BLUEHELIX TECH RRT C WALL HUNG CONDENSATION BOILERS INSTANTANEOUS DHW PRODUCTION



ERP

COLLECTIVE

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MULTI COMB CONTROL

> STRE - Carefu

> STRENGTHS:

- Careful design of aesthetics and silent operation, it maintains the legacy of appreciation of the previous "Bluehelix" series
- Boiler with high thickness stainless steel primary exchanger, with large passes (the largest in the category) guaranteeing duration and reduced maintenance, it maintains high efficiency even on old systems with oxidation and soiling
- MC²: Multi Combustion Control, new combustion system with industrial-derived gas-adaptive
 patented technology for better adaptability of use to the varying gas network conditions (ex. pressure
 fluctuations or drops)
- M.G.R: Methane, LPG, Propane-air Ready with a simple configuration the boiler can run on natural gas, LPG without the use of any additional conversion kits
- Exclusive exchanger-burner system with self-cooling door: it simplifies maintenance and lowers the cost thanks to a lower number of parts that need replacing
- Instantaneous production of domestic hot water with a dedicated DHW plate exchanger
- Hydraulic fittings covered by the boiler jacket
- Large multi-purpose backlit graphic display to set parameters easily and correctly
- By-pass with standard supply

> ADVANTAGES OF BLUEHELIX TECH RRT C:

- Particularly suitable for operation in flues requiring "heavy duty" pipes thanks to approval for operation with flue gas discharge with a diameter of 50mm
- F.P.S: Flue gas Protection System. The flue gas check valve provided by standard offers easy connection to pressurised collective flue systems (ex. in restructuring), in accordance with regulation UNI 7129
- Designed to simplify and facilitate normal maintenance and cleaning operations
- Solar system set up: set up for the production of domestic hot water combined with solar panel systems
- STOP AND GO: you can delay burner ignition by starting it up only when domestic hot water is actually drawn
- Certified 3-star comfort in DHW production mode in accordance with EN 13203
- Minimum polluting emissions (class 6 according to EN 15502-1)
- Sliding temperature operating mode through outdoor probe (optional)
- Low consumption modulating heat pump (ErP Ready Class A)
- Digital flame control with three ignition tries if operation gets blocked due to failed flame detection (natural gas mod.)

 Place of installation: also outdoors, in a partially protected place down to -5°C by standard and even -15°C with the addition of the optional antifrost heating elements kit

EASY MAINTENANCE	FLUE GAS Ø 50mm	METHANE LPG READY	STOP AND GO	CLIMATIC	MODE	DHW	ETA ₅ 94%	CLASS 6	PROTECTED	REMOTE
	50	m 🍂		¢	SUN	मि र्ने देवे	GL		-5°C -15°C	Å

BLUEHELIX TECH RRT			24 C	28 C	34 C
FRP Class		(Class G - A++)	Α	A	Α
	₩.	(Class G - A)	× _{XL}	🖏 XL 🔼	×xxl A
Heating max /min heat input (Hs)	kW		22.7 / 5.6	24.5 / 5	34.0 / 7.1
Heating max /min heat output (80/60°C)	kW		20 / 4.9	24/4.9	30 / 6.3
Heating max /min heat output (50/30°C)	kW		21.7 / 5.4	26/5.4	32.5 / 6.9
DHW max / min heat input (Hi)	kW		25 / 5	28.5/5	34.7 / 6.4
DHW max / min heat output	kW		24.5 / 4.9	28.0/4.9	34.0 / 6.3
Efficiency Pmax / Pmin (80-60°C) (Hi)	%		98 / 97.8	98.1 / 98	98 / 97.8
Efficiency Pmax / Pmin (50-30°C) (Hi)	%		106.1 / 107.5	106.1 / 107.5	106.1 / 107.5
Efficiency 30% (Hi)	%		109.8	109.7	109.8
Max / min heating operating pressure	bar		3/0.8	3 / 0.8	3 / 0.8
DHW max / min operating pressure	bar		9/0.3	9 / 0.3	9 / 0.3
DHW flow rate ∆t 25°C	l/min		14	16.1	19.5
DHW flow rate ∆t 30°C I/min		11.7	13.4	16.2	
Empty weight	kg		28	28	32
No. of pieces/pallet	nr.		10	10	10
CODE	NAT GAS/I	LPG	OT3B2BWA	OT3B2AWA	OT3B3AWA

BLUEHELIX TECH RRT 34 C

BLUEHELIX TECH RRT 24 / 28 C



VIEW FROM ABOVE



VIEW FROM BELOW





> ACCESSORIES FOR FLUES DIAMETER Ø 50 MM

DESCRIPTION	CODE
Extension 1 m ø 50 twin pipes	041086X0
Bend 90° ø 50 twin pipes	041085X0
Reduction from ø 80 to Ø 50 twin pipes (1 piece)	041087X0

	DESCRIPTION	CODE
	galvanised template	046049X0
	kit for connection of fittings complete with gas tap with cone, DHW tap, 2 system taps, pipes, nipple, gaskets	012043W0
	kit for connection of 5 pipe fittings nb: the kit does not include taps and connection nipples	012047W0
	outdoor probe	013018X0
*	thermostatic mixer kit 1/2" connections	013002X0

	DESCRIPTION	CODE
60	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers	041084X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensing boilers	041006X0
	coupling for vertical coaxial pipe ø 100/60 mm for condensing boilers	041083X0
Terrare and the second	discharge kit twin pipes 80/80 for condensing boilers complete with test point	041082X0
600	auxiliary antifrost kit down to -15°C	013022X0

BLUEHELIX TECH RRT H WALL HUNG CONDENSATION BOILERS HEATING ONLY



> STRENGTHS:

