CATALOGUE - PRICE LIST 2016

HIGH PERFORMANCE
CENTRAL HEATING SYSTEMS

'Maximum power, minimum space'

ADISA

HEATING SERIES BY HITECSA

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HIGH PERFORMANCE
CENTRAL-HEATING SYSTEMS

ADISA

HEATING SERIES BY HITECSA

INTRODUCTION

ADISA

HEATING SERIES BY HITECSA

Since 1961, **we have been leaders in the manufacture of high-performance gas boilers and pre-built packaged Roof Top, Mini Roof Top and Skid heat production units** in gas centralised installations. ADISA has its own Research and Development department, and its own 10,000 m^2 factory in Arenys de Mar, Barcelona. In July 2014, after its acquisition by Hitecsa, Adisa continues its commitment to offer high-performance energy solutions in the production of D.H.W. and heating.

ENERGY EFFICIENCY

RESPECT FOR THE ENVIRONMENT

COMPREHENSIVE SERVICE TO PROVIDE THE BEST HEATING SOLUTIONS

T

INNOVATION

RESEARCH AND DEVELOPMENT

SECTORS

We manufacture comprehensive heating systems, adapted solutions and high energy performance technical equipment for the following sectors:

HOTEL SECTOR

COMMERCIAL SECTOR

HEALTH SECTOR

RESIDENTIAL SECTOR

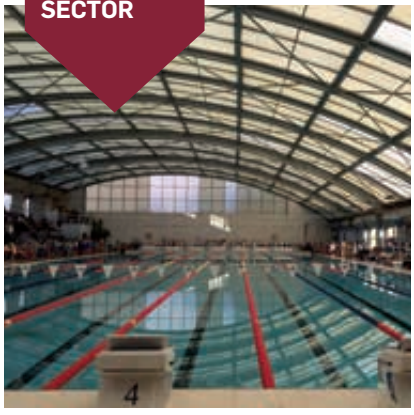
INDUSTRIAL SECTOR

SERVICE SECTOR

PUBLIC SECTOR

EDUCATION SECTOR

LEISURE-FITNESS SECTOR



COUNTRIES WITH ADISA INSTALLATIONS

Adisa develops comprehensive heating solutions in various countries such as:

SPAIN, ITALY, FRANCE, BELGIUM, PORTUGAL, UNITED KINGDOM, IRELAND, NORWAY, ROMANIA, BULGARIA, UKRAINE, CROATIA, RUSSIA, EGYPT, VENEZUELA, DOMINICAN REPUBLIC...

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HEATING SERIES BY HITECSA

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HIGH-PERFORMANCE BOILERS FOR CENTRALISED INSTALLATIONS

ADISA

HEATING SERIES BY HITECSA

1.1 ADI BOILERS

MAXIMUM ENERGY EFFICIENCY IN MINIMUM SPACE

EcoDesign ErP READY 2015

- Range: ADI CD (condensing), ADI LT (low temperature), ADI HT (high temperature).
- High energy performance, maximum seasonal performance.
- **Power between 70 and 904 kW.**
- Compliant with current regulations, and Eco-Design Directives.

CONDENSING **108%** SEASONAL PERFORMANCE ★★★★ **ADI CD**

LOW TEMPERATURE **104%** ref. to LCV EC CERTIFIED ★★★ **ADI LT**

VERY HIGH PERFORMANCE **97%** ref. to LCV EC CERTIFIED ★★★ **ADI HT**

MAXIMUM SEASONAL PERFORMANCE

- Minimal thermal loss when on standby:
  - **Double insulation:** on the body as well as in the casing (LT and CD ranges).
  - **Compact size:** minimal area for loss.
- Flow water temperature: constant or in relation to the outside temperature.
- Seasonal performance up to 108% (compliant with DIN 4708 part 8).

STANDARD MODULATING BURNER

- Variable speed fan (range maximum).
- Modulation from 30% of total power.
- Minimum electrical consumption, from 24 W.

Thermal requirements of the dwelling

Heat-generation system power

COMPACT DIMENSIONS AND REDUCED WEIGHT

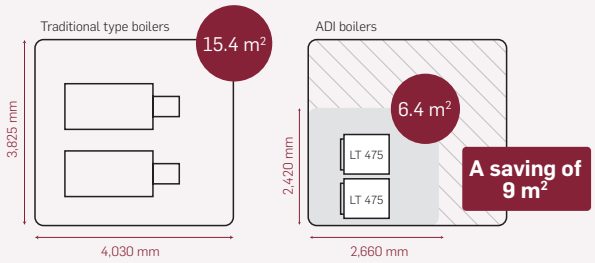
Smaller size boiler rooms.
Built-area saving.
Lower cost.

230 kW in < 0.3 m^2	464 kW in < 0.76 m^2
695 kW in < 1 m^2	904 kW in < 1.2 m^2

Enables conversions in locations with difficult access.

- Moved to final destination with a transpallets or similar vehicle.
- Cranes with a lower tare.
- Boilers up to 464 kW which enable access through doors, without the need to demolish walls, partitions...
- Thanks to their compact design they can be easily installed on roof-top terraces, in existing or new buildings.
- Frontal maintenance means a reduction in the side by side separation required between various boilers.

Simplifies conversion of old installations.



MINIMUM EMISSION OF CONTAMINANTS

Emissions below value limits of the Eco-Design regulation.

NOx class 5, NOx < 10 ppm	CO around 47 ppm

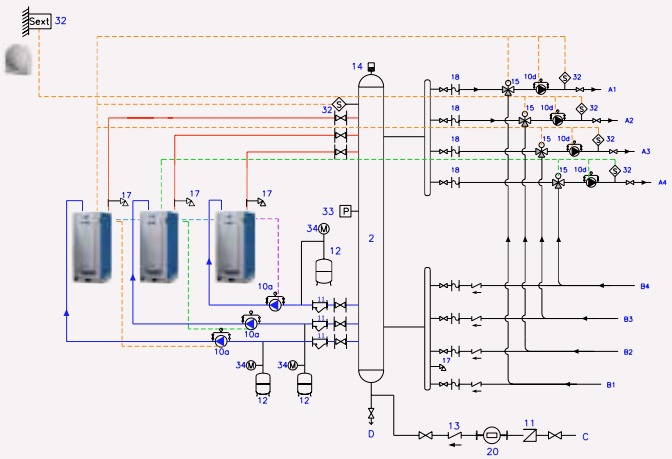
MAINTENANCE OPERATIONS SAVINGS

- Quick and easy maintenance.
- Less time required to extract the burner and check the combustion chamber.
- Uses the same setting and operational mode for both the 70 kW boiler and the 904 kW boiler.
- Many spare parts in common across the whole range.

COMPREHENSIVE ENERGY EFFICIENCY MANAGEMENT

Integrating into boilers joint control of generators, heating circuits and D.H.W., optimising the operation to achieve maximum energy efficiency as a whole.

- Cascaded boilers:
  - In relation to the installation requirements.
  - With boiler sequence inversion, to equate the number of working hours for each boiler.
- Control of heating circuits by:
  - 3-way valve control.
  - Pump circuit control.
  - Hourly/daily programming for each circuit.
  - Setpoint reduction (at night).
- Control of domestic hot water D.H.W.:
  - Setpoint temperatures D.H.W.
  - Antilegionella pasteurisation and frequency.



Stainless-steel modulating gas condensing boiler.

1.1.1 ADI CD

HIGH EFFICIENCY
IN MINIMUM SPACES

EcoDesign ErP READY 2015

CONDENSING 108% SEASONAL PERFORMANCE ★★★★ ADI CD

MAIN FEATURES

- Stainless-steel heat exchanger.
- Power rating ranging from 70 to 904 kW.
- Seasonal performance up to 108%.
- Includes modulating burner from 30% power:
  - Variable speed fan.
  - Modulating gas valve.
- Includes PID control for boiler management and power modulation.
- Control of domestic hot water (D.H.W.) production, and antilegionella pasteurisation programming.
- Digital screen (different languages) to view:
  - Operational information.
  - Error messages.

PRODUCT BENEFITS

- High performance and energy saving.
- EC-Certified.
- High corrosion resistance at high temperatures.
- Low noise level:
  - Variable speed fan.
  - Internal noise-insulating panels.
- Minimum electrical consumption, from 17 W.
- Ecological combustion NOx class 5.
  NOx < 10 ppm, CO around 47 ppm.
- Reduced and optimised weight and dimensions.
- Controllable from an external unit: 0...10 V.
- Compliant with Ecodesign directive (Erp Ready).

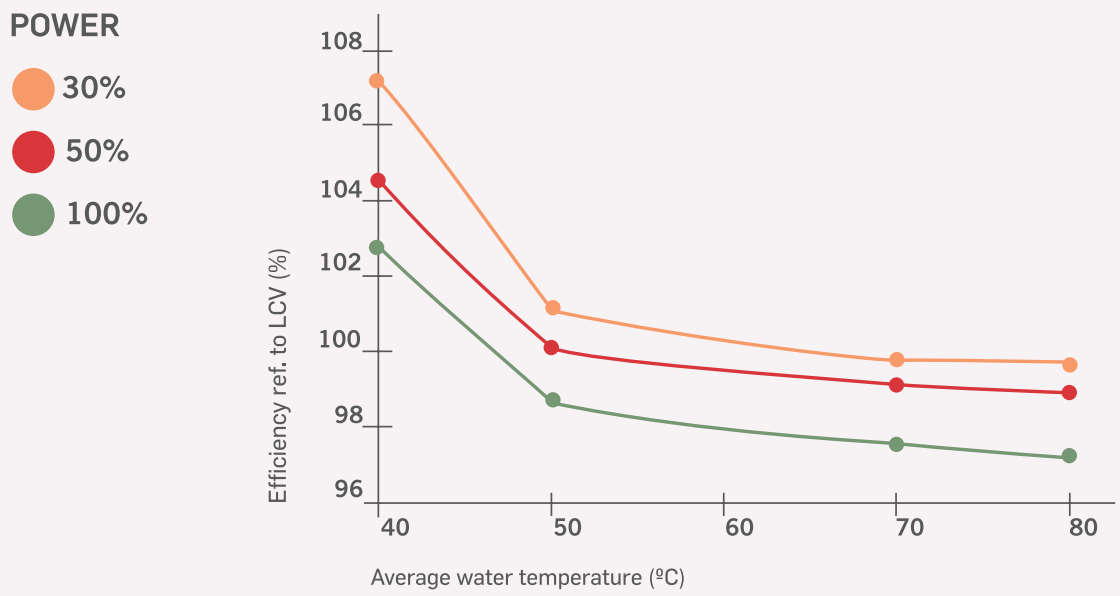
OPERATIONAL INFORMATION

- Water temperature:
  - Maximum discharge: nominal 86 °C (up to 90 °C).
  - Minimum return: NO LIMIT.
- Maximum water pressure: 5 bar.
- Natural gas: nominal: 20 mbar, range: 17 to 45 mbar (if lower: inquire).
- Propane gas: inquire.
- Electricity:
  - 230 V, 50 Hz, single phase + earthed.
  - Higher than 790 kW: 380 V, 50 Hz, three phase + earthed.

SAFETY

- Hydraulic:
  - Overheating.
  - Pressure.
  - Water flow.
- Gas:
  - Safety pressure switch.
  - Ionisation.
  - Double gas electric safety valve.
- Anti-freeze.

MAXIMUM OPERATING PERFORMANCE AT DIFFERENT LOAD CONDITIONS



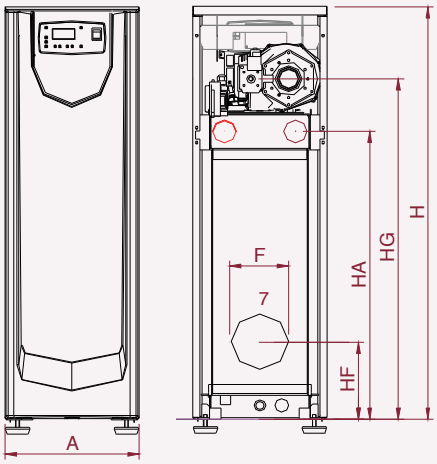
TECHNICAL SPECIFICATIONS

CODE	MODEL ADI CD	MAX. POWER OUTPUT T = 40 °C kW	MAX. POWER OUTPUT T = 70 °C kW	MIN. POWER OUTPUT T = 40 °C kW	WEIGHT WITHOUT WATER Kg	WATER VOLUME litres	R. R. P. €
508403	**70**	71.2	70.5	23.3	110	30	**4,579**
508404	**85**	86.1	85	27.5	116	33	**4,849**
508405	**105**	105.6	104	34	120	34	**5,256**
508408	**120**	121.3	120	39	135	34	**6,273**
508409	**175**	163.4	161.8	52.3	138	35	**7,750**
508410	**200**	204.5	197.5	63.1	330	86	**8,750**
508411	**250**	244.7	241	77.4	350	90	**10,045**
508412	**325**	302.6	294	94.4	440	112	**11,435**
508413	**375**	358.7	354	113.6	445	118	**13,962**
508414	**450**	443.5	440	141	460	118	**16,148**
508415	**550**	535.5	530	173.8 - 230.9 *	480	120	**19,027**
508416	**650**	605	598	195.2 - 259.4 *	485	120	**21,119**
508417	**750**	682.4	675	220.1 - 292.4 *	485	120	**22,818**
508492	**850**	802.1	792.7	256.1	545	164	**24,110**
508493	**950**	904.1	892.3	380.9	545	164	**25,419**

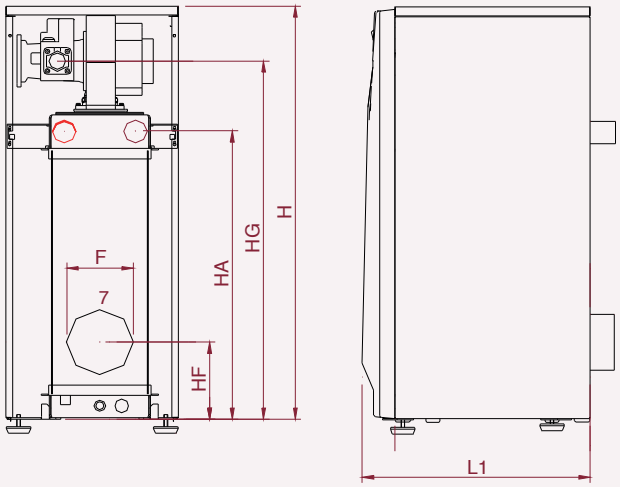
Commissioning is not included in the price. Please, consult our Commercial Department.
* Gas minimum power can be adjusted up to 30% in the commissioning, depending on the installation conditions.

OPTIMISED AND REDUCED DIMENSIONS

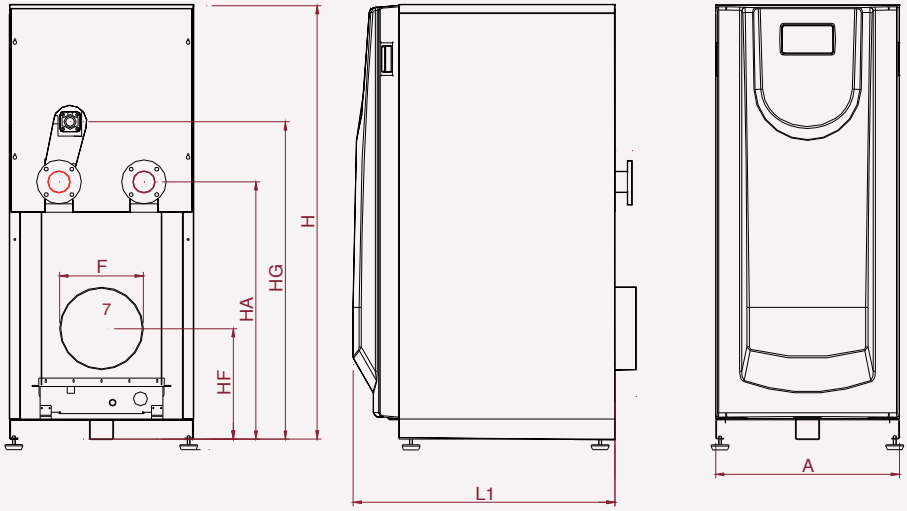
ADI CD 70 - 105



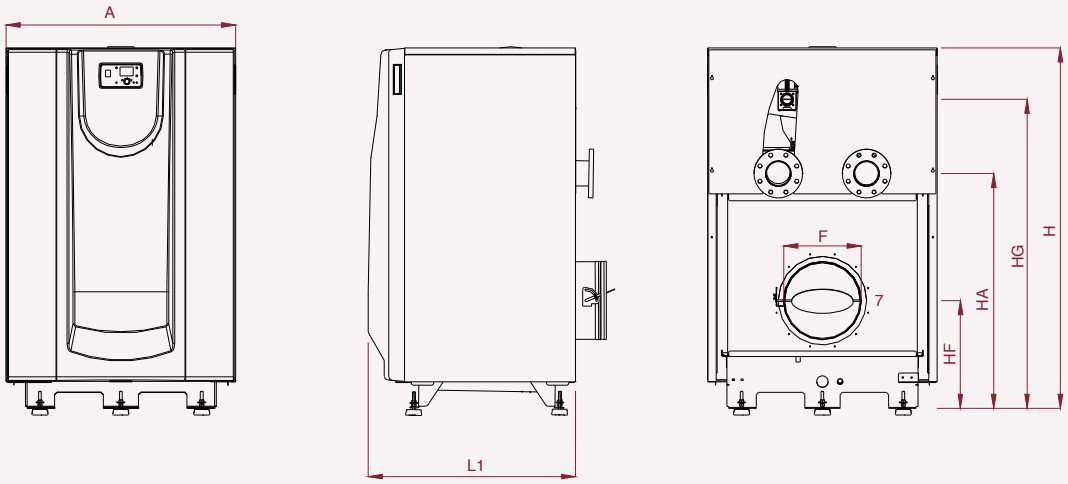
ADI CD 120 - 175



ADI CD 200 - 450



ADI CD 550 - 950



MODEL ADI CD	A mm	H mm	L1 mm	F 7 mm	HA mm	HF mm	HG mm
70	350	1,110	595	150	774	208	915
85	350	1,110	615	150	774	208	915
105	350	1,110	635	150	774	208	915
120	450	1,110	635	150	774	198	963
175	450	1,110	655	150	774	198	963
200	660	1,583	940	175	937	403	1,156
250	660	1,583	940	175	937	403	1,156
325	810	1,583	940	250	936	445	1,156
375	810	1,583	940	250	936	445	1,190
450	810	1,583	940	250	936	445	1,190
550	1,040	1,628	940	350	1,060	487	1,396
650	1,040	1,628	940	350	1,060	487	1,396
750	1,040	1,628	940	350	1,060	487	1,396
850	1,040	1,658	1,083	350	1,063	487	1,393
950	1,040	1,658	1,083	350	1,063	487	1,393

WATER AND GAS CONNECTIONS

MODEL ADI CD	WATER CONNECTION	GAS CONNECTION
70	2" (threaded)	3/4"
85 - 175		1"
200 - 450	2"1/2	1"1/4
550 - 950	4"	

FRONT AND REAR VIEWS

Models ADI CD 175 and below.

Models ADI CD 200 and above.

Low-temperature stainless-steel modulating gas boiler.

1.1.2 ADI LT

THE LOW TEMPERATURE BOILER WITH THE BEST PERFORMANCE

EcoDesign ErP READY 2015

LOW TEMPERATURE 104% ref.to LCV EC CERTIFIED ★★★ ADI LT

MAIN FEATURES

- Stainless-steel heat exchanger.
- Power rating ranging from 104 to 905 kW.
- Performance from 96 to 104% ref. to LCV.
- Includes modulating burner from 30% power.
  - Variable speed fan.
  - Modulating gas valve.
- Includes PID control for boiler management and power modulation.
- Control of domestic hot water (D.H.W.) production, and antilegionella pasteurisation programming.
- Digital screen (different languages) to view:
  - Operational information.
  - Error messages.

PRODUCT BENEFITS

- High performance and energy saving.
- EC-Certified.
- No minimum return temperature limit.
- High corrosion resistance at high temperatures.
- Low noise level:
  - Variable speed fan.
  - Internal noise-insulating panels.
- Minimum electrical consumption, from 24 W.
- Ecological combustion NOx class 5. NOx < 10 ppm, CO around 47 ppm.
- Reduced and optimised weight and dimensions.
- Controllable from an external unit: 0...10 V.
- Compliant with Ecodesign directive (Erp Ready).

