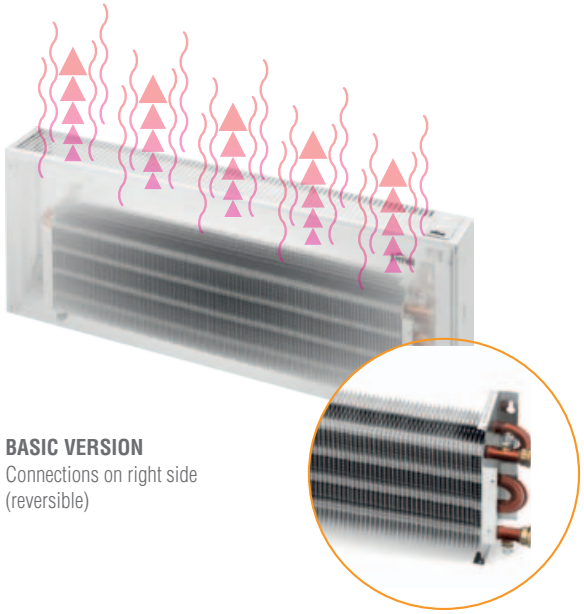
IN USE OVER **3,5** MILLION HOMES

AVAILABLE FOR **XIAN** AND **EUROPA** RANGE

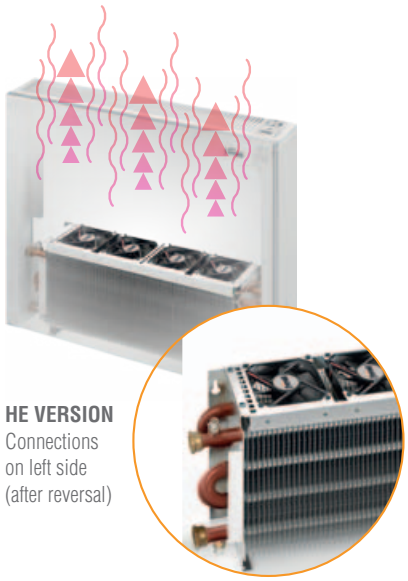
VARESE

RADIATORS FOR LOW TEMPERATURE HEATING

- High efficiency radiator. Particularly indicated for replacement of traditional sectional radiators, thanks to it compact dimensions
- RAL 9016 coated. Removable front jacket
- Incorporates low water content exchanger in copper pipe and aluminium fins. Max operating pressure 10 bar.
- Version **HE** features brushless silent ventilators on top of exchangers, mounted on silent blocks
- Positioning flush to the wall. 119 mm depth
- Height 350 mm (**LP** version) and 635 mm
- Single or double pipe plumbing ½" connections, right/left reversible
- Control panel with backlit buttons. Functions: automatic, eco, comfort, high emission



BASIC VERSION
Connections on right side (reversible)



HE VERSION
Connections on left side (after reversal)

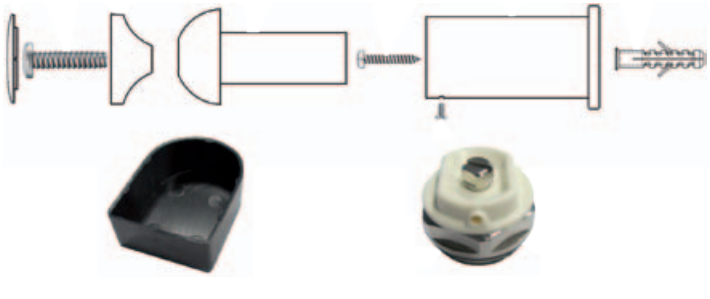
MODEL	OUTPUT Watt			WATER CONTENT	NO. OF FANS	SOUND PRESSURE	DIMENSIONS		CODE
	ΔT=30°C	ΔT=40°C	ΔT=50°C	lt		dB	H / L / P	Tapping center	(see page 3)
500 HE	569,6	823,3	1067,4	0,48	3	29	635/545/119	150	**ZE17VH105A**
600 HE	767,2	1074,4	1402,3	0,62	4	30,2	635/654/119	150	**ZE17VH106A**
800 HE	1112,6	1479,1	1981,4	0,84	6	32	635/879/119	150	**ZE17VH108A**
1000 HE	1517,0	1995,3	2637,2	1,1	8	33,2	635/1094/119	150	**ZE17VH110A**
LP 500 HE	484,0	753,5	997,7	0,48	3	29	350/545/119	150	**ZE17VH205A**
LP 600 HE	710,0	1032,6	1325,6	0,62	4	30,2	350/654/119	150	**ZE17VH206A**
LP 800 HE	1087,6	1395,3	1855,8	0,84	6	32	350/879/119	150	**ZE17VH208A**
LP 1000 HE	1493,3	1939,5	2581,4	1,1	8	33,2	350/1094/119	150	**ZE17VH210A**
500	195,3	265,1	376,7	0,48	-	-	635/545/119	150	**ZE17VV105A**
600	244,2	390,7	523,3	0,62	-	-	635/654/119	150	**ZE17VV106A**
800	348,8	607	795,3	0,84	-	-	635/879/119	150	**ZE17VV108A**
1000	509,3	795,3	1060,5	1,1	-	-	635/1094/119	150	**ZE17VV110A**
LP 500	153,5	237,2	334,9	0,48	-	-	350/545/119	150	**ZE17VV205A**
LP 600	209,3	334,9	439,5	0,62	-	-	350/654/119	150	**ZE17VV206A**
LP 800	293	537,2	676,7	0,84	-	-	350/879/119	150	**ZE17VV208A**
LP 1000	348,8	600	837,2	1,1	-	-	350/1094/119	150	**ZE17VV210A**

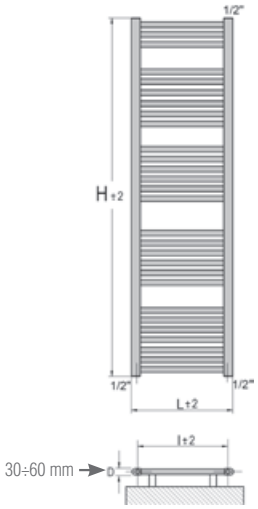
TOWEL RAILS

WHITE
STRAIGHT PROFILE

EN 442 EURONORM CE

- Decorative radiator in carbon steel, white coated.
- Vertical manifolds 30 mm in depth. Curved externally, straight profile against the horizontal rails
- Horizontal rails diameter 22 mm
- Max operating temperature 110°C, max pressure 10 bar
- 3 threaded connections 1/2"
- Including wall bracket and 1/2" air vent