- Careful design of aesthetics and silent operation, it maintains the legacy of appreciation of the previous "Bluehelix" series
- **Boiler** with high thickness stainless steel primary exchanger, **with large passes** (the largest in the category) **guaranteeing duration** and reduced maintenance, it maintains high efficiency even on old systems with oxidation and soiling
- MC²: Multi Combustion Control, new combustion system with industrial-derived gas-adaptive
 patented technology for better adaptability of use to the varying gas network conditions (ex. pressure
 fluctuations or drops)
- M.G.R: Methane, LPG, Propane-air Ready with a simple configuration the boiler can run on natural gas, LPG without the use of any additional conversion kits
- Exclusive exchanger-burner system with self-cooling door: it simplifies maintenance and lowers the cost thanks to a lower number of parts that need replacing
- DHW production combined with storage tank (optional), 3-way valve with standard supply in boiler
- Hydraulic fittings covered by the boiler jacket
- Large multi-purpose backlit graphic display to set parameters easily and correctly
- By-pass with standard supply

> ADVANTAGES OF BLUEHELIX TECH RRT H:

- Particularly suitable for operation in flues requiring "heavy duty" pipes thanks to approval for operation with flue gas discharge with a diameter of 50mm
- F.P.S: Flue gas Protection System. The flue gas check valve provided by standard offers easy connection to pressurised collective flue systems (ex. in restructuring), in accordance with regulation UNI 7129
- Designed to simplify and facilitate normal maintenance and cleaning operations
- Minimum polluting emissions (class 6 according to EN 15502-1)
- Sliding temperature operating mode through outdoor probe (optional)
- Low consumption modulating heat pump (ErP Ready Class A)
- **Digital flame control** with three ignition tries if operation gets blocked due to failed flame detection (natural gas mod.)
- **Place of installation**: also outdoors, in a partially protected place down to -5°C by standard and even -15°C with the addition of the optional antifrost heating elements kit

PRESSURISED CONTROL	MAINTENANCE	Ø 50mm	READY	STAINLESS	CLIIIIHTIC ETH _S 94%	CLHSS 6	PROTECTED	REIIIOTE
		50	M G R		*		-5°C -15°C	250
BLUEHELIX TECH RRT					24 H		30 H	
ERP Class				(Class G - A++)	A		Α	
Heating max /min heat ing	out (Hs)		kW		24.5 / 5.0		30.6 / 6.4	
Heating max /min heat ou	tput (80/60°C)		kW		24 / 4.9		30/6.3	
Heating max /min heat ou	tput (50/30°C)		kW		26.0/5.4		32.5 / 6.9	
Efficiency Pmax / Pmin (8	0-60°C) (Hi)		%		98.1 / 98.0)	97.9 / 98.0	
Efficiency Pmax / Pmin (5	0-30°C) (Hi)		%		106.1 / 107.	5	106.1 / 107.5	
Efficiency 30% (Hi)			%		109.7		109.5	
Max / min heating operati	ng pressure		bar		3 / 0.8		3/0.8	
Empty weight			kg		28		31	
No. of pieces/pallet			nr.		10		10	
CODE			NAT	GAS/LPG	OT3D2BW	A	OT3D3AWA	

BLUEHELIX TECH RRT 24 H

BLUEHELIX TECH RRT 30 H



> ACCESSORIES FOR FLUES DIAMETER Ø 50 MM

	DESCRIPTION	CODE
	Extension 1 m ø 50 twin pipes	041086X0
P	Bend $90^{\circ} ø$ 50 twin pipes	041085X0
	Reduction from ø 80 to Ø 50 twin pipes (1 piece)	041087X0

	DESCRIPTION	CODE
80	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers	041084X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensing boilers	041006X0
	outdoor probe	013018X0
÷	thermostatic mixer kit 1/2" connections	013002X0

	DESCRIPTION		CODE
	coupling for vertical coaxial pi ø 100/60 mm for condensing b	041083X0	
. ,,	discharge kit twin pipes 80/80 for condensing boilers comple with test point	041082X0	
600	auxiliary antifrost kit down to -	013022X0	
	additional sensor for	cable 2 m	1KWMA11W
	storage tank	cable 5 m	043005X0

BLUEHELIX PRIMA 24 C

WALL HUNG CONDENSATION BOILERS INSTANTANEOUS DHW PRODUCTION



> **STRENGTHS**:

- Boiler with single-circuit stainless steel primary exchanger without joints and/or welding, it maintains high efficiency also on old systems.
- MC²: Multi Combustion Control, new combustion system with industrial-derived gas-adaptive
 patented technology for better adaptability of use to the varying gas network conditions (ex. pressure
 fluctuations or drops)
- M.G.R: Methane, LPG, Propane-air Ready with a simple configuration the boiler can run on natural gas, LPG without the use of any additional conversion kits
- Instantaneous production of domestic hot water with a dedicated DHW plate exchanger
- User interface with display and multi-purpose keys to adjust and set the parameters
- By-pass with standard supply

> ADVANTAGES OF BLUEHELIX PRIMA 24 C:

- Solar system set up: set up for the production of domestic hot water combined with solar panel systems
- Minimum polluting emissions (class 6 according to EN 15502-1)
- Sliding temperature operating mode through outdoor probe (optional)
- Low consumption modulating circulator (ErP Ready Class A)
- Digital flame control with three ignition tries if operation gets blocked due to failed flame detection (natural gas mod.)
- Place of installation: also outdoors, in a partially protected place down to -5°C by standard and even -15°C with the addition of the optional antifrost heating elements kit



