



LIGHT COMMERCIAL

Modular wall hung
Floor-standing with high water content
Multi-burner floor-standing



Ideal for central heating in
residential and commercial
buildings. Efficiency and
Hydrogen Ready technology.

Index

WALL-HUNG MODULAR CONDENSING BOILER

VICTRIX PRO V2	pag.	6
TECHNICAL DATA	pag.	12
ACCESSORIES	pag.	19

FLOOR STANDING CONDENSING BOILER WITH HIGH WATER CONTENT

ARES PRO	pag.	32
TECHNICAL DATA	pag.	36
ACCESSORIES	pag.	39

FLOOR STANDING CONDENSING BOILER MULTI-BURNER

ARES TEC ErP	pag.	40
TECHNICAL DATA	pag.	44
ACCESSORIES	pag.	49



Light commercial boilers can be used alone or in cascade installations, which guarantee higher overall efficiency and lower running costs thanks also to condensing technology. They can be configured also with modules for centralised systems, replacement of heating systems and energy upgrade work. High performance solutions up to 10 MW outputs.

VICTRIX PRO V2 Modular and compact condensing boiler for wall-hung, on floor standing support or in cabinet kit installation. Alone or in “easy cascade” up to 15 boilers thanks to the new electronics. The limit of 5 boilers remains with Immergas flues and hydraulic kits.

ARES PRO Alone or in cascade up to 12 boilers. Floor standing boiler, certified for indoor installation, makes the installation of a hydraulic compensator not necessary thanks to the high content of water.

ARES TEC ErP Multi-burner floor-standing boiler, It is possible to hydraulically combine up to 12 boilers in cascade configuration.

The complete range reaches NO_x class 6 in terms of polluting emissions, making it optimal for installation in buildings with high energy performance standards and low environmental impact.

VICTRIX PRO V2, ARES TEC ErP and ARES PRO, have obtained Hydrogen Ready certification: they can therefore also operate with hydrogen mixtures up to 20%.

BIM READY

VICTRIX PRO V2

Modular condensing boiler with sealed chamber and forced draught for only-heating





HIGH INSTALLATION FLEXIBILITY THANKS TO THE REDUCED DIMENSIONS

The possibility of 15-generator cascade and the high efficiency makes VICTRIX PRO V2 ideal for centralized heating of residential and commercial building. The compact and linear design, with its vertical scrolling cover for panel protection, characterizes the whole range. VICTRIX PRO V2 is available in 9 versions: 35, 55, 60, 68, 80, 100, 120, 150 and 180 kW.

HIGH PERFORMANCE ON CONSUMPTION

The wide modulation range 1:10 (up to the 120 kW version) optimizes the generator functioning even with low heating requests (for example during spring/autumn or in case of partial usage of the system).

LOW NO_x POLLUTION EMISSIONS

The complete range reaches NO_x class 6 in terms of polluting emissions, making it optimal for installation in buildings with high energy performance standards and low environmental impact.

A+ CLASS

VICTRIX PRO V2 can reach an higher energy efficiency class (A+)* if installed in combination with an IMMERGAS advanced thermoregulation panel such as the Modulating Remote Panel Art. no. 3.020358.

OPTIMAL REGULATION CONTROL

Thanks to the two NTC temperature probes (on the supply and return pipes) the electronics has a greater control over the functioning temperatures.

* VICTRIX PRO V2 have a seasonal efficiency of 94% (up to the 120 V2 version).

INSTALLATION FLEXIBILITY

By hydraulically and electrically connecting 5 gas boilers in cascade (with a single safety kit), reaching 900 kW output power has never been this easy. The new range has now even less space requirements for cascade installation.

FLOOR-STANDING SUPPORT INSTALLATION

VICTRIX PRO V2, up to 150 V2 version, can be installed (single or multiple in cascade) on its dedicated floor-standing support kit on a linear disposition or back-to-back for limited spaces. The structure includes supports for the hydraulic manifolds and it can be fixed to the floor or to the wall with the proper pieces. The frame kit is also certified for outdoor installation.

OUTDOOR INSTALLATION IN THE CABINET KIT

The cabinet kit allows VICTRIX PRO V2, up to 150 V2 version, to be installed outdoor in a floor-standing configuration. Cascade installation is possible with multiple cabinets. For each cabinet is available an hydraulic manifold kit with INAIL safety devices included.

OPTIMAL FOR OUTDOOR INSTALLATION

Thanks to its IPX5D protection grade and to the cataphoresis treatment on the frame, VICTRIX PRO V2 gas boilers can be installed outdoor, even in open-air locations (with the optional cover kit). Anti-freeze protection can reach -15°C with the proper optional kit.



LOW-CONSUMPTION MODULATING PUMP AS PER STANDARD

The pump modulates its speed to keep the ΔT constant between water supply and return therefore reducing electrical absorption and noise.

INTEGRATED CONDENSATE DISCHARGE SYPHON

The integrated syphon collects the condensates and allows them to be properly discharged; the syphon is connected to a polipropylene flexible pipe which is resistant to condensate corrosion. Externally the technician has to install a dedicated proper discharge system according to the current regulations.

SAFETY VALVE

The boilers come as per standard with a safety valve 4 bar (35-80 models) and 5,4 bar (100-180 models).

STAINLESS STEEL CONDENSING MODULE

The complete range includes condensing module with stainless steel hydraulic circuits (for VICTRIX PRO 35, 55, 60, 68 and 80 V2 the external part is made of composite plastic).

TOTAL PRE-MIXING COMBUSTION SYSTEM

The advanced combustion system allows the complete range to have an high output power modulation range (from 10 to 100%). Additionally the boilers can work with both natural gas and LPG.





ELECTRONICS

The new electronics widens the installation possibilities.

VICTRIX PRO V2 can manage 2 water distribution zones (2 direct or 1 direct + 1 mixed) with different temperature sets and climatic curves (to be managed with on/off thermostats or OpenTherm).

In addition to the water distribution zones it is possible to manage a DHW circuit with 3-way diverting valve or with a dedicated pump. In this last case the technician can select the simultaneous functioning (useful for low-inertia systems such as fan-coils).

The DHW request can be activated with an NTC sensor or on/off contact (thermostat).

For the anti-legionella function a temperature reading probe in the tank is required.

Timeslots can be set for both central heating and DHW (ECO, COMFORT, OFF).

EASY MANAGEMENT OF BOILER CASCADE

The new Cascade and Zones Regulator kit allows you to manage and control the operation of the connected boilers determining which boiler to activate, at what output level and in what sequence, based on the heating request of the heating system.

MANAGEMENT OF A THERMAL SOLAR SYSTEM FOR DOMESTIC HOT WATER PRODUCTION

The Cascade and Zones Regulator kit can be used to easily manage a thermal solar plant for production of DHW by installing the correct temperature probes (see page 20).

TELE-REMOTE MANAGEMENT

Capable of communicating with the Cascade and Zones Regulator kit in order to remotely monitor the system (see page 20).



Main characteristics

Electrical connection to the master boiler	Temperature settings	Maximum number of boilers	Water distribution zones	Connection in series	Thermal solar system connection
2 BUS wires: max length 50 meters	Central heating: COMFORT, ECO, Anti-Freeze DHW temperature	8	3 (1 direct and 2 mixed) + 1 DHW pump	Up to n°3 Cascade and Zones Regulator kits and n°6 expansion kits. Only the master panel will be connected to the boiler	Possibility to install and manage a thermal solar system without an additional external control unit



Technical characteristics	Measurement unit	VICTRIX PRO 35 V2 EU	VICTRIX PRO 55 V2 EU	VICTRIX PRO 60 V2 EU	VICTRIX PRO 68 V2 EU	VICTRIX PRO 80 V2 EU
Art. no. NG		3.034431	3.033857	3.033858	3.033859	3.033860
Art. no. LPG		3.034431GPL	3.033857GPL	3.033858GPL	3.033859GPL	3.033860GPL
Energy class		A	A	A	A	A
Template art. no.		1.047417	1.047417	1.047417	1.047417	1.047417
Maximum heat input	kW	34,9	51,0	59,9	65,0	75,0
Minimum heat input	kW	3,9	5,4	7,8	7,8	7,8
Maximum effective heat output (80/60°C)	kW	33,9	49,8	58,5	63,4	73,2
Minimum effective heat output (80/60°C)	kW	3,7	5,1	7,5	7,5	7,5
Maximum effective heat output (50/30°C)	kW	36,9	54,2	63,9	69,2	79,4
Minimum effective heat output (50/30°C)	kW	4,1	5,7	8,3	8,3	8,3
Central heating seasonal efficiency η_s	%	94	94	94	94	94
Efficiency at 100% Pn (80/60°C)	%	97,0	97,6	97,7	97,5	97,6
Efficiency at 100% Pn (50/30°C)	%	105,8	106,2	106,8	106,5	105,9
Efficiency at 100% Pn (40/30°C)	%	107,7	106,8	108,3	107,8	105,8
Efficiency at 30 % of the load (Tr 30°C)	%	109,8	109,5	109,7	109,6	109,8
Chimney losses with burner on (100% Pn) (80/60°C)	%	2,69	2,3	2,2	2,4	2,3
Chimney losses with burner off	%	0,03	0,02	0,02	0,02	0,01
Casing losses with burner on (100% Pn) (80/60°C)	%	0,31	0,10	0,10	0,10	0,10
Casing losses with burner off	%	0,32	0,23	0,20	0,19	0,16
NO _x class		6	6	6	6	6
Weighted NO _x	mg/kWh	37	39	41	39	33
Weighted CO	mg/kWh	27	24	17	17	24
Gas flow rate to burner at max. and min. heat output with methane (G20)	m³/h	3,69/0,41	5,40/0,57	6,34/0,83	6,88/0,83	7,94/0,83
Maximum fan available head (max/min)	Pa	113/2	260/3	261/5	307/5	417/5
Flue exhaust mass flow rate at nominal heat output (G20)	kg/h	54/6	82/9	96/13	104/13	121/13
CO ₂ at nominal/minimum heat output (G20)	%	9,6/9,1	9,2/8,7	9,3/9,0	9,3/9,0	9,2/9,0
CO at nominal/minimum heat output (G20)	mg/kWh	240/3	220/3	160/3	180/3	230/3
Maximum/Minimum fume temperature (G20)	°C	79/60	74/60	71/65	74/65	79/65
Maximum operating temperature	°C	95	95	95	95	95
Heating system adjustable temperature	°C	15–90	15–90	15–90	15–90	15–90
Maximum operating pressure of heating circuit	bar	4,4	4,4	4,4	4,4	4,4
Electric power supply	V/Hz	230/50	230/50	230/50	230/50	230/50
Nominal power absorption	A	1,0	1,8	2,2	2,3	2,5
Installed electric power	W	130	158	295	300	320
Electrical insulation rating	IP	X5D	X5D	X5D	X5D	X5D
Full appliance weight (empty)	kg	52,4 (50,0)	59,8 (57,0)	64,2(61,0)	64,2 (61,0)	64,2 (61,0)
Appliance water content	litres	2,4	2,8	3,2	3,2	3,2

For other information regarding out of standard operating conditions please refer to the technical sheet or get in contact with IMMERGAS customer service