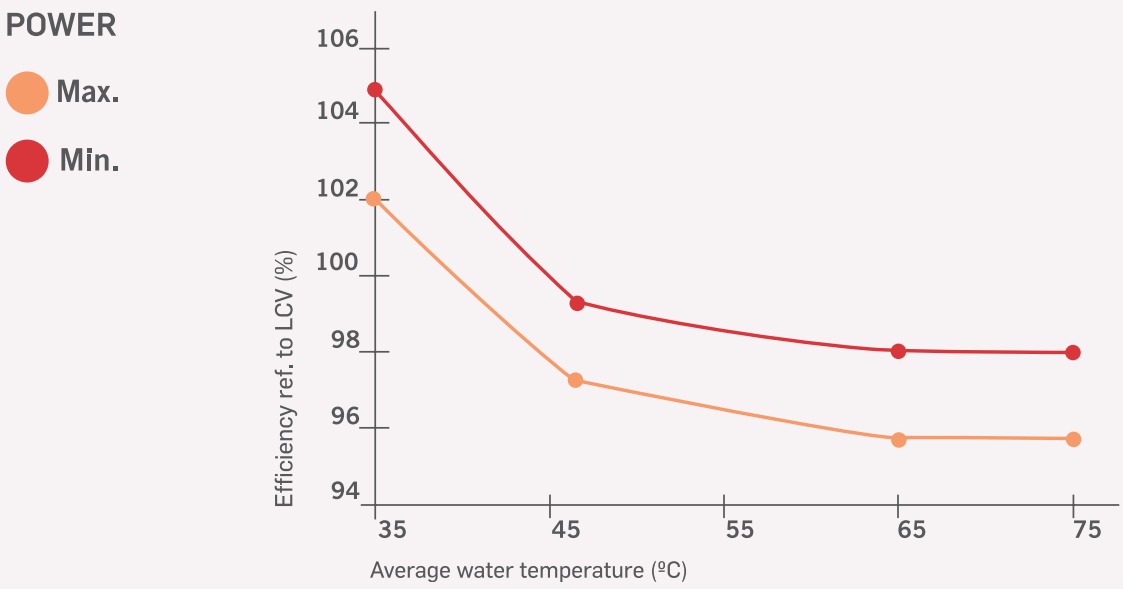
OPERATIONAL INFORMATION

- Water temperature:
  - Maximum discharge: nominal 86 °C (up to 90 °C).
  - Minimum return: NO LIMIT.
- Maximum water pressure: 5 bar.
- Natural gas: nominal: 20 mbar, range: 17 to 45 mbar (if lower: inquire).
- Propane gas: inquire.
- Electricity:
  - 230 V, 50 Hz, single phase + earthed.
  - Higher than 790 kW: 380 V, 50 Hz, three phase + earthed.

SAFETY

- Hydraulic:
  - Overheating.
  - Pressure.
  - Water flow.
- Gas:
  - Safety pressure switch.
  - Ionisation.
  - Double gas electric safety valve.
- Anti-freeze.

MAXIMUM OPERATING PERFORMANCE AT DIFFERENT LOAD CONDITIONS



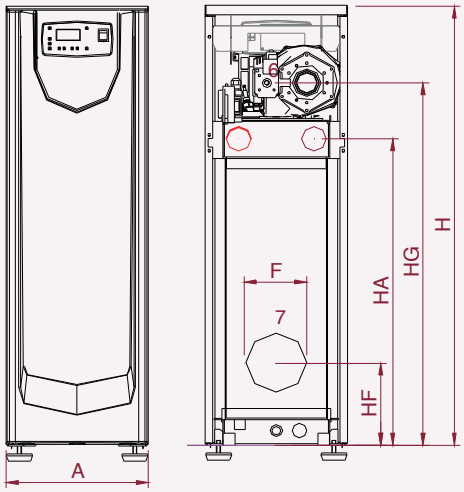
TECHNICAL SPECIFICATIONS

CODE	MODEL ADI LT	MAX. POWER OUTPUT T = 70 ºC kW	MIN. POWER OUTPUT T = 40 ºC kW	WEIGHT WITHOUT WATER Kg	WATER VOLUME litres	R. R. P. €
508431	**105**	104	34.4	110	30	**5,077**
508432	**130**	130	43.3	112	30	**6,071**
508443	**150**	149.3	49.3	123	33	**7,138**
508433	**200**	190	62.8	139	36	**7,514**
508490	**250**	230	76	330	76	**8,950**
508434	**275**	262	84.8	350	85	**9,450**
508435	**325**	322	104.9	440	99	**11,100**
508436	**400**	380	124.4	445	106	**11,700**
508437	**475**	464	151.8	460	118	**13,339**
508438	**550**	545	177.9 - 236.3 *	480	120	**15,850**
508439	**650**	616	200.7 - 266.6 *	485	120	**16,950**
508440	**750**	695	225.4 - 299.4 *	485	120	**18,514**
508441	**850**	804	259	545	164	**19,550**
508442	**950**	905	392.9	545	164	**20,960**

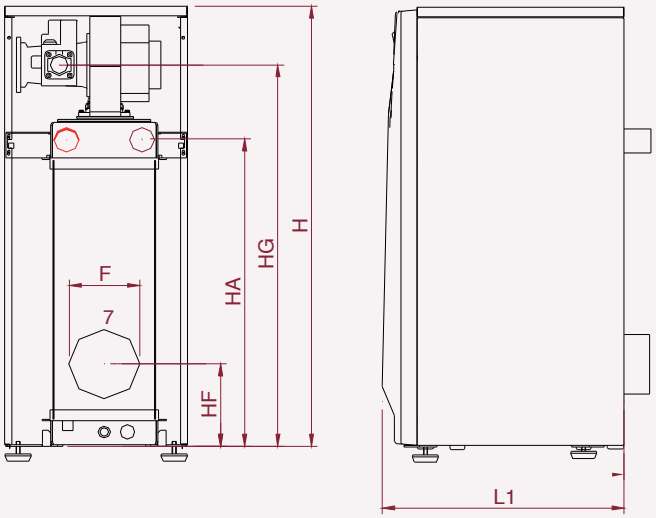
Commissioning is not included in the price. Please, consult our Commercial Department.
* Gas minimum power can be adjusted up to 30% in the commissioning, depending on the installation conditions.

OPTIMISED AND REDUCED DIMENSIONS

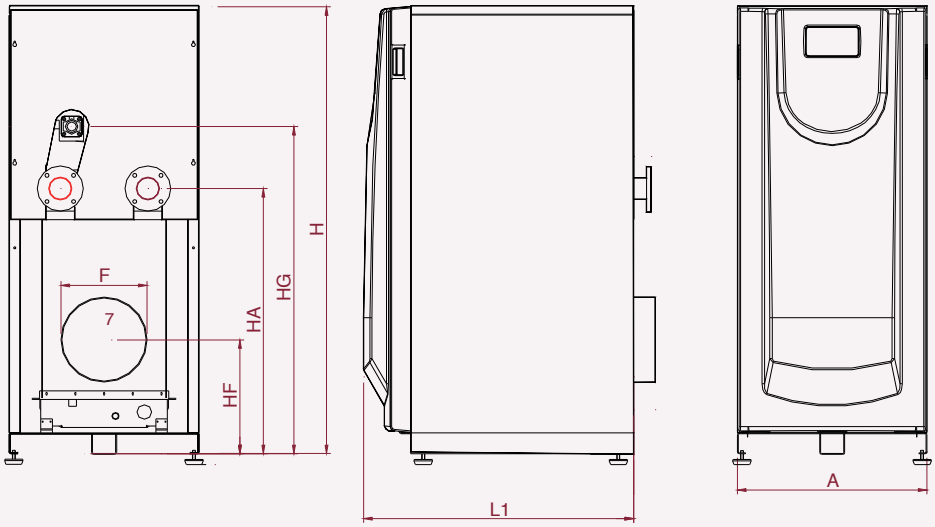
ADI LT 105



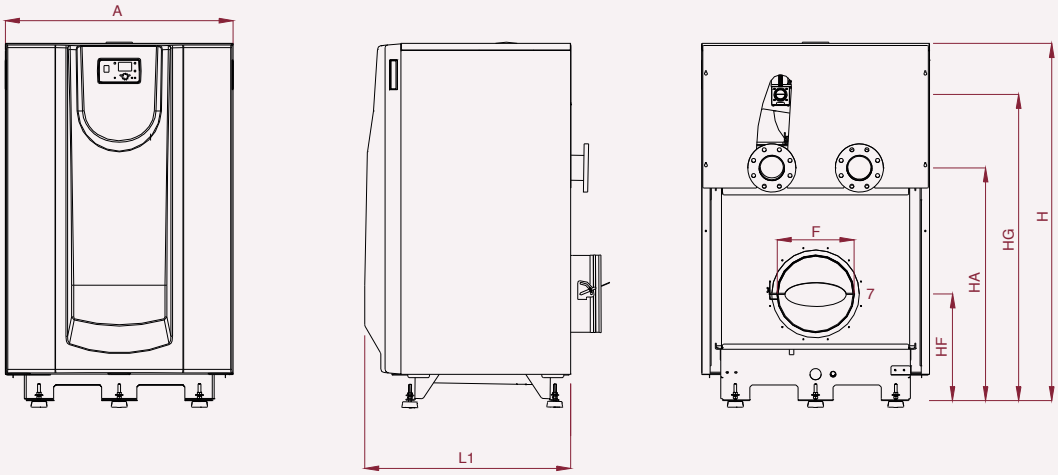
ADI LT 130 - 200



ADI LT 250 - 475



ADI LT 550 - 950



MODEL ADI LT	A mm	H mm	L1 mm	F 7 mm	HA mm	HF mm	HG mm
105	350	1,110	595	150	774	198	915
130	450	1,110	595	150	774	198	963
150	450	1,110	615	150	774	198	963
200	450	1,110	635	150	774	198	963
250	660	1,583	940	175	937	403	1,156
275	660	1,583	940	175	937	403	1,156
325	810	1,583	940	250	936	445	1,156
400	810	1,583	940	250	936	445	1,190
475	810	1,583	940	250	936	445	1,190
550	1,040	1,628	940	350	1,060	487	1,396
650	1,040	1,628	940	350	1,060	487	1,396
750	1,040	1,628	940	350	1,060	487	1,396
850	1,040	1,658	1,083	350	1,063	487	1,393
950	1,040	1,658	1,083	350	1,063	487	1,393

WATER AND GAS CONNECTIONS

MODEL ADI LT	WATER CONNECTION	GAS CONNECTION
105	2" (threaded)	3/4"
130 - 200		1"
250 - 475	2"1/2	1"1/4
550 - 950	4"	

FRONT AND REAR VIEWS

Models ADI LT 200 and below.

Models ADI LT 250 and above.

High temperature modulating gas boiler.

1.1.3 ADI HT

HIGHEST PERFORMANCE STANDARD

Boilers range just available for non-European countries.

VERY HIGH PERFORMANCE
97%
ref.to LCV
EC CERTIFIED
★★★
ADI HT

MAIN FEATURES

- Power rating ranging from 104 to 905 kW.
- Performance from 95 to 97% ref. to LCV.
- Includes modulating burner from 30% power:
  - Variable speed fan.
  - Modulating gas valve.
- Includes PID control for boiler management and power modulation.
- Control of domestic hot water (D.H.W.) production, and antilegionella pasteurisation programming.
- Digital screen (different languages) to view:
  - Operational information.
  - Error messages.

PRODUCT BENEFITS

- High performance and energy saving.
- EC-Certified.
- Low noise level:
  - Variable speed fan.
  - Internal noise-insulating panels.
- Minimum electrical consumption, from 24 W.
- Ecological combustion NOx class 5. NOx < 10 ppm, CO around 47 ppm.
- Reduced and optimised weight and dimensions.
- Controllable from an external unit: 0...10 V.

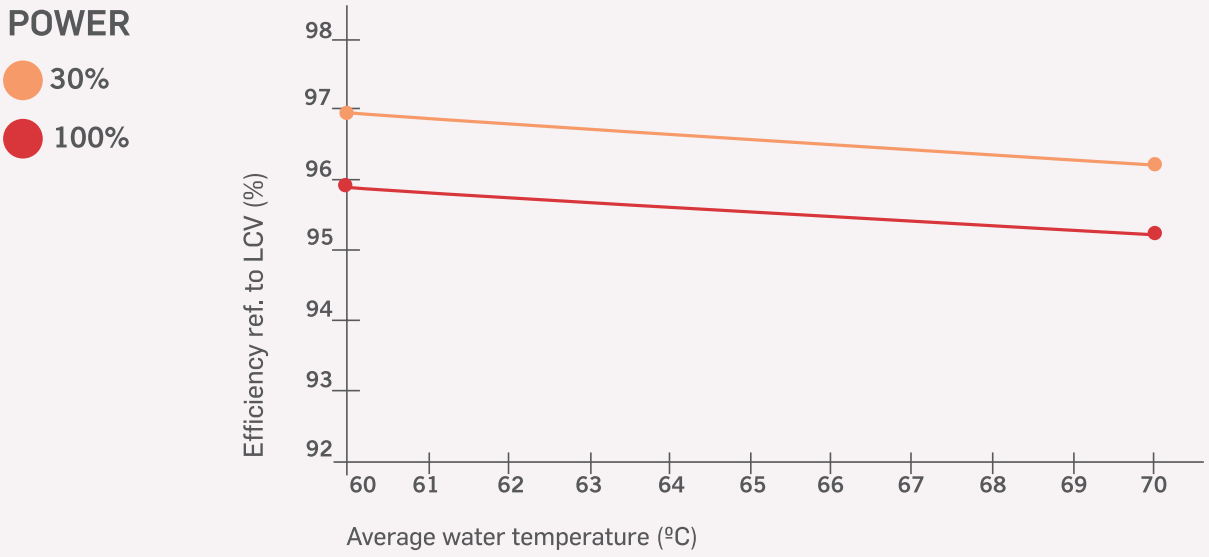
OPERATIONAL INFORMATION

- Water temperature:
  - Maximum discharge: nominal 86 °C (up to 90 °C).
  - Minimum return: 60 °C.
- Maximum water pressure: 5 bar.
- Natural gas: nominal: 20 mbar, range: 17 to 45 mbar (if lower: inquire).
- Propane gas: inquire.
- Electricity:
  - 230 V, 50 Hz, single phase + earthed.
  - Higher than 790 kW: 380 V, 50 Hz, three phase + earthed.

SAFETY

- Hydraulic:
  - Overheating.
  - Pressure.
  - Water flow.
- Gas:
  - Safety pressure switch.
  - Ionisation.
  - Double gas electric safety valve.
- Anti-freeze.

MAXIMUM OPERATING PERFORMANCE AT DIFFERENT LOAD CONDITIONS



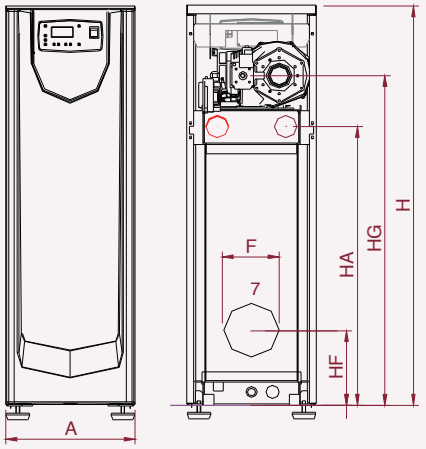
TECHNICAL SPECIFICATIONS

CODE	MODEL ADI HT	MAX. POWER OUTPUT T = 70 ºC kW	MIN. POWER OUTPUT T = 60 ºC kW	WEIGHT WITHOUT WATER Kg	WATER VOLUME litres	R. R. P. €
508418	**105**	104	31.9	110	30	**4,661**
508419	**130**	130	40	112	30	**5,626**
508420	**150**	149.3	45.7	123	33	**6,582**
508421	**200**	190	58.5	139	36	**7,102**
508422	**250**	230	70.3	330	76	**8,544**
508491	**275**	262	80.1	350	85	**8,950**
508423	**325**	322	98.4	440	99	**10,400**
508424	**400**	380	116	445	106	**11,150**
508425	**475**	464	141.6	460	118	**12,355**
508426	**550**	545	166.9 - 222.5 *	480	120	**14,750**
508427	**650**	616	187.7 - 250.2 *	485	120	**16,176**
508428	**750**	695	211.1 - 281.5 *	485	120	**16,995**
508429	**850**	804	244.5	545	164	**17,600**
508430	**950**	905	367.7	545	164	**18,500**

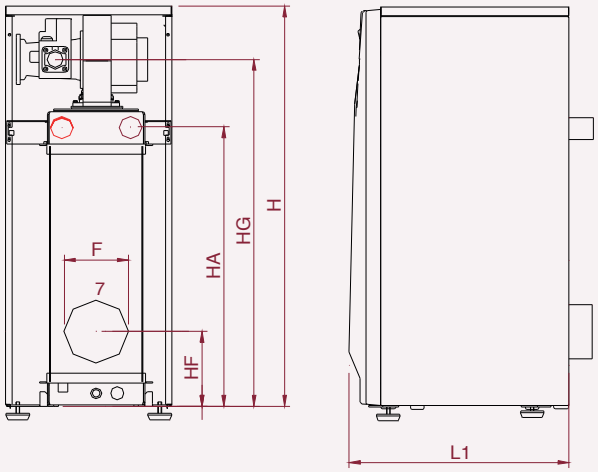
Commissioning is not included in the price. Please, consult our Commercial Department.
* Gas minimum power can be adjusted up to 30% in the commissioning, depending on the installation conditions.