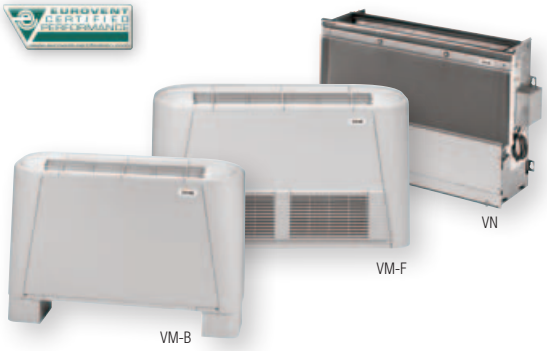
DIMENSIONS			PIPES	PIPES GROUPING	OUTPUT ΔT 50°C		WATER CONTENT	WEIGHT	HEATING SURFACE
width	height	tapping center	no.	(from top)	W	kcal/h	lt	kg	dm²
400	700	355	12	3+4+5	265	228	2,49	3,29	44,71
400	800	355	13	3+4+6	298	256	2,98	3,66	49,47
400	1000	355	18	3+5+10	367	316	3,65	4,80	65,83
400	1100	355	20	3+5+5+7	395	340	4,03	5,30	72,87
400	1200	355	22	3+6+6+7	429	369	4,42	5,80	79,91
400	1400	355	24	4+4+5+5+6	465	400	4,98	6,50	89,43
400	1500	355	26	4+5+5+5+7	504	433	5,37	7,10	96,47
400	1600	355	28	3+6+6+6+7	555	477	5,75	7,60	103,50
400	1800	355	30	3+6+6+6+9	609	524	6,32	8,35	113,02
500	700	455	12	3+4+5	294	253	2,87	4,07	53,05
500	800	455	13	3+4+6	357	307	3,45	4,20	58,45
500	1000	455	18	3+5+10	439	377	4,21	5,50	78,26
500	1100	455	20	3+5+5+7	473	407	4,66	6,18	86,68
500	1200	455	22	3+6+6+7	513	441	5,11	6,78	95,11
500	1400	455	24	4+4+5+5+6	583	501	5,74	7,40	106,01
500	1500	455	26	4+5+5+5+7	603	518	6,19	8,26	114,43
500	1600	455	28	3+6+6+6+7	661	568	6,63	8,80	122,85
500	1800	455	30	3+6+6+6+9	723	622	7,27	9,60	133,75
600	700	555	12	3+4+5	342	294	3,25	4,31	61,29
600	800	555	13	3+4+6	417	359	3,92	4,77	67,43
600	1000	555	18	3+5+10	510	439	4,78	6,35	90,70
600	1100	555	20	3+5+5+7	550	473	5,29	7,03	100,50
600	1200	555	22	3+6+6+7	598	514	5,80	7,71	110,30
600	1400	555	24	4+4+5+5+6	652	561	6,49	8,60	122,59
600	1500	555	26	4+5+5+5+7	728	626	7,00	9,31	132,39
600	1600	555	28	3+6+6+6+7	766	659	7,51	9,93	142,19
600	1800	555	30	3+6+6+6+9	817	702	8,21	10,90	154,47
700	700	655	12	3+4+5	390	335	3,62	4,82	69,58
700	800	655	13	3+4+6	452	389	4,39	5,32	76,41
700	1000	655	18	3+5+10	581	500	5,34	7,12	103,13
700	1100	655	20	3+5+5+7	628	540	5,92	7,89	114,32
700	1200	655	22	3+6+6+7	682	586	6,49	8,65	125,50
700	1400	655	24	4+4+5+5+6	741	637	7,25	9,65	139,16
700	1500	655	26	4+5+5+5+7	800	688	7,82	10,41	150,35
700	1600	655	28	3+6+6+6+7	872	750	8,39	11,18	161,53
700	1800	655	30	3+6+6+6+9	931	801	9,15	12,18	175,20

FAN COILS

The Certification Mark guarantees that the products have been submitted to independant checking and that they have been accurately rated.
This mark guarantees specifiers, installers and end users that products marketed by a participant have been accurately rated.
The list of certified products is available on the website **www.eurovent-certification.com**

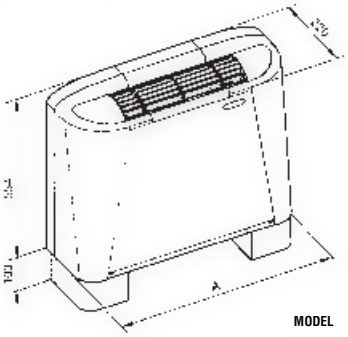
TOP FAN PLUS

FAN COIL
WITH CENTRIFUGAL FAN



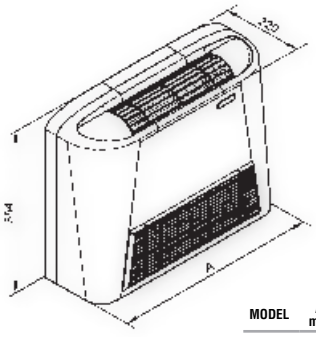
- Compact and smart design. Casing is made of combination of plastic material and galvanised steel, coated with epoxy powder
- Bearing structure in galvanised steel
- **Exchanger made of copper pipes and aluminium fins**; brass manifolds designed to grant small pressure drop
- Air filter easibily accessible, can be regenerated simple by washing with water
- Fan assembly with 3 speed motor and aluminium fan
- **Wide range of controls**: can be installed on board or remotely hung on the wall

TOP FAN VM-B
(lower air intake)



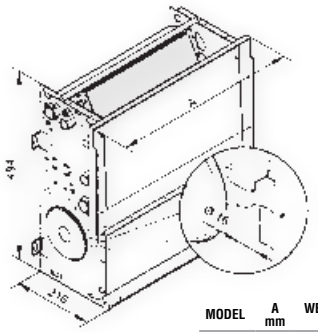
MODEL	A mm	WEIGHT kg
15÷20	690	14
30÷40	940	20
50÷80	1190	27
100÷120	1440	34

TOP FAN VM-F
(front air intake)



MODEL	A mm	WEIGHT kg
15÷20	690	15
30÷40	940	21
50÷80	1190	28
100÷120	1440	36

TOP FAN VN
(concealed installation)



