

The energy solutions of Parkair

General catalogue 2015



Parkair offers a wide range of energy solutions to meet the needs of your projects.



Ongoing innovation with cutting-edge products



Over 30 years of experience



Production 100% Made in Italy



Guaranteed support and spare parts



Support in design



Documentation for incentives



Two-year guarantee



Free training course



Company profile

Parkair, Italian company set up in the 1970s has established itself as a market leader, supplying high quality and reliable products; it entered the conditioning sector in 2001 devoting special attention to designing and producing water-condensed and low energy consumption conditioning appliances. In a short time it developed a wide range of products, unique in range and reliability, that establish themselves on the market as successful Italian products.

While maintaining the positive features of Italian handicraft firm, always with an eye to detail, producing customised products that meet any requirement, Parkair is today a small industrial concern, that has been on the market for over 30 years and boast significant experience in the air handling sector.

These years of experience have led the company to respecting very clearly defined values:



Low energy consumption systems

Use of clean energy

Use of environmentally-friendly cooling gases

ZERO direct CO2 emissions in the environment

Parkair operates in a strongly impacting sector in the energy field, and its primary objectives include committing resources to continuous technological research and improvement of production processes, with the aim of streamlining products and raise users' awareness on the actual soundness of ensuing energy savings.

Furthermore, in perfect harmony with the requirements of the European Community, Parkair products only and exclusively use R410A and R134A environmentally-friendly gas.

The sales office, production facility and warehouse are located just 5km from Milan, and this assures spare parts are always available, products are in stock and promptly and easily delivered nationally as well as abroad.

Our commitment for a better energy






Energy policy for the “20-20-20” plan

The aim is obviously to counter climate change and foster the use of renewable energy sources through binding objectives for member States.

Parkair has a duty to supply high performance products to reduce the environmental impact, adapting to results in view of the European 2020 efficiency target.

Parkair’s catalogue is in fact able to meet the requirements of all European Regulations currently in force.

- 20%**  **Reducing Greenhouse Gas emissions**
- +20%**  **Raising the share of energy produced from renewable sources**
- 20%**  **Reducing Energy Consumption**

**There must be a better way to make the
things we want, a way that doesn't spoil
the sky, or the rain, or the land
Paul McCartney**

For intelligent, sustainable and inclusive growth



The ErP directive: new values for consumptions

The 2009/125/EC Directive Energy-related-Products - ErP – also known as Eco-design – is a re-formulation of Directive 2005/32/EC (Energy-Using-Products - EuP) and is in actual fact a framework directive that will govern the eco-design requirements for all products that use energy - except those intended for the transport sector - through specific implementing regulations.