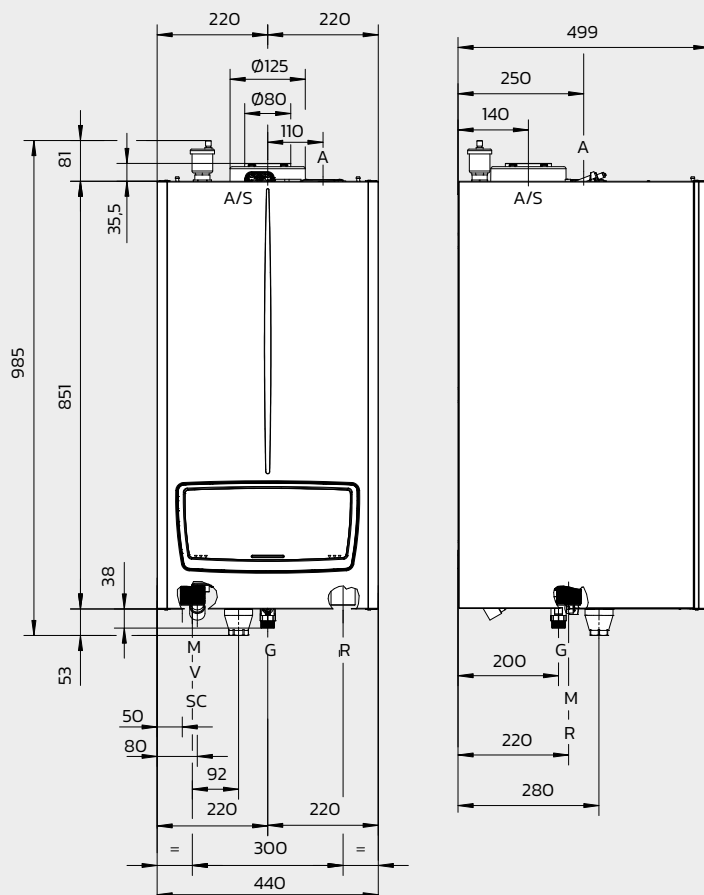


Technical characteristics	Measurement unit	VICTRIX PRO 100 V2 EU	VICTRIX PRO 120 V2 EU	VICTRIX PRO 150 V2 EU	VICTRIX PRO 180 V2 EU
Art. no. NG		3.033861	3.033862	3.033863	3.033864
Art. no. LPG		3.033861GPL	3.033862GPL	3.033863GPL	3.033864GPL
Energy class		A	A	A	A
Template art. no		1.047417	1.047417	1.047417	1.047417
Maximum heat input (80/60°C)	kW	93,0	114,5	141,0	170,0
Minimum heat input (80/60°C)	kW	10,1	11,7	29,0	34,7
Maximum effective heat output (80/60°C)	kW	90,9	112,3	138,3	166,9
Minimum effective heat output (80/60°C)	kW	9,8	11,3	28,3	33,8
Maximum effective heat output (50/30°C)	kW	98,8	121,7	149,9	180,2
Minimum effective heat output (50/30°C)	kW	10,7	12,4	30,8	36,8
Central heating seasonal efficiency η_s	%	94	94	93	93
Efficiency at 100% Pn (80/60°C)	%	97,7	98,1	98,1	98,2
Efficiency at 100% Pn (50/30°C)	%	106,2	106,3	106,3	106,0
Efficiency at 100% Pn (40/30°C)	%	108,2	108,4	107,2	107,5
Efficiency at 30 % of the load (Tr 30°C)	%	109,8	109,2	108,5	108,4
Chimney losses with burner on (100% Pn) (80/60°C)	%	2,2	1,8	1,8	1,7
Chimney losses with burner off	%	0,02	0,02	0,02	0,02
Casing losses with burner on (100% Pn) (80/60°C)	%	0,10	0,10	0,10	0,10
Casing losses with burner off	%	0,18	0,18	0,18	0,18
NO _x class		6	6	6	6
Weighted NO _x	mg/kWh	34	30	34	42
Weighted CO	mg/kWh	23	19	20	25
Gas flow rate to burner at max, and min. heat output with methane (G20)	m³/h	9,84/1,07	12,12/1,24	14,92/3,07	17,99/3,67
Maximum fan available head (max/min)	Pa	244/3	377/4	396/18	30/2
Flue exhaust mass flow rate at nominal heat output (G20)	kg/h	149/17	185/19	226/48	277/60
CO ₂ at nominal/minimum heat output (G20)	%	9,3/8,9	9,2/8,9	9,3/8,9	9,1/8,5
CO at nominal/minimum heat output (G20)	mg/kWh	220/7	205/4	215/4	210/10
Maximum/Minimum fume temperature (G20)	°C	74/60	71/60	73/60	72/60
Maximum operating temperature	°C	95	95	95	95
Heating system adjustable temperature	°C	15–90	15–90	15–90	15–90
Maximum operating pressure of heating circuit	bar	6	6	6	6
Electric power supply	V/Hz	230/50	230/50	230/50	230/50
Nominal power absorption	A	2,7	3,0	3,2	2,8
Installed electric power	W	330	410	580	520
Electrical insulation rating	IP	X5D	X5D	X5D	X5D
Full appliance weight (empty)	kg	104,0 (95,0)	111,0 (101,0)	124,0 (112,0)	163,0 (148,0)
Appliance water content	litres	9,0	10,0	12,0	15,0

For other information regarding out of standard operating conditions please refer to the technical sheet or get in contact with IMMERGAS customer service.



VICTRIX PRO 35/55/60/68/80 V2 EU

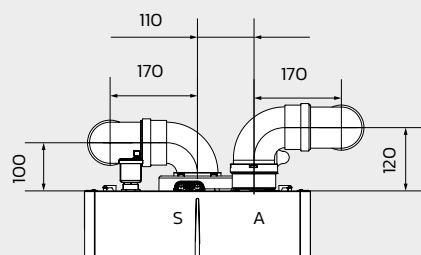


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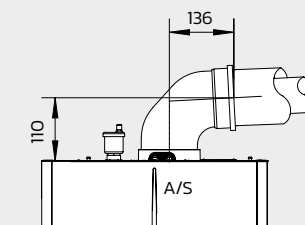
V	Electrical connection
G	Gas supply
SC	Condensate drain (minimum internal diameter Ø 13 mm)
M	System flow
R	System return
A	Air intake
S	Flue expulsion
A/S	Intake/expulsion

Connections

Gas	System	
G	R	M
$\frac{3}{4}''$	$1\frac{1}{2}''$	$1\frac{1}{2}''$

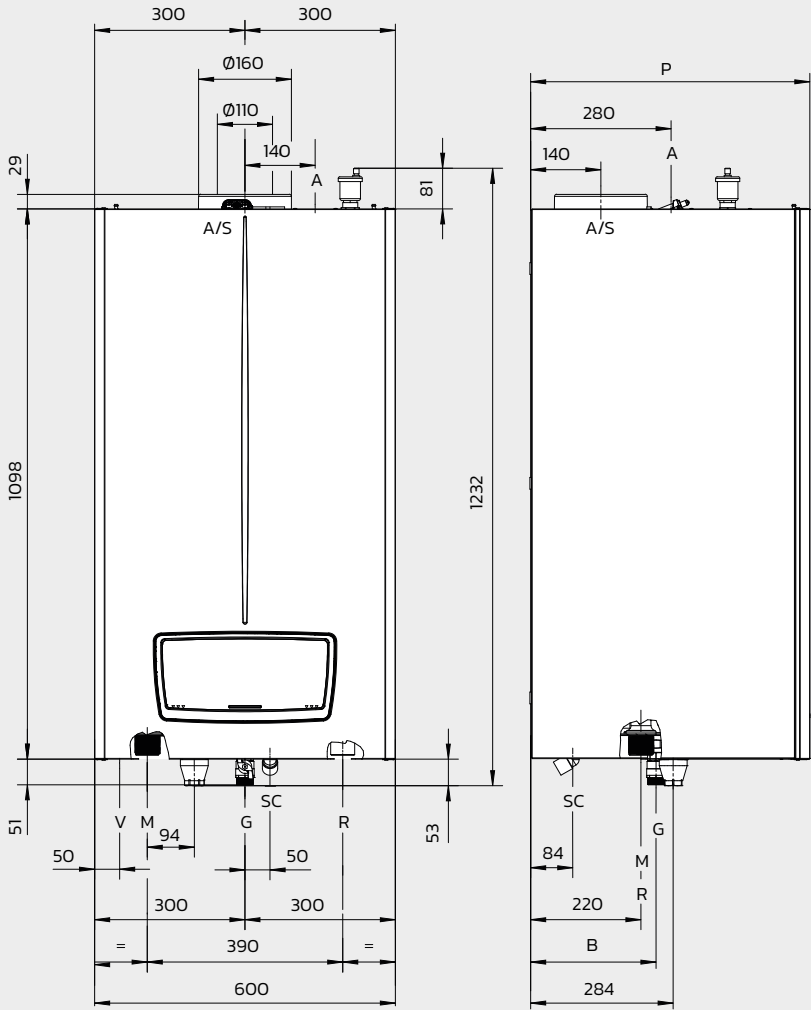


Separator kit distances
Ø 80/80



Concentric kit dimensions
Ø 80/125

VICTRIX PRO 100/120/150 V2 EU

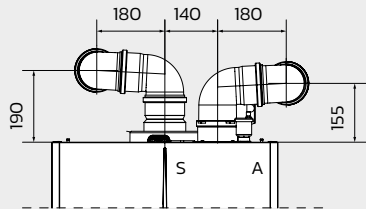


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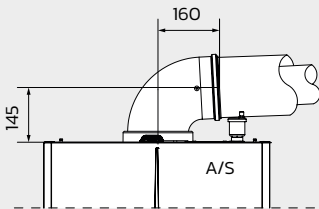
V	Electrical connection
G	Gas supply
SC	Condensate drain (minimum internal diameter Ø 13 mm)
M	System flow
R	System return
A	Air intake
S	Flue expulsion
A/S	Intake/expulsion
P	VICTRIX PRO 100/120 V2 mm 557 VICTRIX PRO 150 V2 mm 627
B	VICTRIX PRO 100/120 V2 mm 250 VICTRIX PRO 150 V2 mm 370

Connections

Gas	System	
	R	M
G	1"	1 1/2"



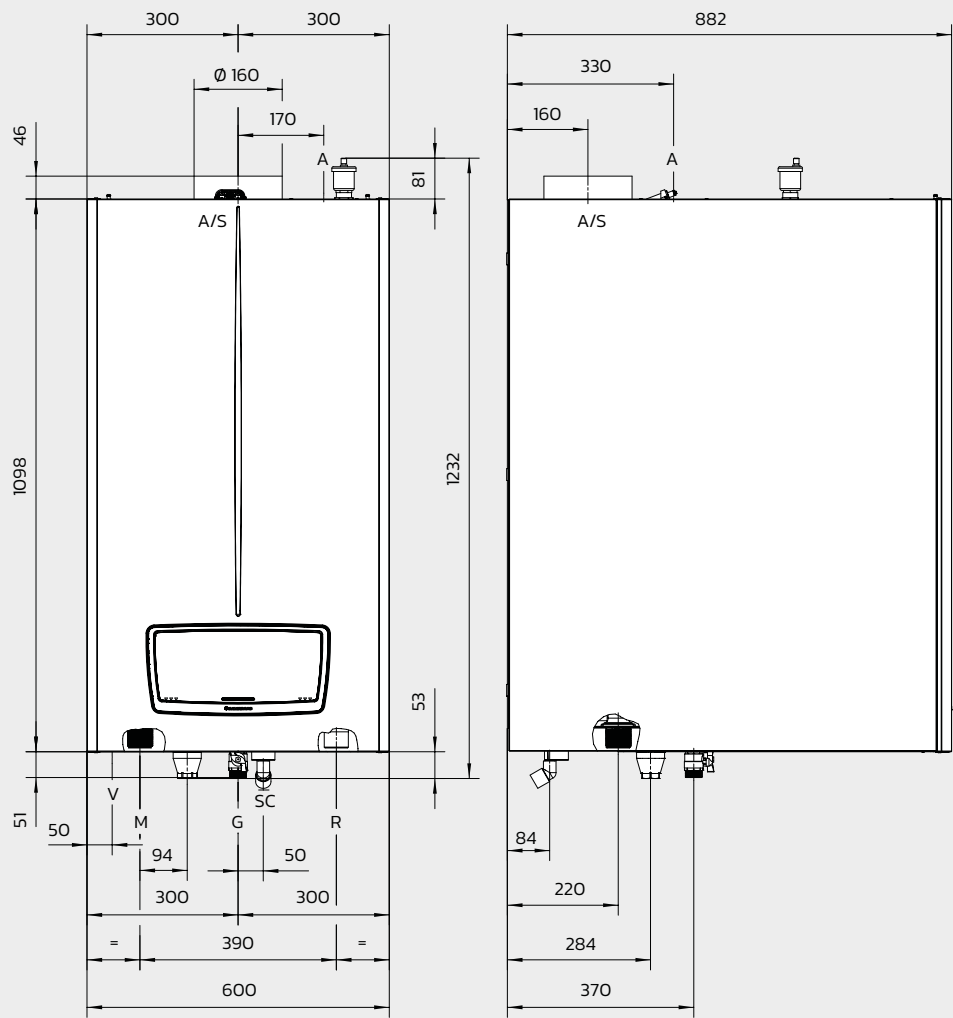
Separator kit distances
Ø 100/100



Concentric kit dimensions
Ø 110/160



VICTRIX PRO 180 V2 EU

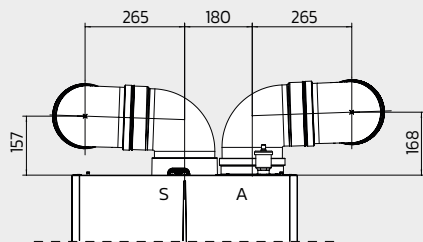


Key

V	Electrical connection
G	Gas supply
SC	Condensate drain (minimum internal diameter Ø 13 mm)
M	System flow
R	System return
A	Air intake
S	Flue expulsion
A/S	Intake/expulsion

Connections

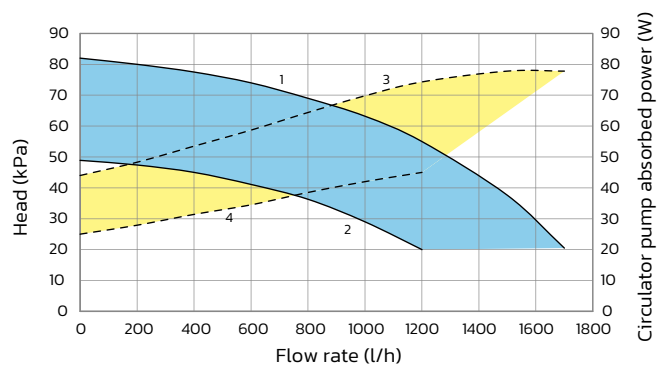
Gas	System	
G	R	M
1"	1 1/2"	1 1/2"



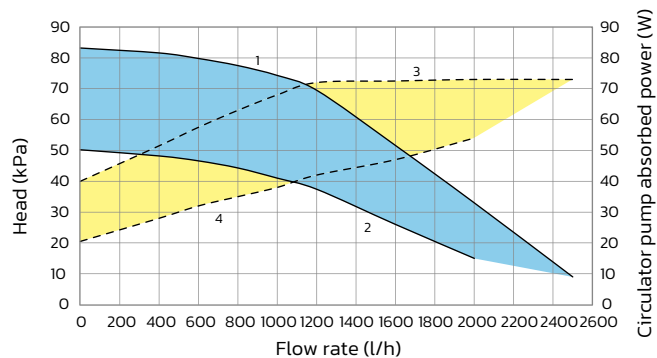
Separator kit distances
Ø 160/160



Head-Flow rate curve
VICTRIX PRO 35 V2 EU



Head-Flow rate curve
VICTRIX PRO 55 V2 EU



Key

- Available head
- Pump power absorption (dotted area)