OPTIMISED AND REDUCED DIMENSIONS

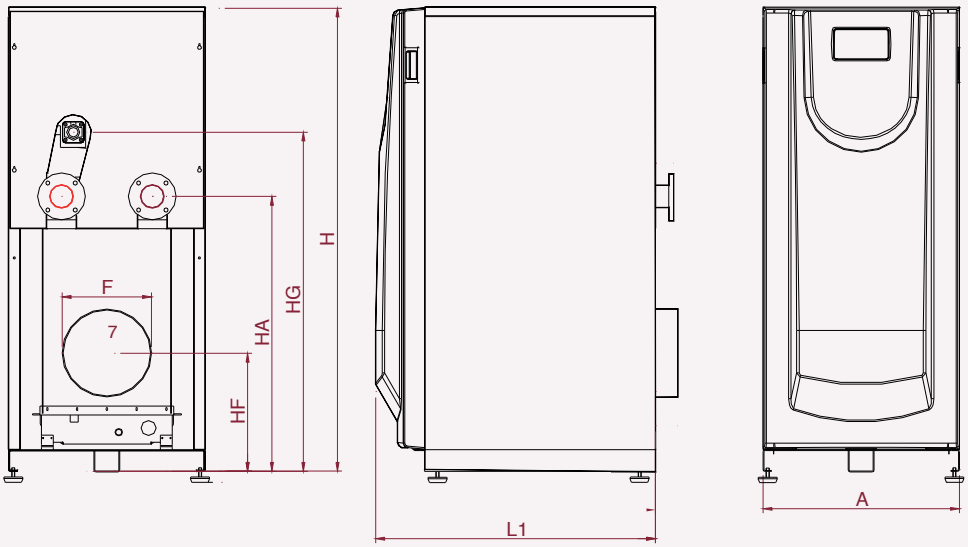
ADI HT 105



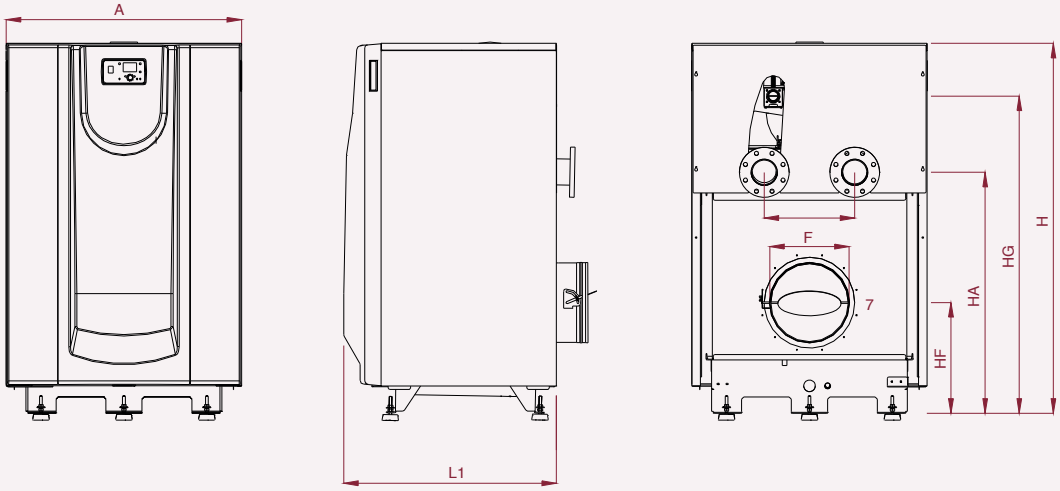
ADI HT 130 - 200



ADI HT 250 - 475



ADI HT 550 - 950



MODEL ADI HT	A mm	H mm	L1 mm	F 7 mm	HA mm	HF mm	HG mm
105	350	1,110	595	150	774	198	915
130	450	1,110	595	150	774	198	963
150	450	1,110	615	150	774	198	963
200	450	1,110	635	150	774	198	963
250	660	1,583	940	175	937	403	1,156
275	660	1,583	940	175	937	403	1,156
325	810	1,583	940	250	936	445	1,156
400	810	1,583	940	250	936	445	1,190
475	810	1,583	940	250	936	445	1,190
550	1,040	1,628	940	350	1,060	487	1,396
650	1,040	1,628	940	350	1,060	487	1,396
750	1,040	1,628	940	350	1,060	487	1,396
850	1,040	1,658	1,083	350	1,063	487	1,393
950	1,040	1,658	1,083	350	1,063	487	1,393

WATER AND GAS CONNECTIONS

MODEL ADI HT	WATER CONNECTION	GAS CONNECTION
105	2" (threaded)	3/4"
130 - 200		1"
250 - 475	2"1/2	1"1/4
550 - 950	4"	

FRONT AND REAR VIEWS

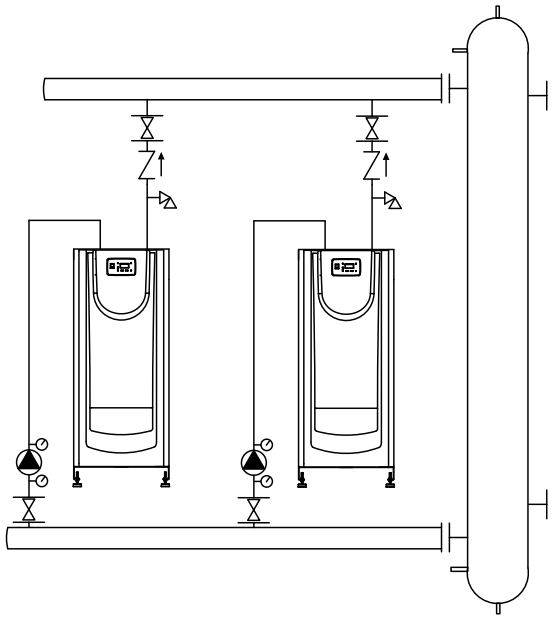
Models ADI HT 200 and below.

Models ADI HT 250 and above.

ADI boiler accessories.

1.1.4 ACCESSORIES

NEW



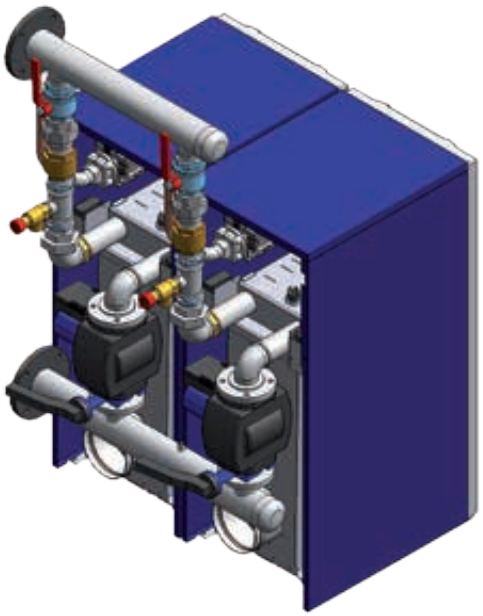
HYDRAULIC KIT FOR 1-2 ADI BOILERS

CHARACTERISTICS

- Complete kit of materials prepared for quick and easy installation.
- Simplifying hours of installation.
- Compatible with the vertical header kit.

INCLUDES

- Hydraulic flow-return header. Insulated.
- Boiler pump: high efficiency and variable speed (complies with Eco-Design directive).
- Boiler shut-off valve.
- Overpressure safety valve per boiler (4-bar).
- Non-return valve per boiler.



CODE	MATERIAL	DESCRIPTION	R. R. P. €
102756	**HYDRAULIC KIT 1**	For 1 or 2 boilers, models: · Up to 1 ADI CD 175 or ADI LT 200 boiler · Up to 2 ADI CD 175 or ADI LT 200 boilers Hydraulic headers: 3" (compatible with 6" vertical low loss header).	6,161
102757	**HYDRAULIC KIT 2**	For 1 or 2 boilers, models: · Up to 1 ADI CD 450 or ADI LT 475 boiler · Up to 2 ADI CD 450 or ADI LT 475 boilers Hydraulic headers: 4" (compatible with vertical low loss header).	7,542

The materials are supplied packaged and unassembled. Assembly to be carried out by customer.

VERTICAL LOW LOSS HEADER FOR 2 ADI BOILERS

CHARACTERISTICS

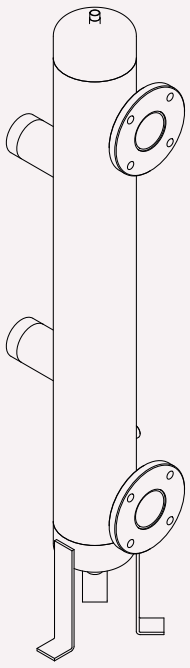
- Common vertical low loss header for 1 or 2 ADI boilers.

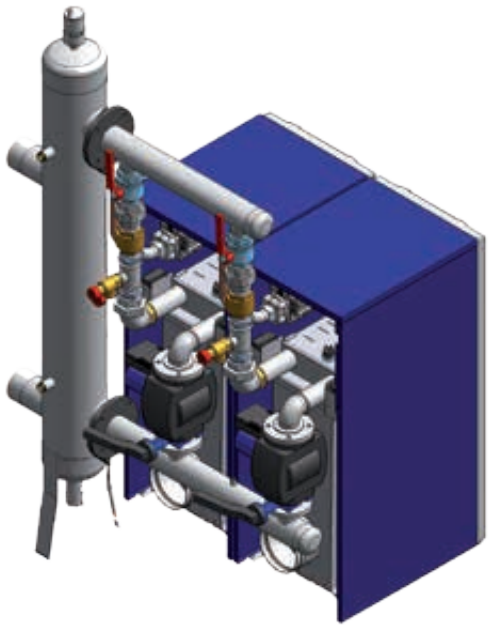
INCLUDES

- Thermal insulation.
- 2 water connections, boiler part.
- 2 water connections, circuit part.
- Sleeves to connect: sensors, thermometers, pressure switches, air venting, emptying valve (materials not included).
- Compatible with hydraulic kits (see previous).
- Facilitates degassing.

CODE	MATERIAL	DESCRIPTION	R. R. P. €
102758	**6" VERTICAL LOW LOSS HEADER**	For 1 or 2 boilers, models: · Up to 1 ADI CD 175 or ADI LT 200 boiler · Up to 2 ADI CD 175 or ADI LT 200 boilers Connections to boilers: 3" (flanges), (compatible with hydraulic kit). Connections to circuit: 3" (threaded).	**835**
102759	**12" VERTICAL LOW LOSS HEADER**	For 1 or 2 boilers, models: · Up to 1 ADI CD 450 or ADI LT 475 boiler · Up to 2 ADI CD 450 or ADI LT 475 boilers Connections to boilers: 4" (flanges), (compatible with hydraulic kit). Connections to circuit: 4" (threaded).	**1,474**

6" VERTICAL LOW LOSS HEADER





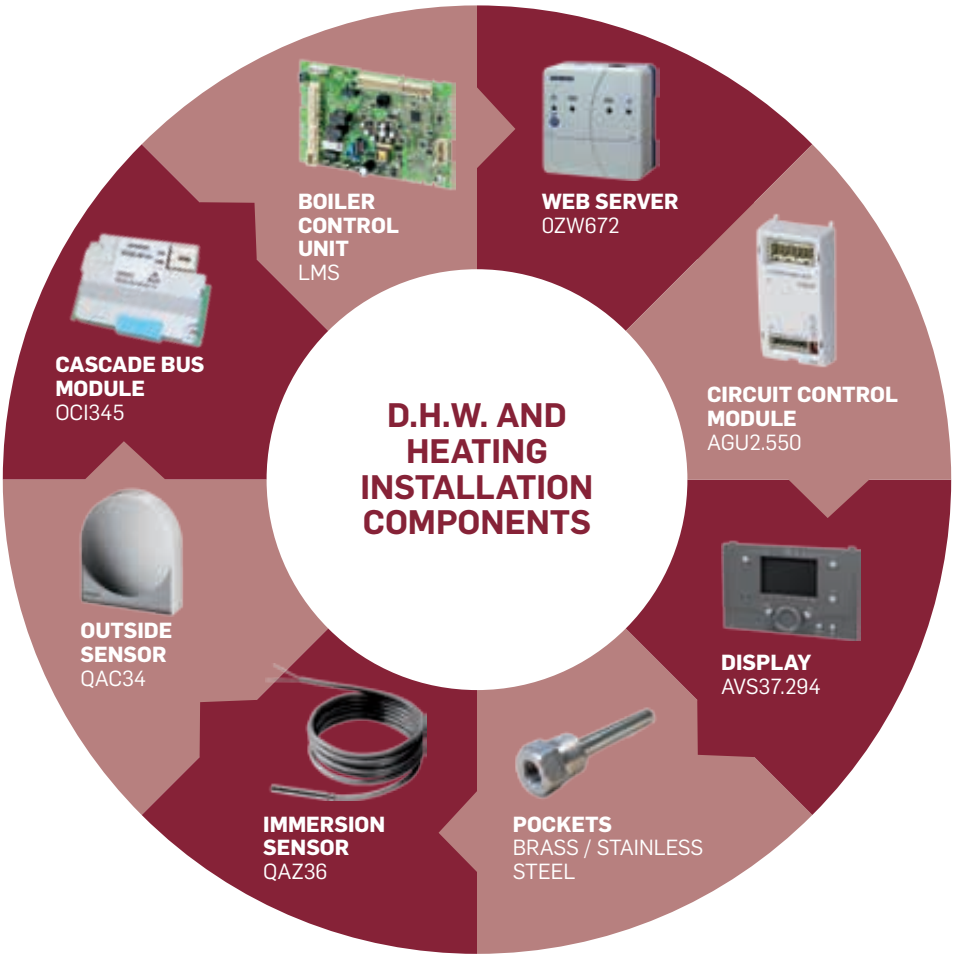
Regulation and control add-ons for ADI CD, ADI LT an ADI HT boilers.

1.1.5 REGULATION AND CONTROL

OVERALL ENERGY EFFICIENCY MANAGEMENT

The ADI boiler includes an advance control that manages the overall operation of the installation, optimising energy performance and reducing fuel consumption:

- Integrated boiler, installation and circuit control.
- Maximum savings and energy efficiency system.
- Integrated master-slave type boiler sequence.
- Continually adapts to power requirements of the installation.
- Controls the water temperature for the different circuits and requirements.
- Controls heating circuits (pump and mixing valve).
- Production of domestic hot water and antilegionella protection.



CONTROLS INCLUDED AS STANDARD IN THE BOILER

CONTROL	DESCRIPTION	SEE PAGE
LMS CONTROL UNIT	The control panel of the boiler is located in its upper front part.	28
MANAGING THE BOILER THROUGH AN EXTERNAL CONTROL UNIT	Each boiler includes a terminal block which allows a 0... 10 V analogue signal.	28

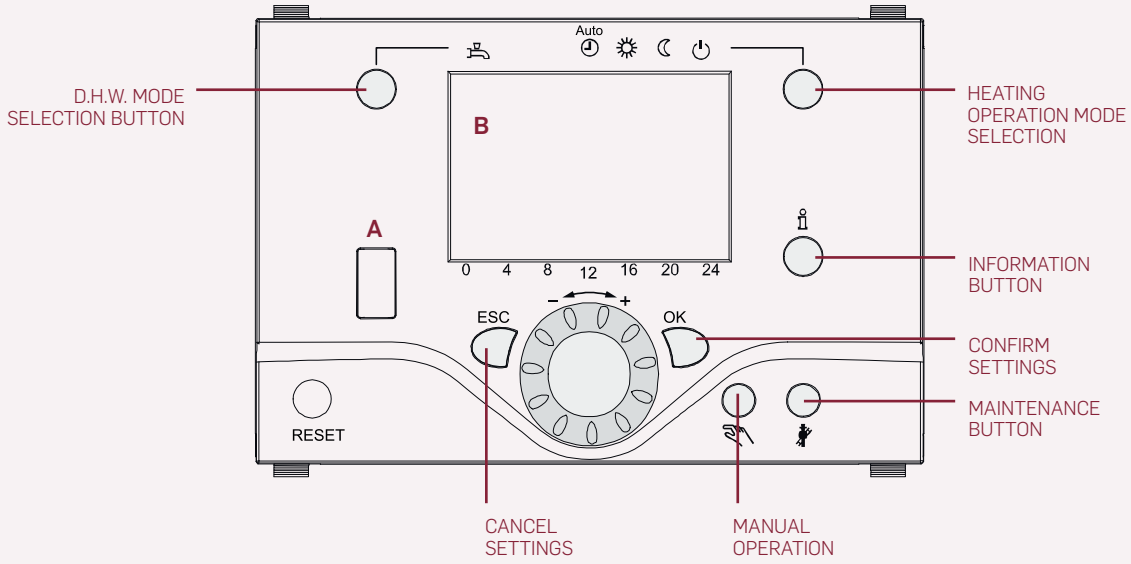
OPTIONAL ITEMS

CODE	MATERIAL	DESCRIPTION	R.R.P. €	SEE PAGE
100809	**CASCADE/SEQUENCE BOILER KIT**	Module **OCI345** for cascaded boilers, with cable and connector (1 per boiler)	**129**	29
100036	**FIRST HEATING CIRCUIT KIT**	Module **AGU2.550** to control a heating circuit (mixing valve and circulation pump). Includes bus cable **AGU2.110** (code 100265) between the boiler and the extension modules and connectors. Temperature sensors not included.	**245**	30
102173	**ADDITIONAL HEATING CIRCUIT KIT**	Module **AGU2.550** to control a heating circuit (mixing valve and circulation pump) with connectors. Temperature sensors not included.	**215**	30
100367	**OUTSIDE TEMPERATURE SENSOR**	Outside temperature sensor model **QAC34** with temperature range -50...70 °C with connector (1 x installation or set).	**33**	32
102174	**FLUES TEMPERATURE SENSOR**	Fume temperature sensor with sensor element **NTC10k** and temperature range 0... 200 °C and 1m long cable, with connector and threaded piece included to install in the boiler fume outlet.	**133**	32
100113	**IMMERSION TEMPERATURE SENSOR**	Immersion temperature sensor model **QAZ36** with sensor element **NTC10k** and temperature range 0...95 °C, 2m long cable and connector (immersion pocket not included).	**25**	32
102162	**100mm BRASS POCKET**	100mm-long chrome plated brass pocket with 1/2" thread for the temperature sensor.	**21**	32
102165	**150mm BRASS POCKET**	150mm-long chrome plated brass pocket with 1/2" thread for the temperature sensor.	**24**	32
101719	**100mm STAINLESS-STEEL POCKET**	100mm-long stainless-steel pocket with 1/2" thread for temperature sensor.	**68**	32
102760	**WEB SERVER 1 BOILER**	1 boiler and circuits.	**857**	38
102334	**WEB SERVER 4 BOILERS**	Up to 4 boilers and circuits.	**1,383**	38
102761	**WEB SERVER 16 BOILERS**	Up to 16 boilers and circuits.	**1,912**	38

LMS CONTROL UNIT

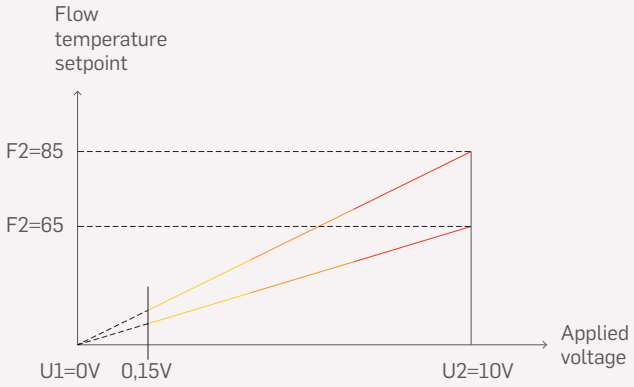
- Standard in all ADI boilers.
- Quick and easy operation via the rotary knob.
- Quick access to the main parameters.
- Text message reading.
- Control: cascaded boilers and circuits (heating, D.H.W.).
- Operation and state: boiler and circuits.
- Allows external signal: 0...10 V, without extra module.
- History of the last 20 blockages (lack of gas...).

A BOILER START/STOP SWITCH **B** SCREEN: READINGS, MESSAGES, ERRORS...



MANAGING THE BOILER THROUGH AN EXTERNAL CONTROL UNIT

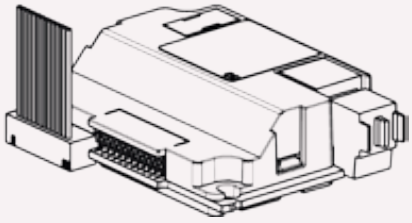
- Standard in all ADI boilers.
- Every boiler includes an analogue signal input of 0... 10 V for an external signal provided by a centralised control (or remote management).
- The signal manages the boiler or cascaded boilers setpoint temperature.
- Adjustable curve/slope of the flow temperature setpoint according to voltage applied.



CASCADE/SEQUENCE BOILER KIT

Module OCI345 for cascaded boilers, with cable y connector (1 per boiler).

- Adapts the power needed by the installation at any given time.
- Optimises the boilers' operation to always obtain the maximum performance.



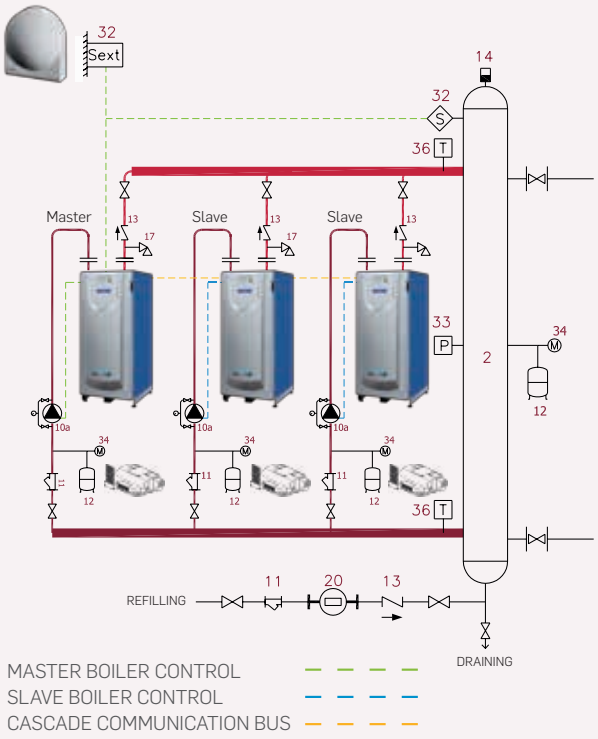
System drawing, example 1:

MANAGING VARIOUS BOILERS (SEQUENCE)

- Managing the boiler activation sequence.
- Boiler power modulation, optimising use and performance.
- Boiler sequence inversion, to equate the number of working hours per year.
- Option: if a boiler stops due to lack of demand, the boiler pump (10a) stops a few minutes later.