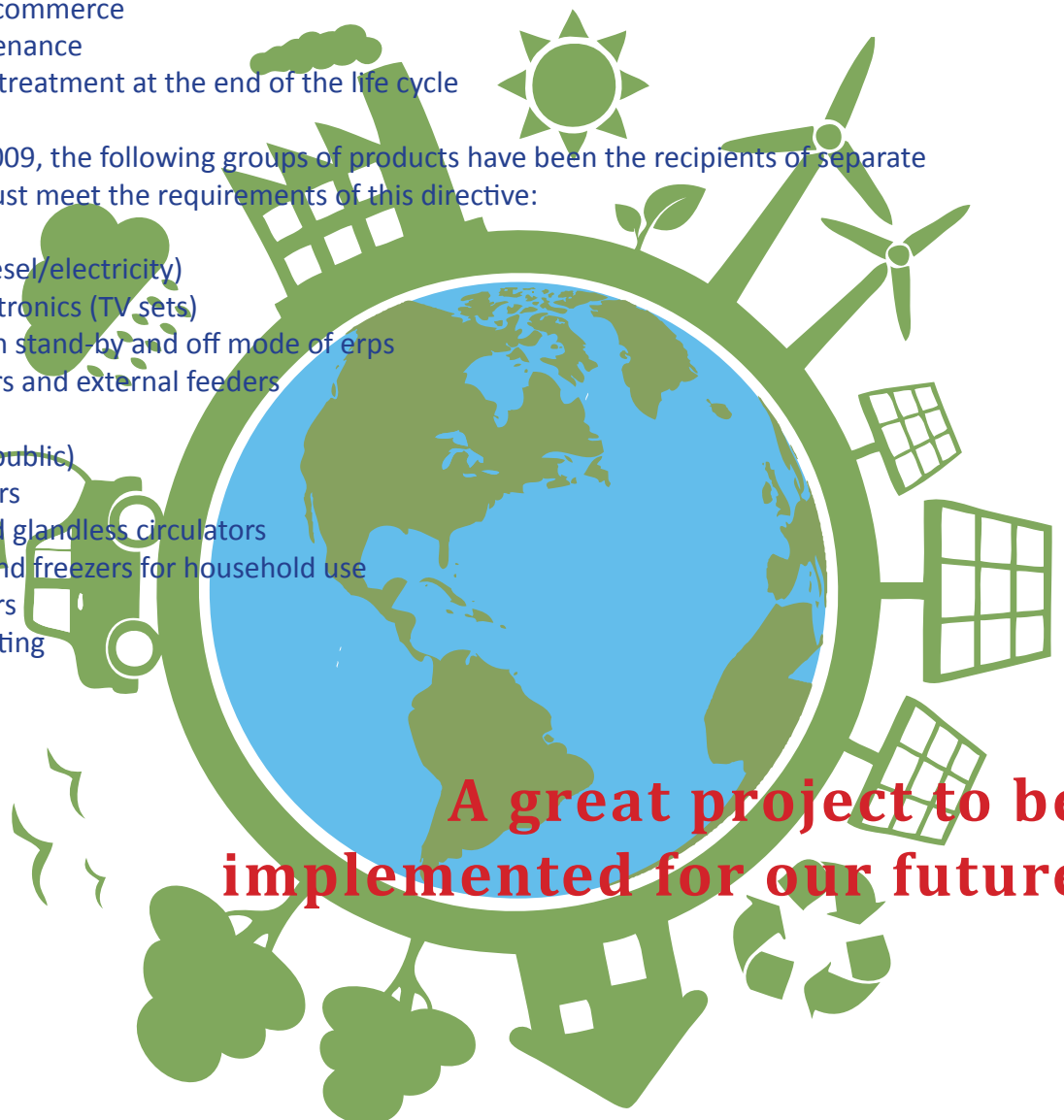
This directive represents the most important initiative undertaken by the EU to improve energy efficiency by 20% by the year 2020.

This is the first directive that regards the entire product's life cycle, in fact it includes requirements for the following sectors of products and services:

- Acquisition of raw materials
- Production
- Transport and commerce
- Use and maintenance
- Reuse/recycle/treatment at the end of the life cycle

As of November 2009, the following groups of products have been the recipients of separate regulations and must meet the requirements of this directive:

- Boilers (gas/diesel/electricity)
- Consumer electronics (TV sets)
- Energy losses in stand-by and off mode of erps
- Battery chargers and external feeders
- Office lighting
- Road lighting (public)
- Electrical motors
- Standalone and glandless circulators
- Refrigerators and freezers for household use
- Simple decoders
- Household lighting



A great project to be implemented for our future

The choice of water as renewable energy

Why choosing a Parkair water split system?

Parkair's ACW Water Condensing Units offer an alternative to traditional air conditioning systems, replacing the outer unit with compact-sized units and with no need to make any holes on the façade of the building.

The unit may be installed in any room in a building, the only requirement being that of providing a water inlet and drain like a normal sink. This feature allows it to be installed in the event of architectural, planning, aesthetic and building regulations constraints.

They are therefore ideal also for architecturally valuable buildings, whose façades cannot be spoiled by an air conditioning unit or for all those buildings whose regulations does not allow installation.

They are the ideal solution for all those who until now thought they would not be able to install an air conditioning unit in their house or business.

They are also excellent for all those who wish to reap the maximum possible savings. In fact, in addition to assuring savings and reducing consumption, water also makes it possible to achieve greater efficiency than conventional air systems.