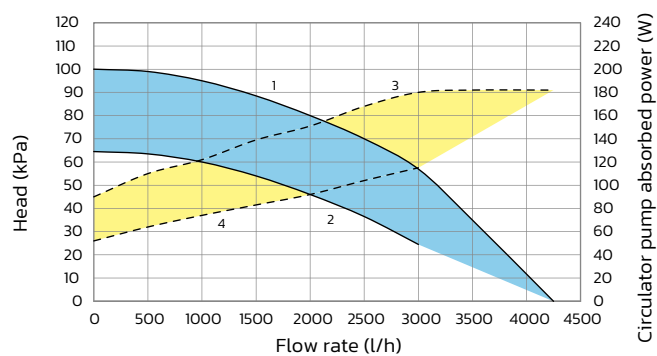
1 at 100% speed

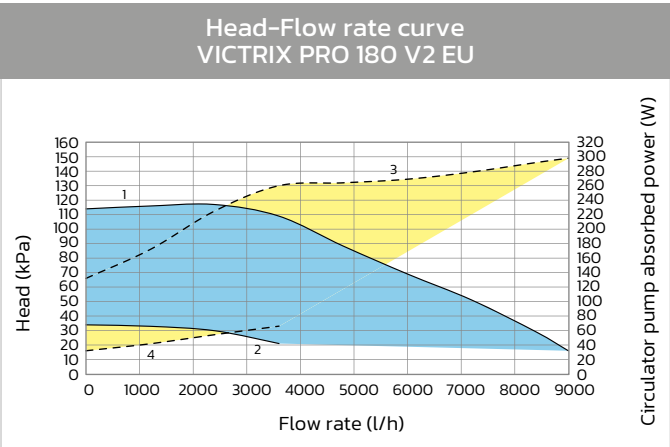
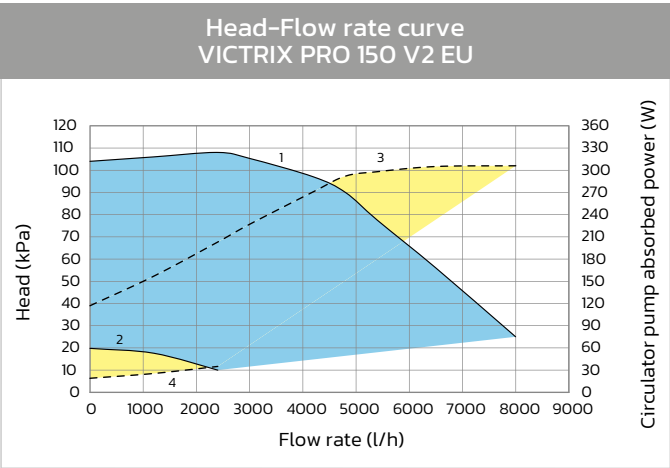
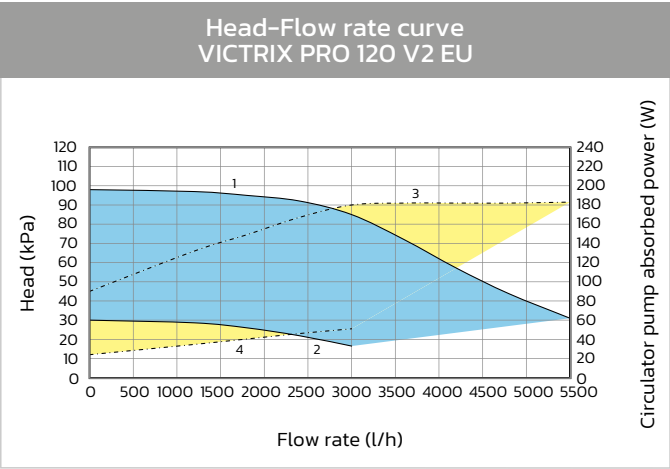
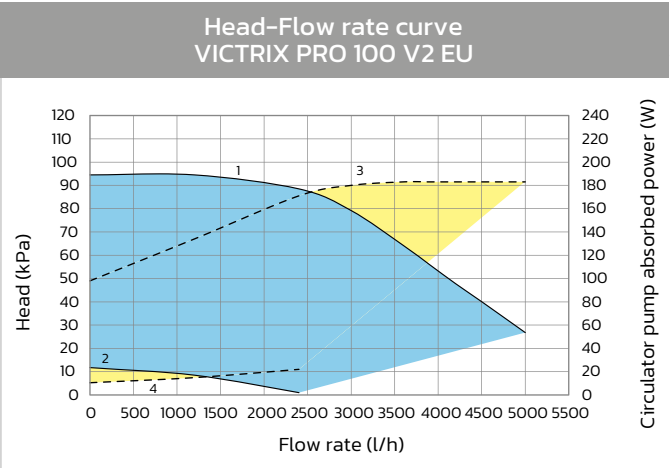
2 at 77% speed

3 at 100% speed

4 at 77% speed

Head-Flow rate curve
VICTRIX PRO 60/68/80 V2 EU





- Key**
- Available head
 - Pump power absorption (dotted area)
 - 1 at 100% speed
 - 2 at 50% speed
 - 3 at 100% speed
 - 4 at 50% speed

A thermoregulation device is a good investment for this range since it significantly increases seasonal efficiency of the heating system.

STAND ALONE INSTALLATION without Cascade and Zones regulator kit

REMOTE CONTROL

Type	Art. no.
This is a modulating control unit that serves to optimize climatic management of the temperature in rooms. It can only be used on systems with a single temperature control. To be combined with Clip-in kit Art. no. 3.034122 for VICTRIX PRO V2	 Dimensions (H x W x D) mm 138 x 90 x 28 3.020358

Clip-in for VICTRIX PRO V2

To be combined with remote control for VICTRIX PRO V2 Art. no. 3.020358.	3.034122
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CRONO 7

Weekly digital chronothermostat	 Dimensions (H x W x D) mm 103 x 142 x 31 3.021622
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CRONO 7 WIRELESS

Wireless weekly digital chronothermostat	 Dimensions (H x W x D) mm 103 x 142 x 31 3.021624
	 Dimensions (H x W x D) mm 82 x 105 x 36

External probe kit

Connected to the boiler board, it optimizes the energy consumption by adjusting the delivery temperature. It allows variable temperature functioning	 3.015266
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System delivery probe kit

It detects the temperature after a hydraulic separator, plate heat exchanger or mixing valve. To be connected to the boiler's electronic board. Ideal for simple cascade configurations (see technical note).	3.024245
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DHW probe kit

It detects the temperature of a storage tank and activates a load circulator (when the three-way valve kit is not present). To be connected to the boiler's electronic board.	3.025467
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TECHNICAL NOTE

If VICTRIX PRO V2 is used without a Cascade and zones regulator and fitted with the system delivery probe kit Art. no. 3.024245 (optional) and DHW probe kit Art. no. 3.025467 (optional), the boiler electronics will be able to control:

- 1 DHW secondary pump;
- 2 HEATING SYSTEM secondary pumps (for 2 direct zones or 1 direct and 1 mixed)

It is also possible to control **a simple cascade until 5 appliances with uniform power.**

For additional information contact the IMMERGAS Customer Service



CASCADE INSTALLATION with Cascade and Zones regulator kit

Cascade and zones regulator kit

Type		Art. no.
It can manage 3 water distribution zones plus an external storage tank unit and thermal solar for DHW production, both in standalone and cascade configurations. It includes power supply connection for installation on a DIN rail. For the connection you need a Clip-in kit Art. no. 3.034122 for each gas boiler.		3.034119

Clip-in for VICTRIX PRO V2

To be used together with Cascade and Zones regulator kit (1 for each boiler).	3.034122
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Expansion kit for Cascade and Zones regulator kit

To be used to manage 1 additional zone (direct or mixed) up to a maximum of 5.		3.034124
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Zone manager kit

Modulating temperature control, backlit display and remote management of the zone. It works together with the Cascade and Zones regulator kit.		3.034120
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Tools kit for tele-management 2.0 VICTRIX PRO V2

It works together with the Cascade and Zones regulator kit (cod. 3.034119) It includes: LAN network cable 15 m, USB to Ethernet Lan adapter for 1st configuration, dongle Wireless USB for 1st configuration, WLAN dongle for WI-FI connection following the 1st configuration.	3.034121
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CRONO 7

Weekly digital chronothermostat		Dimensions (H x W x D) mm 103 x 142 x 31 3.021622
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Available also in wireless version (art. no. 3.021624)

Flow probe kit

To be located on the delivery side of the plant, after the hydraulic separator, it allows the cascade and zone regulator to manage the delivery temperature of the plant or of the mixed zones available	3.015267
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Storage tank probe kit

Used to manage the temperature of the water tank unit paired, in boiler rooms, with cascade and zone regulator kit	3.015268
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Probe kit for PT 1000 solar collector

Used to manage solar plant paired to boiler configurations with cascade and zone regulator kit	3.019374
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External probe kit

Paired with cascade and zone regulator kit, it optimizes energy consumption by adjusting the plant delivery temperature for variable temperature functioning		3.024511
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VICTRIX PRO V2 have a dedicated set of kits for air suction/fume exhaust built to guarantee high resistance to corrosion, ease of installation and functional fit, thanks also to the bayonet fastening system and special sealing gaskets.

FLUE SYSTEMS "GREEN SERIES" FOR VICTRIX PRO V2

Configuration B₂₃ – open chamber, fan assisted

Type		Art. no.
Vertical terminal outlet kit Ø 80 VICTRIX PRO 35/55/60/68/80 V2 (to discharge at roof)		3.034579
Vertical terminal outlet kit Ø 100 VICTRIX PRO 100/120/150 V2 (to discharge at roof) Reduction Ø 110 M – Ø 100 F included		3.032713
Vertical terminal outlet kit Ø 160 VICTRIX PRO 180 V2 (to discharge at roof)		3.034554
Vertical terminal outlet outdoor kit Ø 80 (stainless steel) VICTRIX PRO 35/55/60/68/80 V2 (for outdoor) length 0.55m Technical note: size is not adjustable		3.024295
Vertical terminal outlet outdoor kit Ø 100 (stainless steel) VICTRIX PRO 100/120/150 V2 (for outdoor) length 1m Reduction Ø 110 M – Ø 100 F included		3.032714
Vertical terminal outlet outdoor kit Ø 160 (stainless steel) VICTRIX PRO 180 V2 (for outdoor) length 1m Technical note: size is not adjustable		3.034555
Stub-pipe kit Ø80 for air intake for VICTRIX PRO 35/55/60/68/80 V2 with B ₂₃ configuration		3.033759
Stub-pipe kit Ø100 for air intake for VICTRIX PRO 100/120/150 V2 with B ₂₃ configuration		3.033760
Stub-pipe kit Ø160 for air intake for VICTRIX PRO 180 V2 with B ₂₃ configuration		3.034565
Horizontal kit Ø 80 VICTRIX PRO 35/55/60/68/80 V2 (to discharge in the chimney)		3.015254
Horizontal kit Ø 100 VICTRIX PRO 100/120/150 V2 (to discharge in the chimney) Reduction Ø 110 M – Ø 100 F included		3.032715
Horizontal kit Ø 160 VICTRIX PRO 180 V2 (to discharge in the chimney)		3.034556
Horizontal kit Ø 80 VICTRIX PRO 35/55/60/68/80 V2 (to discharge horizontally)		3.015255
Horizontal kit Ø 100 VICTRIX PRO 100/120/150 V2 (to discharge horizontally) Reduction Ø 110 M – Ø 100 F included		3.032716
Horizontal kit Ø 160 VICTRIX PRO 180 V2 (to discharge horizontally)		3.034557
Reduction kit Ø 110 M – Ø 100 F NEW		3.038019



FLUE SYSTEMS "GREEN SERIES" FOR VICTRIX PRO V2

Configuration B₂₃ – open chamber, fan assisted

Extension pipes kit

Type		Art. no.
4 extension pipes Ø 80 kit VICTRIX PRO 35/55/60/68/80 V2 0,5 m long		3.014642
4 extension pipes Ø 100 VICTRIX PRO 100/120/150 V2 0,5 m long		3.031132
4 extension pipes Ø 80 VICTRIX PRO 35/55/60/68/80 V2 1 m long		3.012088
4 extension pipes Ø 100 VICTRIX PRO 100/120/150 V2 1 m long		3.031373
1 extension pipe Ø 80 VICTRIX PRO 35/55/60/68/80 V2 2 m long		3.016837
4 extension pipes Ø 100 VICTRIX PRO 100/120/150 V2 2 m long		3.032319
4 extension pipes Ø 160 kit VICTRIX PRO 180 V2 0,5 m long		3.034559
4 extension pipes Ø 160 kit VICTRIX PRO 180 V2 1 m long		3.034560
4 extension pipes Ø 160 kit VICTRIX PRO 180 V2 2 m long		3.034561

Bends kit

45° bend Ø 80 kit VICTRIX PRO 35/55/60/68/80 V2		3.012092
45° bend Ø 100 kit VICTRIX PRO 100/120/150 V2		3.032195
45° bend Ø 160 kit VICTRIX PRO 180 V2		3.034562
4x90° bend Ø 80 kit VICTRIX PRO 35/55/60/68/80 V2		3.012091
4x87° bend Ø 100 kit VICTRIX PRO 100/120/150 V2		3.032731
4x90° bend Ø 160 kit VICTRIX PRO 180 V2		3.034563

Gasket kits DN100

4x gasket kits for Victrix Pro 100/120/150 V2	3.032732
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Clapet valve kit for outdoor installation

The kits are necessary for installation with stainless steel flue manifold not supplied by Immergas in combination with stub-pipe kit for air intake

Clapet valve kit Ø 80 in stainless steel VICTRIX PRO 35/55/60/68/80 V2		3.033715
Clapet valve kit Ø 125 in stainless steel VICTRIX PRO 100/120/150 V2		3.033716

Cover kit

Protection kit IPX5D for outdoor installation. With this kit it is not necessary to add the stub-pipe kit B₂₃ for air intake.