Options:

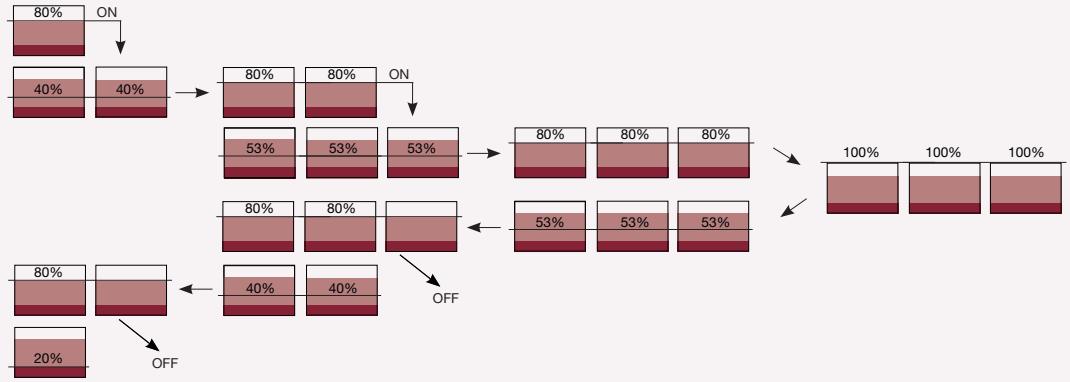
- **ADI CD** and **ADI LT:** Variable flow temperature depending on outside temperature (add outside sensor).
- **ADI HT:** constant flow temperature, without outside sensor.



Example of boiler power modulation and sequence (3 boilers installation)

Manages the longest boiler operating period at the minimum power to obtain:

- the maximum seasonal performance.
- the maximum fuel and economic savings.
- reduction of contaminating emissions.



HEATING CIRCUITS KIT

FIRST HEATING CIRCUIT KIT

Module AGU2.550 to control a heating circuit (mixing valve and circulation pump).
Includes bus cable AGU2.110 between the boiler and the extension modules and connectors. Sensors not included.

- Each boiler can control of 3 heating circuits with the three-way valve and circulation pump:
  - Control of the three-way valve and pump per circuit.
  - Operating times and vacations programmes per circuit.
  - Discharge temperature fixed or set in relation to outside conditions.
  - Winter-summer change, economy mode, anti-freeze, other functions...

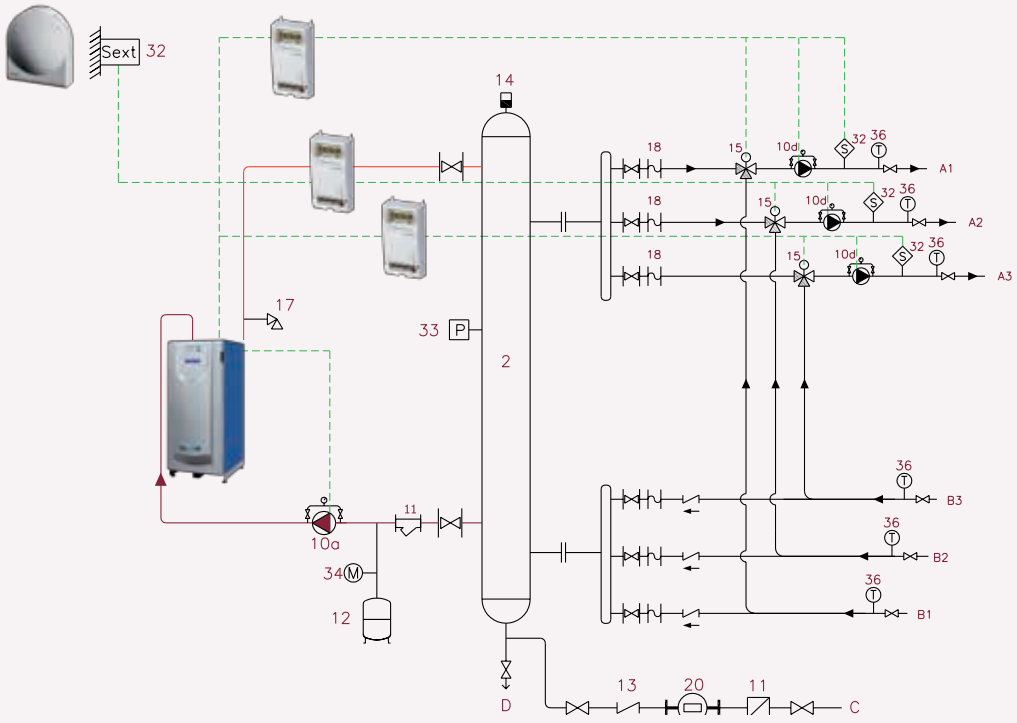
The three-way valve control signal has 3 positions, 230V and 50Hz.

ADDITIONAL HEATING CIRCUIT KIT

Module AGU2.550 to control a heating circuit (mixing valve and circulation pump) with connectors. Sensors not included.

The second and third heating circuit, controlled from the boiler, use the same bus cable received with the first heating circuit kit. In this case, only the additional heating circuit kit is required.

The electric box inside each boiler has space and connectors available to connect up to 3 control kits per boiler for heating circuits.



System drawing, example 2:

BOILER MANAGEMENT AND TWO HEATING CIRCUITS + D.H.W.

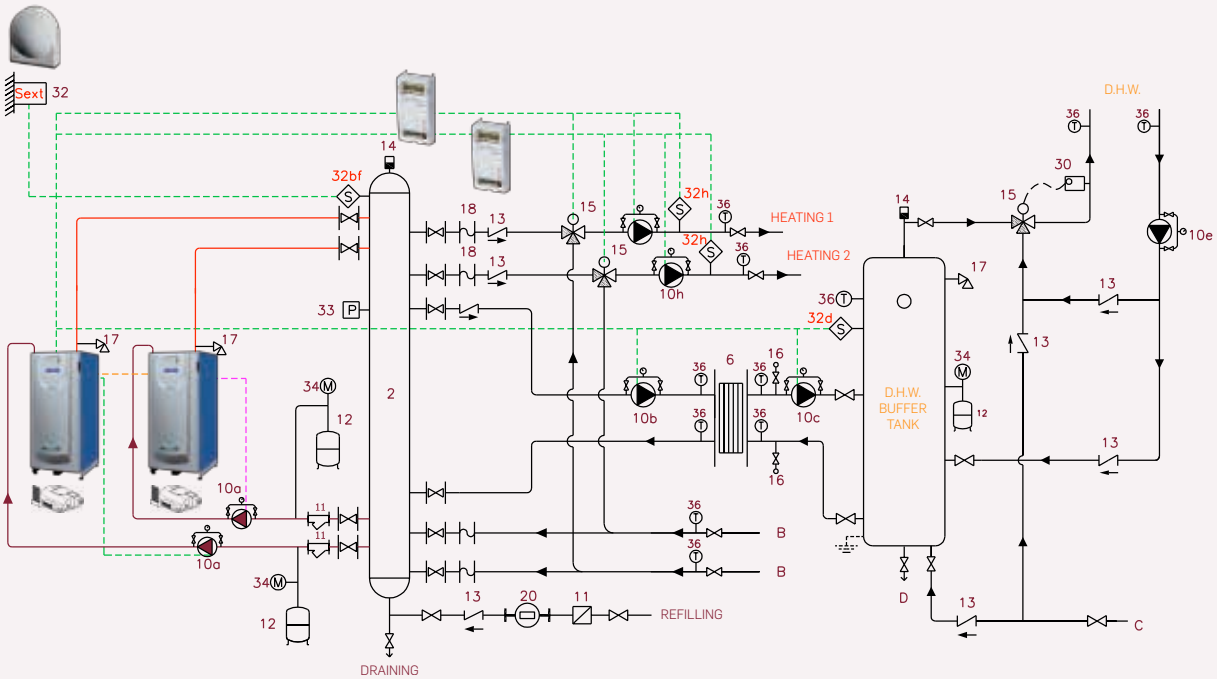
Joint optimised management for boilers and circuits, to achieve maximum performance throughout the year.

- Application examples
  - Hotel with D.H.W. storage, housing community, hospital, etc.
  - Consult our Technical Department on the application of this schematic according to the type of installation and consumption: installations with little D.H.W. storage or instant production...
  - The boiler temperature setpoint (32bf) is obtained from the maximum setpoint of the various circuits managed.

- Heating
  - When there is no D.H.W. consumption (buffer tank to required temperature, 32d), the boilers' temperature setpoint (32bf) will be similar (adjustable value) to the heating circuits (32h).
  - In the months with less heating demand, the required heating temperature (32h) is low and, consequently, the boilers' temperature setpoint will be lower, increasing their performance. Applicable for: ADI LT and ADI CD.

- D.H.W.
  - When there is domestic hot water (D.H.W.) consumption, the boilers' temperature setpoint (32bf) changes to a higher value (adjustable) in compliance to the current antilegionella regulation.
  - The three-way heating valve adjusts the temperature suitable (32h) for use and demand.

- The control unit can be used for:
  - Programming the pasteurisation of the legionella (in production) and its duration.
  - Starting/Stopping D.H.W. production pumps.



FLOW TEMPERATURE IN RELATION TO THE OUTSIDE TEMPERATURE

OUTSIDE TEMPERATURE SENSOR KIT

Outside temperature sensor model QAC34 with temperature range -50...70 ºC with connector (1 x installation or set).

- Only applicable for low temperature and/or condensing boilers.
- If the installation has only one boiler, an outside sensor must be obtained in order for the flow temperature to relate to the outside. If there are several boilers, connect to the master boiler.
- This saves energy and fuel during the heating season thanks to automatic boiler control, that adjusts both the power (depending on consumption) and the flow temperature (depending on outside temperature).

Sensor QAC34

TEMPERATURE READING AND INSTALLATION ACCESSORIES

FLUES TEMPERATURE SENSOR KIT

Flues temperature sensor with sensor element NTC10k and temperature range 0... 200 ºC and 1m-long cable, with connector and threaded piece included to install in the flues outlet of the boiler.

OUTSIDE TEMPERATURE SENSOR KIT

Outside temperature sensor model QAC34 with temperature range -50...70 ºC with connector (1 x installation or set).

IMMERSION TEMPERATURE SENSOR KIT

Immersion temperature sensor model QAZ36 with element NTC10k and temperature range 0...95 ºC, 2m-long cable and connector (immersion pocket not included).

100mm BRASS POCKET

100 mm-long chrome plated brass pocket with 1/2" thread for the temperature sensor.

150mm BRASS POCKET

150 mm-long chrome plated brass pocket with 1/2" thread for the temperature sensor.

100mm STAINLESS-STEEL POCKET

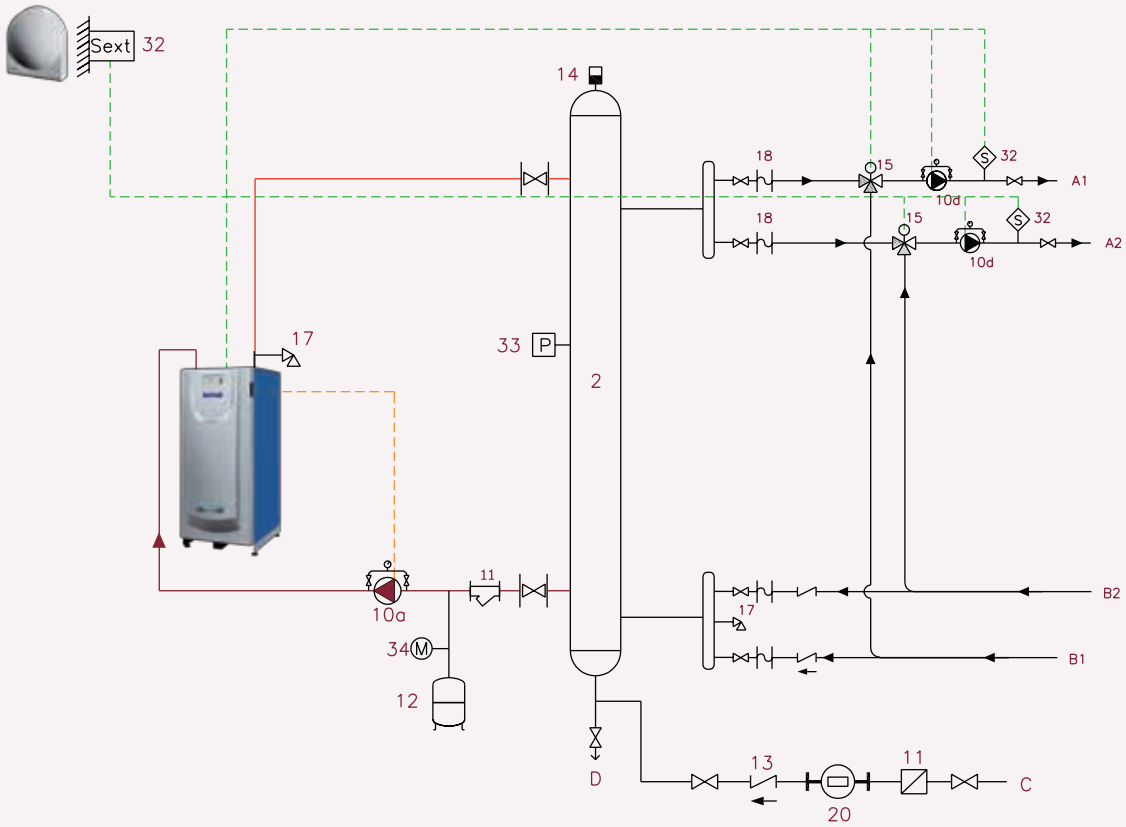
100 mm-long stainless-steel pocket with 1/2" thread for the temperature sensor.

Choose the required sensor pockets depending on the number of circuits and use (D.H.W. stainless steel pockets).

Sensor QAZ36

Examples of circuit accessories selection

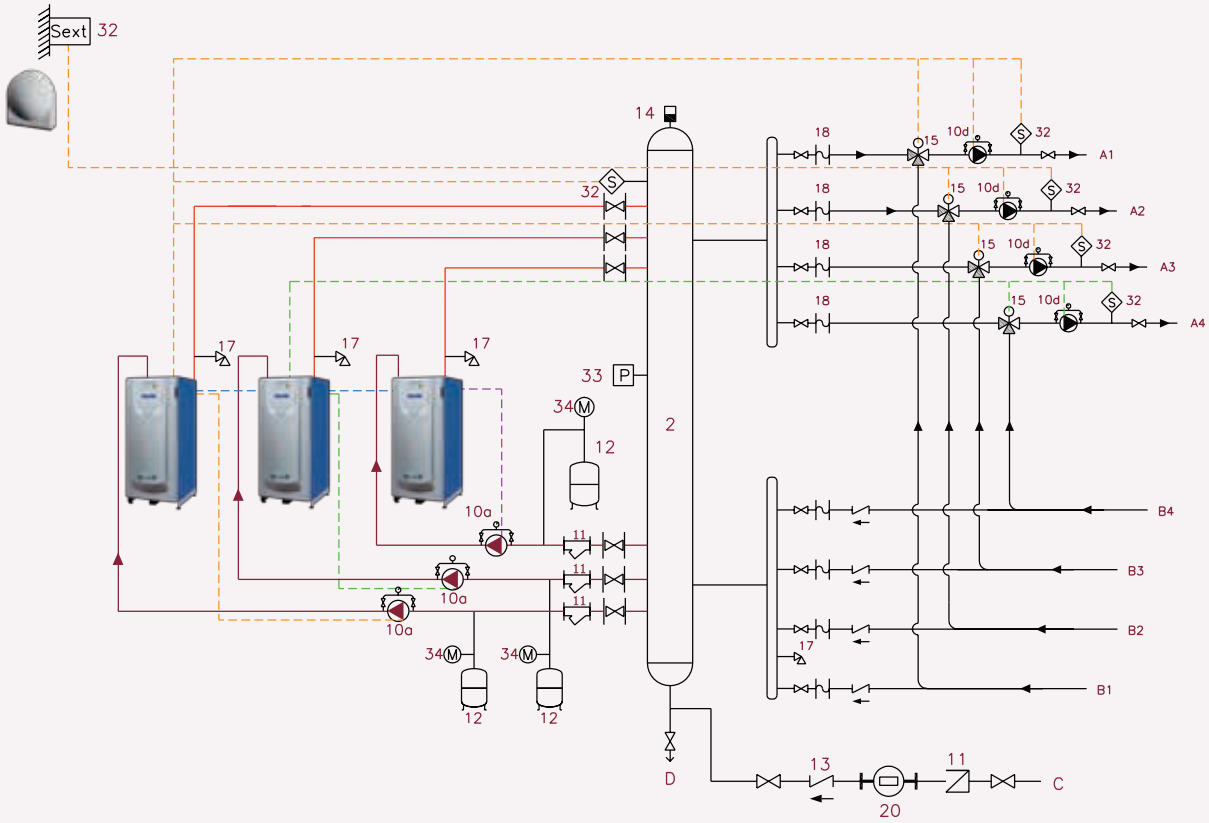
1 BOILER WITH 2 MIXING HEATING CIRCUITS



UNITS	REFERENCE	DESCRIPTION
1	**BOILER**	ADI boiler + common/inertia header.
1	**FIRST HEATING CIRCUIT KIT**	Module AGU2.550 to control a heating circuit (mixing valve and pump). Includes bus cable (AGU2.110) between boiler, modules and connectors. Temperature sensors not included.
1	**ADDITIONAL HEATING CIRCUIT KIT**	Module AGU2.550 to control a heating circuit (mixing valve and pump) with connectors. Temperature sensors not included.
2	**IMMERSION TEMPERATURE SENSOR KIT**	Immersion temperature sensor model QAZ36 with element sensor NTC10k and temperature range 0...95 °C and 2m-long cable and connector (immersion pocket not included).
1	**OUTSIDE TEMPERATURE SENSOR KIT**	Outside temperature sensor model QAC34 with temperature range -50...70 °C with connector (1 x installation or set).

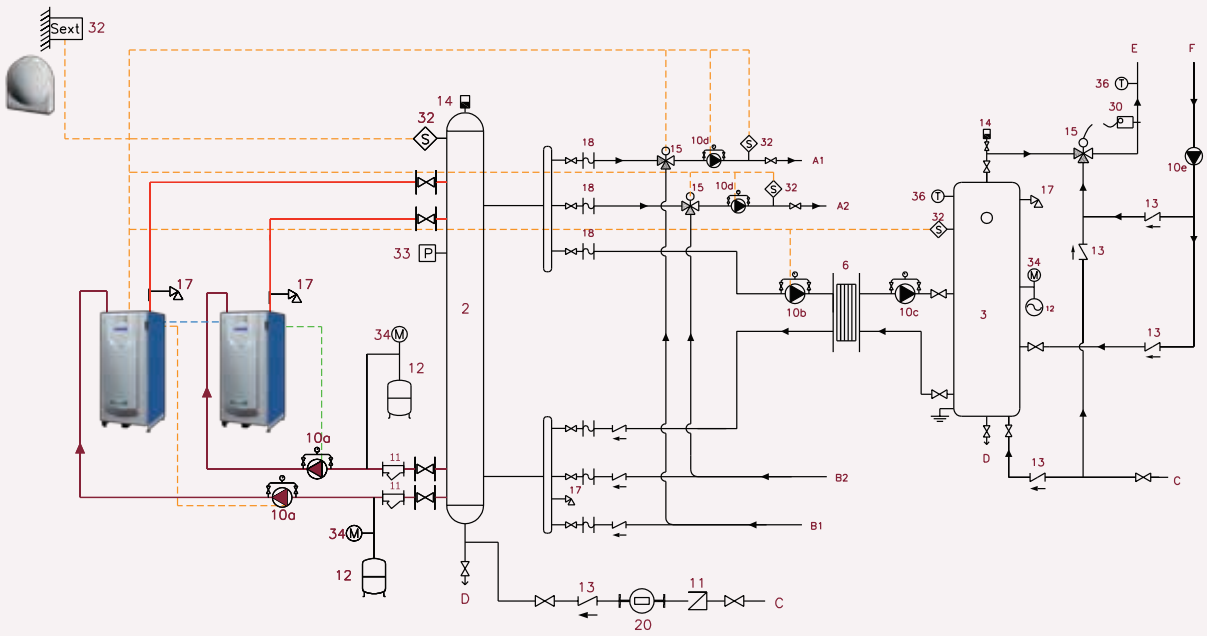
Examples of circuit accessories selection

3 BOILERS WITH 4 MIXING HEATING CIRCUITS



UNITS	REFERENCE	DESCRIPTION
3	**BOILER**	ADI boiler + common/inertia header.
3	**CASCADED BOILERS KIT**	Module OCI345 for cascaded boilers, with cable and connector (1 per boiler).
2	**FIRST HEATING CIRCUIT KIT**	Module AGU2.550 to control a heating circuit (mixing valve and pump). Includes communication bus cable (AGU2.110) between the boiler and the extension modules and connectors. Temperature sensors not included.
2	**ADDITIONAL HEATING CIRCUIT KIT**	Module AGU2.550 to control a heating circuit (mixing valve and pump) with connectors. Temperature sensors not included.
5	**IMMERSION TEMPERATURE SENSOR KIT**	Immersion temperature sensor model QAZ36 with sensor element NTC10k and temperature range 0...95 °C and 2 m long cable and connector (immersion pocket not included).
1	**OUTSIDE TEMPERATURE SENSOR KIT**	Outside temperature sensor model QAC34 with temperature range -50...70 °C with connector (1 x installation or set).

