

2 HEAT PRODUCTION PREPACKAGED EQUIPMENT

2.1 ROOF TOP

Heat production prepackaged units, with high efficiency gas boilers, for outdoor installation.

ROOF TOP

CUSTOMISED HIGH POWER
SOLUTION



MAIN CHARACTERISTICS

- Production of heating and/or D.H.W.S. in centralised installations.
- **Up to 3,620 kW** with gas boilers in one casing.
- For outdoor installation.
- **Freestanding structure.**
- Sectors: residential, hotel, commercial and service.
- External equipment maintenance.
- Compliant with UNE 60.601.

PRODUCT ADVANTAGES

- Prepackaged solution.
- High power outputs (in one casing).
- Maximum energy efficiency.
- Customizable equipment: **flexible hydraulic design.**
- Option to include DHW tank.
- **Compact technology:** smaller dimensions and lower weights in the market.
- Performance and leak tests in factory before delivery.
- Savings in costs and installation time.

COST AND INSTALLATION TIME SAVINGS

- Allows workload seasonal disaggregation.
- Possibility of undertaking several installations at the same time.
- Single supplier, one delivery time.
- Reduced installation time:
 - Easy transport and location (freestanding).
 - Quick installation: INSTALL AND CONNECT (water, gas and electricity).
- Fast and safe start up:
 - Fully connected internal equipment.
 - Leak and performance tests on factory before delivery.
- After-sales: service level guaranteed by the S.A.T. Official ADISA (SERV-HIPLUS).



Quality control and comprehensive performance testing guaranteed in factory before delivery.



High power installations for all building types.



Easy to transport and install.

2 HEAT PRODUCTION PREPACKAGED EQUIPMENT

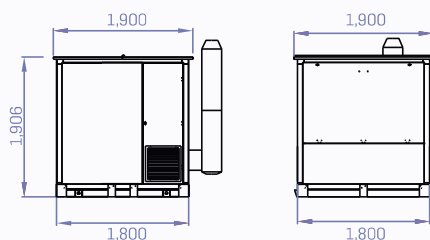
2.1 ROOF TOP

DIMENSIONS AND WEIGHTS

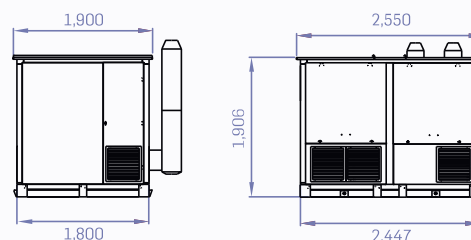
CODE	ROOF TOP MODEL	POWER OUTPUT	LENGTH x WIDTH DIMENSIONS	APROX. WEIGHT WITHOUT WATER (1)	APROX. WEIGHT WITH WATER (1)	MAXIMUM NUMBER OF BOILERS
		kW	m	kg	kg	
see Micro RT	RT0	< 190	0.75 x 1.1	490	570	1
see Mini RT	RT1	< 380	1.2 x 1.1	664	793	2
508447	RT2	< 524	1.8 x 1.8	1,300	1,980	2
508448	RT2.5	< 950	2.5 x 1.8	2,300	2,800	2
508449	RT3	< 1,810	3.0 x 1.8	2,950	3,500	2 – 3
508450	RT3.5	< 1,810	3.55 x 1.8	3,150	4,100	3
508451	RT4	< 2,715	4.2 x 1.8	4,150	5,075	4
508452	RT5.5	< 3,620	5.4 x 1.8	5,180	6,240	4

► (1) Approximate weights that may vary according to the internal equipment. Storage option inside Roof Top equipment with special height boiler casings or DHW storage directly outside and hydraulically connected to the Roof-Top.