Water condensation systems assure the best performance in any environmental condition as water temperature is subject to minimal variations compared to air.

In addition to water taken from the municipal water mains, all Parkair ACW Water Condensing Units are suited to operation with well or table water, and in closed loop systems.

When should one use our ACW split systems?

- ✓ **When you wish to have considerable cost savings thanks to the use of water which assures better performance with lower energy consumption.**
- ✓ **When there is no external space available.**
- ✓ **If the building regulations forbid application on the façade or balconies of conventional external motors.**
- ✓ **To avoid quarrelling with the neighbours due to the noise level of external motors.**
- ✓ **Or to safeguard the aesthetics of building façades.**

One of the cleanest and most efficient energy sources in the world, clean and renewable

Water's natural cycle

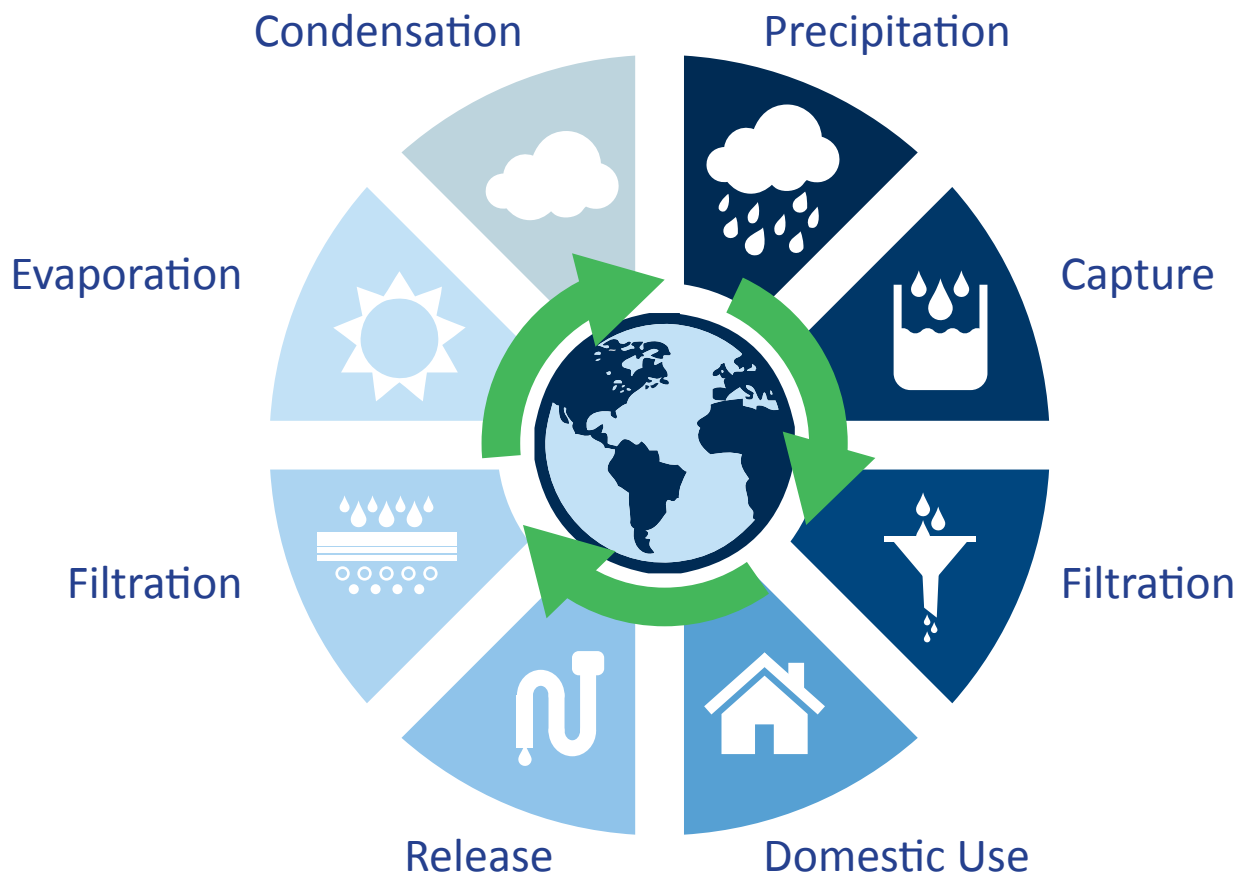
The continuous availability of water in its various forms is due to the existence of a natural cycle, complex yet perfect, sustained by solar energy and the force of gravity.