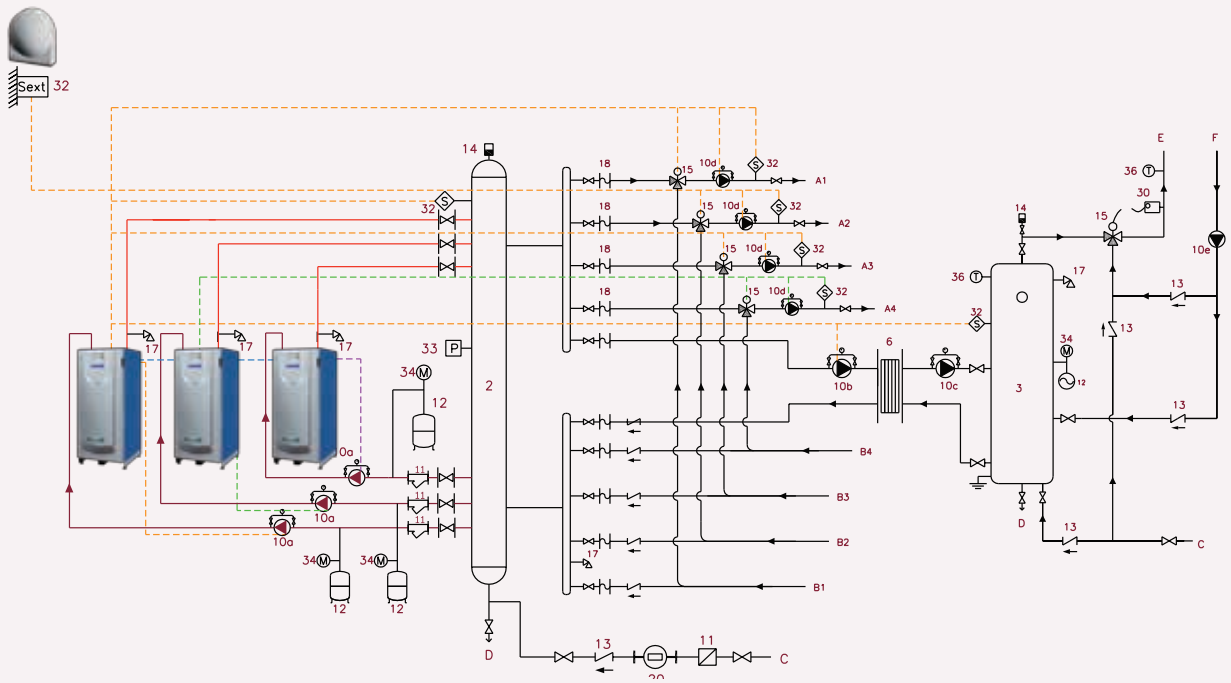
2 BOILERS WITH 2 MIXING HEATING CIRCUITS AND DOMESTIC HOT WATER



UNITS	REFERENCE	DESCRIPTION
2	**BOILER**	ADI boiler + common/inertia header.
2	**CASCADED BOILERS KIT**	Module OCI345 for cascaded boilers, with cable and connector (1 per boiler).
1	**FIRST HEATING CIRCUIT KIT**	Module AGU2.550 to control a heating circuit (mixing valve and pump). Includes bus cable (AGU2.110) between boiler, modules and connectors. Temperature sensors not included.
1	**ADDITIONAL HEATING CIRCUIT KIT**	Module AGU2.550 to control a heating circuit (mixing valve and pump) with connectors. Temperature sensors not included.
4	**IMMERSION TEMPERATURE SENSOR KIT**	Immersion temperature sensor model QAZ36 with sensor element NTC10k and temperature range 0...95 °C and 2 m long cable and connector (immersion pocket not included).
1	**OUTSIDE TEMPERATURE SENSOR KIT**	Outside temperature sensor model QAC34 with temperature range -50...70 °C with connector (1 x installation or set).

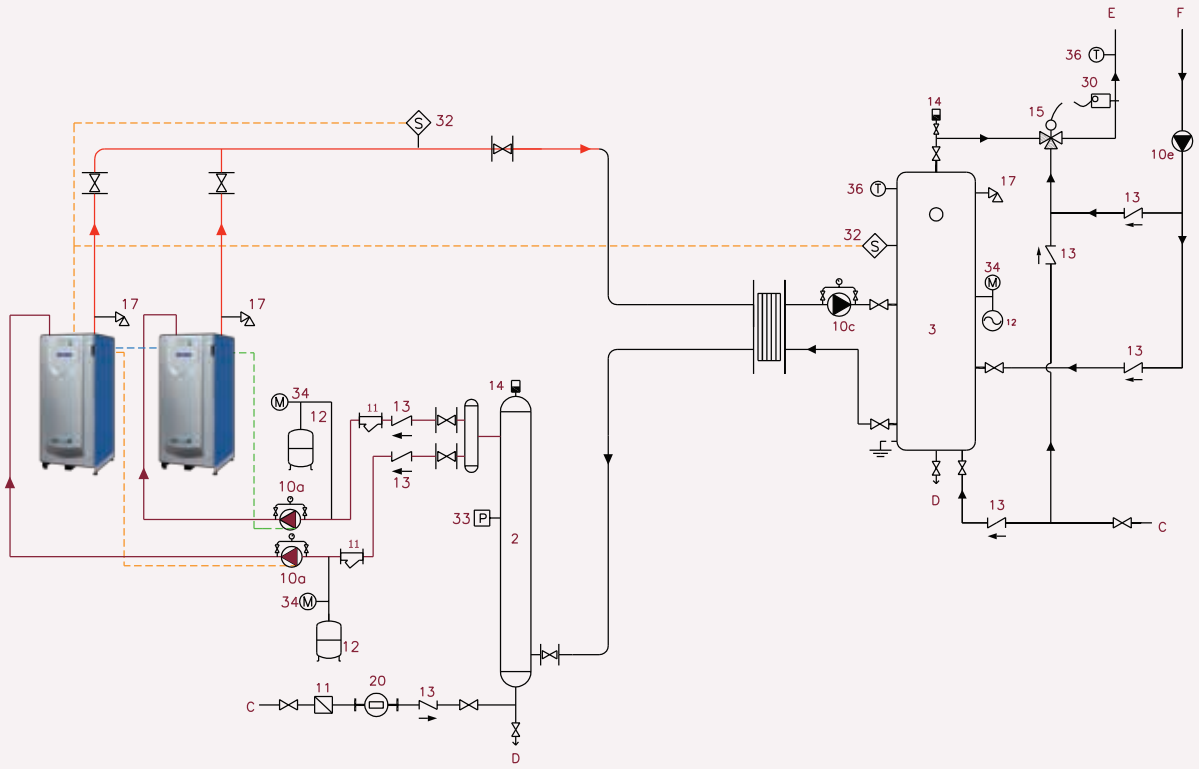
Examples of circuit accessories selection

3 BOILERS WITH 4 MIXING HEATING CIRCUITS AND DOMESTIC HOT WATER



UNITS	REFERENCE	DESCRIPTION
3	**BOILER**	ADI boiler + common/inertia header.
3	**CASCADED BOILERS KIT**	Module OCI345 for cascaded boilers, with cable and connector (1 per boiler).
2	**FIRST HEATING CIRCUIT KIT**	Module AGU2.550 to control a heating circuit (mixing valve and pump). Includes bus cable (AGU2.110) between boiler, modules and connectors. Temperature sensors not included.
2	**ADDITIONAL HEATING CIRCUIT KIT**	Module AGU2.550 to control a heating circuit (mixing valve and pump) with connectors. Temperature sensors not included.
6	**IMMERSION TEMPERATURE SENSOR KIT**	Immersion temperature sensor model QAZ36 with sensor element NTC10k and temperature range 0...95 °C and 2 m long cable and connector (immersion pocket not included).
1	**OUTSIDE TEMPERATURE SENSOR KIT**	Exterior temperature sensor model QAC34 with temperature range -50...70 °C with connector (1 x installation or set).

2 BOILERS AND DOMESTIC HOT WATER



UNITS	REFERENCE	DESCRIPTION
2	**BOILER**	ADI boiler + common/inertia header.
2	**CASCADED BOILERS KIT**	Module OCI345 for cascaded boilers, with cable and connector (1 per boiler).
2	**IMMERSION TEMPERATURE SENSOR KIT**	Immersion temperature sensor model QAZ36 with sensor element NTC10k and temperature range 0...95 °C and 2 m long cable and connector (immersion pocket not included).

WEB SERVER: REMOTE INSTALLATION MANAGEMENT VIA THE WEB

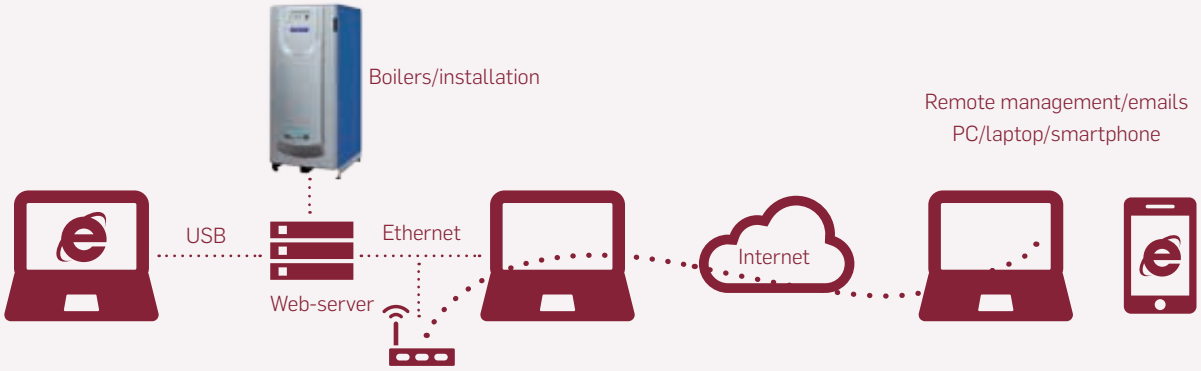
New control mechanism to monitor and manage remotely the ADI boilers and the installations through the most common internet browsers.

VERY EASY TO INSTALL AND USE

WITHOUT ANY SPECIFIC SOFTWARE

REMOTE INSTALLATION MANAGEMENT VIA THE WEB

- Remote supervision via computer, smartphone, tablet.
- Parameters, setpoints and information adjustment.
- Maintenance and preventative warnings.
- Sending repair, report and information emails.
- Fast return on investment.

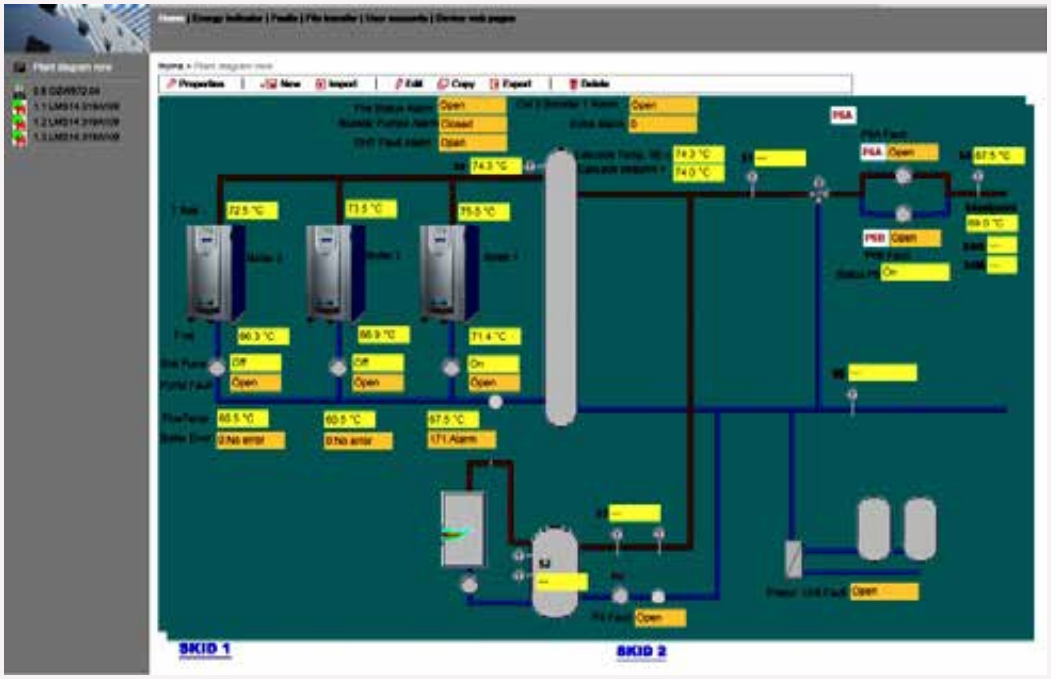


CHARACTERISTICS

- Control and monitoring of the installation through the web.
- Operating access via the internet.
- 3 different versions (1/4/16 devices):
  - 1 device: 1 boiler, 3 heating circuits and D.H.W.
  - 4 devices: up to 4 cascaded boilers, 12 heating circuits and D.H.W.
  - 16 devices: up to 16 boilers and the corresponding circuits.

  Each heating circuit: flow temperature reading, fixed setpoint or heating curve, time programme, pump start/stop, winter-summer, etc.
- 2 configurable digital inputs for additional error messages.
- Error messages on the screen of the web browser.
- Sending error messages to a maximum of 4 email recipients.
- Customized installation schematics with setpoints and readings.
- Importing technical data and creating links to web pages.
- Various levels of access.
- Recording and downloading the desired historic data.

Screen example of remote installation management via web server



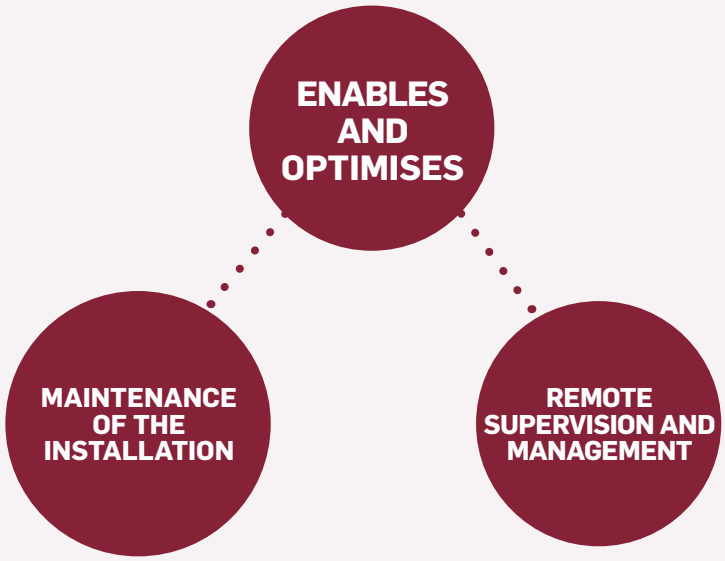
INSTALLATION REQUIREMENTS

- Internet connection in the building, available to the installer.
- RJ45 Ethernet connection, CAT5 cable, 100m maximum.
- Computer/laptop connected to a router for configuration, maintenance and update tasks.

WEB SERVER 1
1 boiler and circuits.

WEB SERVER 4
Up to 4 boilers and circuits.

WEB SERVER 16
Up to 16 boilers and circuits.



Consult Web Server prices on page 27.

2

PRE-BUILT PACKAGED HEAT PRODUCTION UNITS




2 PRE-BUILT PACKAGED HEAT PRODUCTION UNITS

Pre-built packaged units for heat and domestic hot water production in centralised installations, with power rating up to 3,620 kW. Made to measure according to the needs of each installation, they are a complete solution offering the customer maximum flexibility and reliability, comprehensively tested in the ADISA factory prior to shipping. They have become the best solution in new and reconverted installations, as they improve safety and achieve important energy, space, cost and running time savings.

ROOF TOP
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MINI ROOF TOP 2.0
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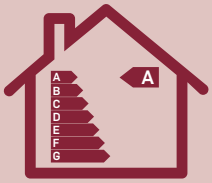
TERMI PACK SKID
Page 52

"TURNKEY" PROJECT

PERSONALISED TO THE NEEDS OF THE INSTALLATION AND THE CUSTOMER

The commercial technical team ADISA/HITECSA + CUSTOMER (engineering, installer, property, etc...) determine the requirements.



ADISA/HITECSA special offers team: optimised and personalised study of the installation: equipment and **energy efficiency**

1995
ADISA already manufactured and marketed in Europe the Roof Top unit.

1998
ADISA was the pioneer of the sector when it installed the first pre-built packaged Roof Top unit in Spain.

2015
More than 1,400 units installed in: Spain, Portugal, France, Belgium, United Kingdom, Italy, Norway, Egypt, Venezuela, Dominican Republic, etc. ratify our experience and leadership in this sector.

CERTIFIED ISO 9001 CERTIFIED

Manufacture and verification before delivery (**ISO 9001**).

Delivered in a single shipment. **Only one supplier.**

'Plug-and-Play': connection, adjustment and operation.

Pre-built packaged heat production unit, with gas boiler, for installation in outside areas.

2.1 ROOF TOP

HIGHER POWER
CUSTOMIZED SOLUTION

MAIN FEATURES

- Produces heating and/or D.H.W. in centralised installations.
- Up to 3,620 kW with gas boilers in one casing.
- For outside installation.
- Self-supporting structure.
- Sectors: residential, hotel, commercial and service.
- External unit maintenance.

PRODUCT BENEFITS

- Prefabricated solution.
- High power (all in one casing).
- Maximum energy efficiency.
- Personalised units: flexible hydraulic design.
- Option to include buffer tank.
- Compact technology: smallest dimensions and lowest weight on the market.
- Operation and leak tests carried out at the factory prior to shipping.
- Savings in costs and installation time.

Quality control and comprehensive testing guaranteed at the factory, prior to shipping.

Large power installations for all types of buildings.

Easy to transport and place on site.

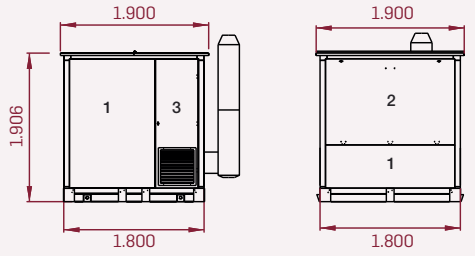
UNITS DIMENSIONS AND WEIGHT

CODE	MODEL ROOF TOP	POWER kW	DIMENSIONS WIDTH x HEIGHT m	WEIGHT WITHOUT WATER APPROX. (1) Kg	WEIGHT WITH WATER APPROX. (1) Kg	MAXIMUM NUMBER OF BOILERS	R. R. P. €
see Mini RT 2.0	**RT0**	< 380	1.3 x 1.2	664	793	2	inquire
508447	**RT2**	< 464	1.8 x 1.8	1,300	1,980	2	inquire
508448	**RT2.5**	< 950	2.5 x 1.8	2,300	2,800	2	inquire
508449	**RT3**	< 1,810	3.0 x 1.8	2,950	3,500	2 to 3	inquire
508450	**RT3.5**	< 1,810	3.55 x 1.8	3,150	4,100	3	inquire
508451	**RT4**	< 2,715	4.2 x 1.8	4,150	5,075	4	inquire
508452	**RT5**	< 3,620	5.4 x 1.8	5,180	6,240	4	inquire

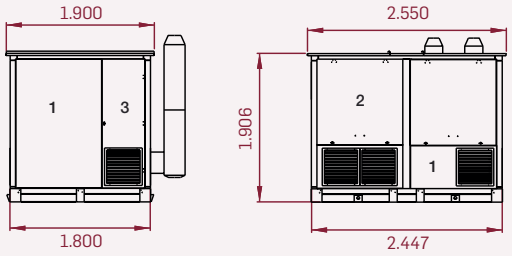
Commissioning is not included in the price. Please consult our Commercial Department.