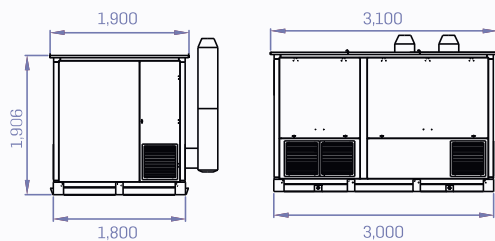
RT2



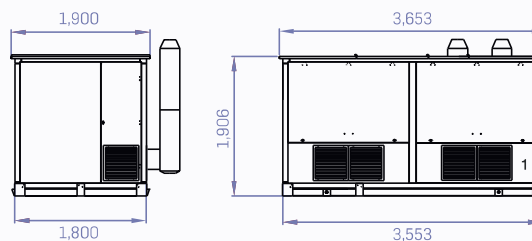
RT2.5



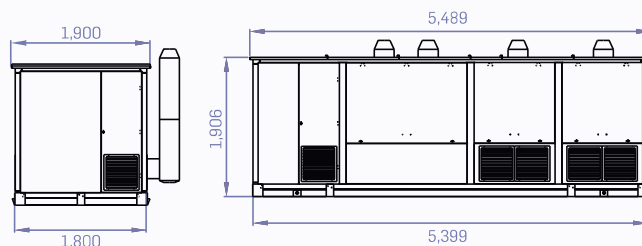
RT3



RT3.5



RT5.5



2 HEAT PRODUCTION PREPACKAGED EQUIPMENT

2.1 ROOF TOP

FLEXIBLE CUSTOMISED DESIGN

ADAPTABLE TO
INSTALLATION
NEEDS

HYDRAULIC

Boilers

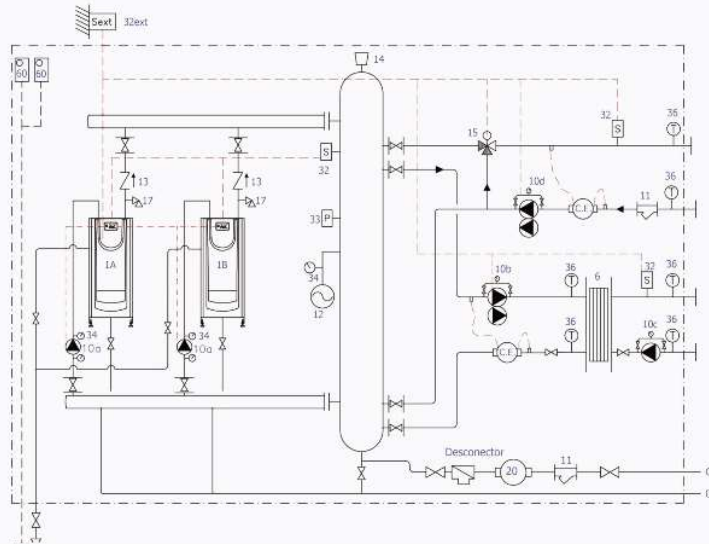
- 1 to 4 condensing boilers

Heating

- 1 or multiple circuits.
- Single or double pumps.
- With/without 3-way valves.
- With/without energy meter.

DHW (Domestic Hot Water):

- With/without plate heat exchanger.
- With/without DHW storage tanks
- With/without pumps (single/double)
- Antilegionella prevention.
- With/without energy meter



CONTROL

Internal equipment control:

- Boiler and inversion sequence.
- Optimize energy efficiency pursuant to circuits and uses.
- Option: double pump cycling.
- Antilegionella prevention: pasteurize storage tank.
- Signals available for the client:
- Start/stop of equipment.
- Unified monitorable general alarm.
- Remote management option: including web server.



External control, various options:

- Equipment full external control option, management:
- Boilers : 0...10 V per boiler
- Pumps, 3-way valves,...
- Global stop/start
- Or:
- 1 signal 0...10 V for the boiler assembly
- Global start/stop
- Pumps, 3-way valves...
- Or:
- Communication/management with protocols: Modbus RTU, Modbus TCP/IP, BACnet MS/TP, BACnet IP
- Other protocols: please, enquire.