BLUEHELIX PRIMA			24 C		
FRP Class		(Class G - A++)	Α		
	₩.	(Class G - A)	× _{XL}		
Heating max /min heat input (Hs)	kW		22.9 / 4.7		
Heating max /min heat output (80/60°C)	kW		20.0 / 4.1		
Heating max /min heat output (50/30°C)	kW		21.8 / 4.5		
DHW max / min heat input (Hi)	kW		25.0 / 4.2		
DHW max / min heat output	kW		24.3 / 4.1		
Efficiency Pmax / Pmin (80-60°C) (Hi)	%		97.1 / 97.0		
Efficiency Pmax / Pmin (50-30°C) (Hi)	%		105.8 / 106.9		
Efficiency 30% (Hi)	%		108.8		
Max / min heating operating pressure	bar		3 / 0.8		
DHW max / min operating pressure	bar		9/0.3		
DHW flow rate ∆t 25°C	l/min		14		
DHW flow rate ∆t 30°C			11.7		
Empty weight	kg		kg		25
No. of pieces/pallet			10		
CODE	NAT GAS/	LPG	OTPB2AWA		

BLUEHELIX PRIMA 24 C



VIEW FROM ABOVE

VIEW FROM BELOW

> KEY
7 3/4" gas inlet
8 1/2" DHW outlet
9 1/2" DHW inlet
10 3/4" system flow

10 3/4" system flow **11** 3/4" system return

DESCRIPTION	CODE
kit for connection of fittings complete with gas tap with cone, DHW tap, pipes, nipple, gaskets	012048W0
kit for connection of 5 pipe fittings nb: the kit does not include taps and connection nipples	012049W0
outdoor probe	013018X0
 thermostatic mixer kit 1/2" connections	013002X0

	DESCRIPTION	CODE
80	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers	041084X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensing boilers	041006X0
	coupling for vertical coaxial pipe ø 100/60 mm for condensing boilers	041083X0
. ,	discharge kit twin pipes 80/80 for condensing boilers complete with test point	041082X0
00	auxiliary antifrost kit down to -15°C	013022X0

BLUEHELIX K 50 CONDENSING WALL HUNG BOILER, STAINLESS STEEL DHW STORAGE

ERP

Ferroli

> STRENGTHS:

- It reaches one of the highest seasonal space heating efficiencies in its category: η_{s} 94%
- Im At system): combined with the modulating remote control and the outdoor probe (optional) it reaches the top efficiency class A+ (scale from G to A+++)
- Stainless steelprimary heat exchanger
- DHW production with 50-litre stainless steel storage tank
- Set-up for recirculation fittings (provided with the accessory: fitting connection kit)
- Stainless steel full pre-mixing burner with broad modulating range
- Low consumption modulating heat pump (ErP Ready Class A)
- Digital commands with user interface display, multi-purpose for easily and correctly entering parameters
- Can be combined with the modulating remote control

> ADVANTAGES OF BLUEHELIX K 50:

- Minimum polluting emissions (class 6 according to EN 15502-1)
- Sliding temperature operating mode in combination with the optional outdoor probe
- Certified 3-star comfort in DHW production mode in accordance with EN 13203, set forth by Reg. 812/2013
- Exchanger protection function with Δt control
- Antilegionella function with programmable timing
- Timed block protection for circulator and three-way valve
- Digital flame control with three reignition tries if operation gets blocked due to failed flame detection (only in natural gas mode)
- Antifrost function with standard protection down to -5°C

PROTECTED	EMOTE DHW	CLIMATIC	CLASS 6	PUMP MODULATING	
-5°C			6	MA GL	
MODEL				25 K 50	32 K 50
ERP Class			(Class G - A++)	A	A
		₩ _{XL}	(Class G - A)		A
Heat input (L.C.V.)	Heating Min / Max DHW Max	kW kW	5.8 / 25.0 27.5	6.7 / 29.5 32.0
Heat output	80°C-60°C 50°C-30°C	Heating Min / Max DHW Max Heating Min / Max	kW kW kW	5.7 / 24.5 27.0 6.2 / 26.5	6.6 / 28.9 32.0 7.2 / 31.3
Useful thermal eff	iciency	80°C-60°C 50°C-30°C Reduced load 30%	Pmax % / Pmin 9 Pmax % / Pmin 9 Pmax %	% 98.0 / 97.8 % 106.1 / 107.5 108.8	98.0 / 97.8 106.1 / 107.5 108.8
Nox emissions cla	ass		class	6	6
Storage tank capa	city		litres	50	50
Domestic hot wate	er production	∆t 30°C ∆t 30°C	I/10 min I/h	175 820	195 945
Heating operating	pressure	Max	bar	3	3
Domestic operatir	ng pressure	Max	bar	9	9
Empty weight			kg	61	80
No. of pieces/pa	llet		nr.	10	10
CODE			NATURAL GAS	OTAX2AWA	OTAX3AWA

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BLUEHELIX 25 / 32 K 50





VIEW FROM BELOW

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VIEW FROM ABOVE

> KEY
 1 3/4" heating system flow
 2 1/2" DHW outlet
 3 1/2" gas inlet

4 1/2" DHW inlet5 3/4" heating system return6 safety valve discharge

DESCRIPTION	CODE
galvanised template	056004X0
kit for connection of fittings complete with gas tap with cone, DHW tap, 2 system taps, pipes, nipple, gaskets, recirculation fitting	052003X0
fitting cover sheet metal	056005X0
outdoor probe	013018X0
 thermostatic mixer kit 1/2" connections	013002X0

	DESCRIPTION	CODE
	coupling for vertical coaxial pipe ø 100/60 mm for condensing boilers	041002X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensing boilers	041006X0
	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers	041001X0
99	discharge kit twin pipes 80/80 for condensing boilers complete with test point	041039X0

BLUEHELIX TECH S 45 H WALL HUNG CONDENSING BOILERS, HEATING ONLY



> **STRENGTHS**:

- Boiler body with high thickness stainless steel primary exchanger
- Stainless steel full pre-mixing burner
- Digital control **panel**
- $\ensuremath{\text{Electronic flame modulation}}$ in heating and in $\ensuremath{\text{DHW}}$
- Can be combined with the modulating remote control
- Large multi-purpose backlit graphic display to set parameters easily and correctly
- **By-pass** with standard supply
- Elegant design and compact size
- Outer casing coated with white anaphoresis epoxy powders

> ADVANTAGES OF BLUEHELIX TECH 45 H:

- ECO function in domestic mode for more savings when hot water is not really used
- Sliding temperature operating mode through outdoor probe (optional)
- Minimum polluting emissions (class 6 according to EN 15502-1)
- Low consumption modulating heat pump (ErP Ready Class A)
- **Digital flame control** with three ignition tries if operation gets blocked due to failed flame detection (natural gas mod.)