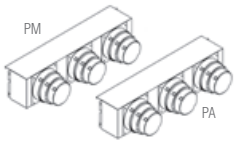
MODEL	A mm	WEIGHT kg
15÷20	474	11
30÷40	724	15
50÷80	974	22
100÷120	1224	29

3 RANKS MODEL			15	20	30	40	50	60	80	100	120
Total cooling capacity	max (E)	W	1100	1400	2100	2800	3400	4000	4900	6100	6850
	med	W	980	1200	1850	2450	3010	3550	4350	5500	6100
	min	W	770	950	1450	1900	2390	2800	3600	4400	5000
Sensitive cooling capacity	max (E)	W	850	1060	1620	2060	2420	2900	3800	4630	5300
	med	W	735	910	1400	1780	2245	2550	3350	4045	4630
	min	W	560	705	1090	1390	1710	1985	2735	3155	3720
Water flow rate	E	l/h	189	241	361	482	585	688	843	1.049	1.178
Dehumidifying max speed		g/h	350	490	670	1.050	1.150	1.550	1.600	2.100	2.200
Water pressure drop	E	kPa	3,6	5,3	9,6	15,2	13	14,6	15	8	10,1
Thermal capacity	max (E)	W	2800	3650	5500	6500	7800	9400	12500	14900	15800
	med	W	2400	3150	4550	5450	6600	7900	10800	12500	13270
	min	W	1800	2250	3400	4000	4930	5800	8300	9600	10000
Water flow rate		l/h	241	314	473	559	671	808	1.075	1.281	1.359
Water pressure drop	E	kPa	5,1	8,6	17,6	24,2	14	18,1	17,7	10,8	12,1
Air flow rate	max (E)	m³/h	215	280	410	515	615	750	1050	1200	1350
	med	m³/h	170	210	310	400	510	600	850	970	1070
	min	m³/h	110	140	220	290	350	410	570	670	720
Sound power (E)	max	db(A)	43	47	50	54	51	55	62	61	64
	med	db(A)	39	42	43	48	44	49	57	57	59
	min	db(A)	32	35	36	41	36	38	48	49	51
Sound pressure (*)	max	db(A)	34	38	41	45	42	46	53	52	55
	med	db(A)	30	33	34	39	35	40	48	48	50
	min	db(A)	23	26	27	32	27	29	39	40	42
CODE (see page 3)		VM-B	1ZE2A00P	1ZE2A01P	1ZE2A02P	1ZE2A03P	2048000F	1ZE2A04P	1ZE2A05P	1ZE2A06P	1ZE2A07P
		VM-F	1ZE2A08P	1ZE2A09P	1ZE2A10P	1ZE2A11P	2048100F	1ZE2A12P	1ZE2A13P	1ZE2A14P	1ZE2A15P
		VN	1ZE2A16P	1ZE2A17P	1ZE2A18P	1ZE2A19P	2068000F	1ZE2A20P	1ZE2A21P	1ZE2A22P	1ZE2A23P

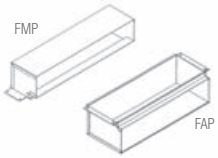
NOTES : HEATING MODE: Room Air T=20°C D.B. , IN/OUT water 70°/60°C, nominal air flow-rate; for medium and minimum fan speed, water delivery as in maximum speed. - COOLING MODE: Room Air T=27°C D.B. / 19°C W.B., IN/OUT water 7°/12°C, nominal air flow-rate; For medium and minimum fan speed, water delivery as in maximum speed. - (E) Declared data according to the certification programme LCP EUROVENT. * Sound pressure in a 100 m³ place with reverberation time of 0.5 seconds.

ACCESSORIES
MATCHING AND CODES ARE SPECIFIED ON THE FOLLOWING PAGE

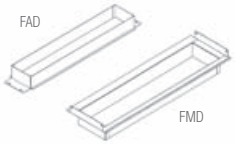
VERTICAL/HORIZONTAL TRAY



PM DELIVERY PLENUM
PA INLET PLENUM

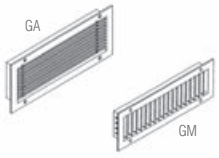


PERPENDICULAR
INTAKE/DELIVERY FLANGE

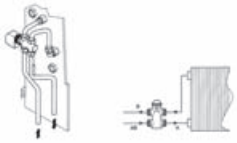


STRAIGHT
INTAKE/DELIVERY FLANGE

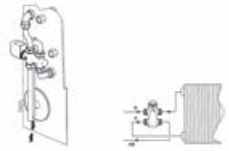
1 ROW SUPPLEMENTARY BANK



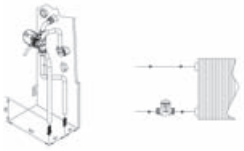
INTAKE/DELIVERY GRILL



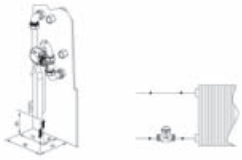
ON-OFF VALVE FOR 1R EXCHANGER



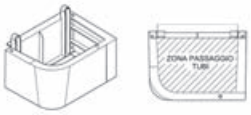
ON-OFF VALVE FOR 3R EXCHANGER



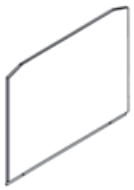
2-WAYS VALVE
FOR 1R EXCHANGER



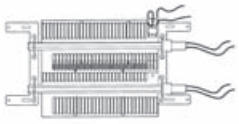
2-WAYS VALVE
FOR 3R EXCHANGER



SUPPORT FEET

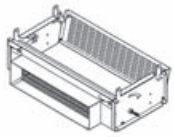


REAR CLOSING PANEL

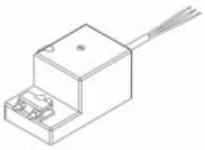


ELECTRICAL HEATER

ENABLING THERMOSTAT
(only with CMR-F e CM-F SWITCH)