Cover kit IPX5D VICTRIX PRO 35/55/60/68/80 V2		3.033670
Cover kit IPX5D VICTRIX PRO 100/120 V2		3.033671
Cover kit IPX5D VICTRIX PRO 150 V2		3.033672
Cover kit IPX5D VICTRIX PRO 180 V2		3.033689

FLUE SYSTEMS "GREEN SERIES" FOR VICTRIX PRO V2

Configuration C – sealed chamber, fan assisted

Type		Art. no.
Horizontal concentric kit Ø 80/125* for VICTRIX PRO 35/55/60/68/80 V2		3.033785
Horizontal concentric kit Ø 110/160* for VICTRIX PRO 100/120/150 V2		3.033789
Vertical concentric kit Ø 80/125 for VICTRIX PRO 35/55/60/68/80 V2 (black coloured, with converse for pitched roofs)		3.033786
Vertical concentric kit Ø 110/160 for VICTRIX PRO 100/120/150 V2 (black coloured, with converse for pitched roofs)		3.033790
Flashing Kit Ø 80/125 for flat roof for VICTRIX PRO 35/55/60/68/80 V2		3.015249
Twin pipes complete kit Ø 80/80 for VICTRIX PRO 35/55/60/68/80 V2 (color RAL 9010)		3.012002
Twin pipes complete kit Ø 100/100 for VICTRIX PRO 100/120/150 V2 (color RAL 9010) Reduction Ø 110 M – Ø 100 F included		3.032717
Twin pipes complete kit Ø 160/160 for VICTRIX PRO 180 V2		3.035122
Extension pipe 1 m long Ø 80/125 for VICTRIX PRO 35/55/60/68/80 V2		3.018667
Extension pipe 1 m long Ø 110/160 for VICTRIX PRO 100/120/150 V2		3.031397
Extension pipe 2 m long Ø 80/125 for VICTRIX PRO 35/55/60/68/80 V2		3.015246
Extension pipe 2 m long Ø 110/160 for VICTRIX PRO 100/120/150 V2		3.031398
2 x 45° bend kits Ø 80/125 for VICTRIX PRO 35/55/60/68/80 V2		3.015248
45° Bend kit Ø 110/160 for VICTRIX PRO 100/120/150 V2		3.031395
87° Bend kit Ø 80/125° for VICTRIX PRO 35/55/60/68/80 V2		3.015247
87° Bend kit Ø 110/160 for VICTRIX PRO 100/120/150 V2		3.031396

*Double check if flue discharge on the wall is allowed by current regulations.

Gasket kit

Gasket kits 10 pcs. Ø 80 for concentric Ø 80/125		3.036660
Gasket kits 10 pcs. Ø 80		3.015378
Gasket kits 4 pcs. Ø 100		3.032732
Gasket kit Ø 110 for concentric Ø 110/160		3.015344
Gasket kit Ø 125		3.036661
Gasket kit Ø 160		3.034564



FLEXIBLE OR RIGID DUCTING SYSTEMS

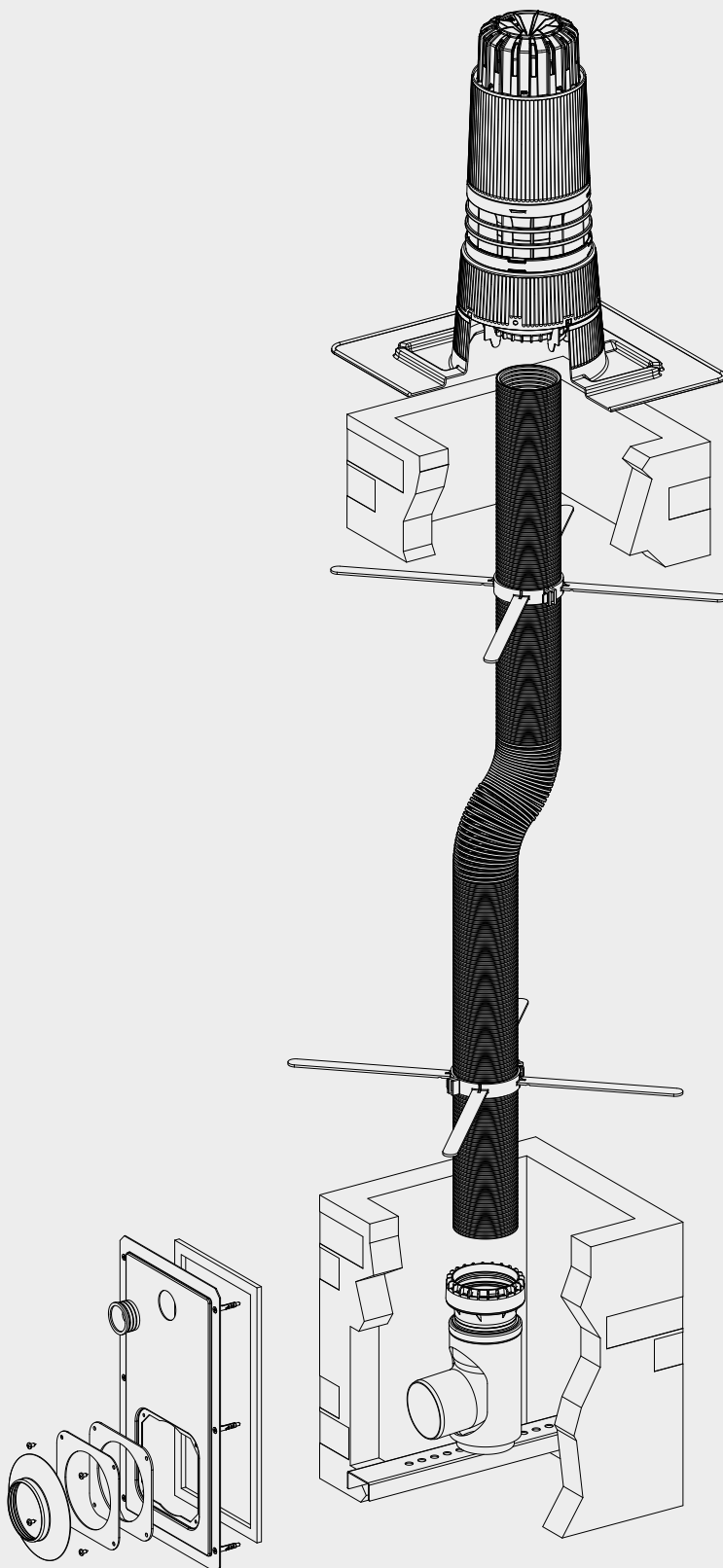
The ducting solution allows reuse the internal space not only of existing chimneys, but also technical compartments, to be understood as those compartments with vertical development, without structural continuity, having closed perimeter and used for the containment of technical services of the building.

The maximum allowed pipe lengths are as follows (for proper installation, please refer to the the system manuals):

- VICTRIX PRO 35 V2 maximum length with flex 12 m/ with rigid 30m
- VICTRIX PRO 55 V2 maximum length with flex 12 m/ with rigid 30m
- VICTRIX PRO 60 V2 maximum length with flex 8 m/ with rigid 20m
- VICTRIX PRO 68 V2 maximum length with flex 8 m/ with rigid 20m
- VICTRIX PRO 80 V2 maximum length with flex 8 m/ with rigid 20m

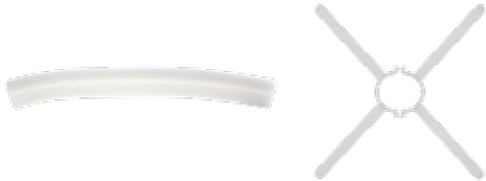
The system **can be paired with a single appliance.**

EC Certificate according to UNI EN 14471



Flexible ducting system Ø 80

Ø 80 mm FLEXIBLE DUCTING SYSTEM

Type		Art. no.
Flexible ducting kit Ø 80 mm, L=12 m + 4 centering spacers		3.027875
Support bend kit Ø 80 mm 87° and flexible ducting adapter Ø 80		3.027873
Support bend kit Ø 80 mm 70° M and flexible ducting adapter Ø 80		3.027874
Vertical outlet kit Ø 80/125 for flexible ducting Ø 80		3.027876
Chimney hole closing panel kit		3.012008
Flexible/flexible adapter kit for flexible ducting Ø 80		3.027877



Ø 80 mm RIGID DUCTING SYSTEM

Type		Art. no.
Chimney hole closing panel kit Includes hole closing panel, inspection door and grommet for ducting system.		3.012008
Hanging bracket kit Adjustable support chimney hanging bracket, for ducting system.		3.011600
4 extension pipes Ø 80 1 m long		3.012088
1 extension pipe Ø 80 2 m long		3.016837
Pipe clamp ring nut clips 80 Ø kit (5 pcs.)		3.011585
Spacer pipe clamp clips 80 Ø kit (3 pcs.)		3.011586
Rigid bend support 80 Ø kit Includes bend support 80 Ø, bend locking collar and anchoring bracket		3.018340
Vertical terminal kit for rigid ducting Ø 80 Includes ducting exhaust intake terminal flue and flue closing aluminium plate		3.018341

EXHAUST MANIFOLD VICTRIX PRO V2

Installation in boiler room VICTRIX PRO 35–150 V2

With installations in boiler room, using up to 5 VICTRIX PRO V2 in the battery, in configuration B₂₃ (open chamber fan assisted), Immergas supplies special exhaust manifolds in PP equipped with flue lock (mechanical shutters), to prevent backflow of combustion products through the other non-functioning boilers. The system is modular: there is an exhaust manifold kit for two boilers and one for additional boilers. **Configuration not applied to version VICTRIX PRO 180 V2.**

Type		Art. no.
Exhaust manifold kit VICTRIX PRO 35/55/60/68/80 V2 Ø 160 with flue lock DN 80 for exhaust connection of two boilers in cascade		3.034257
Exhaust manifold kit VICTRIX PRO 100/120/150V2 Ø 200 with flue lock DN 125 for exhaust connection of two boilers in cascade.		3.034259
Additional exhaust manifold kit VICTRIX PRO 35/55/60/68/80 V2 Ø 160 with flue lock DN 80 for connection of an additional boiler		3.034258
Additional exhaust manifold kit VICTRIX PRO 100/120/150 V2 Ø 200 with flue lock DN 125 for connection of an additional boiler		3.034260
Additional exhaust manifold kit Ø 250 with flue lock DN 125 for 4 VICTRIX PRO 150 V2		3.034261
Additional exhaust manifold kit Ø 250 with flue lock DN 125 for 5 VICTRIX PRO 150 V2		3.034262
Extension pipe Ø 160 kit 0,5 m long for flue manifold		3.024659
Extension pipe Ø 200 kit 0,5 m long for flue manifold		3.024663
Extension pipe Ø 160 kit 1 m long for flue manifold		3.024516
Extension pipe Ø 200 kit 1 m long for flue manifold		3.024662
Extension pipe Ø 250 kit 1 m long for flue manifold		3.024668
87° bend kit Ø 160 for flue manifold		3.024517
87° bend kit Ø 200 for flue manifold		3.024665
87° bend kit Ø 250 for flue manifold		3.024670
2 x 45° bend kit Ø 160 for flue manifold		3.024518
2 x 45° bend kit Ø 200 for flue manifold		3.024664
2 x 45° bend kit Ø 250 for flue manifold		3.024669
Stub-pipe kit Ø80 for air intake for VICTRIX PRO 35/55/60/68/80 V2 with B ₂₃ configuration		3.033759
Stub-pipe kit Ø100 for air intake for VICTRIX PRO 100/120/150 V2 with B ₂₃ configuration		3.033760



OPTION KITS

Within our range it is possible to find a wide option of accessories for the system. The use of original kits ensures quality and reliability of the products.

CABINET INSTALLATION VICTRIX PRO 35-150 V2

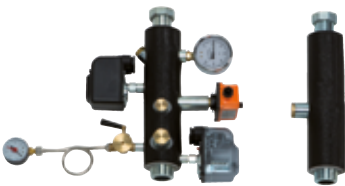
Type		Art. no.
VICTRIX PRO V2 cabinet kit it can be installed outdoor. It includes 4 support feet that ensure stable installation and its handling by forklift truck or transpallet to be positioned below the cabinet frame. Alternatively, you can move the cabinet by means of 4 eyebolts in the upper part. The cabinet has a door that opens 180° and features a lock.		3.033680
Hydraulic manifold and safety kit for VICTRIX PRO V2 cabinet for single and cascade installation. The kit includes hydraulic manifold DN 100 with safety kit and condensate discharge manifold DN 50. The installer has to realise gas manifold based on design.		3.033681

FREE-STANDING INSTALLATION VICTRIX PRO 35-150 V2

"Free standing" support frame kit VICTRIX PRO 35/55/60/68/80 V2 designed to resolve installation situations in which the wall of the boiler room is not usable. With this modular construction, it is necessary to order a kit for every boiler installed. Approved also for installation outside the building.		3.032347
"Free standing" support frame kit VICTRIX PRO 100/120/150 V2 designed to resolve installation situations in which the wall of the boiler room is not usable. With this modular construction, it is necessary to order a kit for every boiler installed. Approved also for installation outside the building.		3.033686



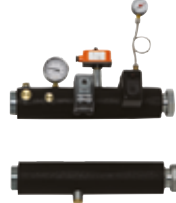
HYDRAULIC OPTIONAL FOR SINGLE INSTALLATION

Type		Art. no.
Safety kit single boiler the kit includes thermometer, thermometer holder, lock, thermostat with manual reset, connection tap for pressure gauge, manual reset pressure switch, gas intercepting valve trap, expansion vessel connection and pressure switch for minimum pressure. Insulation as standard		3.023949
Three-way valve kit connection to a separate storage tank the kit includes the storage tank probe. The power supply is 230 Vac. Insulation as standard		3.023950
Hydraulic manifold kit for VICTRIX PRO 35/55/60/68/80 V2 specially sized for large thermal systems with high water content. Equipped with sludge collection filter on the return pipe. Insulation as standard		3.023951
Hydraulic manifold kit for VICTRIX PRO 100/120/150/180 V2 specially sized for large thermal systems with high water content. Equipped with sludge collection filter on the return pipe. Insulation as standard		3.023952
IPX4D protection box kit for single boiler safety kit		3.024028
Adapter kit VICTRIX PRO 35/55/60/68/80 V2 for replacement of VICTRIX 50 and 75 versions in single wall unit configuration		3.023966
Anti freeze protection kit -15 °C		3.034125
Condensate neutralizer until 80 kW necessary to neutralize the acidity of the condensate. Inclusive of granulate.		3.033687
Condensate neutralizer until 180 kW necessary to neutralize the acidity of the condensate. Inclusive of granulate		3.033688
Granulate for condensate neutralizer until 180 kW		3.034920
Condensate discharge pump kit To be used in case of opposite slope between siphon and discharge. It can only be installed inside the building and outside the appliance		3.036249
Magnetic dirt separator kit for single installation For installation both on right and left side		3.033673
Plate heat exchanger kit for single installation on the right side of VICTRIX PRO 35/55/80 V2 The kit includes connecting pipes, air vent, discharge tap, filling taps and connection to expansion vessel		3.033676
Plate heat exchanger kit for single installation on the right side of VICTRIX PRO 100/120/150/180 V2 The kit includes connecting pipes, air vent, discharge tap, filling taps and connection to expansion vessel		3.033677