MODEL			S 45 H
ERP Class		(Class G - A++)	A
Heat input (L.C.V.)	Heating Min / Max DHW Max	kW kW	7.5 / 43.0
Heat output 80°C-60°C 50°C-30°C	Heating Min / Max Heating Min / Max	kW kW	7.3 / 42.1 8.0 / 45.6
Useful thermal efficiency	80°C-60°C 50°C-30°C 30% partial load	Pmax % / Pmin % Pmax % / Pmin % Pmax %	98.0 / 97.8 106.1 / 107.5 108.8
Domestic hot water production	Δt 30°C Δt 25°C	l/min l/min	-
Heating operating pressure	Max / Min	bar	4.5 / 0.8
Empty weight		kg	33.5
No. of pieces/pallet		nr.	10
CODE		NATURAL GAS	0T2D5IWA

BLUEHELIX TECH S 45 H



> KEY

- 1 3/4" heating system flow
- 2 3/4" storage tank delivery
- **3** 1/2" gas inlet
- **4** 3/4" storage tank return **5** 3/4" heating system return
- 6 safety valve

	DESCRIPTION	CODE
	outdoor probe	013018X0
P	kit for management with thermostat (not supplied) of a dhw storage tank	013017X0

DESCRIPTION		CODE	
coupling for vertical coaxial pi ø 100/60 mm for condensing boilers	041002X0		
coupling for vertical coaxial pip ø 80/125 mm for condensing boilers	041006X0		
90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers	041001X0		
discharge kit twin pipes 80/80 for condensing boilers comple with test point	te	041039X0	
additional sensor for 2 m 1KV		1KWMA11W	
storage tank	cable 5 m	043005X0	

FORCE W



CONDENSATION THERMAL MODULES FOR CASCADE SYSTEMS FROM POWER PLANT

> STRENGTHS:

- High power condensation thermal module, designed for single installations or in cascades up to 600 kW
- Hydraulic, gas and flue gas accessories for cascade installation with 2, 3 and 4 modules
- Heat exchanger with pre-assembled elements in **aluminium-silicon alloy** designed to achieve maximum exchange efficiency and low pressure drops on the water circuit
- Full pre-mixing combustion unit with metal fibre micro-flame burner with very low polluting emissions (Class 6 according to EN 15502-1). The modules can run on Natural Gas and LPG
 Generator protection systems:
- * Double sensor (delivery and return) system for operation at ΔT constant (reg. from 0 to 60°C)
- * Exchanger overtemperature protection sensor calibrated to 95°C
- * Flue gas safety sensor
- * Water pressure switch with minimum threshold of 0.8 bar
- Hydraulic unit (provided as accessory) with three-way shut-off valve for discharge into the atmosphere
 and possibility of choosing between two circulators, standard and high head
- Air / Flue gas circuit with intake in the installation site and **check valve** on the flue gas ejection duct to size the pressurised manifold

> ADVANTAGES OF FORCE W:

- Module cascade management with **self-configurating Master / Slave system** and possibility of setting the generator on/off sequence
- Electronics on board the machine to manage a system with two direct zones and one DHW storage or systems with differentiated temperatures (direct and mixed) in combination with the FZ4 B temperature control unit
- Range Rated certified generator to adjust the generated power to the system's needs by increasing the efficiency of the system and preserving the mechanics of the machine
- The modules can be controlled and conducted remotely:
- * Power or temperature adjustment with 0 10V signal
- * Blocking alarm signal for safety and to restart operation
- * Opentherm (OT) and Modbus communication protocols with settable parameters

PROTECTED	REMOTE	CASCADE	CLIMATIC	CLASS 6	RANGE Rated
-5°C	Å		<u>ې</u> ن		η

MODEL			W 60	W 80	W 99	W 120	W 150
ERP Class		(Class G - A++)	Α	-	-	-	-
Heating heat input	Max / Min	kW	58.0 / 15.0	74.4 / 15.0	96.6 / 19.0	113.0 / 19.0	159.0 / 24.0
Heating heat output 80°C-60°C Useful heating output 50°C-30°C	Max / Min Max / Min	kW kW	56.5 / 14.7 61.5 / 15.7	72.9 / 14.7 77.0 / 14.7	94.6 / 1876 100.0 / 20.5	110.3 / 18.7 117.0 / 20.0	140.0 / 23.6 148.0 / 25.9
Efficiency	80°C-60°C 50°C-30°C 30% partial load	Pmax % / Pmin % Pmax % / Pmin % Pmax %	98.3 / 98.3 104.8 / 108.5 108.6	98.0 / 98.3 103.5 / 108.5 108.6	98.0 / 98.3 103.5 / 108.5 108.1	97.8 / 98.3 103.5 / 108.0 108.1	97.8 / 98.3 103.5 / 108.0 108.1
NOx emissions class			6	6	6	6	6
NOx (0 ₂ =0%) weighted		mg/kWh	50	54	39	38	40
CO (O ₂ =0%) weighted		mg/kWh	75	85	49	50	50
Heating operating pressure	Max / Min	bar	6 / 0.8	6 / 0.8	6 / 0.8	6 / 0.8	6 / 0.8
Water volume		lt	4.2	4.2	5.6	5.6	6.7
Empty weight		kg	54	54	63	63	73
No. of pieces/pallet		NO.	6	6	6	6	6
CODE		NATURAL GAS	OMDLAAWA	OMDLCAWA	OMDLDAWA	OMDLEAWA	OMDLFAWA