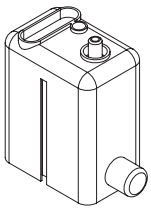


OUTDOOR AIR INLET SHUTTER



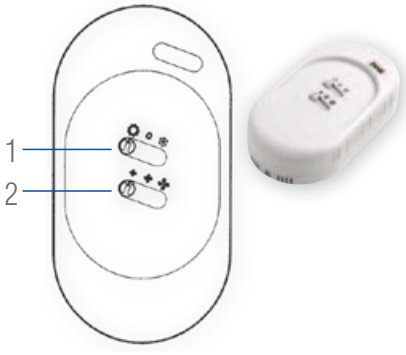
SHUTTER'S MOTOR

ADJUSTABLE AIR FINS

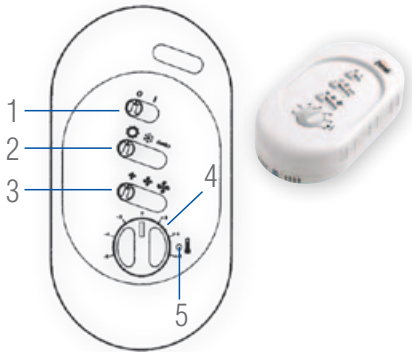


PSC-F CONDENSATE
DISCHARGE PUMP

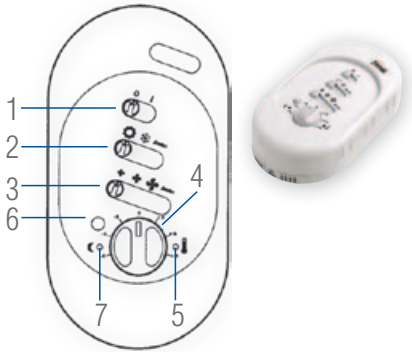
CONTROLS



CONTROL SWITCH
Includes a knob (1) for Summer Off/Winter mode, while through the second knob (2) fan speed can be selected: min/med/max.
Two executions are available:
- for cabinet installation **CM-F**
- for wall remote installation **CMR-F**



BASIC THERMOSTAT
Includes a knob (1) for On / Off, one (2) for Summer/ Winter/Auto mode, another (3) for fan speed Min / Med / Max, while the fourth knob (4) is used for temperature setpoint. Position marked with "zero" corresponds to 20° in heating mode, 25°C in cooling operation. Red LED (5) is on when there is a heat/cool request.
Two executions are available:
- for cabinet installation **TA-F**
- for wall remote installation **TAR-F**



EVOLVED THERMOSTAT
Two executions are available:
- for cabinet installation **TE-F**
- for wall remote installation **TER-F**

Functions of knobs (1) (2) (3) (4) are the same as basic thermostat. Position marked with "zero" corresponds to 20° in heating mode, 25°C in cooling operation. Red LED (5) is on when there is a heat/cool request. Economy button (6) enables winter and summer setpoint to be modified. Once the button is pressed a green LED (7) will be ON and fan will be forced at its maximum speed.

ACCESSORIES MATCHING

CODE	MODEL	DESCRIPTION	TOP FAN MODEL								
			15	20	30	40	50	60	80	100	120
19E2A07B	CMR-F	Remote control switch	●	●	●	●	●	●	●	●	●
19E2A08B	TAR-F	Basic remote controlled thermostat	●	●	●	●	●	●	●	●	●
19E2A09B	TER-F	Evolved remote controlled thermostat	●	●	●	●	●	●	●	●	●
19E2A11B	CM-F	Cabinet switch	●	●	●	●	●	●	●	●	●
19E2A12B	TA-F	Basic cabinet thermostat	●	●	●	●	●	●	●	●	●
19E2A13B	TE-F	Evolved cabinet thermostat	●	●	●	●	●	●	●	●	●
19E2A10A	PA-F	Bearing feet	●	●	●	●	●	●	●	●	●
19E2A14A	BCO-F	Additional horizontal tray	●	●	●	●	●	●	●	●	●
19E2A15A	BCV-F	Additional vertical tray	●	●	●	●	●	●	●	●	●
20Z19080	VB1-F	3-ways on-off valve for 1R bank	●	●	●	●	●	●	●	●	●
20Z19090	VB3-F	3-ways on-off valve for 3R bank	●	●	●	●	●	●	●	●	●
20Z19040	2VB1-F	2-ways on-off valve for 1R bank	●	●	●	●	●	●	●	●	●
20Z19050	2VB3-F	2-ways on-off valve for 3R bank	●	●	●	●	●	●	●	●	●
19E2A18A	TC-F	Enabling thermostat (*)	●	●	●	●	●	●	●	●	●
19E2A19A	BS-F1	Supplementary bank	●	●							
19E2A20A	BS-F2				●	●					
19E2A21A	BS-F3						●	●	●		
19E2A22A	BS-F4									●	●
19E2A23A	FMD-F1	Straight delivery flange	●	●							
19E2A24A	FMD-F2				●	●					
19E2A25A	FMD-F3						●	●	●		
19E2A26A	FMD-F4									●	●
19E2A27A	FMP-F1	Perpendicular delivery flange	●	●							
19E2A28A	FMP-F2				●	●					
19E2A29A	FMP-F3						●	●	●		
19E2A30A	FMP-F4									●	●
19E2A31A	PM-F1	Delivery plenum	●	●							
19E2A32A	PM-F2				●	●					
19E2A33A	PM-F3						●	●	●		
19E2A34A	PM-F4									●	●
19E2A35A	FAD-F1	Straight intake flange	●	●							
19E2A36A	FAD-F2				●	●					
19E2A37A	FAD-F3						●	●	●		
19E2A38A	FAD-F4									●	●
19E2A39A	FAP-F1	Perpendicular intake flange	●	●							
19E2A40A	FAP-F2				●	●					
19E2A41A	FAP-F3						●	●	●		
19E2A42A	FAP-F4									●	●
20Z15160	FAI-F1	Lower intake flange	●	●							
20Z15170	FAI-F2				●	●					
20Z15180	FAI-F3						●	●	●		
20Z15190	FAI-F4									●	●
19E2A43A	GM-F1	Delivery grille	●	●							
19E2A44A	GM-F2				●	●					
19E2A45A	GM-F3						●	●	●		
19E2A46A	GM-F4									●	●
19E2A47A	GA-F1	Intake grille	●	●							
19E2A48A	GA-F2				●	●					
19E2A49A	GA-F3						●	●	●		
19E2A50A	GA-F4									●	●
19E2A51A	PC-F1	Rear closing panel	●	●							
19E2A52A	PC-F2				●	●					
19E2A53A	PC-F3						●	●	●		
19E2A54A	PC-F4									●	●
19E2A55A	RE-F1	Electric heating elements (1)	●	●							
19E2A56A	RE-F2				●	●					
19E2A57A	RE-F3						●	●	●		
19E2A58A	RE-F4									●	●
19E2A93A	PA-F1	Inlet plenum	●	●							
19E2A94A	PA-F2				●	●					
19E2A95A	PA-F3						●	●	●		
19E2A96A	PA-F4									●	●
19E2A63A	SR-F1	Outdoor air inlet shutter	●	●							
19E2A64A	SR-F2				●	●					
19E2A65A	SR-F3						●	●	●		
19E2A66A	SR-F4									●	●
19E2A67A	MS-F	Shutter's motor	●	●	●	●	●	●	●	●	●
19E2B00A	AO-F1	Adjustable air fins	●	●							
19E2B01A	AO-F2				●	●					
19E2B02A	AO-F3						●	●	●		
19E2B03A	AO-F4									●	●
19E2B04A	PSC-F	Condensation discharge pump	●	●	●	●	●	●	●	●	●