HYDRAULIC OPTIONAL FOR CASCADE INSTALLATION

The following hydraulic accessories are supplied as optionals for completion of cascade installations from 2 up to 5 VICTRIX PRO V2

Type		Art. no.
Hydraulic manifold kit G 2 ½" for 2 VICTRIX PRO 35/55/60/68/80 V2 in cascade the kit includes a 2-way valves, a 3-way interception valve and a non-return valve for each generator. Insulation as standard.		3.032338
Hydraulic manifold kit G 2 ½" for additional VICTRIX PRO 35/55/60/68/80 V2 in cascade in combination with kit 3.032338, it serves to connect from 3 to 5 VICTRIX PRO V2 boilers in cascade installation (one kit required for each additional boiler); includes a 2-way interception valve, a 3-way interception valve and a non-return valve. Insulation as standard		3.033669
Safety kit G 2" ½ for VICTRIX PRO 35/55/60/68/80 V2 in cascade the kit includes thermometer, thermometer holder, lock, thermostat with manual reset, connection tap for pressure gauge, manual reset pressure switch, gas intercepting valve trap, expansion vessel connection and pressure switch for minimum pressure. Insulation as standard.		3.023955
Hydraulic manifold kit DN 100 for 2 VICTRIX PRO 100/120/150 V2 in cascade the kit includes a 2 way interception valve, a 3-way interception valve and a non-return valve for each generator. Insulation as standard		3.033667
Hydraulic manifold kit DN 100 for additional VICTRIX PRO 100/120/150 V2 in cascade in combination with kit 3.033667 serves to connect from 3 to 5 VICTRIX PRO V2 boilers in cascade installation (one kit required for each additional boiler); includes a 2-way interception valve, a 3-way interception valve and a non-return valve. Insulation as standard		3.033668
Hydraulic manifold kit DN 100 for 2 VICTRIX PRO 180 V2 in cascade the kit includes a 2 way interception valve, a 3-way interception valve and a non-return valve for each generator. Insulation as standard.		3.034938
Hydraulic manifold kit DN 100 for additional VICTRIX PRO 180 V2 in cascade in combination with kit 3.034938 it serves to connect from 3 to 5 VICTRIX PRO V2 boilers in cascade installation (one kit required for each additional boiler); includes a 2-way interception valve, a 3-way interception valve and a non-return valve. Insulation as standard.		3.034939
Safety kit DN 100 for VICTRIX PRO 100/120/150/180 V2 in cascade the kit includes thermometer, thermometer holder, lock, thermostat with manual reset, connection tap for pressure gauge, manual reset pressure switch, gas intercepting valve trap, expansion vessel connection and pressure switch for minimum pressure. Insulation as standard		3.023961
IPX4D protection box kit for boiler in cascade safety kit		3.024038

HYDRAULIC OPTIONAL FOR CASCADE INSTALLATION

The following hydraulic accessories are supplied as optionals for completion of cascade installations from 2 up to 5 VICTRIX PRO V2

Type		Art. no.
Hydraulic separator for 100 kW installations separator with G2 ½" threaded connectors. Insulation as standard.		3.020839
Hydraulic separator for 200 kW installations separator with G2 ½" threaded connectors. Insulation as standard.		3.021377
Hydraulic separator for 400 kW installations separator with G2 ½" threaded connectors on boiler side – DN 100 on system side. Insulation as standard.		3.021378
Hydraulic separator for 350 kW installations separator with flanged connectors – DN 100. Insulation as standard.		3.023965
Hydraulic separator for 600 kW installations separator with flanged connectors – DN 100. Insulation as standard.		3.023962
Anti freeze protection kit -15 °C One kit for every boiler		3.034125
Condensate neutralizer until 80 kW necessary to neutralize the acidity of the condensate. Inclusive of granulate.		3.033687
Condensate neutralizer until 180 kW necessary to neutralize the acidity of the condensate. Inclusive of granulate.		3.033688
Condensate neutralizer until 1500 kW necessary to neutralize the acidity of the condensate. Inclusive of granulate.		3.023662
Granulate for condensate neutralizer until 180 kW		3.034920
Granulate for condensate neutralizer until 1.500 kW (25 kg).		3.023663
Magnetic dirt separator kit for VICTRIX PRO 35/55/60/68/80 V2 in cascade The kit includes connection manifolds* and support		3.033674
Magnetic dirt separator kit for VICTRIX PRO 100/120/150/180 V2 in cascade The kit includes connection manifolds* and support.		3.033675
Plate heat exchanger kit for cascade installation on the right side of VICTRIX PRO 35/55/60/68/80 V2 The kit includes connecting pipes, air vent, discharge tap, filling taps and connection to expansion vessel.		3.033678
Plate heat exchanger kit for cascade installation on the right side of VICTRIX PRO 100/120/150/180 V2 The kit includes connecting pipes, air vent, discharge tap, filling taps and connection to expansion vessel		3.033679

*Designed for installation with Inail Kit. For the pairing above dirt separator or heat exchanger dedicated kit it is necessary to realise pipework spacing adaptation not supplied by immergas

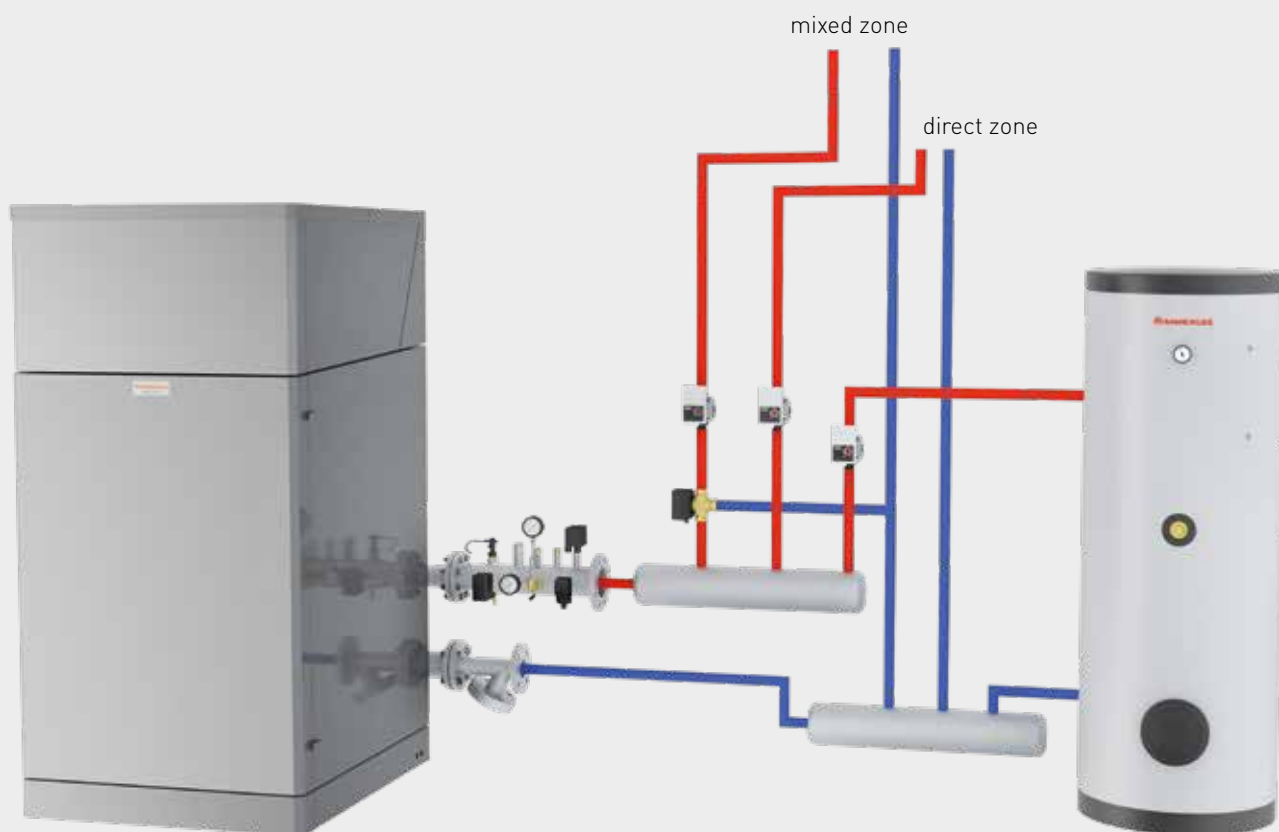


BIM READY

ARES PRO

Floor standing condensing boiler with high water content





HIGH WATER CONTENT FOR LARGE SYSTEMS

ARES PRO is designed for plants from 150 to 7.200 kW. It can be used alone or in cascade installations with up to 12 units, which guarantee higher overall efficiency and lower running costs thanks also to condensing technology. The great flexibility of combination and installation makes this generator **perfect for heating large home and condominium systems as well as commercial and industrial premises.**

SIMPLE TO INSTALL

ARES PRO **does not require a primary circuit**, it can be connected directly to the system and needs no limitation on return temperature. These characteristics make installation in limited spaces possible and enable significant **savings on components**: there is no need for a compensator nor for a plate exchanger.

COMPACT AND EFFICIENT

Despite its high water content, the installation of ARES PRO **does not require large spaces**. This makes it particularly useful when replacing obsolete generators as well as in new installations. Its large-sized primary storage tank and modulation ratio up to 1:4 of maximum output, **reduce the number of burner switch-on/switch-off cycles**. Seasonal efficiency improves by as much as 30% compared to conventional generators and **when replacing an existing unit, the savings in running costs are substantial.**





Large water content condensing unit, entirely in stainless steel (from 153 litres for ARES PRO 150 to 425 litres for ARES PRO 600) with **high-efficiency and reliability** over time.

Possibility to reuse the existing system pump thanks to **low head losses**.

Vertical burner with integrated **clapet valve** that allows the use of positive pressure chimney systems, with smaller sections, and also the creation of ARES PRO cascades.

Very low risk of clogging in replacement existing systems.

Reduced number of ignition cycles and burner shutdown with benefits on seasonal efficiency.

Easy opening, with shock absorbers of the upper inspection door for easy maintenance.

Great flexibility in managing several circuits (up to 12 system circuits plus 1 domestic hot water storage tank and a further direct circuit).

Multifunction board (SHC) to manage 3 circuits with 3 NTC probes **supplied as standard**.

External probe as standard.



CONTROL ELECTRONICS

ARES PRO is equipped with standard external probe and hot water boiler probe. The HSCP [Heating System Control Panel] fitted on the boiler is equipped with a backlit LCD display where it is possible to programme: time-slots, daily and weekly programmes, heating curves, anti-legionella function and other settings.

The boiler's basic electronics named BCM [Boiler Control Manager] has been designed to control:

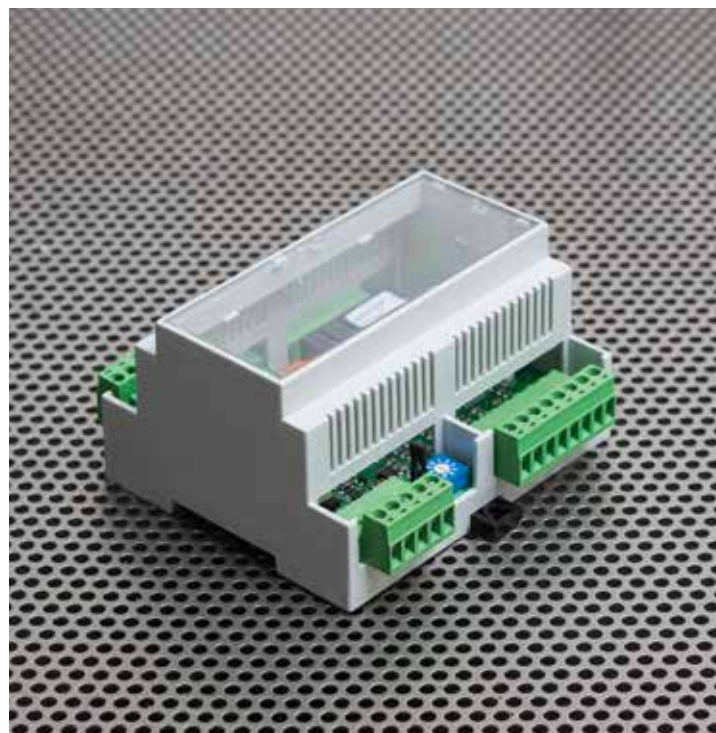
- a circulator for direct supply to the system;
- a circulator for hot water storage control;
- a circulator for primary ring (if any).

In addition, the BCM serves as a backup control unit, taking over generator control to guarantee emergency operation in the event of failure of the HSCP control panel.

MULTIFUNCTION MODULE SHC

Another standard feature of the ARES PRO is the multifunction module SHC [Slave Heating Controller], an integration electronics unit that can control up to three circuits such as: solar circuits, mixed zones, additional hot water storage tanks, etc.

For cascade installations, there is also a cascade regulator kit that can manage up to 12 boilers in series.