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	DESCRIPTION	CODE
	low-consumption modulating circulator Head 7 m	042070X0
	low-consumption modulating circulator Head 10 m	042071X0
	system hydraulic kit: 1 x MF 1"1/2 cock, 1 x 3-way T 1" 1/2 cock, 1 x 1" 1/2 check valve, 1 x MM 1"1/2 nipple, 2 gaskets	042072X0
	safety manifold	042075X0
	hydraulic (DN65 delivery and return), gas (DN40) manifolds kit for cascade installation	042074X0
	cascade hydraulic manifolds flanges kit DN65	042073X0
	self-standing frame starter kit* for single or cascade installations * (self-standing only with installation with hydraulic manifolds kits)	042076X0
	self-standing frame extension kit for cascade installation	042077X0
1	hydraulic separator DN 65 For installation until 300 kW	042078X0
12	installation kit for hydraulic separator DN 65	042079X0
Ĩ,	Hydraulic separator DN 100 For installation until 600 kW	042080X0
ΪĄ	Installation kit for hydraulic separator DN 100	042081X0
	gasketed plates heat exchanger	

	DESCRIPTION		CODE	
Ø	kit for management with thermostat supplied) of a dhw storage tank (for heating only boilers)	(not	013017X0	
	additional sensor for storage tank and/or system flow for cascade	cable 2 m	1KWMA11W	
	configurations with and without hydraulic separator	043005X0		
	outdoor probe		013018X0	
	ø 100 flue gas terminal		1KWMA29K	
9	M/F flue gas outlet reduction 041090			
Ŷ	flue gas manifold starter kit cascade	041091X0		
	flue gas manifold extension kit 041092			
	90° bend kit in pps ø 80 mm	1KWMA01W		
	90° bend kit in pps ø 100 mm	041077X0		
	90° bend kit in pps ø 200 mm		041060X0	
	0.5 m pps ø 100 mm MF flue gas de	uct kit	041072X0	
	1 m pps ø 80 mm MF flue gas duct	kit	1KWMA83W	
	1 m pps ø 100 mm MF flue gas duc	t kit	041073X0	
	1 m pps ø 200 mm MF flue gas duc	t kit	041062X0	
	neutralisers (see chapter on conden condensing boilers)	sation n	eutralisers for	

FORCE W CONDENSATION THERMAL MODULES FOR CASCADE SYSTEMS FROM POWER PLANT

CIRCULATOR KIT 7 m









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CASE A: REPLACEMENT OF THE EXISTING GENERATOR ON A HIGH TEMPERATURE SYSTEM

Thermal system with two loops separated by a plate heat exchanger (PHE) The primary circuit is fed by two FORCE W modules connected as a cascade operating in AUTO-CASCADE mode managed directly by the boiler electronics. A "direct" high temperature circuit and a DHW storage with recirculation pump are connected on the secondary circuit (system side). In addition to SLAVE thermal unit management, without any additional equipment, the MASTER generator can control the system's main components.

KEY 32 Boiler circulator 72a Room thermostat 1st zone (mixed) 72b Room thermostat 2nd zone (mixed) 72c Room thermostat 3rd zone (direct) 138 Outdoor probe 139a Remote timer control 1st zone (mixed) 139b Remote timer control 2nd zone (mixed) 139c Remote timer control 3rd zone (direct) 155 Storage tank probe 300 Antilegionella circulator 315a Mixing valve 1st zone (mixed) [A = OPENING PHASE B = NEUTRAL C = CLOSING PHASE] 317b Mixing valve 2nd zone (mixed) [A = OPENING PHASE B = NEUTRAL C = CLOSING PHASE] 317a Safety thermostat 1st zone (mixed) 317b Safety thermostat 2nd zone (mixed) 318a Circulator 3rd zone (direct) 319a Delivery sensor 1st zone (mixed) 319b Delivery sensor 2nd zone (mixed) b 2nd zone (mixed) 2nd zone (mixed) b 2nd zone (mixed) 319a Delivery sensor 1st zone (mixed) 319b Delivery sensor 2nd zone (mixed) b 2nd zone (mi c 3rd zone (direct) d Storage tank circuit FZ4 B Zone control card PHE Steel plate heat exchanger



CASE B: NEWLY DESIGNED SYSTEM

Thermal system with two loops separated by a plate heat exchanger (PHE). The primary circuit is fed by two FORCE W modules connected as a cascade operating in AUTO-CASCADE mode managed directly by the boiler electronics. The secondary circuit is composed of two mixed low temperature "zones", a high temperature direct one and a DHW storage.

The MASTER generator controls DHW production directly, in addition to managing the SLAVE thermal unit. The heating zones are controlled by card FZ4 B, connected to the generators through Open Therm.

