

# BAXI

CLIMATIZAÇÃO



# Efficient HVAC Solutions | BAXI

IST PCS 20.03.2023

# Most common types of HVAC

## Air-to-air and Air-to-water

Air-to-water delivers an entire solution, of climatization and DHW production;

Air-to-air with an air-to-water DHW dedicated solution, provides climatization and DHW separately into two systems; i.e. Air conditioner and DHW heat pump;

Platinum BC Integra  
iR32



BC ACS 200/300 iR290



# BAXI Integral Solution

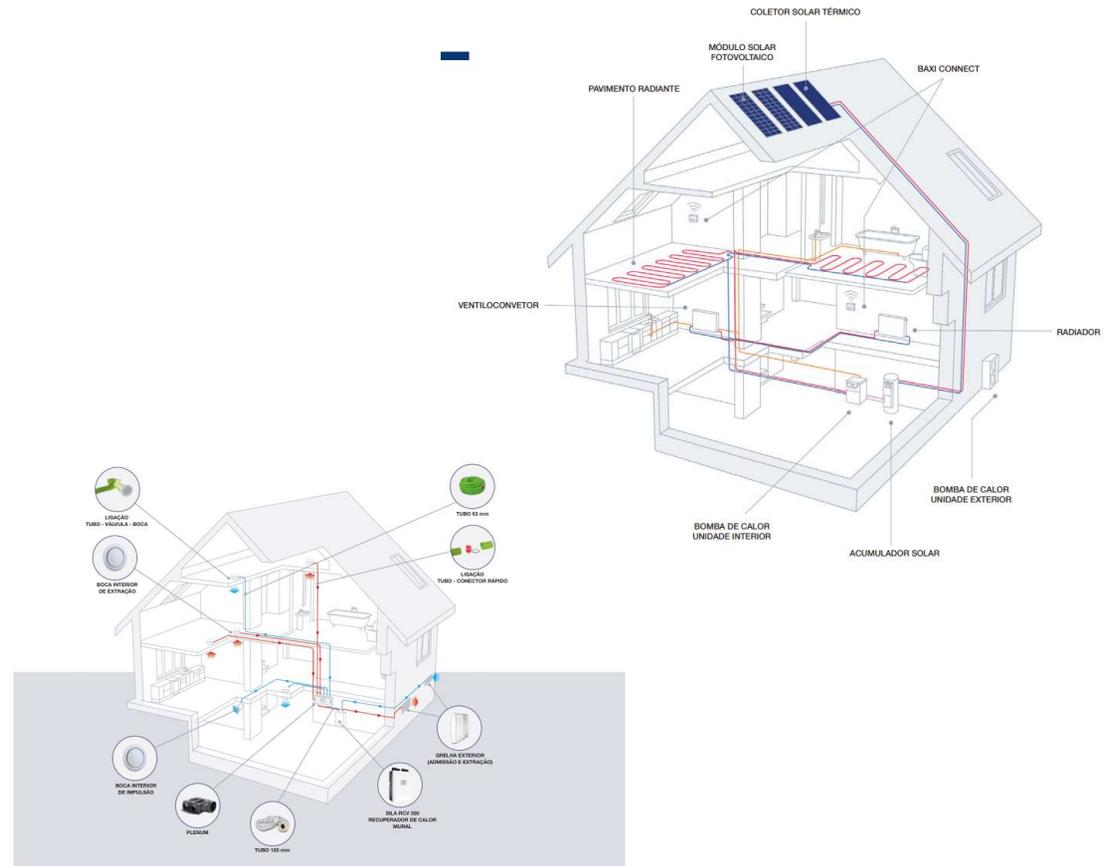
