

MULTIFLEX 4 DC INVERTER

Multisplit system R32 with recovery for the production of heating, air conditioning and ACS



ACS TANK BOILER



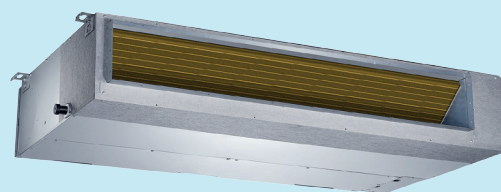
UP TO 3 SPLITS TREDI



CONSOLE DC INVERTER



CASSETTE DC INVERTER



DC INVERTER DUCTABLE

TECHNICAL FEATURES

MULTIFLEX allows you to manage air conditioning, heating and domestic hot water production, using a single external unit. Furthermore, the exclusive technology used allows you to activate the special energy recovery function during summer operation. The fields of application of MULTIFLEX range from residential systems to systems for accommodation facilities, up to commercial systems.

Innovative

The exclusive technology used to build the external units of this series enables the best efficiency through energy recovery.

Flexible

Compatible with console, ducted, four-way cassette and wall-mounted split type internal units. Up to 3 internal units can be connected simultaneously.

Efficient

Energy efficiency class A+ in domestic hot water production mode in average climate conditions with L drawing profile.

Effective

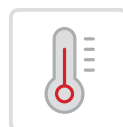
Operation guaranteed from -15° C to +42° C of external temperature, with domestic hot water up to 55° C.

Intelligent

The MULTIFLEX system can be connected to smart grid systems for the intelligent management of energy consumption, or be directly connected to a photovoltaic system.

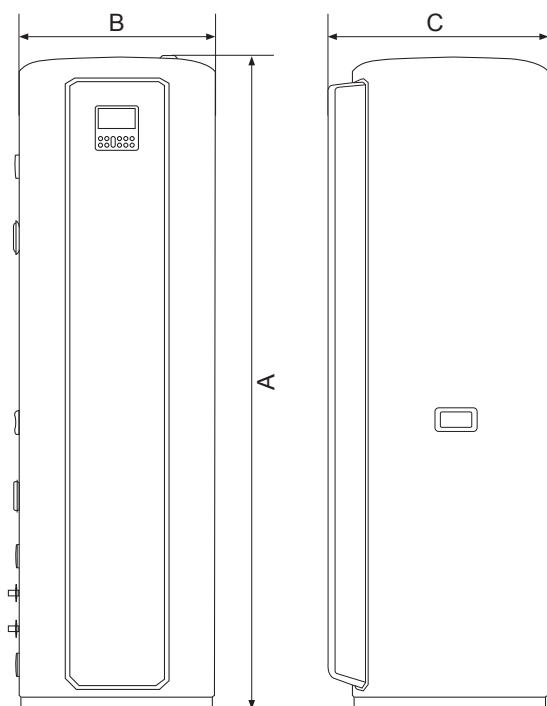
Sustainable

Thanks to the efficient use of residual heat, the system drastically reduces overall energy consumption. This translates not only into significant savings on consumption but also into a reduced environmental impact.



TANK 190 LT PER MULTIFLEX

DHW boiler



	A	B	C	
	mm	mm	mm	Kg
TANK 190 LT	1660	504	574	70



MODEL UNIT FOR THE PRODUCTION OF ACS

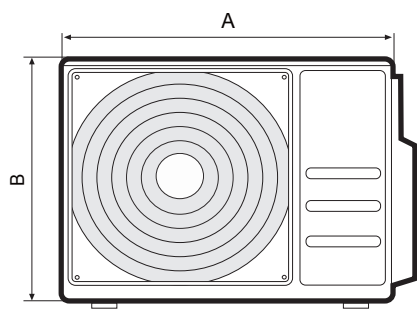
			€
TANK 190 LT FOR THE PRODUCTION OF ACS	cod. 65000011		2.320,00