(1) Weights are only indicative and may vary depending on the equipment inside.
Option for buffer tank within the Roof Top unit with special height casing.
Or, a D.H.W. buffer tank, directly outside, hydronically connected to the Roof Top unit.

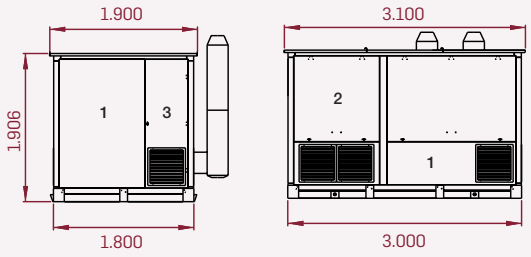
RT2



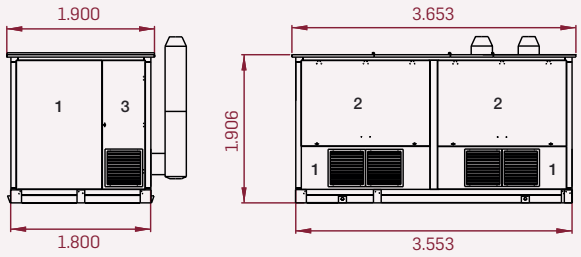
RT2.5



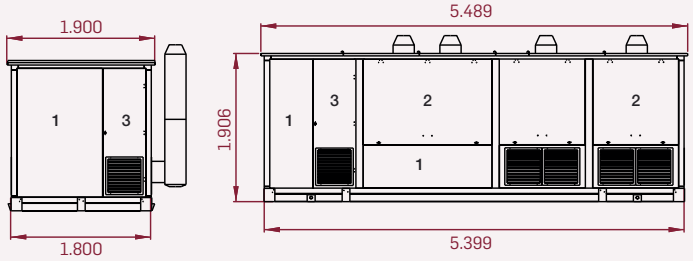
RT3



RT3.5



RT5



1. FIXED PANEL
2. FOLDING PANEL
3. ACCESS DOOR

FLEXIBLE DESIGN MADE TO MEASURE

HYDRAULIC

- **BOILERS**
  - 1 to 4 gas condensing boilers (ADI CD) or other ranges.
- **Heating**
  - 1 or multiple circuits.
  - Simple or double pumps.
  - With/without 3 way valves.
- **D.H.W.** (domestic hot water):
  - With/without plate exchangers.
  - With/without D.H.W. buffer tanks.
  - With/without pumps (simple/double).
  - Legionella prevention.

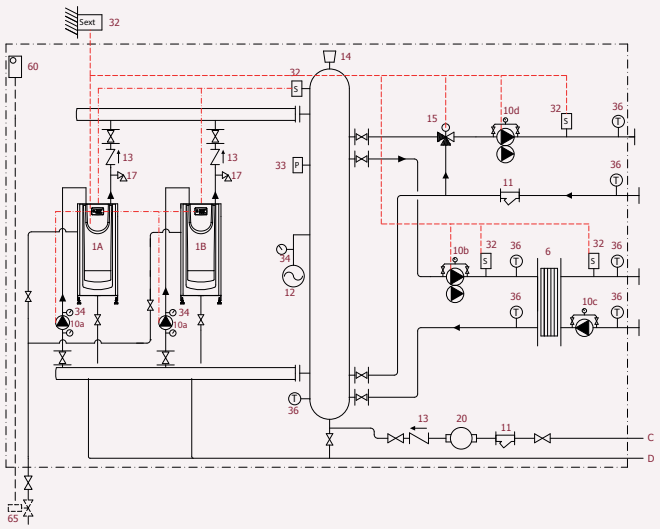
ADAPTABLE TO THE NEEDS OF THE INSTALLATION

CONTROL

- **Has its own** set of equipment and circuits.
  - Boiler sequence and inversion.
  - Optimises energy efficiency depending on consumption and use.
  - Legionella prevention: pasteurising buffer tank...
  - Option: remote supervision and management via the internet.
  - Double pump cycle.
  - Monitoring alarms.
- **Externally**: controllable by centralised/remote regulation system.
- **Mixed**

SAFETY

- Hydraulic: lack of water, anti-freeze, overpressure, expansion, automatic vents...
- Gas: detection.
- Electrical: electric cabinet with internal equipment protection.
- Equipment installed outside the building.



FOR EASY INSTALLATION

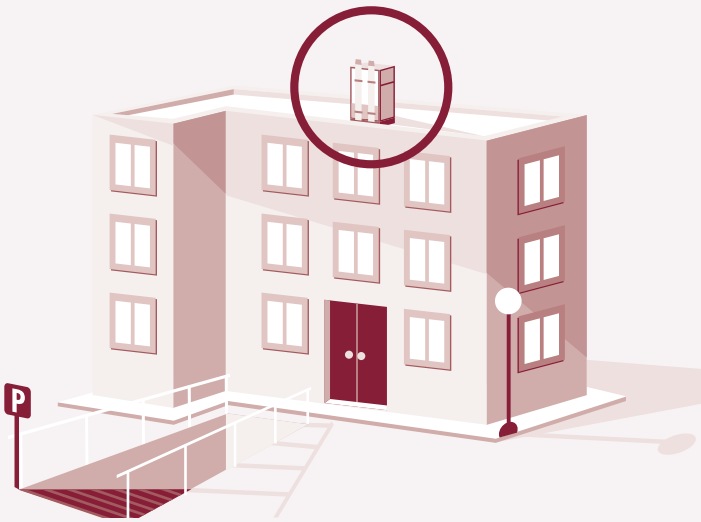
SMALLEST DIMENSIONS AND LOWEST WEIGHT ON THE MARKET.

- Takes maximum advantage of useful construction surface.

950 kW in an area 2.5 x 1.8 m
3,620 kW in an area 5.5 x 1.8 m

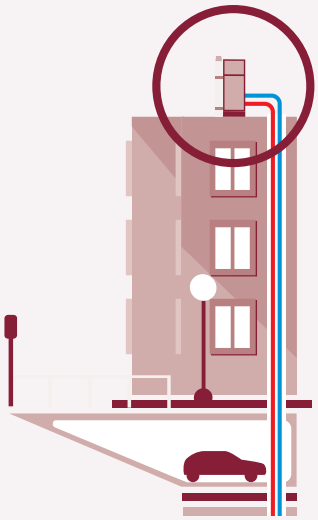
NEW BUILDING

- Easy to place on roof tops.
- Minimum weight, minimum effect on structure reinforcement.
- Saves surface area in car parks, shops, storerooms, etc.



CONVERSIONS

- Simplifies the conversion of old boiler rooms:
  - In lower basements or below.
  - In difficult access areas.
  - With inadequate flues.
  - With forced ventilation.



Compact pre-built packaged heat production unit, with gas boiler, for installation in outside areas.

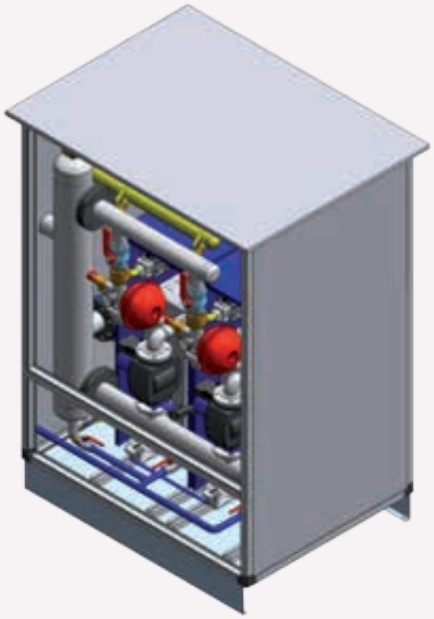
2.2 MINI ROOF TOP 2.0

NEW

COMPACT SOLUTION FOR EFFICIENT INSTALLATIONS

MAIN FEATURES

- Produces heating and/or D.H.W. in centralised installations.
- Power rating up to 524 kW.
- With 1 or 2 ADI CD boilers or other ranges.
- Reduced size and weight: from 1.3 x 1.2 m.
- Self-supporting structure.



PRODUCT BENEFITS

COMPLETE AND COMPACT SOLUTION

Includes:

- Boilers with modulating burner.
- Sequence control (2 boilers).
- Pump per boiler, variable speed.
- Circuit: hydronic, gas.
- Safety:
  - Expansion vessel
  - Overpressure safety valve
  - Gas detection
  - Lack of water
  - Anti-freeze
  - Electrical
- Electric cabinet.
- Lighting.
- Flues.

Units tested before they are shipped.

INSTALLATION SAVINGS

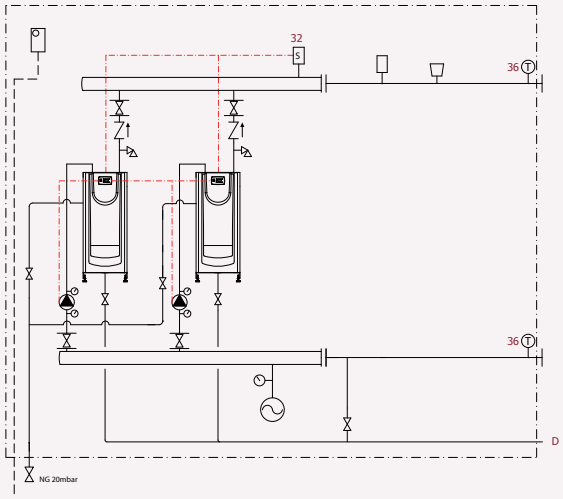
- **GAS/ECONOMY SAVINGS**
  - Modular boilers: completely variable to the installation demand.
- **ELECTRICAL SAVINGS**
  - High efficiency pumps (one per generator) stop when the boilers stop.
  - Boilers with low consumption variable speed motor-fan (from 48 W).
- **SPACE SAVINGS**
  - Reduced and optimised weight and dimensions.

HIGH ENERGY EFFICIENCY

- Boilers with condensing performance.
- Modulating burner with variable speed fan. Modular from 15% power (equipment with 2 boilers).
- Variable speed pumps (high efficiency).
- Control: boiler sequence and adjusting power to demand.
- Minimal electrical consumption.
- Option to have the flow temperature set according to outside temperature.

BASE CONFIGURATION

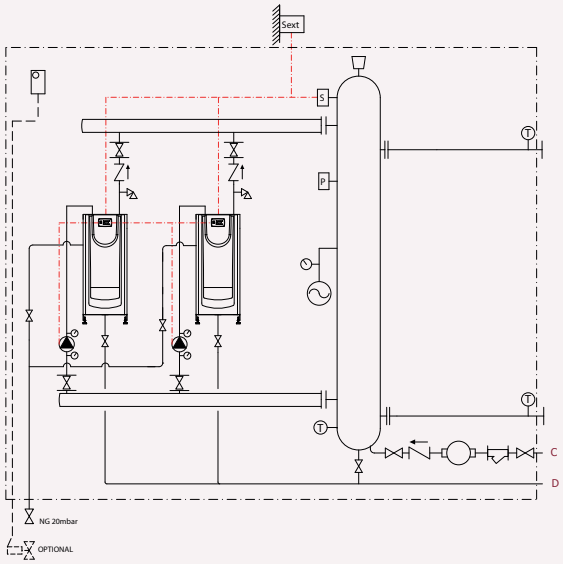
- 1 or 2 ADI boilers.
- Boiler pump.
- Sequence control (case: 2 boilers).
- Flow and return circuit: 3".
- Electric cabinet.
- Overpressure safety valve.
- Expansion vessel.
- Fume temperature.
- Gas detection.
- Lighting.



ADDITIONAL ACCESSORIES

- **mRT-E1** Low loss header: vertical, insulated, with automatic air vents.
- **mRT-E2** Filling circuit.
- **mRT-E3** Outside temperature sensor.
- **mRT-E4** Gas electric valve.

Note: for supply of mRT-E1 to E4, please specify on the order; mRT-E1 to E3: supplied installed inside the unit; mRT-E4: supplied separately, to be installed by the customer outside the unit.



TECHNICAL SPECIFICATIONS FOR CONDENSING UNITS

CODE	MODEL MINI ROOF TOP 2.0	TYPE BOILER	USEFUL POWER kW	BOILERS number	BASE DIMENSION m	WEIGHT WITHOUT WATER Kg	WEIGHT WITH WATER Kg	R. R. P. €
508462	**MINI RT 70 x 1 CD**	COND.	70.5	1	1.3 x 1.2	446	512	inquire
508463	**MINI RT 85 x 1 CD**	COND.	85.0	1	1.3 x 1.2	448	517	inquire
508464	**MINI RT 105 x 1 CD**	COND.	104.0	1	1.3 x 1.2	459	531	inquire
508465	**MINI RT 120 x 1 CD**	COND.	120.0	1	1.3 x 1.2	475	547	inquire
508466	**MINI RT 175 x 1 CD**	COND.	161.8	1	1.3 x 1.2	490	570	inquire
509012	**MINI RT 200 x 1 CD**	COND.	197.5	1	1.3 x 1.2	665	752	inquire
509013	**MINI RT 250 x 1 CD**	COND.	241.0	1	1.3 x 1.2	686	776	inquire
508467	**MINI RT 70 x 2 CD**	COND.	141.0	2	1.3 x 1.2	576	677	inquire
508468	**MINI RT 85 x 2 CD**	COND.	170.0	2	1.3 x 1.2	580	687	inquire
508469	**MINI RT 105 x 2 CD**	COND.	208.0	2	1.3 x 1.2	602	715	inquire
508470	**MINI RT 120 x 2 CD**	COND.	240.0	2	1.3 x 1.2	634	747	inquire
508471	**MINI RT 175 x 2 CD**	COND.	323.6	2	1.3 x 1.2	664	793	inquire
509010	**MINI RT 200 x 2 CD**	COND.	395.0	2	1.8 x 1.8	1,810	2,230	inquire
509011	**MINI RT 250 x 2 CD**	COND.	482.0	2	1.8 x 1.8	1,855	2,285	inquire

Commissioning is not included in the price. Please consult our Commercial Department.

TECHNICAL SPECIFICATIONS OF LOW TEMPERATURE UNITS

CODE	MODEL MINI ROOF TOP 2.0	TYPE BOILER	USEFUL POWER kW	BOILERS number	BASE DIMENSION m	WEIGHT WITHOUT WATER Kg	WEIGHT WITH WATER Kg	R. R. P. €
508472	**MINI RT 105 x 1 LT**	LOW TEMP.	104.0	1	1.3 x 1.2	446	512	inquire
508473	**MINI RT 130 x 1 LT**	LOW TEMP.	130.0	1	1.3 x 1.2	448	514	inquire
508474	**MINI RT 150 x 1 LT**	LOW TEMP.	149.0	1	1.3 x 1.2	459	528	inquire
508475	**MINI RT 200 x 1 LT**	LOW TEMP.	190.0	1	1.3 x 1.2	475	547	inquire
509017	**MINI RT 250 x 1 LT**	LOW TEMP.	230.0	1	1.3 x 1.2	665	742	inquire
509016	**MINI RT 275 x 1 LT**	LOW TEMP.	262.0	1	1.3 x 1.2	686	771	inquire
508476	**MINI RT 105 x 2 LT**	LOW TEMP.	208.0	2	1.3 x 1.2	576	677	inquire
508477	**MINI RT 130 x 2 LT**	LOW TEMP.	260.0	2	1.3 x 1.2	580	681	inquire
508478	**MINI RT 150 x 2 LT**	LOW TEMP.	298.0	2	1.3 x 1.2	602	709	inquire
508479	**MINI RT 200 x 2 LT**	LOW TEMP.	380.0	2	1.3 x 1.2	634	747	inquire
509015	**MINI RT 250 x 2 LT**	LOW TEMP.	460.0	2	1.8 x 1.8	1,810	2,210	inquire
509014	**MINI RT 275 x 2 LT**	LOW TEMP.	524.0	2	1.8 x 1.8	1,880	2,295	inquire

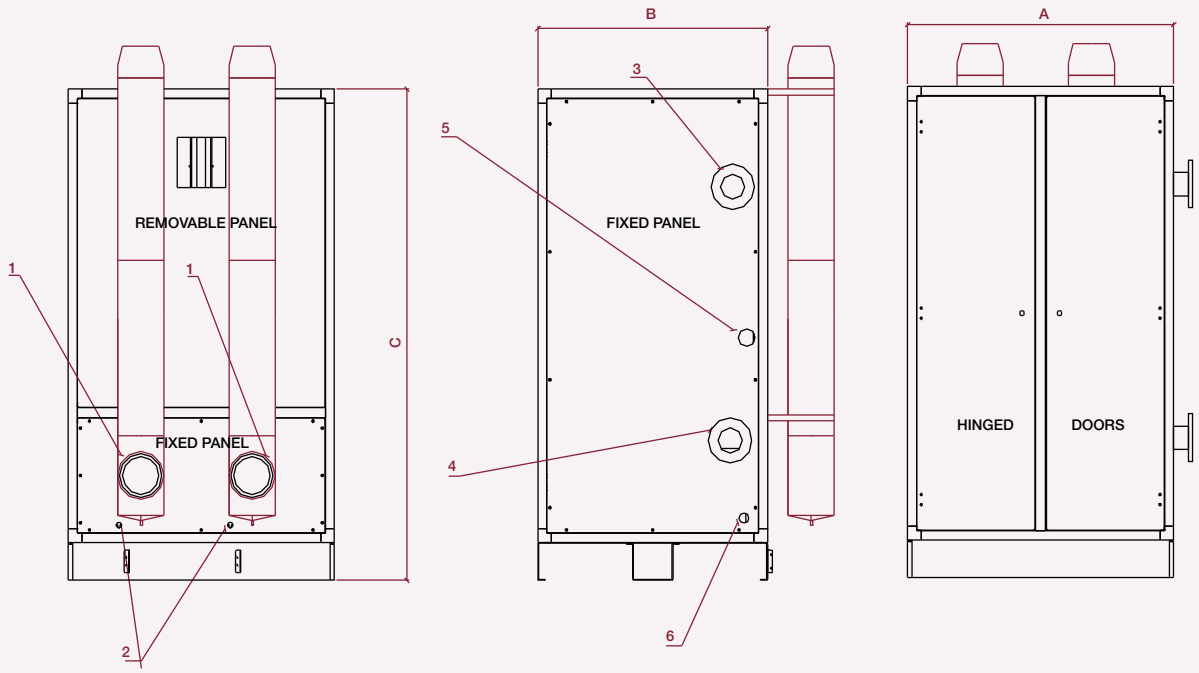
Commissioning is not included in the price. Please consult our Commercial Department.

Option to include the range of ADI HT boilers.
Additional accessories: inquire.
Shared data: electrical supply: 230 V, 50 Hz, earthed single-phase and hydronic pressure: up to 4 bar.

UNIT DIMENSIONS AND VIEWS 1.3 x 1.2 m

1. FLUES OUTLET
2. CONDENSATES OUTLET
3. WATER DISCHARGE: 3"
4. WATER RETURN: 3"
5. GAS
6. FILLING

BASE (A x B): from 1,300 x 1,200 mm - HEIGHT (C): 2,000 mm



11 Mini Roof Top installation for a total power rating of 2,640 kW

Pre-built packaged heat generation unit, with gas boiler, for installation in boiler rooms.