(*) to be coupled to control switch (cabinet type or remote)

(1) Heater output, respectively from F1 to F4 models: 800 W, 1500 W, 2200 W, 2600 W

SUPER FAN WALL-TYPE FAN COIL

> THE RANGE

4 Sizes:
Nominal cooling capacity 1,31 ÷ 4,38 kW
Nominal heating capacity 1,6 ÷ 5,25 kW
Suitable for master-slave connection and management through a unique controller

> GENERALITIES

Cabinet in ABS thermoplastic, robust and UV resistant. Ventilator is actuated by a energy-efficient EC motor. The units are already equipped with a 3 way valve, which bypasses the exchanger when the fan is idle.

> CONTROLLERS

Two different controllers are available. One of them must be chosen for each unit or cascade. In the latter case, one control will handle all the connected units.

Infrared remote control REM-I - code 2C0730AF
7 mts distance limit. Includes wall-fixing support

Wired evolved wall controller REM-W - code 2C0730BF
It is a remote control for all parameters of the fan coil and a programmable thermostat. In case of a cascade operation it is possible to set the functions individually for each unit or harmonised ones for all. The controller works also as a receiver of the infrared remote control

Master-Slave System

REM-I

REM-W

EC MOTOR

3 WAY VALVE

SUPER FAN			15	25	35	45
Total cooling capacity (1) (E)	max	W	990	2050	3010	3710
	min	W	670	1360	1860	2660
Sensible cooling capacity (1) (E)	max	W	850	1520	2220	2740
	min	W	570	995	1350	1940
Dehumidification at maximum speed (1)		g/h	400	700	1050	1330
Water flow rate (1)		l/h	170	356	521	643
Water pressure drop on water side (E)		kPa	22,8	28,8	38,5	50
Heating capacity (2) (E)	max	W	1480	2640	3850	4770
	min	W	990	1720	2340	3370
Water flow rate (2)		l/h	170	356	521	643
Water pressure drop on water side (2) (E)		kPa	18,4	22,4	35,0	45,0
Air flow rate	max	m³/h	370	500	645	880
	min	m³/h	220	290	370	570
Width		mm	876	876	876	876
Height		mm	300	300	300	300
Dept		mm	228	228	228	228
Weight		kg	11	12	13	14
Plumbing connections	Ø	inches	1/2" F	1/2" F	1/2" F	1/2" F
CODE (see page 3)			**2C07300F**	**2C07301F**	**2C07302F**	**2C07303F**

NOTE:
(1) Water 7°C IN- 12°C OUT - Air 27°C DB 19°C WB **(2)** Water 50°C IN - Same flow rate cool mode - Air 20°C DB **(3)** Water 70°C IN - OUT 60°C - Air 20°C DB **(4)** Sound pressure level at 1mt from the unit. **(E)** Eurovent certified data. Pressure losses on water side include losses on the valve - Power supply 230-15-50 - Plumbing connections 1/2" F

JOLLY PLUS 2

CROSS FLOW FAN
WITH BRUSHLESS MOTOR

TC PLUS
ON BOARD STEPLESS SPEED CONTROL.
TO BE ORDERED SEPARATELY

TC-R PLUS
STEPLESS SPEED CONTROL. TO BE ORDERED SEPARATELY.
WALL INSTALLATION

TD-3R
3 SPEED CONTROL. TO BE ORDERED SEPARATELY.
IN-WALL INSTALLATION

> GENERAL FEATURES

Tangential fan coil unit series including high-efficiency brushless motors. 131 mm as maximum depth, attractively designed casing, suitable for residential heating and air conditioning applications. Available in three versions, **VM-F** featuring motorized front air inlet louvre, **VM-G** including fixed inlet grille and **VN** without casing for concealed applications. **Four sizes** and cooling capacity **from 0,83 kW to 3,34 kW**.
The careful design of the main components, refined styling and versatility make them suitable for any type of installation in the residential, commercial or industrial field.
Their installation requires only connection to the electrical and plumbing system

> CONSTRUCTION CHARACTERISTICS

SUPPORTING STRUCTURE: in galvanised high-thickness sheet, integrating structural and functional elements in plastic, such as the condensate tray and fan conveyor.
HEAT EXCHANGE COIL: copper tube arranged in staggered rows in order to increase heat exchange. Aluminium fins, fastened by mechanical expansion of the tubes. The manifolds intetgrate air vents and water drain holes. The coil has a pocket for the water temperature probe. The fan coils can be ordered with left or right connection. In case of need it is however possible to retate the coils. Conversion from left to right connection requires nevertheless an adapting kit.
CONDENSATE TRAY: in thermoplastic material -thus corrosion-free- supplied as a standards on models VM-G and VN. It permits either vertical and horizontal installation of the unit.
FAN MOTOR: the motor is a high-efficiency brushless type, speed-controlled. It is fitted on rubber supports to reduce noise transmission to the frame. Speed adjustment occurs on stepless mode. The units are also available on demand with compatibility to Ferroli 3 fixed speed control or pre existing ones.
TANGENTIAL FAN: the tangential-type fan is coupled directly to the motor and mounted on an anti-vibration support.
AIR FILTER: in polypropylene honeycomb, easily removable, it can be regenerated simply by washing with water.
CABINET (only VM-F and VM-G): entirely made in steel sheet and epoxy powder, coated to ensure high corrosion resistance. The air outlet grilles are on the top of the cabinet.
The side panels can be removed to ease the unit's installation and access to its internal components.
Available in colour RAL 9003.
AIR OUTLET GRILLE (only VM-F and VM-G): in aluminium, painted the cabinet colour. It can be rotated to get the air flow towards the room or against the wall.
AIR INLET GRILLE
(version VM-F): in extruded aluminium. It includes two thermal actuators opening the grille in parallel with activation of the fan. A microswitch prevents fan operation when the grille is removed for periodic filter cleaning.
(version VM-G): also in extruded aluminium. It is mounted below the front panel and is fixed blades type. Removable for filter cleaning.
PLUMBING CONNECTIONS: the units are equipped with EUROKONUS ¾" plumbing connections, that allow simple and safe connection.