## Climatization, DHW and Ventilation

Only DHW (Domestic Hot Water) + Ventilation

DHW + Climatization (Heat/Cool) + Ventilation

DHW with Solar Thermal and/or PV + Ventilation

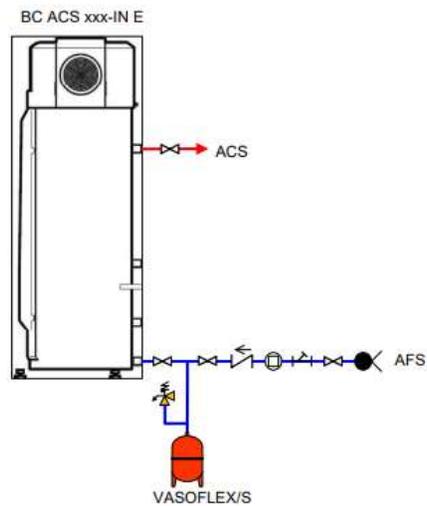
DHW with Solar Thermal + Climatization (Heat/Cool)



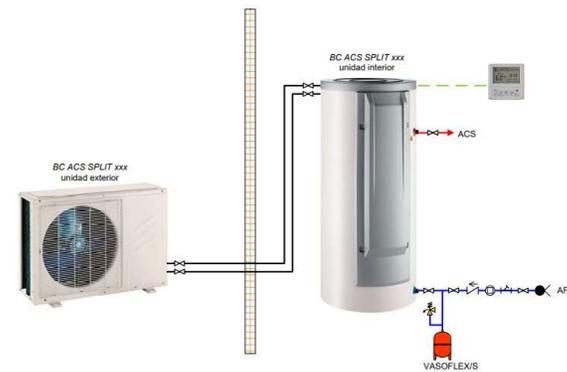
# BAXI Integral Solution

## DHW (Domestic Hot Water)

**MONOBLOC** version with air ducts to air inlet and outlet;



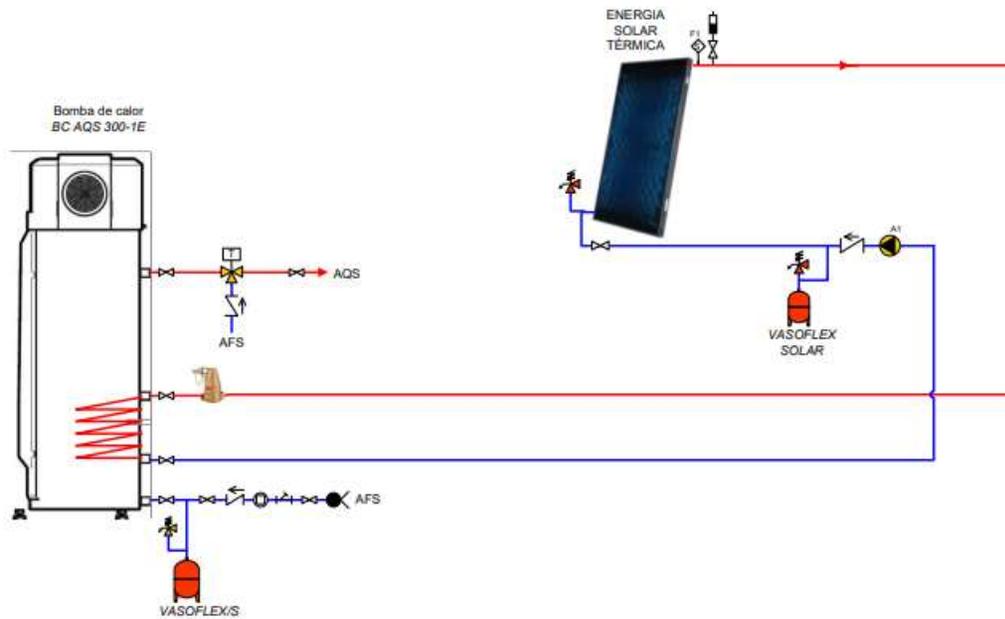
**SPLIT** version with refrigerante pipe work between ODU – IDU;