2.3 TERMI PACK SKID

PREFABRICATED SOLUTION
FOR INSIDE INSTALLATION

MAIN FEATURES

- Produces heating and/or D.H.W. in centralised installations.
- Up to 3,620 kW in one skid (expandable using various skids).
- For installations inside boiler rooms.
- Self-supporting structure: includes all necessary elements (boilers, pumps, gas, electrics, controls, safety items).
- Sectors: residential buildings, public centres, office buildings, commercial centres, hospitals, etc.

PRODUCT BENEFITS

- Self-supporting prefabricated solution.
- High power (all in one skid).
- Maximum yearly performance.
- Personalised units: made to measure, adapted to the installation and customer.
- Compact technology: smallest dimensions and lowest weight on the market.
- Operation and leak tests carried out at the factory prior to shipping.
- Start-up and operational safety simplicity.

OPERATIONAL INFORMATION

- Electrical supply: three-phase 380 V, neutral and earth, or single-phase 220 V, neutral and earth.
- Fuel: natural gas or propane.
- Hydronic pressure: 4 kg/cm^2 (for greater pressures: inquire).
- The boiler room where the platform is located must comply with current standards and regulations.
- The flues (at the cost of the installing company) must comply with local up to date standards.

CODE	MODEL	POWER kW	DIMENSIONS LENGTH x WIDTH m	R. R. P. (1) €
509048	**TERMI PACK 0**	< 380	1.3 x 1.2	**inquire**
509006	**TERMI PACK 2**	< 464	1.8 x 1.8	**inquire**
509007	**TERMI PACK 2.5**	< 950	2.45 x 1.8	**inquire**
509008	**TERMI PACK 3**	< 1,810	3.0 x 1.8	**inquire**
508456	**TERMI PACK 3.5**	< 1,810	3.55 x 1.8	**inquire**
508457	**TERMI PACK 4**	< 2,715	4.2 x 1.8	**inquire**
509009	**TERMI PACK 5**	< 3,620	5.4 x 1.8	**inquire**

(1) Price and weight according to internal equipment.
Commissioning is not included in the price. Please consult our Commercial Department.

FLEXIBLE DESIGN MADE TO MEASURE

ADAPTED TO EACH INSTALLATION AND CUSTOMER

- No. of circuits.
- No. of boilers.
- Internal equipment.
- In-house or external control.

INCLUDES ADISA GAS BOILERS

- Maximum seasonal performance.
- Minimal contaminating emissions.

HYDRAULIC CIRCUIT ADAPTABLE TO EACH INSTALLATION

- Heating (1 or various circuits): with/without 3-way valve, with/without pumps (simple/double).
- D.H.W.: plate exchanger, with/without 3-way valve first circuit, pump first circuit, with/without pump second circuit.

INCLUDES CONTROL UNIT

- Optimises the operation of the boilers and the temperatures of the circuits to obtain the maximum energy (in option: external control).
  - Maximum seasonal performance boilers.
  - High efficiency pumps.

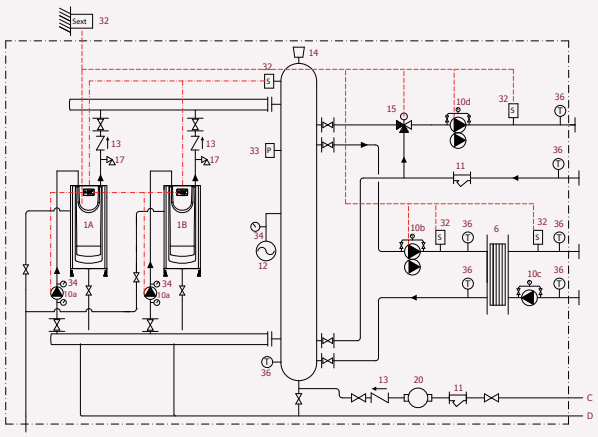
SAFETY

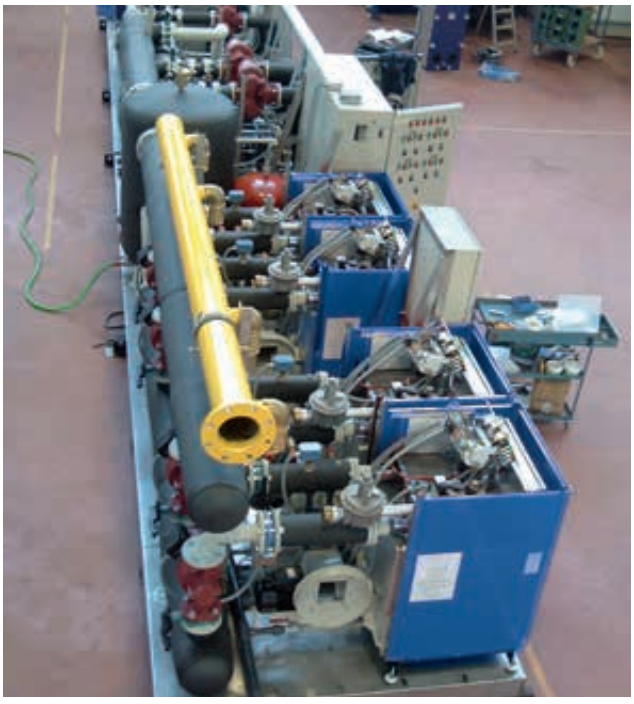
- Large capacity automatic vent.
- Water pressure switch.
- Water overpressure valves.
- Closed expansion vessel.
- Electrical protection components.
- Anti-freeze.

REMOTE CONTROL AND SUPERVISION OPTION

- Add the web server system to simply and easily manage the installation remotely.
- Controllable from the building's central control unit.

EXAMPLE OF POSSIBLE SYSTEM DRAWINGS





1,800 kW skids manufacturing process in our production facilities.

Pre-built packaged unit for production of heating and D.H.W. continually pasteurised.

2.4 INTEGRATED ANTILEGIONELLA SOLUTION

2 IN 1 UNIT: PRODUCTION OF HEATING AND/OR D.H.W. WITH ANTI-LEGIONELLA SYSTEM

MAIN FEATURES

- Produces heating and/or D.H.W. continual pasteurisation.
- Continually eliminates the legionella bacteria.
- For installing outside or in boiler rooms.
- Prefabricated unit with self-supporting structure.
- Ideal solution for hospitals, nursing homes, sports centres, service sector, etc.

PRODUCT BENEFITS

- 2 in 1: in the same unit, D.H.W. production and y continual pasteurisation.
- Eradicates legionella before it contaminates the distribution network. The system is 100% natural.
- Buffer tank reduction/elimination.
- Saving in the area occupied thanks to its compact design: Easily integrates into any type of installation, old or new.
- Water, energy and maintenance operation savings.

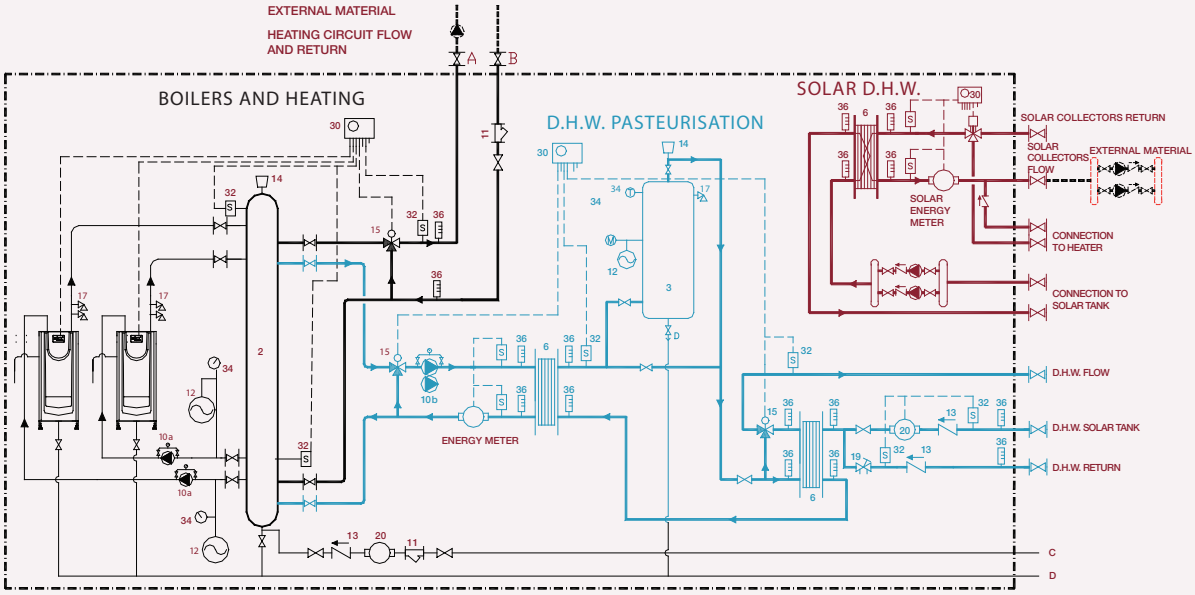
UNIT	EXAMPLE	DIMENSIONS LENGTH x WIDTH m	R. R. P. €
SKID (for inside)		2.45 x 1.8 3.0 x 1.8 3.55 x 1.8 4.2 x 1.8 5.4 x 1.8	**inquire**
ROOF TOP (for outside)		2.45 x 1.8 3.0 x 1.8 3.55 x 1.8 4.2 x 1.8 5.4 x 1.8	**inquire**
COMPACT VERSION (for inside)		1.9 x 1.0	**inquire**

- Option of installing various units depending on requirements and installation circuits.
- Option for buffer tank within the Roof Top unit with special height casing.
- Compact version available for inside the D.H.W. production unit and continual pasteurisation (contact our commercial team).

Commissioning is not included in the price. Please consult our Commercial Department.

SYSTEM DRAWING:
COMPREHENSIVE ANTILEGIONELLA D.H.W. AND HEATING SOLUTION

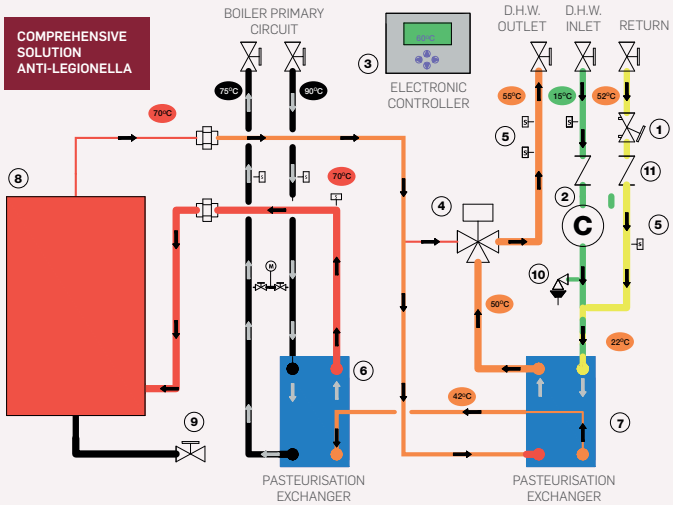
Unit with pasteurisation system with solar energy support.



CONTROL AND REGULATION

- Optimal boiler management reducing gas consumption, water for D.H.W. and electricity.
- Easy integration with external or remote control systems.
- Option: remote supervision and management included via the web server.

OPERATING PRINCIPLE



- Cold water mixes with the D.H.W. return circuit.
- It pre-heats in the transfer exchanger (7).
- With the pasteurisation exchanger, its temperature increases to 70 °C (6).
- In the pasteurisation unit, the 70 °C temperature is maintained for at least two minutes. (8).
- This is used for pre-heating in the transfer exchanger (7) and lowering its temperature.
- By means of the three-way valve, it is sent to the distribution network at 55-60 °C.

BENEFITS OF THE 2 IN 1 UNIT:

100% NATURAL

- Definitive and permanent legionella elimination in D.H.W. production.
- 100% natural system, heat treatment without chemical products: keeps initial physical-chemical properties of the D.H.W. destined for human consumption.
- For an entire building, it is important to eliminate the dead legs and points where the water is not moving, to balance and ensure correct circulation of the entire network.

2 IN 1 SOLUTION:

- Comprehensive 2 in 1 solution; allows placement in the same boiler unit (high performance, low temperature or condensing), heating circuits, D.H.W., buffer tanks, solar support circuit, etc.

ENERGY, SPACE AND COST SAVINGS

- Savings in D.H.W. (up to 10%) and gas (up to 8%) consumption with respect to the conventional storage solution with buffer tank. Fast return on investment.
- Reduction in costs and maintenance operations for buffer tanks deposits elimination (if applicable).
- Savings in servicing costs and cleaning the inside of the buffer tanks.
- Water saving by emptying buffer tanks.
- Compact unit: saving on-site space.

HIGH PERFORMANCE

- Range of power ratings between 70 and 3,620 kW with ADI gas boilers (inquire for higher power ratings).
- Maximum performance under any usage conditions.

MADE-TO-MEASURE DESIGN

- Complete design adaptability depending on the installation requirements.
- Comprehensive consultancy throughout all phases of the project.

UNIT IS TOTALLY TESTED

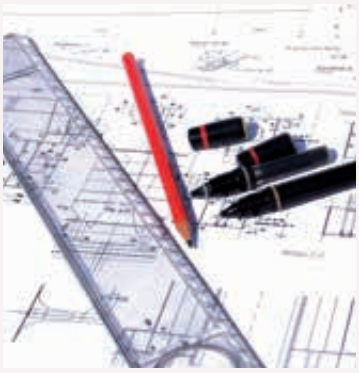
- Completely assembled, approved and operationally tested before leaving the factory.

A SINGLE SUPPLIER

- Delivered in a single shipment and from one supplier for the entire set.

COMPREHENSIVE CONSULTANCY THROUGHOUT ALL PHASES OF THE PROJECT

- Engineering support at the initial design phase to maximise adaptation to the needs of the installation.
- Installation support during the unit manufacture and installation phase.
- Final user support for the operation and maintenance of the installation (own Technical Support Service).



INTERNATIONALLY RENOWNED

AWARDS
UNITED KINGDOM

Industrial/Commercial Product of the Year

H&V News 2009 Awards in the heating and cooling category

AWARDS
SPAIN

NAN first prize

NAN Architecture and Construction Awards 2009 in the heating and cooling category

Optimal energy efficiency of the installation during the entire operational cycle and with complete health safety.

3

DOMESTIC HOT WATER

ADISA

HEATING SERIES BY HITECSA

Vertical stainless-steel D.H.W. storage tank for outdoor installation

3.1.1 HIDROINOX-EXT

NEW

SAVING USEFUL BUILT SURFACE SPACE. OUTDOOR INSTALLATION.

MAIN FEATURES

- **Available volumes:** 500-5,000 litres (Inquire for larger sizes).
- **Stainless-steel buffer tank body, AISI 316:**
  - Chemically de-scaled and cleaned.
  - Internal and external welds.
- **Maximum working temperature:** 90 ºC.
- **Working pressure:** 6 bar (option: 8 bar).
- **Manhole:** DN 400 (for 1,000 litres and over).
- **Insulation:** Injected polyurethane (PU).
- **Exterior finish in plastic.**
- **Includes permanent cathodic protection anode with titanium bars** (no wear).

SUPPLY

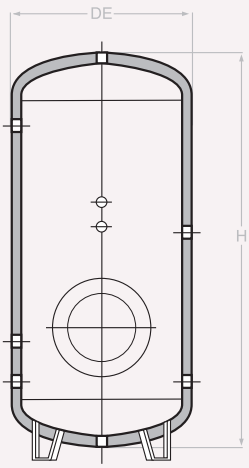
Includes:

- Stainless-steel vertical buffer tank.
- CORREX-UP permanent cathodic protection titanium anode.
- Manhole cover insulation (BR).
- Tank insulation against the elements.
- Titanium anodes protection from the elements.

THERMAL INSULATION

Compliant with future European Eco-Design Directives (minimal thermal loss).

CODE	MODEL litres	DE mm	H mm	BR	R. R. P. 6 bar €	R. R. P. 8 bar €
509025	**500**	670	1,934	DN 250	**3,592**	**3,693**
509026	**750**	930	1,838	DN 250	**5,237**	**5,328**
509027	**1,000**	930	2,088	DN 400	**5,860**	**6,325**
508518	**1,500**	1,280	1,834	DN 400	**8,366**	**9,147**
508842	**2,000**	1,280	2,334	DN 400	**9,712**	**11,282**
509028	**2,500**	1,510	1,984	DN 400	**12,264**	**15,024**
509073	**3,000**	1,510	2,484	DN 400	**13,994**	**16,886**
509074	**3,500**	1,510	2,734	DN 400	**14,919**	**18,966**
509075	**4,000**	1,910	2,183	DN 400	**17,280**	**20,648**
509076	**5,000**	1,910	2,683	DN 400	**19,111**	**22,331**



Max. water pressure for 10 bar: inquire.

Vertical stainless-steel tank for D.H.W. storage.

3.1.2 HIDROINOX

MAIN FEATURES

- **Available volumes:** 500-5,000 litres (Inquire for larger sizes).
- **Stainless-steel buffer tank body, AISI 316:**
  - Chemically de-scaled and cleaned.
  - Internal and external welds.
- **Maximum working temperature:** 90 ºC.
- **Working pressure:** 6 bar (option: 8 bar and 10 bar).
- **Manhole:** DN 400 (for 1,000 litres and over).
- **Insulation:** Injected polyurethane (PU). Compliant with future European Eco-Design Directives (thermal loss).
- **Exterior finish in plastic.**
- **Includes permanent cathodic protection anode with titanium bars** (no wear).

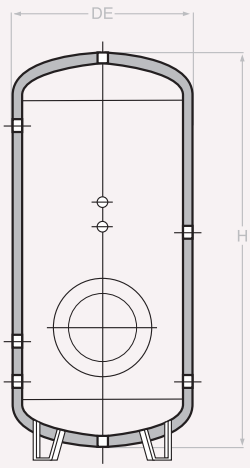
SUPPLY

Includes:
- Stainless-steel vertical buffer tank.
- Permanent cathodic protection anode with titanium bars.
- Manhole cover insulation (BR).

THERMAL INSULATION

Compliant with future European Eco-Design Directives (minimal thermal loss).

CODE	MODEL litres	DE mm	H mm	BR	R. R. P. 6 bar €	R. R. P. 8 bar €
508515	**500**	670	1,934	DN 250	**3,311**	**3,403**
508516	**750**	930	1,838	DN 250	**4,554**	**4,713**
508517	**1,000**	930	2,088	DN 400	**5,394**	**5,822**
508846	**1,500**	1,280	1,834	DN 400	**7,769**	**8,441**
508519	**2,000**	1,280	2,334	DN 400	**8,962**	**10,418**
508520	**2,500**	1,510	1,984	DN 400	**11,329**	**13,887**
508521	**3,000**	1,510	2,484	DN 400	**12,933**	**15,613**
508522	**3,500**	1,510	2,734	DN 400	**13,773**	**17,523**
508523	**4,000**	1,910	2,183	DN 400	**15,960**	**19,082**
508524	**5,000**	1,910	2,683	DN 400	**17,657**	**20,642**



Max. water pressure for 10 bar: inquire.

Vertical stainless-steel tank with removable tube bundle for D.H.W. production in combination with a generator.

3.1.3 INTERINOX

MAIN FEATURES

- **Available volumes:** 500-5,000 litres.
- **Material:**
  Buffer tank body: stainless steel, AISI 316.
  - Chemically de-scaled and cleaned.
  - Internal and external welds.