In this framework water is cyclically purified by effect of evaporation, the ground's filtering power and biological self-purification mechanisms of water bodies.

The sun is the water cycle's engine. Its heat causes the evaporation of the large masses of water in seas and oceans, which then condense and fall back on the ground as rain or snow. In this way glaciers, snowfields, streams, rivers, lakes and aquifers will be fed. The water flows into the sea again and initiates a new cycle.

During the cycle only pure water evaporates, in fact the minerals and other substances dissolved in it are deposited, thus causing the saltiness of seawater: the process is therefore a sort of distillation powered by the sun, which has the effect of purifying water.

As this process is continuously renewed, water represents a renewable energy source.



A technology that contributes to environmental sustainability

Let's get to know a Heat Pump

The heat pump is able to meet all the needs of a room's conditioning and heating, assuring the comfort and well-being of the people living or working there.

The heat pump is in fact a machine able to transfer energy from a low temperature environment to a higher temperature system.

With the same procedure through which a pump raises a fluid from a lower level to a higher one, the heat pump, using a single system, heats and cools the rooms in a home or workplace, in addition to producing domestic hot water for the daily requirements.

A heat pump system is therefore able to meet all the air conditioning and heating requirements of a room, assuring the comfort and well-being of the people living or working there.

It is a technology that contributes to environmental sustainability and the reduction of energy consumption, with cost savings in electricity bills and a return on investment in the short term, thanks to government incentives and advantages one is able to benefit from.

One may say that, from the energy point of view, the process at the basis of a heat pump is always cost effective: 1 kWh of electricity yields up to 5 kWh thermal energy. The energy obtained is therefore always greater than the one used.

A heat pump system, finally, increases the market value of the building, also for the aims of property sale, as it contributes to increasing the building's energy class.

Low cost, clean energy

Heating, cooling and domestic hot water at low costs

Geothermal

The ground contains an inexhaustible source of heat: the temperature, as you go deeper underground, increases thanks to geothermal energy directed toward the surface from the earth's core; the ground also absorbs nearly half the energy it receives from the sun.

As a result only a few metres below the earth's surface, the ground maintains a constant temperature throughout the year and this allows us to extract heat in winter to heat a room and release heat during the summer to cool the same room in a natural and clean manner, using a free and renewable heat source.

Such heat exchange is carried out with heat pumps combined with geothermal or ground water probes which, exploiting these principles, allow our homes to be heated and cooled, retrieve hot water for domestic use with a single system and with low electricity consumption.

Parkair's GEO heat pump is the efficient, effective and environmentally friendly alternative to completely replace a conventional system.

The probes in deep contact with the ground receive or release energy depending on the time of year and the production demand, providing to the heat pump what it needs to operate the system and achieve the desired result.

Room heating (20/22°C), Cooling (26°C) and Domestic Hot Water production throughout the year.

The advantages in using GEO?

- ✓ It makes you independent from oil and gas prices
- ✓ Environmentally friendly since it does not emit CO₂ and there are no external units
- ✓ Quiet
- ✓ Perfectly integrated with other conventional heating systems or renewable energies
- ✓ Assures high yield
- ✓ Installation costs are amortised in less than 5 years
- ✓ Savings up to 40% for heat production
- ✓ Eliminates maintenance costs



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Key to functions

H2O Inverter



Thanks to Parkair's Inverter H2O technology the costs of energy and water are further reduced. It is an electronic water flow and operating pressure control system that thanks to a modulating valve regulates the water flow based on the actual requirements thus reducing consumptions.