# BAXI Integral Solution

## DHW (Domestic Hot Water)

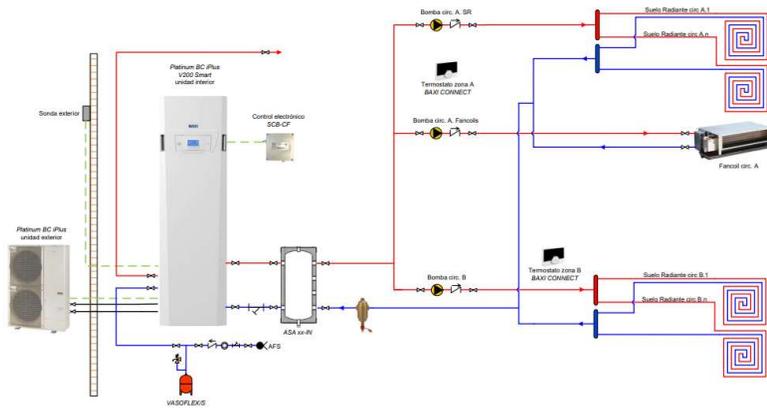
DHW (Domestic Hot Water) Heat Pump with heat exchanger for Solar Thermal;



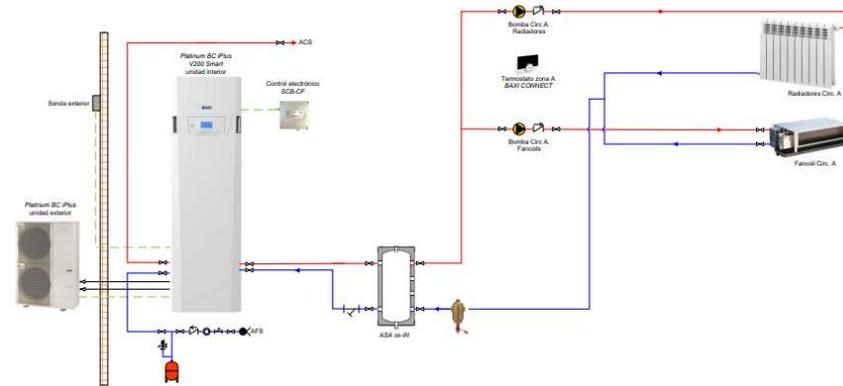
# BAXI Integral Solution

Climatization, DHW

**2 Confort Zones**, Zone 1, floor heating and Zone 2, Floor heating and fancoil for cooling;



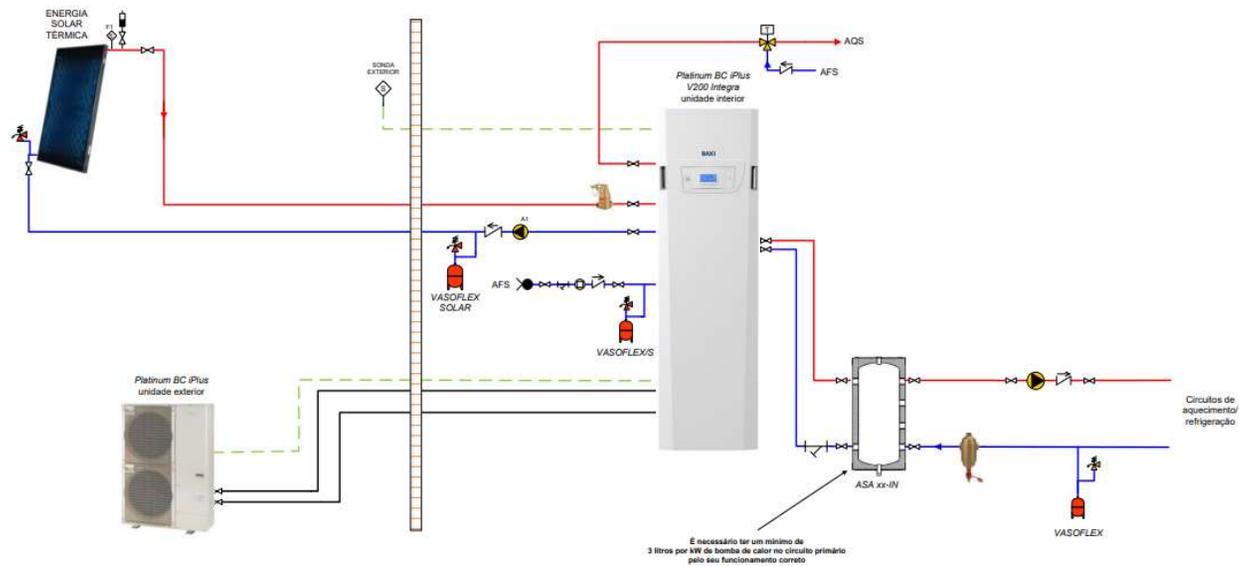
**1 Confort Zone**, Radiator for heating and fancoil for cooling;