SAFETY

- Hydraulic: Lack of water, anti-freeze, overpressure, expansion, automatic drain...
- Gas: detection.
- Electrical: electrical cabinet with internal equipment protection
- Equipment installed outside the building.
- Air vent: the equipment includes large-capacity automatic vents.
- Filling: in accordance with current regulations, includes disconnector.



2 HEAT PRODUCTION PREPACKAGED EQUIPMENT

2.1 ROOF TOP

*Roof Top Adisa:
Solutions
Plug & Play*

FOR AN EASIER INSTALLATION

THE MOST COMPACT SIZE AND WEIGHT IN THE MARKET

- Maximum use of the built area.

950 kW on an area of 2.5 x 1.8 m
3,620 kW on an area of 5.4 x 1.8 m



FREE-STANDING STRUCTURE

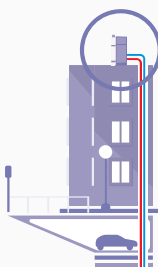
- Equipped with anchor points for lifting with a crane.



► Views of a ROOF TOP equipment with 2 boilers and instantaneous DHW production.

NEW BUILDING

- Easy rooftop installation.
- Minimum weight, minimum influence on structural reinforcement.
- Space savings in parking, shops, storage rooms, etc.



RECONVERSION

- Simplify the reconversion of old boiler rooms:
 - In the second basement or lower.
 - Very difficult access.
 - Unsuitable flues outlets.
 - Forced vents.



2 HEAT PRODUCTION PREPACKAGED EQUIPMENT

2.2 MICRO AND MINI ROOF TOP

Compact heat production prepackaged equipment, with high efficiency gas boilers, for outdoor installation.

MICRO AND MINI ROOF TOP

COMPACT SOLUTIONS FOR
EFFICIENT INSTALLATIONS



MAIN CHARACTERISTICS

- Heating and/or D.H.W.S. production in centralised installations.
- **Micro Roof Top:**
powers up to 190 kW (1 boiler + 1 pump).
- **Mini Roof Top:** powers up to 380 kW.
Up to 2 ADI CD boilers or other ranges.
- **Reduced sizes and weights:**
1.2 x 1.1 m. (Mini Roof Top)
0.75 x 1.1 m. (Micro Roof Top)
H: 2 m.
- **Freestanding structure.**
- **Standard configuration: view of boilers from the front, circuit connections on the right (circuit connections on the left are also available on order).**

TECHNICAL DETAILS

- Up to 2 ADI boilers (according to ErP Directive).
- Simple water circulation pump, high performance (according to ErP).
- Maximum hydraulic pressure: 4 bar.
- Maximum flow temperature: 85°C (90 °C).
- Power supply: 230 V, 50 Hz, single-phase with earth connection.

PRODUCT ADVANTAGES

COMPACT AND COMPLETE SOLUTION

It includes:

- Boilers with modulating burner.
- Sequence control (2 boilers).
- Boiler pump, variable speed.
- Circuit: hydraulic, gas.
- Safety:
 - Expansion vessel
 - Overpressure valve
 - Gas detection
 - Lack of water
 - Anti-freeze
 - Electric
- Electrical cabinet.
- Lighting.
- Air shafts.

Equipment tested before supply.

INSTALLATION SAVINGS

■ GAS/ECONOMIC SAVINGS

- Modulating boilers: total adaptation to the installation demand variation.

■ POWER SAVING

- High-performance pumps (one per generator) stop when the boilers do.
- Low-consumption boilers with variable speed motor fan (from 48 W).

■ SPACE-SAVING DESIGN

- Optimized and reduced dimensions and weights.