Technical characteristics	Unit of measurement	ARES PRO 150	ARES PRO 230	ARES PRO 300	ARES PRO 348
Art. no. NG. Art. no. LPG.		3.028309 3.028309GPL	3.028310 3.028310GPL	3.028311 3.028311GPL	3.028312 3.028312GPL
Maximum nominal heat input	kW	140	214	280	348
Minimum nominal heat input	kW	35	50	65	90
Nominal heat output (80/60 °C)	kW	136,36	209,29	274,54	341,42
Minimum heat output (80/60 °C)	kW	32,52	48,25	63,57	87,67
Nominal heat output (50/30 °C)	kW	145,88	226,84	292,88	363,31
Minimum nominal heat output (50/30 °C)	kW	36,54	54,60	70,01	99,09
Efficiency at nominal heat output (80/60 °C)	%	97,4	97,8	98,05	98,11
Efficiency at minimum heat output (80/60 °C)	%	92,92	96,50	97,80	97,41
Efficiency at nominal heat output (50/30 °C)	%	104,2	106,0	104,6	104,4
Efficiency at minimum heat output (50/30 °C)	%	104,4	109,2	107,7	110,1
Efficiency at 30 % of the load (Tr 30°C)	%	107,7	107,2	108,9	108,4
Flue losses with burner in operation (max)	%	2,21	2,14	1,84	1,78
Chimney losses with burner in operation (min)	%	1,62	1,68	1,60	1,66
Losses from operating burner casing (Qn)	%	0,4	0,1	0,1	0,1
Losses from operating burner casing (Qmin)	%	5,46	1,82	0,60	0,93
NO _x Class		6	6	6	6
NO _x at maximum heat input (0% O ₂)	mg/kWh	54	43	53	49
CO at maximum heat input (0% O ₂)	mg/kWh	13,73	18,05	28,08	25,27
Gas flow rate to burner at max. and min. heat output with natural gas (G20)	m ³ /h	14,80 – 3,70	22,63 – 5,29	29,61 – 6,87	36,80 – 9,52
Maximum pressure available at flue base	Pa	100	100	100	100
Mass flue flow rate (max)	kg/h	229	350	458	569
Flue exhaust max temperature (setting temperature 20 °C and operation at 80/60 °C)	°C	44,2	42,7	36,7	35,6
Maximum operation temperature	°C	90	90	90	90
Set heating temperature	°C	20 – 85	20 – 85	20 – 85	20 – 85
Central heating circuit max pressure	bar	6	6	6	6
Maximum condensate production	kg/h	11,5	13,7	15,8	29,1
Power supply	V/Hz	230/50	230/50	230/50	230/50
Installed electric power	kW	0,190	0,195	0,210	0,270
Electric protection index	IP	X4D	X4D	X4D	X4D
Empty appliance weight (cover)	kg	347 (60)	399 (80)	459 (90)	610 (106)
Appliance water content	l	153	210	270	340

For more information consult the technical sheet or the website immergas.com

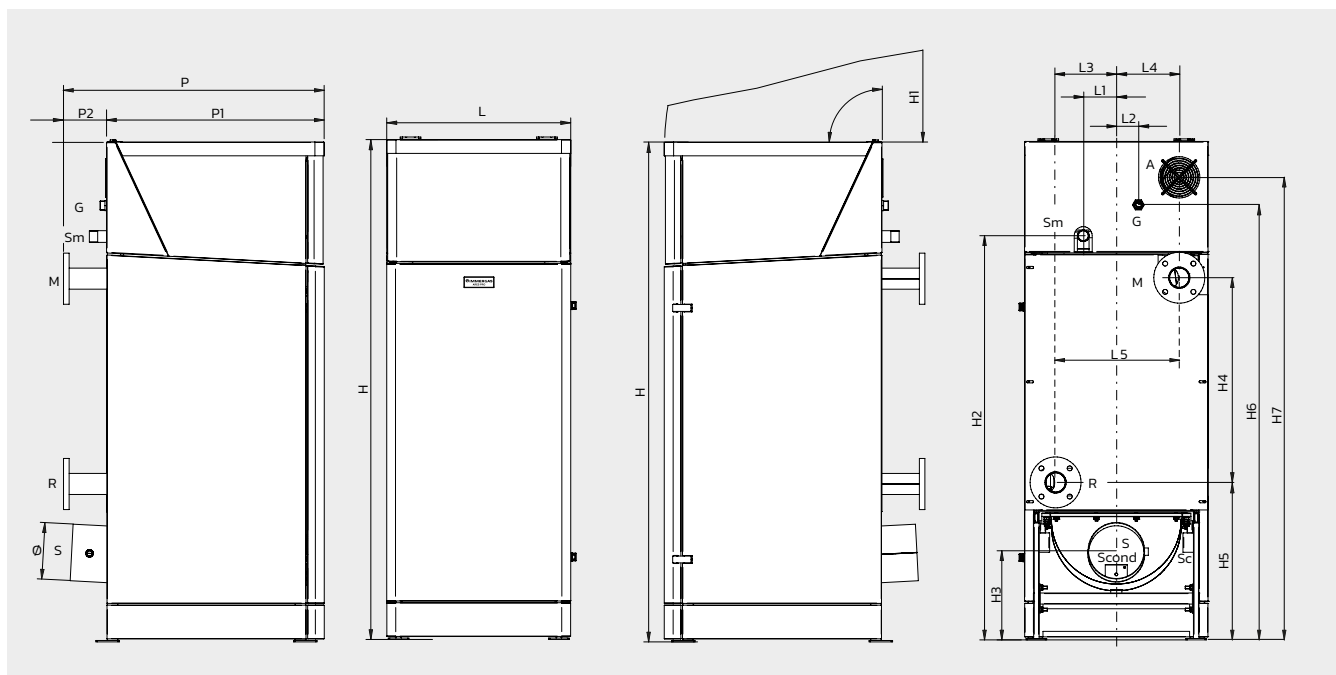


Technical characteristics	Unit of measurement	ARES PRO 400	ARES PRO 500	ARES PRO 600
Art. no. NG.		3.028313	3.028314	3.028315
Art. no. LPG.		3.028313GPL	3.028314GPL	3.028315GPL
Maximum nominal heat input	kW	380	450	550
Minimum nominal heat input	kW	90	115	125
Nominal heat output (80/60 °C)	kW	373,01	441,95	540,32
Minimum heat output (80/60 °C)	kW	87,80	111,09	118,53
Nominal heat output (50/30 °C)	kW	399,00	472,20	581,19
Minimum nominal heat output (50/30 °C)	kW	97,20	124,09	135,88
Efficiency at nominal heat output (80/60 °C)	%	98,16	98,21	98,24
Efficiency at minimum heat output (80/60 °C)	%	97,55	96,60	94,82
Efficiency at nominal heat output (50/30 °C)	%	105,00	104,90	105,67
Efficiency at minimum heat output (50/30 °C)	%	108	107,9	108,7
Efficiency at 30 % of the load (Tr 30°C)	%	108,8	108,9	106,5
Flue losses with burner in operation (max)	%	1,77	1,78	1,72
Chimney losses with burner in operation (min)	%	1,69	1,57	1,58
Losses from operating burner casing (Qn)	%	0,10	0,03	0,04
Losses from operating burner casing (Qmin)	%	0,76	1,83	3,60
NO _x Class		6	6	6
NO _x at maximum heat input (0% O ₂)	mg/kWh	50	48	50
CO at maximum heat input (0% O ₂)	mg/kWh	18,25	22,46	22,10
Gas flow rate to burner at max. and min. heat output with natural gas (G20)	m ³ /h	40,18 – 9,52	47,58 – 12,16	58,15 – 13,22
Maximum pressure available at flue base	Pa	100	100	100
Mass flue flow rate (max)	kg/h	621	735	899
Flue exhaust max temperature (setting temperature 20 °C and operation at 80/60 °C)	°C	35,4	35,5	34,3
Maximum operation temperature	°C	90	90	90
Set heating temperature	°C	20 – 85	20 – 85	20 – 85
Central heating circuit max pressure	bar	6	6	6
Maximum condensate production	kg/h	28,5	28,8	31,0
Power supply	V/Hz	230/50	230/50	230/50
Installed electric power	kW	0,425	0,555	0,590
Electric protection index	IP	X4D	X4D	X4D
Empty appliance weight (cover)	kg	610 (106)	610 (106)	755 (120)
Appliance water content	l	340	340	425

For more information consult the technical sheet or the website immergas.com



DIMENSIONS AND CONNECTIONS



Key

M	Central heating system flow	A	Air intake grid Ø 250 mm (Ø 150 mm for 150 kW models)	SC	Boiler draining valve (do not use to drain the system)
R	Central heating system return	S	Flue exhaust	Scnd	Condensate drain Ø 40 mm
G	Gas inlet	Sm	Air vent attachment/expansion vessel attachment		

Technical characteristics*	ARES PRO 150	ARES PRO 230	ARES PRO 300	ARES PRO 348	ARES PRO 400	ARES PRO 500	ARES PRO 600
Height [H] mm	1809	1917	1946	2130	2130	2130	2206
Height [H1] mm	65,6	65,6	65,6	65,6	65,6	65,6	65,6
Height [H2] mm	1467	1557	1618	1712	1712	1712	1753
Height [H3] mm	323,5	356	353	390	390	390	390
Height [H4] mm	770	800	825	853	853	853	900
Height [H5] mm	554,5	604,5	600,5	664	664	664	673
Height [H6] mm	1579	1697	1741	1794	1794	1794	1863
Height [H7] mm	1679	1768	1796	1974	1974	1974	2052
Width [L] mm	666	846	910	996	996	996	1096
Width [L1] mm	120	120	100	100	100	100	200
Width [L2] mm	81	43	200	200	200	200	220
Width [L3] mm	288,5	277	297	338	338	338	386
Width [L4] mm	228,5	277	297	338	338	338	386
Width [L5] mm	457	554	594	676	676	676	772
Depth [P] mm	944	1092	1181	1276	1276	1276	1398
Depth [P1] mm	788	954	1036	1152	1152	1152	1256
Depth [P2] mm	156	141	144	124	124	124	142

* Dimensions with cover.

Connections

Model	Central heating system flow	Central heating system return	Gas inlet	Air vent attachment/expansion vessel attachment	Flue exhaust
	M	R	G	Sm	S
ARES PRO 150	DN 65	DN 65	1"	1"	Ø 200
ARES PRO 230	DN 65	DN 65	1 ¼"	1 ¼"	Ø 250
ARES PRO 300	DN 80	DN 80	1 ¼"	1 ½"	Ø 250
ARES PRO 348	DN 80	DN 80	1 ½"	1 ½"	Ø 300
ARES PRO 400	DN 80	DN 80	1 ½"	1 ½"	Ø 300
ARES PRO 500	DN 80	DN 80	1 ½"	1 ½"	Ø 300
ARES PRO 600	DN 100	DN 100	1 ½"	1 ½"	Ø 300

THERMOREGULATION

Combining ARES PRO with a thermoregulation device is an excellent investment because it improves the seasonal energy efficiency of the heating system.

CRONO 7

Type		Art. no.
Weekly digital chronothermostat.	 Dimensions (H x W x D) mm 103 x 142 x 31	3.021622

CRONO 7 WIRELESS

Wireless weekly digital chronothermostat.	 Dimensions (H x W x D) mm 103 x 142 x 31	3.021624
	 Dimensions (H x W x D) mm 82 x 105 x 36	

SHC multifunction board kit

(including 3 NTC probes) It allows to integrate 3 additional user circuits for each module, up to a maximum of 4 modules (maximum 12 integration circuits) N.B. One multifunction module (not connected) is standard supplied with the generator		3.028338
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24V Power pack kit

To be inserted in the control panel.		3.028339
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Solar collector temperature probe kit

Solar collector temperature probe kit for ARES PRO.		1.028812
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Cascade regulator kit

It can manage up to 12 boilers in cascade. Composed by HSCP viewer/programmer, BCM board, 24V power supply, external probe, puffer probe.		3.028340
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Probe Kit

Room probe for ARES PRO		3.035396
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OPTION KITS

Safety kit

Safety kit with filter for ARES PRO 150÷230*.		3.028336
Safety kit with filter for ARES PRO 300÷500*.		3.028337
Safety kit with filter for ARES PRO 600*.		3.023658

* The kit includes filter and safety devices except safety valve, manometer, expansion vessel and fuel relief valve.

Kit for condensate drain management

Condensate neutralizer kit up to 1500 kW.		3.023662
Granulate kit for condensate neutralizer (25 kg).		3.023663

BIM READY

ARES TEC ErP

Floor-standing condensing boiler multi-burner from 150 to 900 kW





COMPLETE RANGE

ARES TEC ErP is designed to realize plants up to 10,800 kW thanks to the possibility to manage up to 12 boilers in series. The range includes 10 models, each consisting of multiple heating elements. Thanks to its extraordinary power/size/weight ratio, ARES TEC ErP is ideal where space is limited.

HIGH EFFICIENCY AND LOW ENVIRONMENTAL IMPACT

The modulation ratio up to 1:40 ensures extremely high seasonal efficiency. The “ecological soul” of ARES TEC ErP is assured by special modulating total premixing boilers with constant CO₂ irradiation that allow low NO_x emissions (the boiler belongs to the most ecological class required by European Standards – Class 6) and low flue gas-sensitive losses.

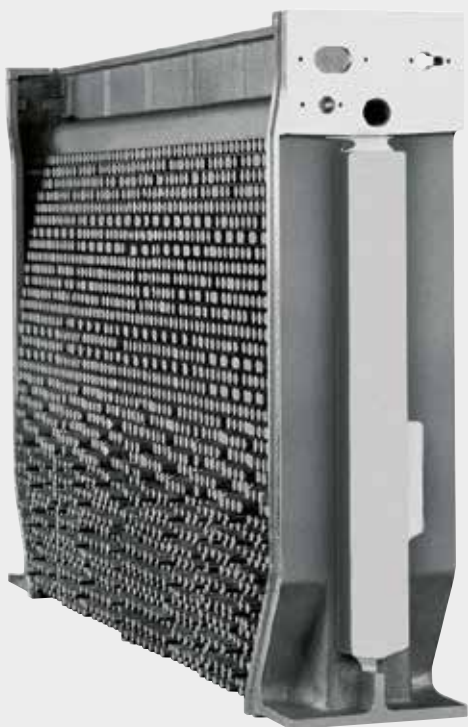
NOISELESS

Despite the high power output, the innovative combustion circuit technology and the aluminum, silicon, and magnesium alloy engine block produce low noise levels.

FLEXIBLE OUTDOOR INSTALLATION

The standard IPX5D electrical protection allows for outdoor installation, even open-air. The flue exhaust can be positioned on three sides on all models and, in the ARES 150–200–350 TEC ErP versions, the water and gas connections are reversible.