# BAXI Integral Solution

Climatization, DHW

DHW production with Solar Thermal and climatization (Cooling/Heating)



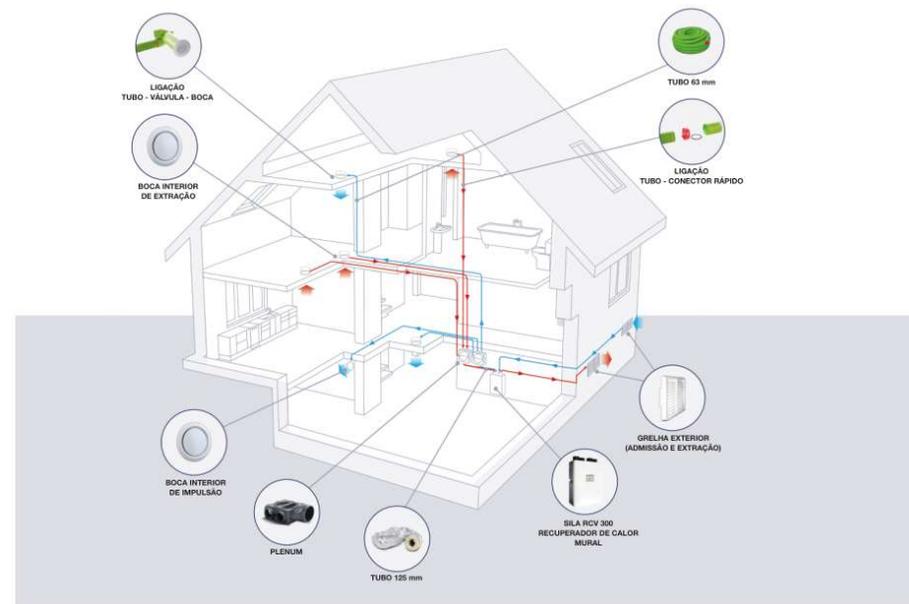
# BAXI Integral Solution

## Ventilation

**CMV, Centralized mechanic ventilation with heat recovery;** Counterflow heat exchanger, with plenum for air extraction and fresh air admission. Extract from spaces with moist, such as kitchens and toilet's and introduce outside fresh air into dry spaces, like bedroom's and living room's.

**REH, Regulamento de Edifícios de Habitação,** sets in the "Despacho 6476-H\_2021" of SCE, Sistema de Certificação Energética, that new building's have to guarantee an minimum of 0,5 air renovation's per hour.

So an house with 200m<sup>2</sup> with a ceiling height of 3m, have to get 300m<sup>3</sup>/h of air renovation;



# BAXI Integral Solution

## Equipments

DHW Heat Pump;

Climatization/DHW heat pump, with water tank;

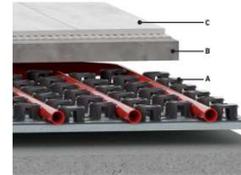
Solar Thermal Colectors;

Floor Heating;

Radiators;

Fancoils;

CMV Ventilator with heat recovery.