2 HEAT PRODUCTION PREPACKAGED EQUIPMENT

2.2 MICRO AND MINI ROOF TOP

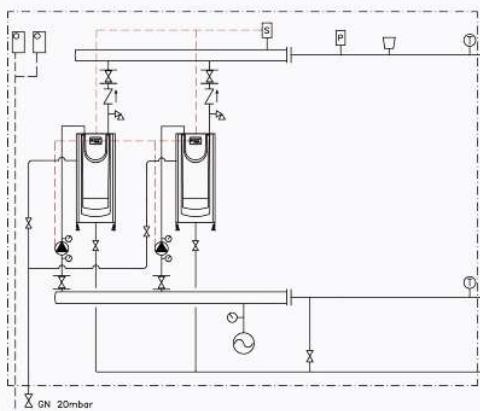
FREE-STANDING STRUCTURE



MINI ROOF TOP

BASIC CONFIGURATION

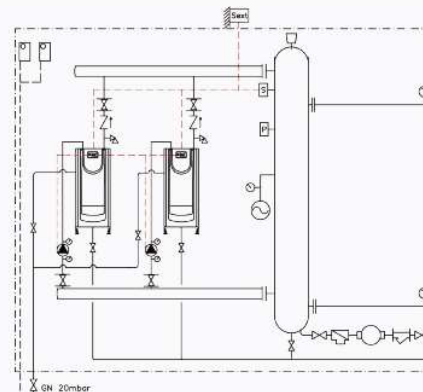
- Up to 2 ADI boilers.
- Boiler pump.
- Sequence control (case: 2 boilers).
- Circuit flow and return: 3".
- Electrical cabinet.
- Overpressure safety valves.
- Expansion vessel.
- Temperature sensors.
- Gas detection.
- Lighting.
- External start/stop.
- Unified alarm signal.
- External control signal available : 0...10 V.



ADDITIONAL COMPLEMENTS

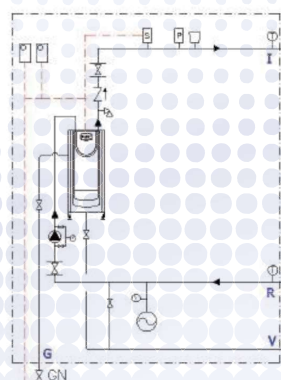
- **mRT-E1** vertical low loss header, insulated with automatic air purge (code 807832).
- **mRT-E2** Filled circuit.
- **mRT-E3** Outside temperature sensor.
- **mRT-E4** Gas solenoid valve.
- **mRT-E5** Modbus RTU control.

*Note: for supply of mRT-E1 to E4 specify in order;
mRT-E1 to E3: supply installed inside the equipment;
mRT-E4: loose supply, to be installed by the client outside the equipment.*

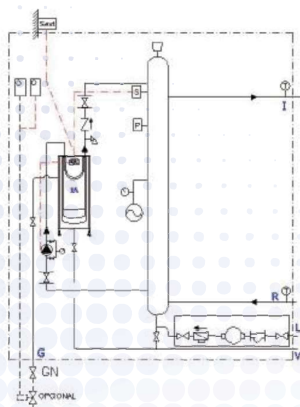


MICRO ROOF TOP

BASIC CONFIGURATION



CONFIGURATION WITH ALL OPTIONS INCLUDED



OPTIONAL:

- LOW LOSS HEADER
- OUTSIDE TEMPERATURE SENSOR
- FILLING CIRCUIT
- GAS SOLENOID VALVE
- MODBUS RTU COMMUNICATION

REVIT BIM

Visit the website,
www.adisaheating.com
to download the models
3D BIM.