MULTIPLE BOILERS IN ONE

ARES TEC ErP is made up of multiple independent thermal elements (managed by a single electronic control logic) preassembled in aluminum/silicon/magnesium in which multiple complete combustion units operate. This alloy guarantees high resistance to corrosion from acid condensate. Each thermal element has an operating range from 12 to 50 kW up to the ARES 350 TEC ErP version, while for the ARES 440 TEC ErP versions and later, the range is from 22 to 108 kW. It is important to maintain the pH of the heating system filled water between 6.5 and 8 with a hardness of 15°C.

HEATING ELEMENTS

The base element is made up of two half shells which, on the flue side, has dense studding with increasing height towards the drain at the bottom of the element to increase its exchange surface.

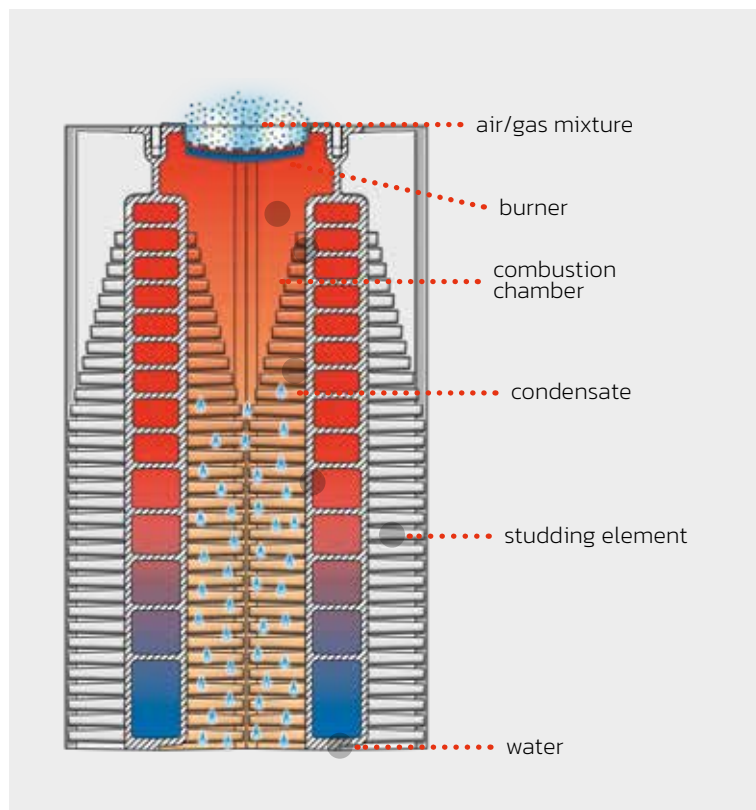
Each heating element consists of:

- premix-modulating irradiation burner
- dual stage modulating gas valve
- ionisation electronic ignition
- NTC temperature control probes
- safety thermostats
- signalling glass.

The drains of the heating elements (flue gas and acid condensates) flow into a special drainage manifold, made of stainless steel.

BURNER MANAGEMENT BOARD

For combustion control, it is equipped with a burner management board (BMM).





ELECTRONICS CONTROL

ARES TEC ErP is equipped with standard external probe and hot water boiler probe. The HSCP [Heating System Control Panel] fitted on the boiler, is equipped with a backlit LCD display where it is possible to programme: time brackets, daily and weekly programmes, heating curves, anti-legionella function and other settings.

The boiler's basic electronics named BCM [Boiler Control Manager] has been designed for the control of:

- a circulator for direct supply to the system;
- a circulator for hot water storage control;
- a circulator for primary ring (if any).

In addition, the BCM serves as a backup control unit, taking over generator control to guarantee emergency operation in the event of failure of the HSCP control panel.

MULTIFUNCTION MODULE SHC

Another standard feature of the ARES TEC ErP is the multifunction module SHC [Slave Heating Controller], an integration electronics unit that can control up to three circuits such as: solar circuits, mixed zones, additional hot water storage tanks, etc.

For cascade installations, there is also a cascade regulator kit that can handle up to 12 boilers in series.



Technical characteristics	Unit of measurement	ARES 150 TEC ErP	ARES 200 TEC ErP	ARES 250 TEC ErP	ARES 300 TEC ErP	ARES 350 TEC ErP
Art. no. NG Art. no. LPG		3.025682 3.025682GPL	3.025683 3.025683GPL	3.025684 3.025684GPL	3.025685 3.025685GPL	3.025686 3.025686GPL
Number of heating elements	--	3	4	5	6	7
Maximum nominal heat input	kW	150	200	250	300	348
Minimum nominal heat input	kW	12	12	12	12	12
Nominal heat output (80/60 °C)	kW	146,1	195,2	244,5	294,0	341,7
Minimum heat output (80/60 °C)	kW	11,7	11,7	11,7	11,7	11,7
Nominal heat output (50/30 °C)	kW	150,00	200,4	251,3	302,7	354,6
Minimum nominal heat output (50/30 °C)	kW	12,8	12,8	12,8	12,8	12,8
Efficiency at nominal heat output (80/60 °C)	%	97,4	97,6	97,8	98,0	98,2
Efficiency at nominal heat output (50/30 °C)	%	100,0	100,2	100,5	100,9	101,9
Efficiency at minimum heat output (50/30 °C)	%	106,5	106,5	106,5	106,5	106,5
Efficiency at 30 % of the load (Tr 30°C)	%	107,3	107,3	107,3	107,3	107,3
Flue losses with burner in operation (max)	%	2,2	2,2	2,0	1,9	1,7
Chimney losses with burner in operation (min)	%	0,3	0,3	0,3	0,3	0,3
Losses from operating burner casing (Qn)	%	0,4	0,2	0,2	0,1	0,1
Losses from operating burner casing (Qmin)	%	0,1	0,1	0,1	0,1	0,1
NO _x Class		6	6	6	6	6
NO _x at maximum heat input (0% O ₂)	mg/kWh	38	36	44	42	40
CO at maximum heat input (0% O ₂)	mg/kWh	54	62	71	55	58
Gas flow rate to burner at max-min heat output with natural gas (G20)	m ³ /h	15,90 – 1,30	21,10 – 1,30	26,40 – 1,30	31,70 – 1,30	36,80 – 1,30
Maximum pressure available at flue base	Pa	100	100	100	100	100
Mass flue flow rate (max)	kg/h	245	327	409	490	569
Flue exhaust max temperature (setting temperature 20 °C and operation at 80/60 °C)	°C	45,1	46,5	47,3	48,2	49,1
Maximum operation temperature	°C	90	90	90	90	90
Set heating temperature	°C	25–85	25–85	25–85	25–85	25–85
Central heating circuit max pressure	bar	6	6	6	6	6
Maximum condensate production	kg/h	24,2	32,2	40,3	48,3	56
Power supply	V/Hz	230/50	230/50	230/50	230/50	230/50
Installed electric power	W	210	290	362	435	507
Electric protection index	IP	X5D	X5D	X5D	X5D	X5D
Empty appliance weight (cover)	kg	220	273	308	365	390
Appliance water content	litres	14,2	18,3	22,4	26,5	30,6

For more information consult the technical sheet or the website immergas.com



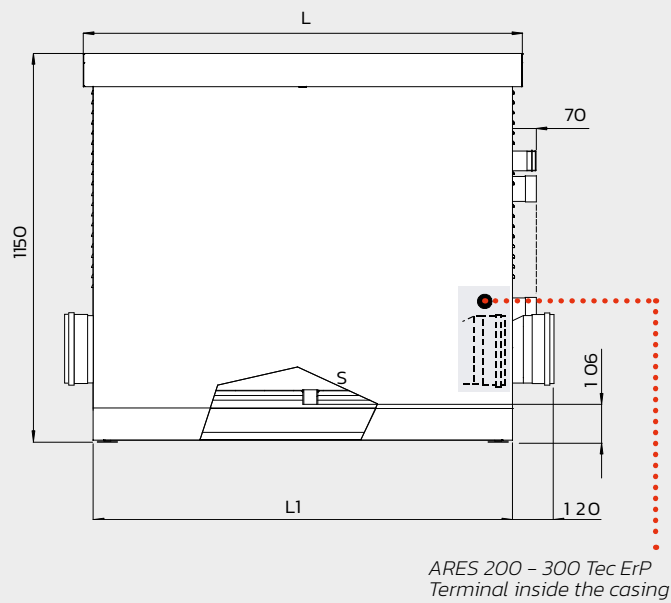
Technical characteristics	Unit of measurement	ARES 440 TEC ErP	ARES 550 TEC ErP	ARES 660 TEC ErP	ARES 770 TEC ErP	ARES 900 TEC ErP
Art. no. NG Art. no. LPG		3.025687 3.025687GPL	3.025688 3.025688GPL	3.025689 3.025689GPL	3.025690 3.025690GPL	3.025691 3.025691GPL
Number of heating elements	--	4	5	6	7	8
Maximum nominal heat input	kW	432	540	648	756	864
Minimum nominal heat input	kW	22	22	22	22	22
Nominal heat output (80/60 °C)	kW	424,3	530,3	636,5	742,6	849,0
Minimum heat output (80/60 °C)	kW	20,6	20,6	20,6	20,6	20,6
Nominal heat output (50/30 °C)	kW	445,0	557,8	670,1	783,2	900,3
Minimum nominal heat output (50/30 °C)	kW	23,9	23,9	23,9	23,9	23,9
Efficiency at nominal heat output (80/60 °C)	%	98,2	98,2	98,2	98,2	98,2
Efficiency at nominal heat output (50/30 °C)	%	104	104	104	104	104
Efficiency at minimum heat output (50/30 °C)	%	109	109	109	109	109
Efficiency at 30 % of the load (Tr 30°C)	%	107,3	107,5	108,3	107,8	107,6
Flue losses with burner in operation (max)	%	2,58	2,53	2,51	2,58	2,58
Chimney losses with burner in operation (min)	%	0,1	0,1	0,1	0,1	0,1
Losses from operating burner casing (Qn)	%	0,1	0,1	0,1	0,1	0,1
Losses from operating burner casing (Qmin)	%	0,1	0,1	0,1	0,1	0,1
NO _x Class		6	6	6	6	6
NO _x at maximum heat input (0% O ₂)	mg/kWh	40	40	38	36	37
CO at maximum heat input (0% O ₂)	mg/kWh	58	58	56	61	58
Gas flow rate to burner at max-min heat output with natural gas (G20)	m ³ /h	45,68 – 2,33	57,10 – 2,33	68,52 – 2,33	79,94 – 2,33	91,36 – 2,33
Maximum pressure available at flue base	Pa	100	100	100	100	100
Mass flue flow rate (max)	kg/h	740	925	1.111	1.296	1.515
Flue exhaust max temperature (setting temperature 20 °C and operation at 80/60 °C)	°C	46,7	46,7	46,7	46,7	45,8
Maximum operation temperature	°C	90	90	90	90	90
Set heating temperature	°C	25–85	25–85	25–85	25–85	25–85
Central heating circuit max pressure	bar	6	6	6	6	6
Maximum condensate production	kg/h	73,4	91,7	110	128,4	146,7
Power supply	V/Hz	230/50	230/50	230/50	230/50	230/50
Installed electric power	W	626	783	940	1096	1252
Electric protection index	IP	X5D	X5D	X5D	X5D	X5D
Empty appliance weight (cover)	kg	536	618	677	786	840
Appliance water content	litres	73,0	88,0	103,0	118,0	133,0

For more information consult the technical sheet or the website immergas.com

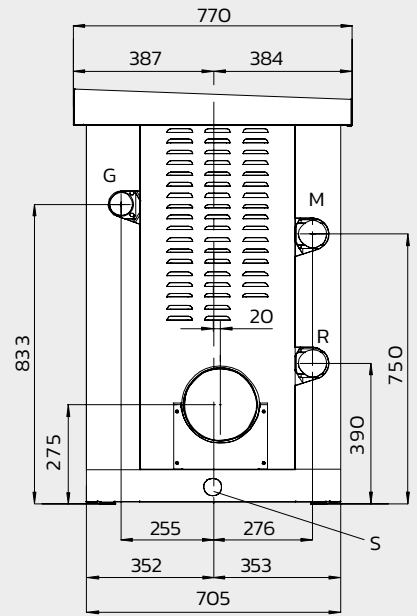


ARES 150-350 TEC ErP

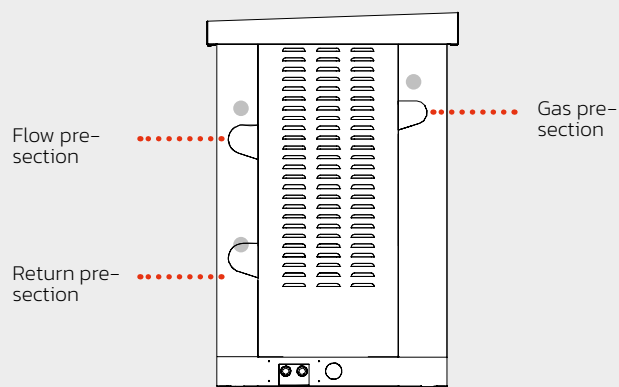
FRONT VIEW



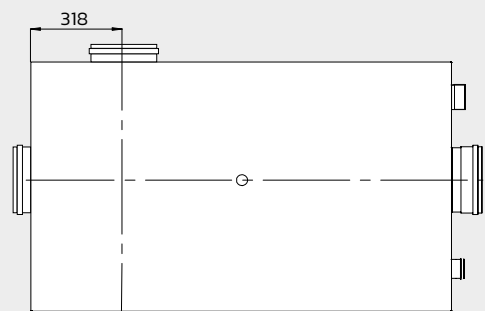
RIGHT SIDE VIEW
(Supply condition for left side attachments)



LEFT SIDE VIEW



TOP VIEW



Dimensions	ARES 150 TEC ErP	ARES 200 TEC ErP	ARES 250 TEC ErP	ARES 300 TEC ErP	ARES 350 TEC ErP
Flue fitting (mm)	150	150	200	200	200
Width "L" (mm)	764	1032	1032	1300	1300
Width "L1" (mm)	706	974	974	1242	1242