TECHNICAL DATA TABLE		UM	TANK 190 LT
Field of use		°C	da 15 a + 43
Refrigeration connections		mm / "	6,45 + 9,52 / 1/4" + 3/8"
DHW set point temperature (with resistance enabled)		°C	38÷55 (70)
Tank corrosion protection			Magnesium anode
Construction material			Enamelled steel
Net internal volume		l	190
Electrical power supply			230V/1/50Hz
ACS performance according to EN 16147:21017			
Load profile		I	L
Rated power ^{dhvt}		kW	3,9
COP ^{dhvt}		W/W	3,4
Set point in ACS test		°C	52
Max withdrawal in ACS = 40 °C		l	240
Energy class			A+
Standby power consumption		W	50
Max. tank pressure		bar	10
Protection system			Magnesium sacrificial anode
Material type			Vitrified steel
Integration mode			2 kW electric resistance
ACS production only data			
Water heating power*		kW	4,0
COP		W/W	3,9
Electrical data			2+T
Electrical wiring			2+Earth
Recommended minimum electrical power section		mm ²	1,5
Electric resistance power		kW	2
Electric resistance current		A	9,1
Wiring section to outdoor unit		mm ²	1,0x3+Earth

* Air inlet 15°C, air outlet 12°C, water inlet 15°C, water outlet 45°

MULTIFLEX 4 DC INVERTER OUTDOOR UNIT

Multiflex 4-connection outdoor units

	A		C	
	B			
	A	B	C	
	mm	mm	mm	kg
MULTIFLEX 4 CONNECTORS	946	810	410	64,3

DC inverter



MODELLO UNITÀ PER LA PRODUZIONE DI ACS

	COOLING POWER kW	THERMAL POWER kW	€
MULTIFLEX 4 DC INVERTER OUTDOOR UNIT cod. 65000010	7,91	8,20	2.820,00

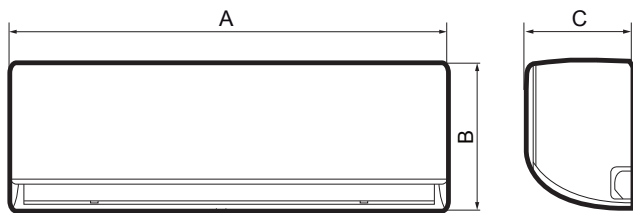
TECHNICAL DATA TABLE		UM	MULTIFLEX 4 ATTACCHI
Cooling (standard conditions)	Capacity	W	7,91
	Power consumption	kW	2,45
	Current consumption	A	11
	EER	W/W	3,23
Heating (standard conditions)	Capacity	kW	8,2
	Power consumption	kW	2,2
	Current consumption	A	10,5
	COP	W/W	3,71
Raffreddamento Stagionale	Pdesign	kW	7,9
	S.E.E.R.	W/W	6,3
	Energy efficiency class		A++
Seasonal Cooling (on average)	Pdesign	kW	6,0
	S.C.O.P.	W/W	4,1
	Energy efficiency class		A+
	Tbiv	°C	-7
Rated power input		W	5300
Rated current		A	24
Air flow rate		m³/h	4000
External sound pressure level		dB(A)	61
External sound power level		dB(A)	69
Refrigerant	Type	Tipo	R32
	GWP	GWP	675
	Charged quantity	Kg	1,8
Refrigerant pipes	Liquid side/Gas side (AC)		3x1/4" - 2x3/8"+1x1/2"
	Max. length for all rooms (AC)	m	80 (20m per ACS)
	Max. length for outdoor unit (AC)	m	35 (20m per ACS)
	Max. height difference between I.U. and O.U. (AC)	m	15
	Max. height difference between I.U. (AC)	m	10
Power supply			230V/1/50Hz
Operating temperatures		°C	-15÷50 / -15÷24