2 HEAT PRODUCTION PREPACKAGED EQUIPMENT

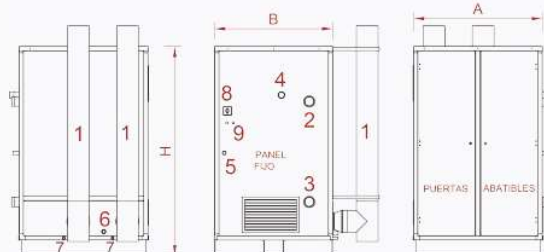
2.2 MICRO AND MINI ROOF TOP

TECHNICAL SPECIFICATIONS OF EQUIPMENT WITH ADI CD BOILERS

CODE	MINI ROOF TOP MODEL	POWER OUTPUT	BOILERS	BASE DIMENSION	WEIGHT WITHOUT WATER	WEIGHT WITH WATER
		kW	number	m	kg	kg
510125	MICRO RT 70 x 1 CD	70.5	1	0.75 x 1.1	446	512
510126	MICRO RT 85 x 1 CD	85	1	0.75 x 1.1	448	517
510127	MICRO RT 105 x 1 CD	104	1	0.75 x 1.1	459	531
510128	MICRO RT 120 x 1 CD	120	1	0.75 x 1.1	475	547
510129	MICRO RT 175 x 1 CD	161.8	1	0.75 x 1.1	490	570
509012	MINI RT 200 x 1 CD	197.5	1	1.2 x 1.1	665	752
509013	MINI RT 250 x 1 CD	241	1	1.2 x 1.1	686	776
510720	MINI RT 325 x 1 CD	294	1	1.2 x 1.1	781	898
510721	MINI RT 375 x 1 CD	354	1	1.2 x 1.1	791	924
508467	MINI RT 70 x 2 CD	141	2	1.2 x 1.1	576	677
508468	MINI RT 85 x 2 CD	170	2	1.2 x 1.1	580	687
508469	MINI RT 105 x 2 CD	208	2	1.2 x 1.1	602	715
508470	MINI RT 120 x 2 CD	240	2	1.2 x 1.1	634	747
508471	MINI RT 175 x 2 CD	323.6	2	1.2 x 1.1	664	793

EQUIPMENT DIMENSIONS AND VIEWS

MINI ROOF TOP

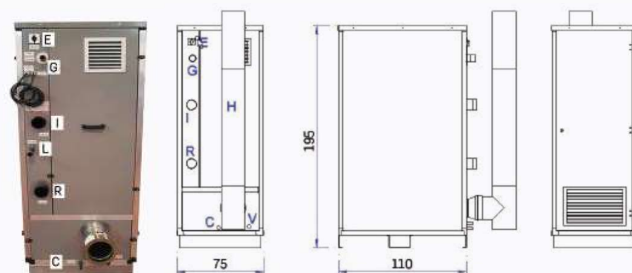


EXAMPLE MINI RT (1.2 x 1.1 m) WITH 2 BOILERS:

1. Flues chimneys
2. Water supply: 3" (male thread)
3. Water return: 3" (male thread)
4. Gas : 2" (male thread)
5. Filling (Power < 150 kW: 3/4", rest: 1")
6. Emptying (DN 32)
7. Condensate drainage
8. Electric connection
9. Gas solenoid valve actuator cables

BASE (A x B): 1,200 x 1,100 mm
BOILER CASING HEIGHT (H): 2,000 mm

MICRO ROOF TOP



EXAMPLE MICRO RT (0.75 x 1.1 m) WITH 1 BOILER:

- (I-R) Water return installation: 3" (threaded)
 (G) Gas (G): 2"
 (V) Emptying : PVC, DN 32
 (H) Chimney : isolated, inside diameter: 150
 (C) Condensate drainage : PVC, DN 20
 (E) Electrical switch, Power
 (L) Filling (Power < 150 kW: 3/4", rest : 1")

2 HEAT PRODUCTION PREPACKAGED EQUIPMENT

2.3 TERMI PACK SKID

Heat production prepackaged skid with high efficiency gas boilers for installation inside the boiler room.

TERMI PACK SKID

PREPACKAGED INDOOR SOLUTION



MAIN CHARACTERISTICS

- Heating and/or DHW production in centralized installations.
- **Up to 3,620 kW** on a single skid (extendable through several skids).
- For installation inside a boiler room.
- **Free-standing structure:** includes all necessary elements (boilers, pumps, gas, electric elements, controls, securities.)
- Sectors: residential buildings, public centres, office buildings, hotels, shopping centres, hospitals, etc.

PRODUCT ADVANTAGES

- Prefabricated free-standing solution.
- High powers (on one skid).
- Maximum annual operating performance.
- Customizable equipment: **custom design**, adapted to every installation and client.
- **Compact technology:** most reduced dimensions and weights of the market.
- Leak tester in the factory before their supply.
- Simplicity of start up and safety of operation.