> CONTROLS

Speed control can be made on progressive mode or on pre-set speeds

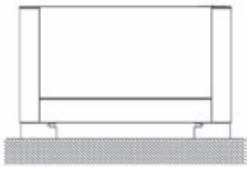
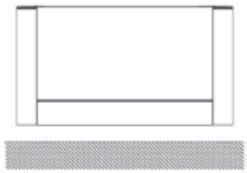
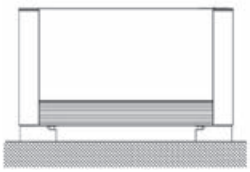
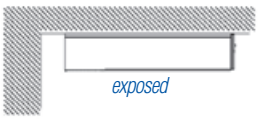
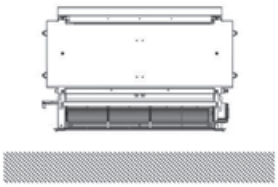
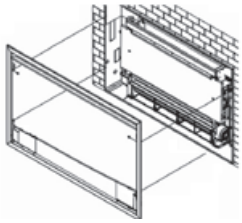
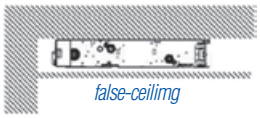
STEPLESS SPEED CONTROL

Specific controls - equipped with continuous regulation algorithms - have been developed. Such devices keep steady comfort conditions inside the room. Energy savings are also granted thanks to the fan modulation, as well as sound pressure minimization.
The electronics and its interface are available as on-board version **(TC plus)**, for VM-F and VM-G. The unit can be however been ordered without built-in control: a remote one **(TC-R plus).** All controls can be ordered separately as an accessory.
TC-R plus remote thermostat can also handle up to 31 fan-coil units connected together in parallel. This solution is suitable for medium-large rooms containing several installed units.
Functions: Room setpoint regulation / Automatic fan speed / Noise limiter (decreasing fan speed) / NIGHT mode (fan speed decrease / setpoint modification) / MAX (brings speed fan to max)
Connections: 230 V output for ON-OFF valves / Independent voltage-free contacts for activation of a chiller or boiler depending on room thermostat request / Voltage free contact for room presence (window opening contact or hotel badge).

PRE-FIXED SPEED CONTROL

In case a 3 speed-control is wished to be used, **TS PLUS** is fit to be installed as on board thermostat. A interface PCB-**K3V plus** can interact with fan motor. It can be controlled by **TD-R** remote terminal. **The accessory needs to be ordered separately**. Jolly Plus models which are compatible with the mentioned interface can however be coupled with 3-speed thermostats which may be already present in the installation.

INSTALLATION

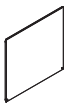
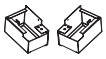
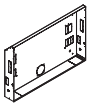
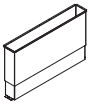
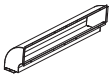
	Vertical above bearing feet. Room centered or against the wall	Vertical wall-hung	Vertical concealed	Horizontal. Ceiling mounted
VM-F version motorised louvre				
VM-G version fixed louvre				 exposed
VN version conceiled				 false-ceiliing

TECHNICAL DATA

MODEL		20	40	60	80
PERFORMANCE					
Total cooling capacity	W	830	1760	2650	3340
Sensible cooling capacity	W	620	1270	1960	2650
Water flow rate	l/h	143	303	456	574
Water pressure loss	kPa	7,2	8,4	22,5	18,6
Heating capacity at 50°C inlet water	kW	1090	2350	3190	4100
Water flow rate (50°C inlet water)	l/h	142	302	453	573
Water pressure loss (50°C inlet water)	KPa	5,7	6,6	16,3	14,0
Heating capacity without fan (50°C)	W	210	247	291	366
Heating capacity at 70°C inlet water ΔT 10	kW	1890	3990	5470	6980
Water flow rate (70°C ΔT 10)	l/h	162	343	471	600
Water pressure loss (70°C ΔT 10)	kPa	6,7	7,6	16,1	14,0
Heating capacity without fan (70°C)		322	379	447	563
HYDRAULIC CHARACTERISTICS					
Coil water content	litres	0,47	0,8	1,13	1,46
Max. operating pressure	bar	10	10	10	10
Plumbing connections	inches	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4	Eurokonus 3/4
AERAULIC DATA					
Max. air flow	m3/h	162	320	461	576
Air flow at medium speed (AUTO mode)	m3/h	113	252	367	453
Air flow at min. fan speed	m3/h	55	155	248	370
Available max. static pressure	Pa	10	10	13	13
ELECTRICAL DATA					
Power supply voltage	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Max. power absorbed	W	12	18	20	26
Max. current absorbed	A	0,11	0,16	0,18	0,26
Power absorbed at min. speed	W	4	5	5	6
SOUND LEVEL					
Sound pressure at max. air flow	dB(A)	39,4	40,2	42,2	42,5
Sound pressure at medium air flow	dB(A)	33,2	34,1	34,4	35
Sound pressure at min. air flow	dB(A)	24,2	25,3	25,6	26,3
WEIGHT					
Net weight unit VM-F / VM-G	kg	17	20	23	26
Net weight unit VN	kg	9	12	15	18
CODE (see page 3)	**VM-G**	**2C027M5F**	**2C027W5F**	**2C027Y5F**	**2C027I5F**
	VM-F	**2C02725F**	**2C02785F**	**2C027E5F**	**2C027L5F**
	VN	**2C02705F**	**2C02765F**	**2C027C5F**	**2C027J5F**

ACCESSORIES

REMOTE CONTROL							
MODEL		DESCRIPTION	20	40	60	80	CODE
TC PLUS	-	On board stepless, speed controller and thermostat	•	•	•	•	2C0276YF
CC-R PLUS	-	Remote stepless, speed controller and thermostat	•	•	•	•	2C0274YF
TC-R PLUS		Remote user interface - continuous control thermostat	•	•	•	•	2C0275YF
TS PLUS	-	On board basic thermostat	•	•	•	•	2C027BYF
K3V PLUS	-	3 speed kit	•	•	•	•	2C0277YF
TD-3R		Remote digital user interface - 3 speed control	•	•	•	•	2C0211YF