MULTIFLEX 4 DC INVERTER CONFIGURATIONS OUTDOOR UNIT WITH MULTISPLIT

MULTISPLIT 9 + TANK 190 LT	MULTISPLIT 9+9 + TANK 190 LT	MULTISPLIT 9+9+9 + TANK 190 LT
MULTISPLIT 12 + TANK 190 LT	MULTISPLIT 9+12 + TANK 190 LT	MULTISPLIT 9+9+12 + TANK 190 LT
MULTISPLIT 18 + TANK 190 LT	MULTISPLIT 9+18 + TANK 190 LT	MULTISPLIT 9+9+18 + TANK 190 LT
MULTISPLIT 24 + TANK 190 LT	MULTISPLIT 12+12 + TANK 190 LT	MULTISPLIT 9+12+18 + TANK 190 LT
	MULTISPLIT 12+18 + TANK 190 LT	MULTISPLIT 9+18+18 + TANK 190 LT
		MULTISPLIT 12+12+12 + TANK 190 LT

MULTISPLIT TREDI DC INVERTER - INTERNAL UNIT

R32 split system air conditioners - Wi-Fi as standard



	A	B	C	
	mm	mm	mm	kg
TREDI 9 DC INVERTER UI	722	290	187	7,3
TREDI 12 DC INVERTER UI	802	297	189	8,6
TREDI 18 DC INVERTER UI	965	319	215	10,9
TREDI 24 DC INVERTER UI	1080	335	226	13,7



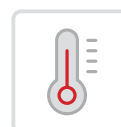
TECHNICAL FEATURES

- Silent operation: 26 dB(A) at minimum speed
- Energy class A+++
- Exceptional cooling performance, excellent performance even with external temperatures down to -15 °C
- Sleep function
- The timer function allows you to program the switching on and off of the air conditioner
- The Turbo button allows you to reach the set temperature in cooling mode much faster
- Follow Mee Wifi function as standard
- Silver Ion filter as standard
- Rotary compressor with DC Inverter technology
- Up to 70% reduction in energy consumption
- Heat pump operation up to -15 °C external
- Automatic restart in the event of power surges

MODEL INTERNAL UNIT FOR HEATING & AIR CONDITIONING		COOLING POWER KW	THERMAL POWER KW	€
TREDI 9 MONO DC INVERTER U.I. R32	cod. 66440000R	2,64 (1,02÷3,19)	2,93 (0,82÷3,36)	338,00
TREDI 12 MONO DC INVERTER U.I. R32	cod. 66430000R	3,52 (0,82÷4,16)	3,81 (1,08÷4,2)	396,00
TREDI 18 DC MONO INVERTER U.I. R32	cod. 66490000R	5,28 (3,39÷5,89)	5,42 (3,10÷5,84)	528,00
TREDI 24 MONO DC INVERTER U.I. R32	cod. 66520000R	6,27 (2,11÷8,20)	6,71 (1,55÷8,20)	643,00

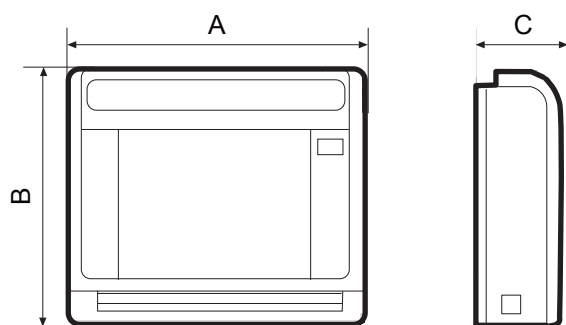
TECHNICAL DATA TABLE	UM	MULTI TREDI 9	MULTI TREDI 12	MULTI TREDI 18	MULTI TREDI 24
Cooling Power	kW	2,64 (1,02÷3,19)	3,52 (0,82÷4,16)	5,28 (3,39÷5,89)	6,27 (2,11÷8,20)
Power Input	kW	0,74	1,08	1,55	1,94
Current Input	A	4,95	5,10	6,70	10,90
Heating Power	kW	2,93 (0,82÷3,36)	3,81 (1,08÷4,2)	5,42 (3,10÷5,84)	6,71 (1,55÷8,20)
Power Input	kW	0,78	1,02	1,46	1,80
Current Input	A	3,50	3,66	6,50	9,30
Power Supply		230V/1/50Hz	230V/1/50Hz	230V/1/50Hz	230V/1/50Hz
Air Flow	m³/h	416/309/230	584/477/395	730/500/420	1020/830/640
Noise Level	dB(A)	39/32/26	39,5/33/25	43/33,5/28	47/41,5/30,5
Gas Connections		3/8"	3/8"	1/2"	5/8"
Liquid Connections		1/4"	1/4"	1/4"	3/8"