CIRCULATOR KIT 10 m





CASCADE KIT FITTINGS - Delivery/return manifolds DN65 PN16

- Gas manifold DN40 PN16

- Condensation drain manifold Ø 40 mm - Flue gas manifold Ø 200 mm

Р		MC		ES			Self-standing frame (start)	Self-standing frame (extension)	7-m modulating circulator	10-m modulating circulator	FORCE W hydraulic kit (3-way 1'1/2 cook - 2-way 1" 1/2 cock, 1" 1/2 check valve)	hydraulic (DN65 delivery and return), gas (DN40) manifolds kit for cascade installation	Safety manifold	Blind flange kit DN65	5 m storage tank probe and/or system flow	Flue gas manifold starter kit	Flue gas manifold extension kit	Hydraulic separator DN 65 (up to 300 kW)	installation kit for hydraulic separator DN 65	Hydraulic separator DN 100 (up to 600 kW)	installation kit for hydraulic separator DN 100	Plate heat exchanger
, (50/30°C)		FO	RCE	W		fot. modules	7	1			ş I	H		8800	\boldsymbol{O}	7	Т	j	Į۷		Ţ	an frank da sa
	60	80	99	120	150		042076X0	042077X0	042070X0	042071X0	042072X0	042074X0	042075X0	042073X0	043005X0	041091X0	041092X0	042078X0	042079X0	042080X0	042081X0	see table
62	1					1	1	-	1	1	1	1	1	1	1	-	-	1	1	-	-	1
77		1				1	1	-	1	1	1	1	1	1	1	-	-	1	1	-	-	1
98			1			1	1	-	1	1	1	1	1	1	1	-	-	1	1	-	-	1
117				1	4	1	1	-	1	1	1	1	1	1	1	-	-	1	1	-	-	1
148					1	1	1	-	1	1	1	1	1	1	1	-	-	1	1	-	-	1
124	2	4				2	1	1	2	2	2	2	1	1	1	1	2	1	1	-	-	1
139		1				2	1	1	2	2	2	2	1	1	1	1	2	1	1	-	-	1
104	1	2		1		2	1	1	2	2	2	2	1	1	1	1	2	1	1	-	-	1
104		1		1		2	1	1	2	2	2	2	1	1	1	1	2	1	1			1
215			1	1		2	1	1	2	2	2	2	1	1	1	1	2	1	1		-	1
234				2		2	1	1	2	2	2	2	1	1	1	1	2	1	1	-	-	1
265				1	1	2	1	1	2	2	2	2	1	1	1	1	2	1	1	-	-	1
296					2	2	1	1	2	2	2	2	1	1	1	1	2	-	-	1	1	1
332			1	2		3	1	2	3	3	3	3	1	1	1	1	3	-	-	1	1	1
351				3		3	1	2	3	3	3	3	1	1	1	1	3	-	-	1	1	1
373		1			2	3	1	2	3	3	3	3	1	1	1	1	3	-	-	1	1	1
394			1		2	3	1	2	3	3	3	3	1	1	1	1	3	-	-	1	1	1
413				1	2	3	1	2	3	3	3	3	1	1	1	1	3	-	-	1	1	1
444					3	3	1	2	3	3	3	3	1	1	1	1	3	-	-	1	1	1
468				4		4	1	3	4	4	4	4	1	1	1	1	4	-	-	1	1	1
506	1				3	4	1	3	4	4	4	4	1	1	1	1	4	-	-	1	1	1
530				2	2	4	1	3	4	4	4	4	1	1	1	1	4	-	-	1	1	1
561				1	3	4	1	3	4	4	4	4	1	1	1	1	4	-	-	1	1	1
592					4	4	1	3	4	4	4	4	1	1	1	1	4	-	-	1	1	1

FORCE W SIZING AND CHOICE PLATE EXCHANGER

Below are some examples of sizing of plate heat exchangers to be combined with FORCE W generators. The choice and testing of the heat exchanger to be used, in relation to the system, is always the responsibility of the customer. The installation technician is in charge of installation

Characteristics and technical data of the PHE plate heat exchangers are in the "System components" section.

> HIGH TEMPERATURE SYSTEMS

System		INSPECTABLE PLATE EXCHANGERS PHE										
		F	VIODEL	S W				Prim	ary: 80/60°C	Secondary: 50/70°C		
power			ONOL			MODEL	CODE	Flow rates	Pressure drops	Flow rates	Pressure drops	
kW	60	80	99	120	150			m³/h	m ³ H ₂ O	m³/h	m³H₂O	
62	1					PHE 32380 29P	052682X0	2.72	0.6745	2.71	0.5968	
77		1				PHE 32380 41P	052683X0	3.38	0.6205	3.37	0.6136	
98			1			PHE 32380 41P	052683X0	4.31	1.0001	4.29	0.9891	
117				1		PHE 32380 47P	052684X0	5.14	1.1973	5.12	1.1852	
148					1	PHE 50420 35P	052686X0	6.50	0.6655	6.47	0.6655	
124	2					PHE 32380 47P	052684X0	5.45	1.3435	5.42	1.3299	
139	1	1				PHE 32380 53P	052685X0	6.11	1.1245	6.08	1.4589	
154		2				PHE 50420 35P	052686X0	6.77	0.7169	6.74	0.7169	
179	1			1		PHE 50420 35P	052686X0	7.86	0.9512	7.83	0.9510	
194		1		1		PHE 50420 35P	052686X0	8.52	1.1068	8.49	1.1065	
215			1	1		PHE 50420 35P	052686X0	9.45	1.3430	9.41	1.3430	
234				2		PHE 50420 43P	052687X0	10.28	1.1238	10.24	1.1233	
265				1	1	PHE 50420 43P	052687X0	11.64	1.4220	11.59	1.4213	
296					2	PHE 50420 53P	052688X0	14.59	1.2763	14.52	1.2754	
332			1	2		PHE 50420 53P	052688X0	15.42	1.5776	15.36	1.5863	
351				3		PHE 50420 59P	052689X0	15.42	1.5179	15.36	1.5166	
373		1			2	PHE 50420 59P	052689X0	16.39	1.7046	16.32	1.703	
394			1		2	PHE 50420 67P	052690X0	17.31	1.6019	17.24	1.6019	
413				1	2	PHE 50420 67P	052690X0	18.15	1.7531	18.07	1.7512	
444					3	PHE 50420 67P	052690X0	19.60	2.0138	19.42	2.0116	
468				4		PHE 50420 67P	052690X0	20.56	2.0745	20.47	2.0722	
506	1				3	PHE 50420 81P	052692X0	22.23	2.0738	22.14	4.0838	
530				2	2	PHE 50420 81P	052692X0	23.29	2.2676	23.19	2.2645	
561				1	3	PHE 50420 85P	052693X0	24.65	2.4048	24.54	2.4014	
592					4	PHE 50420 97P	052694X0	26.01	2.3475	25.90	2.3437	