# Split/Monobloc DHW Heat pump line-up

With or without Solar thermal support

BC ACS 200/300 iR290



BC ACS 200/300-1E iR290



BC ACS Split



Bomba de Calor		Monobloco	Monobloco	Split
Potência bomba calor	kW	1,5	1,5	1,75
Temperatura máxima AQS	°C	65	65	65
Acumulador AQS	l	196/251	188/243	150/215/270
Apoio		Elétrico	Elétrico/Hidráulico	Elétrico
Potência apoio elétrico	kW	2,4	2,4	1,6/2,4
Pré-aquecimento solar		Sim	Sim	Não

# Monobloc Heat pump for climatization and DHW line-up

Medium and high temperature

	Platinum BC Plus Monobloc 2	Platinum BC Monobloc Média Potência PBM4-i	Platinum BC Monobloc Média Potência PBM3-i	Platinum BC Monobloc Média Potência PBM2-i	Platinum BC Monobloc Média Potência conduta PBMC-i
					
Bomba de Calor	Monobloco	Monobloco	Monobloco	Monobloco	Monobloco
Modelos	4/6/8/10/12/16	20/30	20/26/33/40	20/25/30/35/42/50	20/25/30/35/42
Alimentação elétrica	Monofásica / Trifásica	Trifásica	Trifásica	Trifásica	Trifásica
Temperatura ida (mín. em frio / máx. em calor) °C	5/65	7/80	7/60	5/60	5/60
Classe eficiência energética a 55°C	A++	-	-	-	-
Tecnologia	Inverter	Inverter	Inverter	Inverter	Inverter
Compatível com BAXI Connect	Não	Não	Não	Não	Não

# Split Heat pump for climatization and DHW line-up

## Electric backup

	Platinum BC Mural iR32	Platinum BC Integra iR32	Platinum BC Mural Hybrid iR32	Platinum BC V200 iR32	Platinum BC Smart iR32
					
	Split	Split	Split	Split	Split
Modelos	4/6/8/10 12/16	4/6/8/10 12/16	12/16	4/6/8/10 12/16	4,5/6/8
Alimentação elétrica	Monofásica / Trifásica	Monofásica / Trifásica	Monofásica / Trifásica	Monofásica / Trifásica	Monofásica
Temperatura ida (mín. em frio / máx. em calor) °C	7/65	7/65	7/65	7/65	7/60
Acumulador AQS l	-	177	177	180	190
SCOP AQS, ar 14°C (clima quente), segundo EN 16147:2017	Sim	Sim	Sim	Sim	Sim
Apoio	Elétrico	Elétrico	Hidráulico	Elétrico	Elétrico
Classe eficiência energética a 55°C	A++	A++	A++	A++	A++
Tecnologia	Inverter	Inverter	Inverter	Inverter	Inverter
Instalação unidade interior	Permite a integração dentro dum armário de cozinha			Permite a instalação entre armários de cozinha	Permite a integração dentro dum armário de cozinha
Compatível com BAXI Connect	Sim	Sim	Sim	Sim	Sim

# Platinum BC Smart iR32

4.5 MR

6 MR

8 MR

- 190 liters enamelled Steel tank, with electronic catodic protection to avoid corrosión;
- Change operation setting temperature in function of the poduced photovoltaic energy;
- With an adicional electronic PCB as accessorie, it's possible to manage and control 2 heating or cooling hidraulic circuits after an inertia tank. One direct circuit other with a mixing valve;
- Available components, filter, 3-way valve, DHW security valve, filling valve, DHW termostatic valve, heating security valve, expansion vessel and hidraulic pump;
- New control board MK2.2, more user friendly and intuitive.



OBRIGADO.

**BAXI**  
CLIMATIZAÇÃO