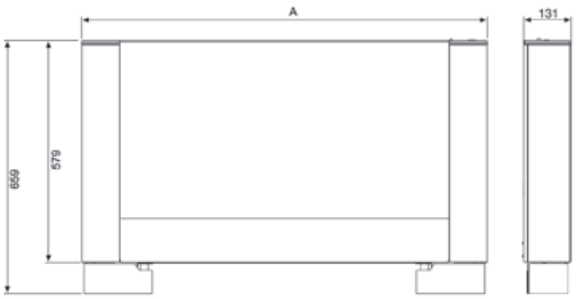
INSTALLATION ACCESSORIES							
VM-F / VM-G version							
MODEL		DESCRIPTION	20	40	60	80	CODE
PC 20		Front closing panel mod VM-F / VM-G 20	•				2C0270XF
PC 40		Front closing panel mod VM-F / VM-G 40		•			2C0271XF
PC 60		Front closing panel mod VM-F / VM-G 60			•		2C0272XF
PC 80		Front closing panel mod VM-F / VM-G 80				•	2C0273XF
PE		Cover feet (for wall-hung installation)	•	•	•	•	2C0278XF
PA		Bearing feet	•	•	•	•	2C0279XF
ACCESSORIES FOR VM-G HORIZONTAL INSTALLATION							
BO 20	-	Pan for horizontal installation mod. VM-G 20	•				2C0214XF
BO 40		Pan for horizontal installation mod. VM-G 40		•			2C0215XF
BO 60		Pan for horizontal installation mod. VM-G 60			•		2C0216XF
BO 80		Pan for horizontal installation mod. VM-G 80				•	2C0217XF
VN version							
MODEL		DESCRIPTION	20	40	60	80	CODE
CF 20		Formwork mod VN 20	•				2C021LWF
CF 40		Formwork mod VN 40		•			2C021MWF
CF 60		Formwork mod VN 60			•		2C021NWF
CF 80		Formwork mod VN 80				•	2C021PWF
PCF 20		Cover panel mod VN 20	•				2C021QWF
PCF 40		Cover panel mod VN 40		•			2C021RWF
PCF 60		Cover panel mod VN 60			•		2C021SWF
PCF 80		Cover panel mod VN 80				•	2C021TWF
RA 20		Air intake fitting mod VN 20	•				2C0210WF
RA 40		Air intake fitting mod VN 40		•			2C0211WF
RA 60		Air intake fitting mod VN 60			•		2C0212WF
RA 80		Air intake fitting mod VN 80				•	2C0213WF
PMT 20		Flow telescopic plenum mod VN 20	•				2C0214WF
PMT 40		Flow telescopic plenum mod VN 40		•			2C0215WF
PMT 60		Flow telescopic plenum mod VN 60			•		2C0216WF
PMT 80		Flow telescopic plenum mod VN 80				•	2C0217WF
PMP 20		Flow perpendicular plenum mod VN 20	•				2C0218WF
PMP 40		Flow perpendicular plenum mod VN 40		•			2C0219WF
PMP 60		Flow perpendicular plenum mod VN 60			•		2C021AWF
PMP 80		Flow perpendicular plenum mod VN 80				•	2C021BWF
GM 20		Flow grille-curved blades mod VN 20	•				2C021CWF
GM 40		Flow grille-curved blades mod VN 40		•			2C021DWF
GM 60		Flow grille-curved blades mod VN 60			•		2C021EWF
GM 80		Flow grille-curved blades mod VN 80				•	2C021FWF
GA 20		Intake grille-curved blades mod VN 20	•				2C021GWF
GA 40		Intake grille-curved blades mod VN 40		•			2C021HWF
GA 60		Intake grille-curved blades mod VN 60			•		2C021JWF
GA 80		Intake grille-curved blades mod VN 80				•	2C021KWF

ACCESSORIES

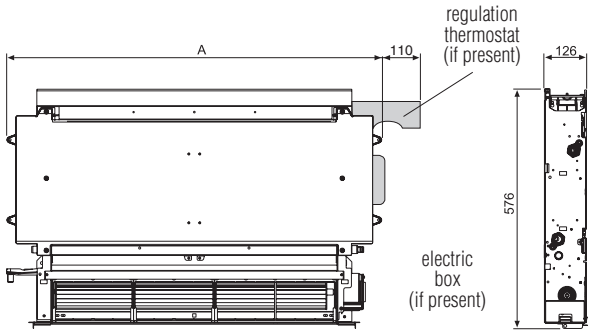
HYDRAULIC ACCESSORIES							
MODEL		DESCRIPTION	20	40	60	80	CODE
VB 2		2-way valve	•	•	•	•	2C0212YF
VB 3		3-way valve	•	•	•	•	2C0213YF
KRE 3/4"	-	Conversion kit Eurokonus 3/4" F	•	•	•	•	2C0219YF
KRE 1/2"	-	Conversion kit Eurokonus 1/2" F	•	•	•	•	2C021AYF
KLR PLUS	-	Water connection conversion left to right	•	•	•	•	2C0238YF

DIMENSIONS

VM-F e VM-G version



VN version



MODEL	20	40	60	80
VM-F / VM-G (mm)	735	935	1135	1335
VN (mm)	479	679	879	1079

FCM

FAN COIL
CASSETTE

INFRARED REMOTE CONTROLLER (standard)

WIRED CONTROLLER (optional)

GENERAL SPECIFICATION

- 2 versions - for 2 pipes plant and for 4 pipes plant
- 4 model available for 2 pipes type and 2 model for 4 pipes type
- New EC motor with low consumptions up to 30% respect to a standard motor
- Controlled by infrared remote controller (standard) and a wired controller (optional)
- Timer setting
- Available function: Heating, Cooling, Dehumidification, Automatic

CONTROLLER

INFRARED REMOTE CONTROLLER (Standard)

This controller is very easy to use and all parameters are under control. The limit trasmitting distance of this remote controller is 10 m. Already supplied with the unit.

WIRED CONTROLLER (Optional)

This controller is very easy to use and all parameters are under control. In this case, the panel is fixed to the wall and connected to the unit by a wire.