Cooling test conditions: int. 27 °C d.b. / 19.5 °C w.b. - ext. 35° C b
 Heating test conditions: int. 20 °C d.b. - ext. 7 °C d.b. / 6 °C w.b.



CONSOLE FOR MULTIFLEX DC INVERTER

Split system air conditioners



	A	B	C	
	mm	mm	mm	kg
CONSOLE 12 INVERTER U.I.	794	621	206	14,9

TECHNICAL FEATURES

- Equipped with remote control
- Rotary compressor with DC Inverter technology
- Quickly reaches the set temperature (about 2/3 of the time of a traditional air conditioner) with up to 70% reduction in energy consumption
- Silent operation
- Automatic restart in the event of power surges
- With Wifi provision via Smart port and clean contact for optional remote On-Off

MODEL		COOLING POWER kW	THERMAL POWER kW	€
CONSOLE 12 FOR MULTIFLEX DC INVERTER U.I.	cod. 63000014	3,52	3,81	924,00

TEC. DATA TABLE	UM	CONSOLE 12
Cooling capacity	kW	3,52
Current Absorbed	A	4,52
Thermal Power	kW	3,81
Current Absorbed	A	4,43
Power supply		230V/1/50Hz
Air Flow	m ³ /h	650/580/490
Sound Level E.I.	dB (A)	37/34/27
Pipeline length	m	≤ 25
Height difference between Units	m	≤ 10
Gas Attacks		3/8"
Liquid Attacks		1/4"

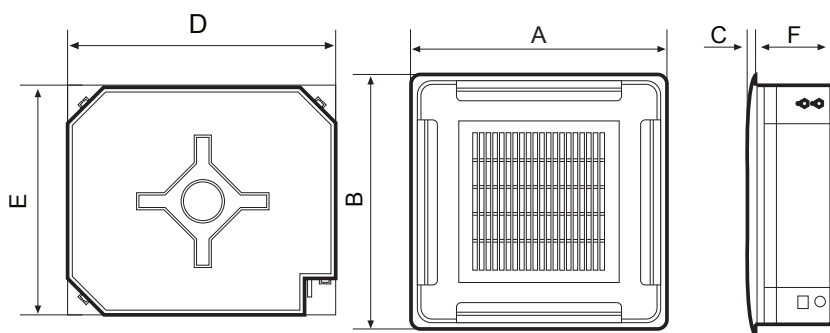
*Value refers to the sum of the external unit + internal unit absorption (separate power supplies)

Cooling test conditions: int. 27°C d.b. / 19.5°C w.b. - ext. 35°C d.b. / 24°C w.b.

Heating test conditions: int. 20°C d.b. - ext. 7°C d.b. / 6°C w.b.

MULTIFLEX DC INVERTER CASSETTA

R32 split system air conditioners with Wi-Fi provision



	A	B	C	D	E	F	
	mm	mm	mm	mm	mm	mm	kg
CASSETTA INVERTER 12 U.I.	647	647	50	570	570	260	16,3
CASSETTA INVERTER 18 U.I.	647	647	50	570	570	260	16,3


TECHNICAL FEATURES

- Equipped with remote control and condensate drain pump
- Rotary compressor with DC Inverter technology
- Quickly reaches the set temperature (about 2/3 of the time of a traditional air conditioner)
- Reduction of up to 70% of energy consumption and silent operation
- Automatic restart in the event of power surges
- Ideal installation for false ceilings
- Wi-Fi provision via Smart Port