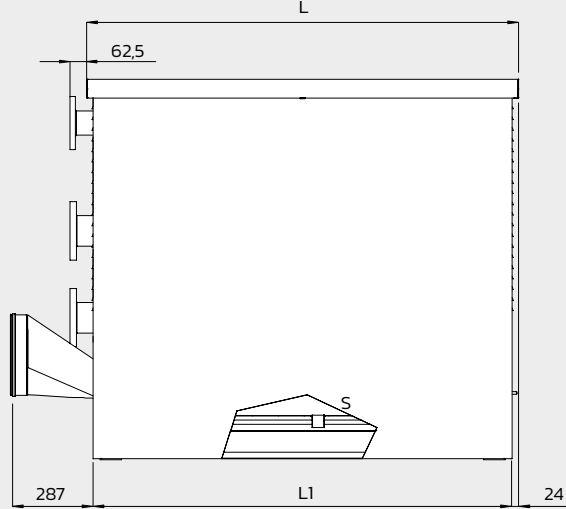
Connections			
Gas	Condensate drain	System	
mm/inch	mm	mm/inch	
G	S	R	M
50/2	40	64/2 ½	64/2 ½

Key

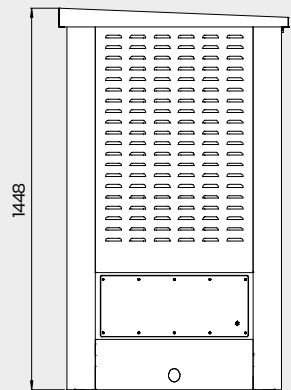
G	Gas fitting
S	Condensate drain
M	System flow
R	System return

ARES 440-900 TEC ErP

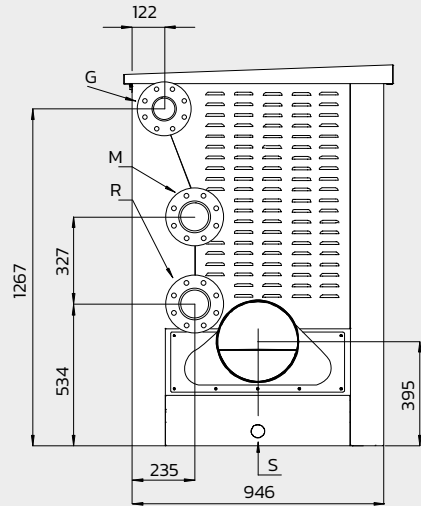
FRONT VIEW



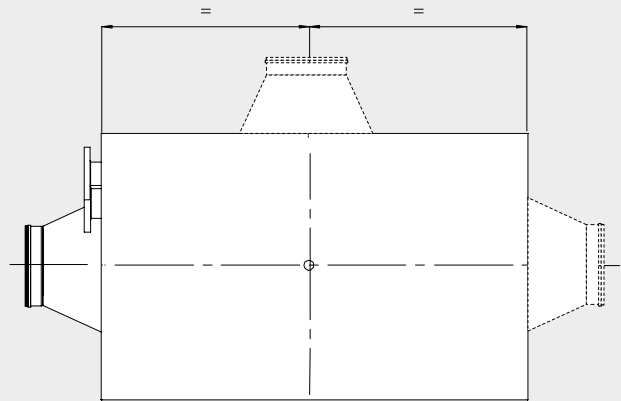
RIGHT SIDE VIEW



LEFT SIDE VIEW



TOP VIEW



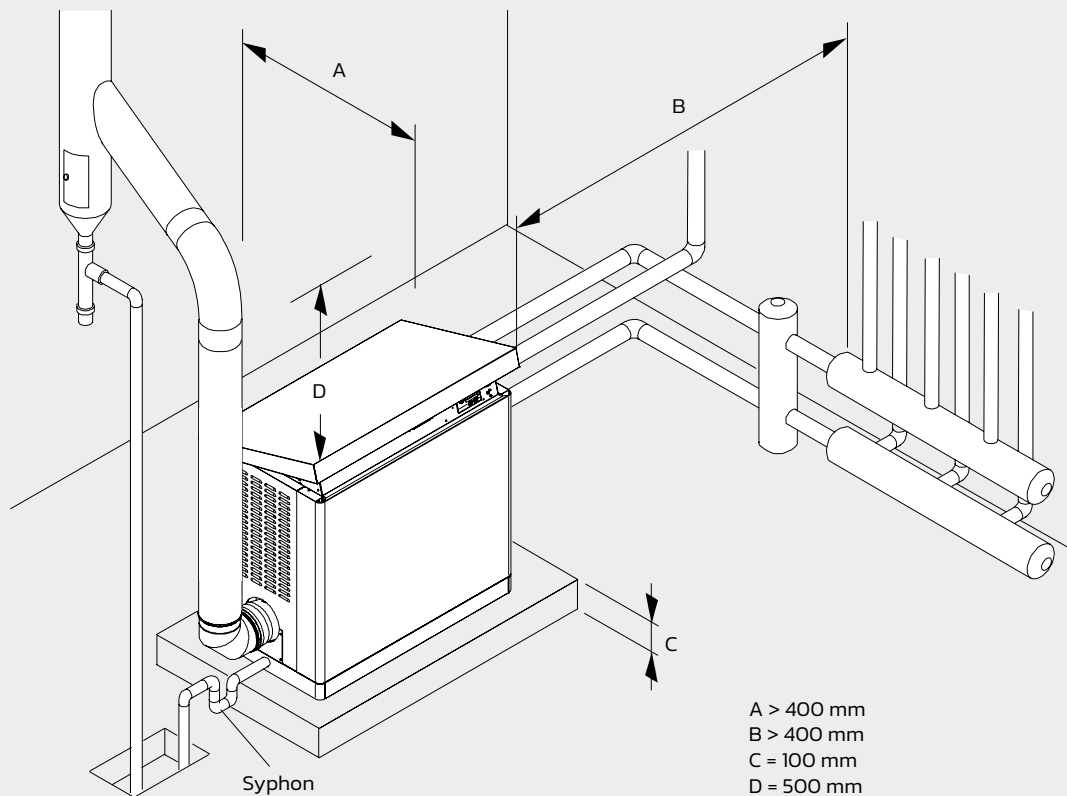
Dimensions	ARES 440 TEC ErP	ARES 550 TEC ErP	ARES 660 TEC ErP	ARES 770 TEC ErP	ARES 900 TEC ErP
Flue fitting (mm)	250	250	300	300	300
Width "L" (mm)	1087	1355	1355	1623	1623
Width "L1" (mm)	1039	1307	1307	1575	1575

Connections			
Gas	Condensate drain	System	
mm/inch	mm	mm/inch	
G	S	R	M
80/3	40	100/4	100/4

Key

G	Gas fitting
S	Condensate drain
M	System flow
R	System return





POSITIONING THE HEATING CONTROL UNIT

Special attention must be paid to local standards and regulations regarding heating control units, especially the minimum distances that must be observed.

Installation must comply with the requirements contained in the most recent standards and legislation regarding heating control units, heating system installation and hot water production, ventilation, flues suitable for condensing boiler combustion product exhaust, and any other applicable regulation.

The boiler may be placed on a flat, sufficiently sturdy platform with a footprint no smaller than that of the boiler and a minimum height of 100 mm, to allow for the installation of the condensate drain syphon. Alternatively, a 100 mm deep recess may be created in the platform next to the boiler to house the syphon. A dedicated kit is available to neutralize the condensate.

THERMOREGULATION

Cascade regulator kit

Type	Art. no.
It manages up to 12 boilers in cascade. It includes BCM board, 24V power pack, external probe and storage tank probe	3.028340

CRONO 7

Weekly digital chronothermostat.	 Dimensions (H x W x D) mm 103 x 142 x 31	3.021622
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CRONO 7 WIRELESS

Wireless weekly digital chronothermostat.	 Dimensions (H x W x D) mm 103 x 142 x 31	3.021624
	 Dimensions (H x W x D) mm 82 x 105 x 36	

SHC multifunction board kit

It allows to integrate 3 more user circuits for each kits up to 4 kit (max 12 supplementary circuits).		3.028338
N.B. 1 multifunction kit (not connected) is supplied as standard with the boiler.		

24V Power pack kit

To be inserted in the control panel.	3.028339
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Probe kit

Solar collector temperature probe kit	1.028812
Room probe for ARES TEC ErP	3.035396

OPTION KITS

ARES TEC ErP is approved for open-chamber, forced-draught operation (B_{23}). In ARES 150-350 TEC ErP versions, the flue discharge is on the right side (standard) or on the left or rear using special options kits. In ARES 440-900 TEC ErP versions, the flue discharge is on the left side (standard), right side or rear flue discharge is possible without any optional kit.

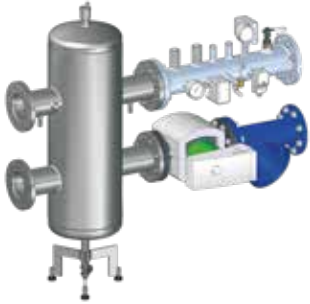
Rear flue discharge kit for ARES 150/200 TEC ErP	3.023701
Rear flue discharge kit for ARES 250/300/350 TEC ErP	3.023674
Supporting kit for side flue discharge ARES TEC ErP	3.023675



For installation ARES TEC ErP with hydraulic separator

Safety kit complete with pump and hydraulic separator

The following kit includes a "Y" filter, a modulating pump class A, an hydraulic separator and following safety devices: pressure gauge with pipe damper and manometer cock, thermometer, inspection openings, stub pipe G1 1/4" for inserting safety valves, safety thermostat, pressure switch for minimum pressure with manual reset, additional stub pipe G1, safety pressure switch and differential flow switch. The kit does not include the tested expansion tank, safety valve (2 for 660/770/900 kW versions), drain valve and manometer, since these need to be sized according to the characteristics of the system.

Type		Art. no.
Safety kit complete with pump and hydraulic separator for ARES TEC 150 ErP		3.023645
Safety kit complete with pump and hydraulic separator for ARES TEC 200/250 ErP		3.023646
Safety kit complete with pump and hydraulic separator for ARES TEC 300/350 ErP		3.023647
Safety kit complete with pump and hydraulic separator for ARES TEC 440/550/660/770 ErP		3.023648
Safety kit complete with pump and hydraulic separator for ARES TEC 900 ErP		3.023649

Safety kit

To be mainly used when the pump is dimensioned by designer. The safety kit includes: pressure gauge with pipe damper and, manometer cock, thermometer, inspection openings, stub pipes G1 1/4" for inserting safety valves, safety thermostat, manual reset pressure switch for minimum pressure, additional stub pipe G1, safety pressure switch and differential flow switch.

The kit does not include the tested expansion tank, safety valve, drain valve and manometer, since these need to be sized according to the characteristics of the system.

Safety kit with filter for ARES TEC 150/200/250/300/350 ErP		3.023656
Safety kit with filter for ARES TEC 440/550/660/770 ErP		3.023657
Safety kit with filter for ARES TEC 900 ErP		3.023658

Hydraulic separator kit

To be mainly used when the pump is independently dimensioned by the designer.

Hydraulic separator for ARES TEC 150/200/250/300/350 ErP		3.023659
Hydraulic separator for ARES TEC 440/550/660/770/900 ErP		3.023660

Outdoor casing kit

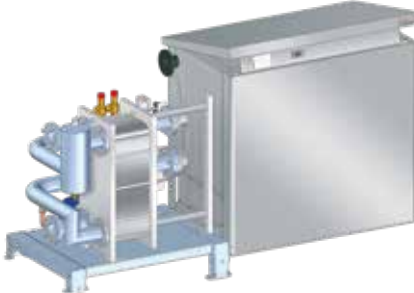
In case of outdoor installation of the safety kits and of the hydraulic separator with pump, appropriate casing kits are available to protect from the atmospheric agents.

Outdoor casing for safety kit and hydraulic separator for ARES TEC 150/200/250/300/350 ErP		3.023670
Outdoor casing for safety kit and hydraulic separator for ARES TEC 440/550/660/770/900 ErP		3.023671

For installation ARES TEC ErP with heat exchanger

Safety kit complete with pump and heat exchanger

The kit includes a 316 L stainless steel plate heat exchanger, a modulating pump class A, a 8 litres expansion vessel (150/350 kW versions) and 24 litres (440/900 kW versions), an automatic air vent, delivery/return pipe, a drain valve, flanges/adapters, connectors, adjustable support components and the following safety devices: 1 safety valve 5 bar (2 valves for models 660/770/900), 3-way drain valve ½", manometer and dumper tube for manometer, thermometer with trap, minimum pressure switch with manual reset, safety pressure switch, inspection thermostat, inspection opening, coupling M/F ½", paddle flow switch and stub pipes adapters.

Type		Art. no.
Safety kit complete with pump and plate heat exchanger for ARES TEC 150/200 ErP (right side)	 Ref. ARES TEC ErP 440-900	3.023650
Safety kit complete with pump and plate heat exchanger for ARES TEC 250/300/350 ErP (right side)		3.023651
Safety kit complete with pump and plate heat exchanger for ARES TEC 440/550 ErP (left side)		3.023652
Safety kit complete with pump and plate heat exchanger for ARES TEC 660 ErP (left side)		3.023653
Safety kit complete with pump and plate heat exchanger for ARES TEC 770 ErP (left side)		3.023654
Safety kit complete with pump and plate heat exchanger for ARES TEC 900 ErP (left side)		3.023655

Outdoor casing kit

In case of outdoor installation of the safety kit with pump and plate heat exchanger, casing kits are available to assure protection from atmospheric agents.

Outdoor casing for safety kit and plate heat exchanger for ARES TEC 150/200/250/300/350 ErP		3.023672
Outdoor casing for safety kit and plate heat exchanger for ARES TEC 440/550/660/770/990 ErP		3.023673

Condensate drain

Condensate neutralizer until 1500 kW. Granulate included.		3.023662
Granulate kit for condensate neutralizer (25 kg)		3.023663





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