> LOW TEMPERATURE SYSTEMS

System							IN	SPECTABLE PL	ATE EXCHANGERS P	PHE	
C) Close		F	Nodel	S W				Prim	ary: 60/40°C	Secon	dary: 30/40°C
power			MODEL	CODE	Flow rates	Pressure drops	Flow rates	Pressure drops			
kW	60	80	99	120	150			m³/h	m ³ H ₂ O	m³/h	m ³ H ₂ O
62						PHE 32380 29P	052682X0	2.70	0.680	5.37	3.615
77		1				PHE 32380 29P	052682X0	3.36	1.042	6.67	4.014
98			1			PHE 32380 29P	052682X0	4.27	1.677	8.49	6.468
117				1		PHE 32380 41P	052683X0	5.10	1.427	10.14	5.530
148					1	PHE 32380 53P	052685X0	6.45	3.104	12.83	6.513
124	2					PHE 32380 47P	052684X0	5.40	1.348	10.75	5.238
139	1	1				PHE 32380 47P	052684X0	6.06	1.690	12.05	6.570
154		2				PHE 32380 53P	052685X0	6.71	1.809	13.35	7.048
179	1			1		PHE 50420 35P	052686X0	7.80	0.937	15.51	3.646
194		1		1		PHE 50420 35P	052686X0	8.45	1.148	16.81	4.244
215			1	1		PHE 50420 35P	052686X0	9.37	1.392	18.63	5.155
234				2		PHE 50420 35P	052686X0	10.20	1.632	20.28	6.052
265				1	1	PHE 50420 43P	052687X0	11.55	1.470	22.97	5.467
296					2	PHE 50420 53P	052688X0	12.90	1.316	25.85	4.915
332			1	2		PHE 50420 53P	052688X0	14.47	1.635	28.77	1.635
351				3		PHE 50420 59P	052689X0	15.29	1.561	30.42	6.804
373		1			2	PHE 50420 59P	052689X0	16.25	1.752	32.33	6.579
394			1		2	PHE 50420 67P	052690X0	17.17	1.643	34.15	6.192
413				1	2	PHE 50420 67P	052690X0	18.00	1.798	35.79	6.778
444					3	PHE 50420 71P	052691X0	19.35	1.920	38.48	7.258
468				4		PHE 50420 81P	052692X0	20.39	1.823	40.56	6.918
506	1				3	PHE 50420 97P	052694X0	22.05	1.763	43.85	6.735
530				2	2	PHE 50420 97P	052694X0	23.09	1.928	45.93	7.368
561				1	3	PHE50750 71P	052695X0	24.44	1.711	48.62	6.568
592					4	PHE50750 71P	052695X0	25.79	1.899	51.31	7.292





FORCE W CHOICE HYDRAULIC SEPARATOR

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

CHARACTERISTICS:

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

HYDRAULIC SEPARATOR FOR INSTALLATION UP TO 300 KW

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

DIMENSION AND TECHNICAL DATA



HYDRAULIC SEPARATOR FOR INSTALLATION UP TO 600 KW

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



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



ij J

Recommended working range



FLOOR STANDING CONDENSING BOILER, FOR HEATING ONLY



> STRENGTHS:

- It reaches one of the highest seasonal space heating efficiencies in its category: η_s 94% (only mod. 35)
- **INTACESSIEN**: combined with the modulating remote control and the outdoor probe (optional) it reaches the top efficiency class **A**⁺ (scale from G to A⁺⁺⁺) (only mod. 35)
- Stainless steel primary heat exchanger
- Stainless steel full pre-mixing burner with broad modulating range - Low consumption modulating heat pump (ErP Ready - Class A)
- Digital commands with user interface display, multi-purpose for easily and correctly entering parameters
- Can be combined with the modulating remote control
- Easily accessible hydraulic and gas fittings to facilitate replacing old generators
- Flue gas discharge with spilt or coaxial pipes; possibility of right, left or rear outlet

> ADVANTAGES OF BLUEHELIX B:

- Minimum polluting emissions (class 6 according to EN 15502-1)
- Sliding temperature operating mode in combination with the optional outdoor probe
- Exchanger protection function with Δt control
- Timed circulator block protection
- Digital flame control with three reignition tries if operation gets blocked due to failed flame detection (only in natural gas mode)
- Antifrost function with standard protection down to $\mbox{-}5^\circ\mbox{C}$



MODEL				B 35	B \$ 45
ERP Class			(Class G - A++)	A	A
Heat input (L.C.V.)		Heating Min / Max	kW	6.7 / 32.0	7.5 / 43.0
Heat output	80°C-60°C 50°C-30°C	Heating Min / Max Heating Min / Max	kW kW	6.6 / 31.4 7.2 / 34.0	7.3 / 42.1 8.1 / 45.6
Useful thermal efficiency		80°C-60°C 50°C-30°C Reduced load 30%	Pmax % / Pmin % Pmax % / Pmin % Pmax %	98.0 / 97.8 106.1 / 107.5 108.8	98.0 / 97.8 106.1 / 107.5 108.8
Nox emissions class			class	6	6
Heating operating pressure Max		Max	bar	3	3
Empty weight			kg	69	69
CODE			NATURAL GAS	0TAO3AWA	0TAD5AWA

2019

BLUEHELIX B



> HYDRAULIC AND CONTROL ACCESSORIES - STARTING FLUE ACCESSORIES

		CODE	
	outdoor probe		013018X0
	additional sensor for DHW	cable 2 m	1KWMA11W
	storage tank	cable 5 m	043005X0

	DESCRIPTION	CODE
	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers	041001X0
	discharge kit twin pipes 80/80 complete with test point	041065X0
Ø	kit for management with thermostat (not supplied) of a dhw storage tank	013017X0

FLUES CHIMNEY ACCESSORIES CONDENSING GAS BOILERS

1KWMA56W



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



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 (*)



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

90° M-F bend, Ø 80 mm, PPs





FLUES CHIMNEY ACCESSORIES CONDENSING GAS BOILERS

041050X0



1KWMA89W



1m M-F pipe, ø 60 mm

M-F reduction,

ø 80/60 mm





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.