CASSETTA FOR MULTIFLEX DC INVERTER

MODEL		COOLING POWER kW	THERMAL POWER kW	€
CASSETTA 12 DC INVERTER U.I. R32	cod. 64000006	3,51 (0,85÷4,11)	3,80 (0,47÷4,31)	1.065,00
CASSETTA 18 DC INVERTER U.I. R32	cod. 64000007	5,27 (2,90÷5,59)	5,57 (2,37÷6,10)	1.194,00

ACCESSORIES

	WI-FI SMART PORT WI-FI WALL CONTROL FOR CASSETTA, CEILING/FLOOR, CASSETTE AND DUCTED	cod. 63000012	164,00
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TECH. DATA TABLE	UM	CASSETTA 12	CASSETTA 18
Cooling capacity	kW	3,51 (0,85÷4,11)	5,27 (2,90÷5,59)
Current Absorbed*	A	4,45	7,20
Thermal Power	kW	3,80 (0,47÷4,31)	5,23 (2,37÷6,10)
Current Absorbed*	A	4,73	6,80
Power supply		230V/1/50Hz	230V/1/50Hz
Air Flow	m³/h	620/510/420	720/620/500
Sound Level	dB (A)	42/38,5/31,5	44/41/31,5
Gas Attacks		3/8"	1/2"
Liquid Attacks		1/4"	1/4"

* Value refers only to the internal unit

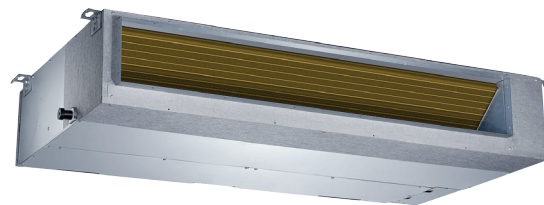
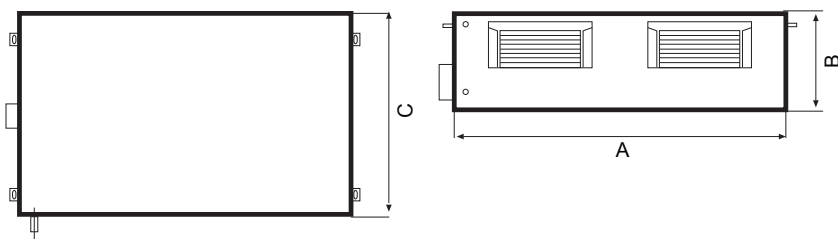
For system consumption, refer to the external unit label

Cooling test conditions: int. 27°C d.b. / 19.5°C w.b. - ext. 35°C d.b. / 24°C w.b.

Heating test conditions: int. 20°C d.b. - ext. 7°C d.b. / 6°C w.b.

DUCTABLE FOR MULTIFLEX DC INVERTER

R32 split system air conditioners with Wi-Fi provision



	A	B	C	
	mm	mm	mm	kg
DUCTABLE 9 INVERTER U.I.	700	200	506	16,6
DUCTABLE 12 INVERTER U.I.	700	200	506	16,6
DUCTABLE 18 INVERTER U.I.	700	245	750	24,4

TECHNICAL FEATURES

- Equipped with remote control and condensate drain pump up to 200 m (except version 8)
- Rotary compressor with DC Inverter technology
- Quickly reaches the set temperature about 2/3 of the time of a traditional air conditioner)
- Reduction of up to 70% of energy consumption and silent operation
- Automatic restart in the event of power surges
- Ideal installation for false ceilings
- WI-FI provision via Smart Port

DUCTABLE FOR MULTIFLEXDC INVE

DUCTABLE FOR MULTIFLEXDC INVERTER

MODEL	COOLING POWER kW	THERMAL POWER kW	€
DUCTABLE 9 DC INVERTER U.I. R32	2,63	2,93	919,00
DUCTABLE 12 DC INVERTER U.I. R32	3,51	3,81	924,00
DUCTABLE 18 DC INVERTER U.I. R32	5,27	6,00	1.156,00