OPERATION DATA

- Power supply: three-phase, 380 V, neutral and ground, or 220 V, single-phase, neutral and ground.
- Fuel: natural gas or propane.
- Hydraulic pressure: 4 kg/cm² (higher pressures: request information).
- The boiler room where the skid is located must comply with the rules and regulations in force.
- The air shafts (responsibility of the installer company) must comply with the current regulations.

CODE	TERMI PACK MODEL	POWER OUTPUT	LENGTH x WIDTH DIMENSIONS
		kW	m
509048	TERMI PACK 0	< 380	1.2 x 1.1
509006	TERMI PACK 2	< 464	1.8 x 1.8
509007	TERMI PACK 2.5	< 950	2.5 x 1.8
509008	TERMI PACK 3	< 1,810	3.0 x 1.8
508456	TERMI PACK 3.5	< 1,810	3.55 x 1.8
508457	TERMI PACK 4	< 2,715	4.2 x 1.8
509009	TERMI PACK 5.5	< 3,620	5.4 x 1.8

3 DOMESTIC HOT WATER (DHW)

3.1 PLATE HEAT EXCHANGERS

Detachable plate heat exchangers to transfer heat between two circuits.

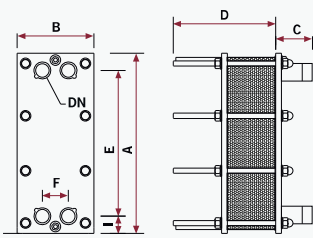
PLATE HEAT EXCHANGERS



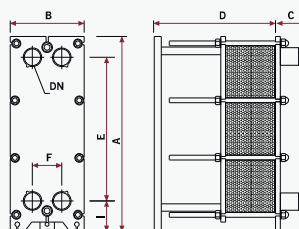
DIMENSIONS

MODEL	A	B	C MAX.	D	D	D	E	F	I
	mm	mm	mm	mm	mm	mm	mm	mm	mm
IT021	320	200	88	170 (< 30 plates)	270 (< 50 plates)	470 (< 72 plates)	230	68	45
IT042	470	200	88	170 (< 30 plates)	270 (< 50 plates)	470 (< 72 plates)	380	68	45
IT082	755	200	88	170 (< 30 plates)	270 (< 50 plates)	470 (< 72 plates)	665	68	45
IT126	819	310	118	465 (< 72 plates)	605 (< 102 plates)	835 (< 152 plates)	603	123	128
IT165	1,050	310	88	320 (< 42 plates)	460 (< 72 plates)	600 (< 102 plates)	750	140	170
IT300	1,080	530	101	740 (< 102 plates)	1,240 (< 202 plates)	Enquire	705	250	198

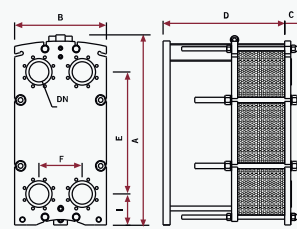
MODELS IT021, IT042 and IT082



MODELS IT126 and IT165



MODEL IT300



TECHNICAL SPECIFICATIONS

MODEL	AREA	DIMENSIONS HEIGHT x WIDTH	PLATE WEIGHT	PLATE TYPE	RANGE OF POWER APPROX. kW	HYDRAULIC CONNECTION	MAX. N° PLATES
	m²	mm	kg			mm	number
IT021	0.021	305 x 145	0.21	Unique	< 155	DN 32 stainless steel	71
IT042	0.041	457 x 145	0.32	Unique	< 317	DN 32 stainless steel	71
IT082	0.081	740 x 145	0.45	Unique	< 520	DN 32 stainless steel	71
IT126	0.125	723 x 245	0.70	A and B	< 1,500	DN 65 stainless steel	151
IT165	0.164	857 x 245	0.86	A and B	< 1,800	DN 50 stainless steel	151
IT300	0.268	877 x 425	1.67	A and B	< 4,000	DN 100 flange	401