OPTIONAL ACCESSORIES

The following accessories are available for this category:

3-WAY VALVE KIT(obligatory for operation in the cooling mode)

The three-way valve is not only required to control the ambient temperature, but also to block the flow of chilled water to the coil should the level of condensed water in the tray rise in an abnormal way.
It is obligatory to install this valve if the unit is used for operation in the cooling mode. It avoids excessive cooling when fan is idle, thus preventing the unpleasant formation of condensation inside the machine.
The kit includes copper pipe connections and 3-way valve with ON/OFF electrothermic actuator, suitable for 230V power input. The valve is controlled by main board of the unit.

DRIP TRAY

This PVC tray collects and conveys outside condensation from pipe connections and 3-way valve kit (if present).

MODELS			400	600	850	1500	400-4T	750-4T
Version			2 pipes				4 pipes	
Power supply		V-f-Hz	230-1-50					
Air Flow	Max	m³/h	717	1133	1441	1850	717	1233
	Med	m³/h	502	793	1009	1295	502	863
	Min	m³/h	359	567	721	925	359	617
Cooling capacity (1)	Max	W	3930	5580	6840	10640	2880	5180
	Med	W	3070	4350	5330	8090	2190	3940
	Min	W	2480	3520	4300	6600	1800	3260
Water flow		l/h	676	960	1176	1830	495	891
Cooling water pressure drop		kPa	12	21	27	34	14,5	12
Heating Capacity (2)	Max	W	5340	7720	9370	14380	-	-
	Med	W	4000	5920	7250	11290	-	-
	Min	W	3150	4500	5500	8440	-	-
Heating Capacity (3)	Max	W	-	-	-	-	4730	7410
	Med	W	-	-	-	-	3600	5640
	Min	W	-	-	-	-	2980	4670
Water flow (2)		m³/h	676	960	1176	1830	-	-
Water flow (3)		m³/h	-	-	-	-	407	637
Heating water pressure drop		kPa	10,6	22	23	34	29,1	42
Power input		W	27	42	70	124	27	50
Sound pressure level	Max-Med-Min	dB(A)	40 - 36 - 28	42 - 33 - 26	46 - 36 - 28	50 - 40 - 33	40 - 36 - 28	42 - 34 - 26
Pipe connection		"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Pipe connection auxiliary		"	-	-	-	-	1/2"	1/2"
Net \ Gross weight Body		Kg	16,5/21,5	23/28	27/33	29/34,5	17/23	28/34
Net \ Gross weight Panel		Kg	2,5/4,5	6/9	6/9	6/9	2,5/4,5	6/9
CODE (see page 3)	**FCM**		**2C097A0F**	**2C097A1F**	**2C097A2F**	**2C097A3F**	**2C097B0F**	**2C097B1F**
	Cover grille (small)		**2C097AAF**	-			**2C097AAF**	-
	Cover grille (big)		-	**2C097BAF**			-	**2C097BAF**

NOTE: (1) (1) Air T=27°C D.B. / 19°C W.B. , Water IN/OUT 7°/12°C, design air flow; For medium and low fan speed, water flow as in maximum fan speed mode. **(2)** Air T=20°C D.B., water inlet temperature 50°C, water flow as in cooling mode. **(3)** Air T=20°C D.B., water IN/OUT 70°/60°C, design air flow; For medium and low fan speed, water flow as in maximum fan speed mode. **(4)** Sound pressure level in 100m² room with 0.5sec of reverberation time

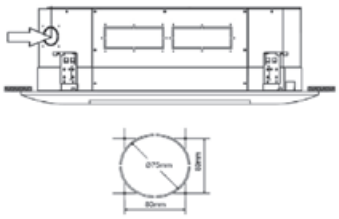
ACCESSORIES

MODELS	400	600	850	1500	400-4T	750-4T
VT1 - 3 way valve for main exchanger	20Z19000	-			20Z19000	-
VT2 - 3 way valve for main exchanger	-	20Z19340			-	
VT3 - 3 way valve for main exchanger	-					20Z19350
VT4 - 3 way valve for additional exchanger	-				20Z19020	-
VT5 - 3 way valve for additional exchanger	-					20Z19360
Drip tray	2C097FAF	-			2C097FAF	-
Drip tray	-	2C097GAF	-			2C097GAF
Wired control	2C097DAF					
Centralised control	2C097EAF					

OPTION INSTALLATION

Fresh air flow input

For fresh air flow input there is a pre-cut hole to connect the unit to a circular duct. It is possible to control fresh air flow by an external fan (not included). This fan can be controlled by main board of the unit.

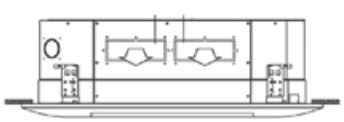


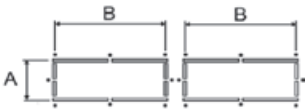
4 PIPES MODEL	400-4	750-4
2 PIPES MODEL	400	600 - 850 - 1500
Ø	65	75

Air delivery into an adjacent room

On all sides there are pre-cut hole to connect the unit to adjacent rooms by some ducts.

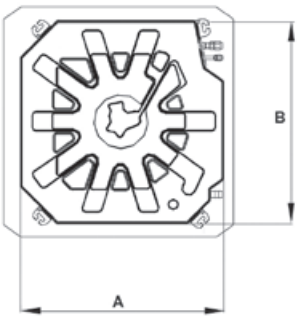
4 PIPES MODEL	2 PIPES MODEL	A (mm)	B (mm)	Ø (mm)
400-4	400	-	-	150
-	600	75	160	-
750-4	850 - 1500	95	160	-

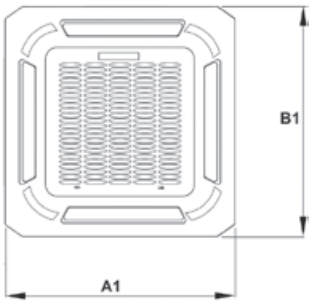


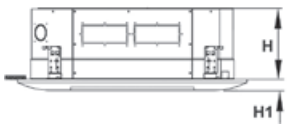


DIMENSION

4 PIPES MODEL		400-4	-	750-4	
2 PIPES MODEL		400	600	850	1500
Body	A (mm)	575	840	840	
	B (mm)	575	840	840	
	H (mm)	260	230	300	
Panel	A1 (mm)	647	950	950	
	B1 (mm)	647	950	950	
	H1 (mm)	50	45	45	







NOTES

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.

cod. 89CG0012/00 - 062018

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