TECHNICAL DATA TABLE	UM	CANAL 9	CANAL 12	CANAL 18
Cooling Power	kW	2,63	3,51	5,27
Current Absorbed*	A	1,00	1,00	0,66
Thermal Power	kW	2,93	3,81	6,00
Current Absorbed*	A	1,10	4,52	6,80
Power Supply		230V/1/50Hz	230V/1/50Hz	230V/1/50Hz
Air Flow	m ³ /h	620/540/450	660/570/470	900/780/650
Useful Static Pressure	Pa	25	25	25
Sound Level	dB (A)	54	52	53
Gas Attacks		3/8"	3/8"	1/2"
Liquid Attacks		1/4"	1/4"	1/4"

* Value refers to the internal unit only

For system consumption, refer to the external unit label

Cooling test conditions: int. 27°C d.b. / 19.5°C w.b. - ext. 35°C d.b. / 24°C w.b.

Heating test conditions: int. 20°C d.b. - ext. 7°C d.b. / 6°C w.b.

Intelligent system for energy recovery

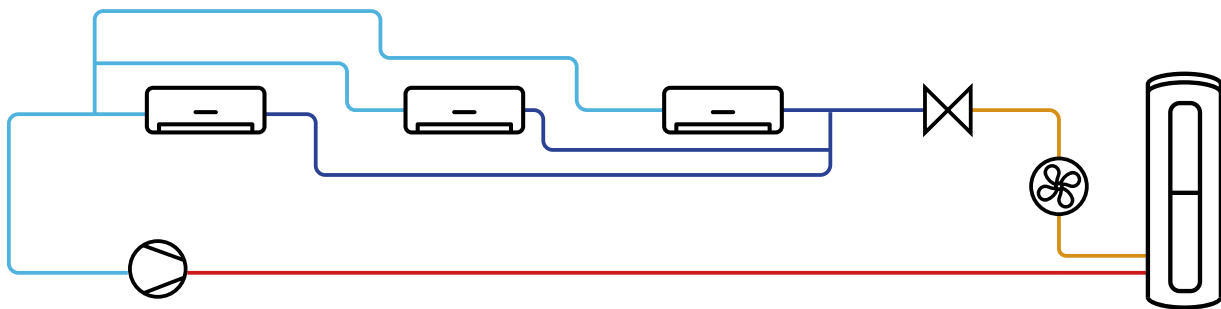


Intelligent system for energy recovery

During summer operation, the external unit dissipates the heat extracted from the internal environments to cool them. Heat dissipated to the outside has always been a major concern for technicians and designers, who are looking for a way to recover this heat.

Finally, ACCORRONI, with the MULTIFLEX system, allows residential or small commercial installations to take advantage of the great opportunity represented by summer energy recovery.

The MULTIFLEX system, through the exclusive combination between an innovative refrigeration scheme and an advanced electronic control, allows you to activate not only the usual operating modes of all air conditioners, but also domestic hot water production modes with particular regard to the recovery of the heat from summer condensation. Ultimately, domestic hot water can be produced for free by exploiting the heat that would otherwise be dissipated outside.



Operating principle

When the indoor units are activated in summer mode and the refrigerant gas reaches an adequate temperature, the internal control system sends the hot gas to the heat exchanger of the vitrified steel tank.

At this point, the hot gas completes its condensation process by releasing a large amount of energy to the water present inside the tank.

It must be underlined that this heat exchange technology is extremely advanced and above all it is extremely safe with regards to the quality of the water contained in the tank.

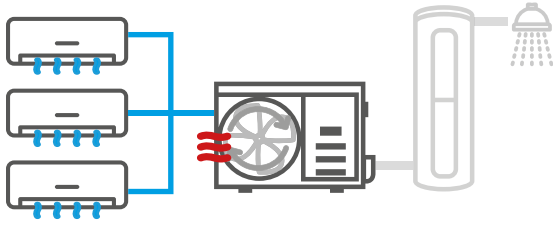
When the heat to be dissipated is greater than what is needed by the tank, the system sends the excess energy to the external unit to complete the gas condensation phase.