  Heat exchange tube bundle: stainless steel.
  - Flange: DN 400 (from 1,000 litres, complies with standard).
  - Removable to ease maintenance operations.
  - For primary circuits with generators or boilers.
- Maximum continuous working temperature: 90 ºC.
- **Working pressure (primary and secondary circuit):** 6 bar (secondary option: 8 bar).
- **Permanent cathodic protection anode with titanium bars included.**
- **Insulation:** Injected polyurethane (PU). Compliant with future European Eco-Design Directives (thermal loss).
- **Exterior finished in plastic.**

CODE	MODEL litres	DIAMETER mm	HEIGHT mm	FLANGE tube assembly	POWER kW (*)	PRODUCTION l/1st hour (*)	CONTINUAL l/h (*)	MINIMUM FLOW 1º (l/h)	LOAD LOSS 1º (m.c.a)	R. R. P. 6 bar €	R. R. P. 8 bar €
508525	**500**	670	1,934	DN 150	21	797	520	907	0.0020	**3,409**	**3,703**
508526	**750**	930	1,818	DN 200	35	1,207	850	1,487	0.0030	**4,878**	**5,318**
508527	**1,000**	930	2,068	DN 400	42	1,590	1,020	1,784	0.0050	**5,646**	**6,106**
508528	**1,500**	1,260	1,854	DN 400	59	2,372	1,450	2,537	0.0040	**8,307**	**9,281**
508529	**2,000**	1,260	2,354	DN 400	81	2,824	1,780	3,103	0.0080	**9,570**	**10,997**
508530	**2,500**	1,510	1,964	DN 400	100	3,958	2,450	4,287	0.0120	**12,021**	**14,356**
508531	**3,000**	1,510	2,464	DN 400	122	4,760	3,000	5,246	0.0190	**13,756**	**16,407**
508532	**4,000**	1,910	2,193	DN 400	162.7	6,347	4,000	6,996	0.0210	**18,262**	**21,705**
508533	**5,000**	1,910	2,693	DN 400	203.4	7,933	5,000	8,750	0.0390	**21,375**	**24,150**

(*) Inquire for other power ratings.

OPTIONAL Additional manhole cover DN 400	R. R. P. €
Only included if requested on the initial order.	**inquire**

THERMAL INSULATION

Compliant with future European Eco-Design Directives (minimal thermal loss).

4

ACCESSORIES

ADISA

HEATING SERIES BY HITECSA

Tanks for primary heating circuits or solar primary circuits.

4.1 HEAT INERTIAL TANK

MAIN FEATURES

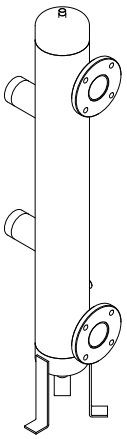
- The tank is made from steel sheet.
- Available volumes: from 100 to 5,000 litres (or low loss header).
- Includes thermal insulation.
- Maximum working temperature: 6 bar. (Inquire for higher values).
- Maximum temperature: 90 °C.
- Connections:
  - 2" to 6" flanges (Inquire for other dimensions).
  - Number of flanges, dimensions and distribution according to the requirements of each installer or engineering.

PRODUCT BENEFITS

- Low loss header.
- Increases the thermal inertia in the circuits that may require it:
  - Energy accumulation in the case of solar collectors.
  - Heat generators can operate with longer start/stop times.
  - Depending on the distribution of the connections, it can work as a degasser.

LOW LOSS HEADER, INSULATED

CODE	DESCRIPTION	CONNECTIONS:	R. R. P. €
102758	6" vertical low loss header Up to 1 ADI CD 175 or ADI LT 200 boiler Up to 2 ADI CD 175 or ADI LT 200 boilers	To boilers: 3" (flanges) To circuit: 3" (thread)	**835**
102759	12" low loss header Up to 1 ADI CD 450 or ADI LT 475 boiler Up to 2 ADI CD 450 or ADI LT 475 boilers	To boilers: 4" (flanges) To circuit: 4" (thread)	**1,474**



INERTIAL TANK: MEDIUM/LARGE VOLUME

TABLE 1

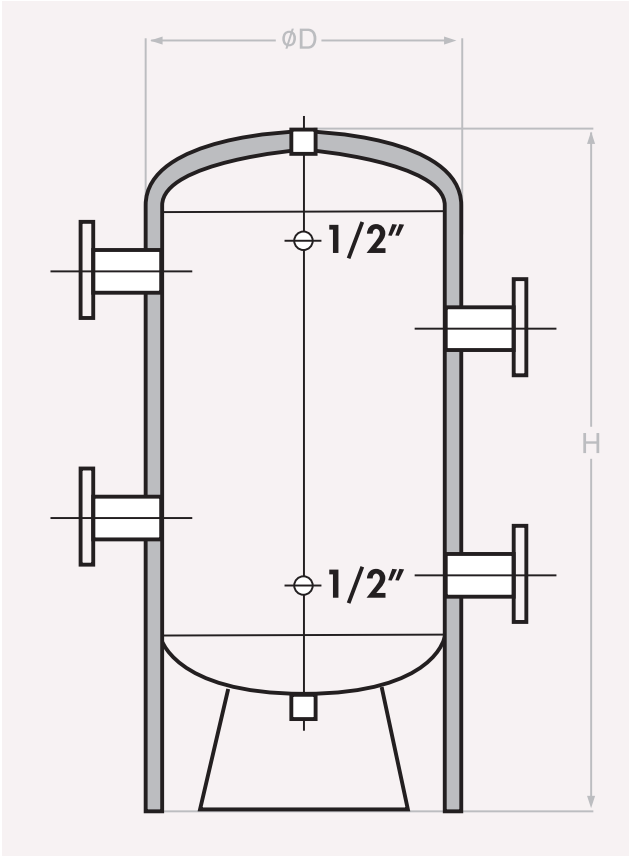
CODE	MODEL litres	DIAMETER (D) mm	HEIGHT (H) mm	INCLUDED AS STANDARD	R. R. P. €
508972	**100**	550	1,000	4 x 1" R	**743**
508973	**200**	550	1,510	4 x 2" R	**911**
508974	**300**	600	1,870	4 x 3" R	**1,180**
508975	**500**	700	1,910	4 x DN80 B	**1,525**
508976	**750**	930	1,850	4 x DN80 B	**2,175**
508977	**1,000**	950	2,100	4 x DN80 B	**2,473**
508978	**1,500**	1,280	1,900	4 x DN100 B	**3,585**
508980	**2,000**	1,300	2,400	4 x DN100 B	**4,016**
508981	**2,500**	1,510	2,100	4 x DN100 B	**4,591**
508982	**3,000**	1,510	2,500	4 x DN100 B	**5,131**
508983	**4,000**	1,910	2,200	4 x DN100 B	**7,097**
508984	**5,000**	1,910	2,700	4 x DN100 B	**7,820**

The measurements and dimensions are indicative only and may change without prior notice.

TABLE 2

CODE	FLANGES litres	R. R. P. €
102714	2"	**85**
102715	2 1/2	**88**
102716	3"	**94**
102717	4"	**99**
102718	5"	**116**
102719	6"	**142**

The total R. R. P. is calculated by adding the unit price of each required flange (table 2) and the value of the inertial tank (table 1).



Filter to catch sludge and rust in heating and/or cooling installations.

4.2 DIAMANTE FILTER

MECHANICAL AND MAGNETIC FILTRATION

MAIN FEATURES

- Double filtration system:
  - Mechanical: by means of a stainless-steel mesh of 80 microns (3).
  - Magnetic: by means of a mesh of metal bars with high Gauss magnets (2).
- Includes: manometers (8) and automatic air vent (7).
- Maximum working pressure: 10 bar.

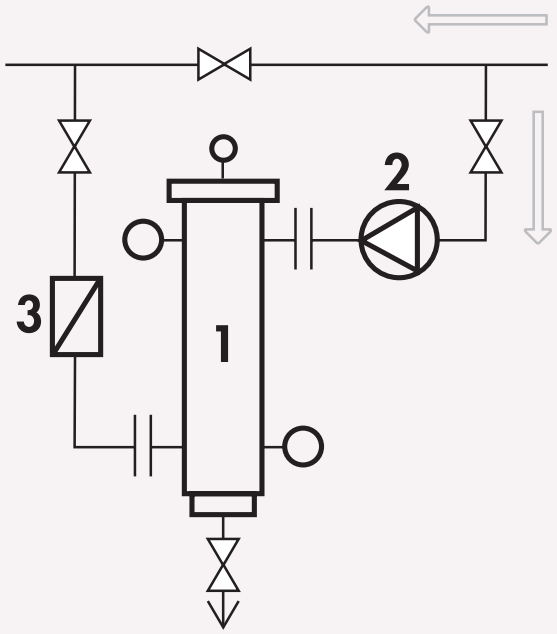
PRODUCT BENEFITS

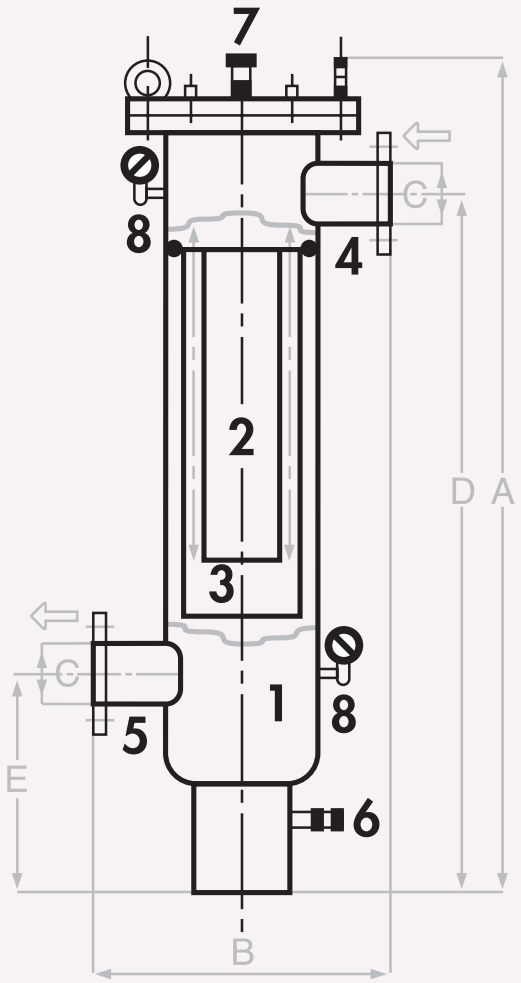
- Keeps installations free of sludge and rust caused by corrosion and oxidisation.
- Two filtration methods: mechanical and magnetic, which provide a double treatment for cleaning and prevention.
- Easy access from its upper part for cleaning.

CODE	MODEL DIAMANTE FILTER	A mm	B mm	D mm	E mm	FLANGE (C) PN 10	WEIGHT Kg	FLOW max. m³/h	R. R. P. €
508765	**BABY**	870	419	656	266	DN 50	63	2.7	**3,123**
508766	**JUNIOR I**	960	419	766	281	DN 50	69	3.07	**3,720**
508767	**JUNIOR II**	1,230	419	1,006	281	DN 65	83	8	**4,152**
508768	**SENIOR I**	1,309	473	1,051	334	DN80	108	15	**4,550**
508769	**SENIOR II**	1,427	473	1,181	369	DN 100	118	20	**4,861**

OPERATIONAL INFORMATION

- It is installed in parallel at a point below the return of the installation, to catch the largest amount of sludge.
- The circulation pump (2) should be above 3 and 4 m.c.a. and be connected with a flow detector at the outlet (3) of the filter; it should also indicate when the filter needs cleaning.





- Mount the filter in derivation so that it does not obstruct the main flow should the filter become blocked.
- Install stopcocks for each connection.
- The filter is already fixed with a valve for emptying.
- Ensure constant flow through the filter using a pump or something similar.

Equipment for the chemical treatment of the refilling water in closed heating and/or cooling circuits.

4.3 ADITRAT

REFILLING WATERS TREATMENT

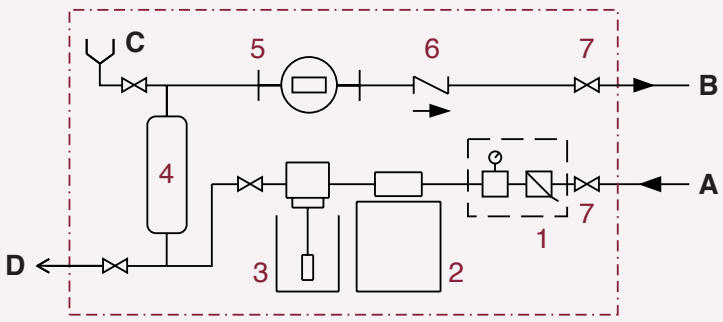
MAIN FEATURES

- Dimensions: base 800 x 680 mm, height 1,050 mm.
- Min./max. pressure: 2-4 bar.
- Maximum temperature: 45 °C.
- Min./max. flow: 20-1,500 litres.

PRODUCT BENEFITS

- Prevents the formation of oxides, sludge, calcifications and/or encrustations, etc., thus avoiding the premature deterioration of the whole installation.
- All the components are assembled and fixed on a base. Easy installation, operation and maintenance.

SCHEMATIC



1. PRESSURE REGULATOR + FILTER
2. WATER SOFTENER
3. DISPENSER AND CORROSION INHIBITOR
4. QUICK REFILLING TANK
5. WATER METER
6. NON-RETURN VALVE
7. CUT OFF VALVES (3/4" CONNECTION)
A. WATER INLET
B. INSTALLATION CONNECTION
C. CHEMICALS INLET
D. EMPTYING

CODE	MODEL	R. R. P. €
508770	**ADITRAT**	4,243

The price includes: product, corrosion inhibitor (27 kg), salts for the water softener (25 kg).

5

GENERAL TERMS OF SALES AND SERVICE

ADISA

HEATING SERIES BY HITECSA

5 GENERAL TERMS OF SALES AND SERVICE

PURPOSE AND FIELD OF APPLICATION

1. The purpose of these General Terms of Sales and Services is to set forth the terms applying to any sale of any good(s) and/or service(s) by HIPLUS AIRE ACONDICIONADO S.L., hereafter HIPLUS, whose headquarters is located at: Masia Torrents 2, 08800 Vilanova i la Geltrú – Barcelona – Spain.
2. These terms apply to any heating equipment and associated service sold under the brand ADISA ('Heating Series' by HITECSA) by HIPLUS.
3. Any order implies full and total acceptance of these General Terms of Sales and Services. Any condition or clause to the contrary, or general purchasing terms of the Buyer, shall therefore be, in the absence of express written acceptance, non-opposable to HIPLUS. Acceptance of these General Terms by the Buyer constitutes a material condition without which HIPLUS would not have entered into an agreement with the Buyer.
4. The present General Terms of Sales and Services cancel and replace any former published or printed version in any ADISA documentation.

CATALOGUES AND DOCUMENTATIONS

1. Due to the rapidly changing technologies and standards, or security improvements, instructions of values provided by HIPLUS on any support media whatsoever have been given for information purposes only. HIPLUS reserves the right to make modifications, at any time and without prior notice, to their equipment or parts of equipment.
2. When HIPLUS makes an equipment selection based on information provided by the Buyer, HIPLUS will not be liable for errors which may result from inaccurate, vague or incomplete data provided to HIPLUS. The Buyer will be the only responsible to ensure that the proposed equipment feature actually correspond to his requirements, both in terms of performance and implementation feasibility.
3. The Buyer shall not amend markings affixed on the equipment or on its packing, nor add any marking, nor make any use of markings, logos and brand which is not expressly authorized by HIPLUS.

OFFERS AND ORDERS

1. The commercial offers established by HIPLUS have a maximum validity of 2 months.
2. The acceptance of a HIPLUS offer includes the acceptance of the present General Terms of Sales and Service and will be considered as a firm order and the Buyer shall not cancel it.
3. Every order is valid only after acceptation and written confirmation of HIPLUS headquarters. HIPLUS is not bound by orders placed unless written confirmation has been given by acknowledgement of order. HIPLUS reserves the right to accept or refuse any order within 10 days of order receipt date.
4. HIPLUS reserves the right, even after partial fulfillment of an order, to demand guarantee or cancel the order(s) after notification, or remaining portion of order(s) in progress, in the name of the Buyer, without indemnity whatsoever, in the following cases:
   - Deterioration of Buyer's financial situation
   - Non-registration of documents and deeds at the commercial court registry
   - Lowering of Buyer's quote by HIPLUS or credit insurance to cover the sales amount
   - Change or modification of Buyer's financial or legal capacity
   - More generally, change in Buyer's situation
5. When the equipment ordered has to be approved by organisms or control offices, reception and vacation expenses are always covered by the Buyer.

ORDER MODIFICATION AND CANCELLATION

1. The Buyer shall check the acknowledgement of order and notice HIPLUS any error or omission within 48 hours maximum from reception. After this period of time, the order shall be considered as accepted by the Buyer and shall be binding for the Buyer.
2. Once accepted, the order shall not be amended nor cancelled without HIPLUS prior and express approval. If an order, or a part of it, is cancelled by the Buyer after being acknowledged, HIPLUS has the right to a monetary settlement equivalent to the cancelled amount.

MANUFACTURING TIMES AND DELIVERY CONDITIONS

1. Except expressly stated otherwise, the manufacturing times are given as an indication. Consequently no delay penalty can be requested, except prior specific agreement at the time of the order.
2. Eventual manufacturing delays cannot justify, in any case, any order cancellation.
3. The manufacturing date mentioned on the acknowledgement of order may be extended when the manufacturing is delayed because of:
   - Lack of communication from the Buyer to HIPLUS of all the instructions necessary to the execution of the order

- 'Force majeure' such as defined by custom authorities
- Absence of payment or payment guarantee

4. For the equipment to be delivered outside the Spanish metropolitan territory, the delivery conditions are in accordance to the INCOTERM 2010 provisions, related to the transfer of risks and to the taking out of an insurance policy, available at the International Chamber of Commerce.
5. The INCOTERM term inherent to each delivery is defined in the purchase order, with eventual transportation costs given as extra, and duly confirmed in the acknowledgement of order.
6. Delivery ex-works Arenys del Mar (EXW), with standard packing, is at no extra-cost.
7. For equipment whose withdrawal from HIPLUS factory is delayed for more than 14 days, for whatever reason not imputable to HIPLUS, storage costs will be invoiced at 5 € per m^2 and per week.

PRICES AND PAYMENT CONDITIONS

1. HIPLUS prices are tax free, EXW Arenys del Mar, basic packing included.
2. Special packing and transportation may be quoted specifically per project, as well as local equipment commissioning.
3. HIPLUS prices may be modified at any time without prior notification. Final contractual prices are confirmed in the acknowledgement of order.
4. To cover administrative expenses, all orders the amount of which is lower than 100 € will be charged for a lump sum of 100 € without taxes.
5. Our invoices are payable by bank wire to the account indicated by HIPLUS, net and without discount, in Euros or in the currency agreed upon in the order.
6. Unless otherwise agreed in writing, payment of invoices must be made at maturity date, following the payment conditions agreed upon between HIPLUS and the Buyer for each order.
7. In case of delay in payment, the due sums will bear an interest based on the interest rate applied by the European Central Bank (ECB) to its most recent refinancing operations, increased by 8 percentage points with a contractual minimum sum of 40 €.
8. The maturity of each payment cannot be delayed, under whatever reasons, even if litigious: any stoppage in payment invoice involves the immediate suspension, if not the cancellation, of the current orders and their associated foreseen warrantee.

WARRANTY

Conditions of application

1. The contractual warranty is applicable only if the Buyer is fully up-to-date in his payment obligations toward HIPLUS.
2. In order to benefit from the warranty, the Buyer must notify HIPLUS, without delay and by writing, of the faults attributed to the equipment and provide all the justifications.
3. The Buyer will permit HIPLUS to assess the faults, and to take remedial actions.
4. Furthermore, the Buyer will not, except if expressly agreed by HIPLUS, carried out himself the repair, or have it carried out by a third party.

Warranty period

1. HIPLUS equipment is guaranteed for parts only against manufacturing defects.
2. Its duration is 24 months from date of dispatch ex-factory.

Limits of liability

1. The warranty does not apply :
   - If problems occur from equipment or spare parts provided by the Buyer or from a design imposed by him
   - If the equipment and/or accessories have been modified by the Buyer or by a third party without HIPLUS prior approval
   - To wear parts, consumables and fluid refills, corrosion and abrasion due to conditions in which the equipment is used in contradiction to HIPLUS specifications, or to particular use of equipment not priory known to HIPLUS.
   - If the equipment is not installed in rules of art by authorized installer.
2. The responsibility of HIPLUS is strictly limited to the obligations defined in the present general conditions. In particular, HIPLUS will have no obligation regarding any compensation, including non material or indirect damage.

APPLICABLE LAW - DISPUTES

1. All sales are submitted to the Spanish law.
2. Any litigation will be exclusively submitted to the Court of Vilanova i la Geltrú – Barcelona – Spain.

NOTES

NOTES

NOTES

Factory in **Arenys de Mar** (Spain)

Factory in **Vilanova i la Geltrú** (Spain)

ADISA

HEATING SERIES BY HITECSA

January **2016**

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