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



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



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

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

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

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





Flue terminal Ø 100 mm, stainless steel

1KWMA90A



Flue terminal, Ø 60 mm, stainless steel

1KWMA07U



1KWMA08U



Connection joint, Ø 100 mm, steel

Connection joint, Ø 80 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 (*)





ERP

ZEFIRO ECO LOW NOX GAS INSTANTANEOUS WATER HEATER NATURAL DRAUGHT - OPEN FLUE



Gas water heater with open chamber and natural draught, with modulating heat power with emission of LOW NOx flue gas - Class 6

> STRENGTHS:

- Heat exchanger with copper finned pipes, finished externally with an aluminium rustproof treatment
- Modulating heat input and fine regulation of hot water output temperature - Display for easy and prompt reading with operation indicators of the device and battery charge. Power
- and hot water temperature regulation using comfortable ergonomic knobs
- Battery power supply

> ADVANTAGES OF ZEFIRO ECO:

- Product sold in Natural gas and LPG version
- Wide range of hot water temperature regulation and power modulation
- Compact **size** and reduced weight





> KEY

- A Display of domestic hot water temperature
- B Battery level signal
- C Burner power/off regulation
- **D** Temperature regulation
- E Burner on symbol



MODEL			EC0 11	ECO 14
ERP Class	њ	(Class G - A)	A	A
Nominal heat input (Pn)		kW	21.1	26.8
Useful power	Min / Max	kW	7.1 / 18.8	9.5 / 23.7
NOx Class (according to EN 15502)			6	6
Maximum operating pressure		bar	10	10
Domestic hot water production	∆t 25°C ∆t 30°C	l/min I/min	11.0 9.1	13.9 11.3
Domestic hot water temperature regulation	Min / Max	°C	40 / 65	40 / 65
Power supply			Battery	Battery
No. of pieces/pallet		no.	20	20
CODE		NAT. GAS LPG	GCA1MKAA GCA1MLAA	GCA1PKAA GCA1PLAA



SKY ECO F LOW NOX GAS INSTANTANEOUS WATER HEATER FORCED DRAUGHT - ROOM SEALED





Gas water heater with sealed chamber, modulating heat power and electronic control of combustion with emission of LOW NOx flue gas - Class 6

> STRENGTHS:

- Heat exchanger with copper finned pipes, finished externally with an aluminium rustproof treatment
- ECS (Evolved Combustion System): electronic control of combustion and continuous modulating heat input, managed continuously by a microprocessor that ensures maximum water heater efficiency according to the thermal load
- Flue gas output and air inlet that are set via a coaxial pipe 60/100 mm with double 80 mm pipe (air/flue gas). Supply of full accessories for both solutions
- Ideal for installation both indoors and outdoors, in a partially protected place (standard minimum -5°C and down to -15°C with the optional antifrost heating elements kit)
- Simple and intuitive key controls to adjust the water temperature and large display for easy, prompt reading
- Set up to operate with solar panel systems

> ADVANTAGES OF SKY ECO F:

- Product sold in Natural gas and LPG version
- Wide range of hot water temperature regulation and power modulation
- Compact size , reduced weight and highly functional internal layout of the device in order to facilitate maintenance

> KEY

- A Key to increase the domestic hot water temperature
- B Key to decrease the domestic hot water temperature
- C Service Tool connection
- **D** OFF symbol
- E DHW operation symbol
- F Reset key
- G Device on/off key
- H Multifunction symbol
- I Burner on symbol and current power level (Flashing during faulty combustion)



MODEL			ECO 11 F	ECO 14 F	ECO 17 F
ERP Class	₩ _{XL}	(Class G - A)	A	A	A
Nominal heat input	Max	kW	21.7	26.9	32.9
Heat output	Max / Min	kW	19.5 / 5.5	24.2 / 9.37	29.6 / 11.47
NOx Class (according to EN 15502)			6	6	6
Maximum operating pressure		bar	10	10	10
Maximum DHW production	∆t 25°C / ∆t 30°C	l/min	11.2 / 9.3	13.9 / 11.6	17.0/14.2
Domestic hot water temperature regulation	Min / Max	°C	40 / 65	40 / 65	40 / 65
Empty weight		Kg	14	15	18
Electric power supply		V/Hz	230 / 50	230 / 50	230 / 50
No. of pieces/pallet		no.	10	10	10
CODE		NAT. GAS LPG	ODF94IAA ODF94KAA	ODF95IAA Odf95kaa	ODF97IAA Odf97kaa

SKY ECO F







DIMENSIONS	ECO 11 F	ECO 14 F	ECO 17 F
A mm	295	335	375
Emm	210	250	290

STARTING FLUE ACCESSORIES

	DESCRIPTION	CODE
	air/flue gas splitter pipe kit 80/80 mm	010031X0
0	flanged coupling for vertical coaxial pipe ø 100/60 mm	010006X0
0.	complete coaxial flue gas discharge air intake kit ø 60/100 mm, horizontal (L = 1000 mm)	010012X0

	DESCRIPTION	CODE
24	Coaxial pipe \emptyset 60/100 mm with end and gasket, and inner part made of aluminium; outer part made of plastic Length L = 1000 mm	1KWMA56A
	Male/female coaxial extension $ø$ 60/100 mm complete with gaskets, aluminium internal, plastic external Length L = 1000 mm	1KWMA56U
Ø	Coaxial bend 90°, ø 60/100 mm, complete with gaskets Package 1 piece	1KWMA81W
	electric heating elements kit for auxiliary antifrost down to -15°C	013009X0

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