When the domestic hot water tank has reached the desired temperature, all the condensation heat is dissipated outside as in a traditional air conditioner.

If the summer air conditioning system is not active, however, but there is a need to heat the domestic hot water tank, then the external unit starts to work

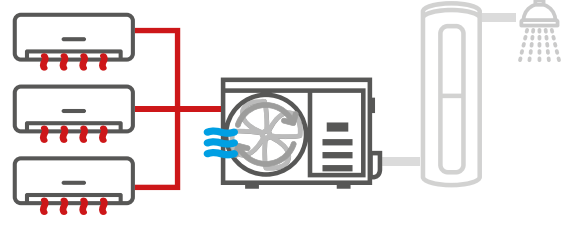
in heating mode for the sole purpose of restoring the temperature inside the tank.

Possible Operating Modes



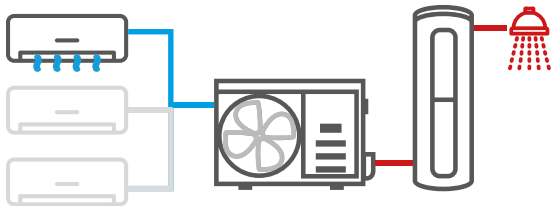
Conditioning only

The MULTIFLEX system can work like all Accorroni air conditioners, in summer mode. It provides excellent comfort in air conditioning mode without the need for the domestic hot water tank to be in operation. Up to three indoor units can be connected. Each internal unit can be indifferently turned on or off. All indoor units that are turned on must operate in the same operating mode.



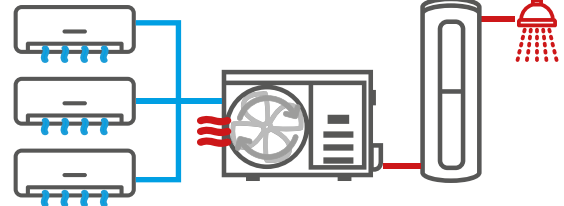
Heating only

The MULTIFLEX system can work like all Accorroni air conditioners, in winter mode. Provides excellent comfort in heating mode without the need for the domestic hot water tank to be in operation. Up to three indoor units can be connected. Each internal unit can be indifferently turned on or off. All indoor units that are turned on must operate in the same operating mode.



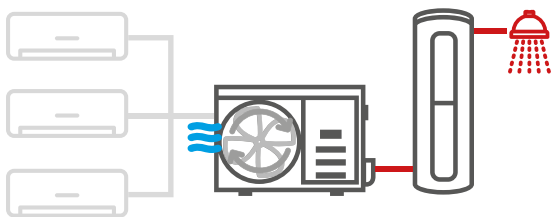
Air conditioning with total recovery

The heat removed from the internal environment thanks to air conditioning is sent directly to the domestic hot water tank. In this condition, maximum energy savings are achieved. In fact, the compressor, with the same consumption, carries out 2 operations simultaneously: AIR CONDITIONING and DHW PRODUCTION.



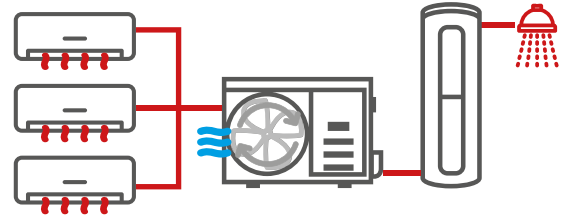
Conditioning with partial recovery

The heat removed from the internal environment thanks to air conditioning is sent directly to the domestic hot water tank. A part of the removed heat is disposed of through the external unit, as it is in excess of the heat potentially transferable to the tank. In this mode, the 2 operations are guaranteed simultaneously: AIR CONDITIONING and DHW PRODUCTION.



DHW production only

During periods in which there is no need for air conditioning or heating, the system, if enabled, only deals with the production of DHW



Heating and DHW production

In the heating period (winter operation), the system takes care of both providing heating through the connected internal units and producing DHW by heating the dedicated tank.