Turbo



The Turbo Function helps reaching the set temperature in the shortest time possible.

Sleep Care



The Sleep Care function is a precise and intelligent technology for the night. It provides different setting modes for every type of users, such as adults, children and the elderly. With the Sleep Care function your comfort while asleep will certainly be improved.

Easy Cleaning Filter



The internal unit's filters may be removed just by pressing a button, so they may be cleaned to assure healthy air is diffused in the room.

Sleep Mode



With the Sleep mode, the set temperature automatically increases (in cooling) by 1 ° C or decreases (in heating) by 2 ° C every hour in the first two hours from starting up. You will thus have the ideal temperature throughout your sleep as well as cost savings.

Anti Cold Air-Function



In heat pump mode the internal unit's fan only starts operating when the evaporator temperature is high enough in order to avoid cold air output.

Innver Groover Copper Pipe



Special copper pipes assure faster cooling gas flow improving the thermal exchange efficiency up to 30-50% compared to conventional copper pipes.

Strong Dehumidification



Only used on rainy days or in any case in very humid periods, with this mode the ideal room humidity level may be reached without reducing room temperature.

Hydrophilic Aluminum Fin



Improves the evaporating unit's cooling efficiency, allowing unlimited condensation flow between the exchange fins.

Large Fan



In addition to the possibility of controlling the air flow output volume, a larger diameter fan reduces the internal unit's noise level thus further reducing fan speed and optimising the air flow.

Auto Restart



In case of switching off this function will let you save the same temperatures and functions when the unit is switched back on.

Self-Diagnosis & Auto-Protection



With the self-diagnosis function, errors are detected by the microchip and displayed by the internal unit's LED for easy diagnosis and providing error data to support centres.

Anti-Dust Filter



This type of filters assures room air purification to protect from the many polluting agents (dusts, pollen etc.).

Low Noise



Thanks to the high quality standard of components these products assure extremely low noise levels.

Water condensing units

ACW e ACW-H

Cooling and Heat Pump monosplit system



R410A

H₂O-INVERTER SYSTEM

RANGE FROM 3KW TO 23KW

ONLY COOLING OR HEAT PUMP

ECO FRIENDLY GAS R410A

LOW NOISE



NEWS
2015

Functional specs



Main features

All models are fitted with modulating valve for limiting water consumption and automatic condensation pressure regulation, high pressure switch that is triggered to protect the compressor in the event the condensation pressure should rise over calibration limits, low pressure switch, fuse protecting the evaporating units, especially effective thermal and sound insulation and electrical compressor protection.

Furthermore, all models are fitted with a PLC (Programmable Logic Controller) for automatic control of all functions.

The body is made with a modular epoxy-powder painted sheet metal case (Pure White RAL 9003), with base in galvanised sheet metal and removable side panels lined with soundproofing material.

The front inspection panel allows easy access to internal components and rapid connection of pressure gauges to a suitable service valve for measuring operating pressures.

Where to install it?

Bathroom



Kitchen



Ceiling



Understairs



Components

Electronic controller



Modulating valve



Rotative & Scroll R410A compressors



Technical data

ACW Monosplit - Only Cooling										
Model		ACW9	ACW12	ACW18	ACW24	ACW30	ACW32T	ACW40T	ACW50T	ACW60T
Code	-	190000	190005	190010	190015	190020	190025	190030	190035	190040
Cooling capacity	BTU/h	8.970	12.654	17.737	27.288	28.500	32.916	37.521	54.440	63.922
	kW	2,63	3,71	5,20	8,00	8,35	9,65	11,00	15,96	18,74
Power supply	V	230	230	230	230	230	400	400	400	400
Power consumption	kW	0,67	0,84	1,15	1,80	1,90	2,62	2,70	3,48	4,16
EER	kW/kW	3,93	4,42	4,52	4,44	4,39	3,68	4,07	4,58	4,50
Water flow (15 ° C)	mc/h	0,14	0,19	0,28	0,38	0,50	0,50	0,63	0,79	0,94
Water flow (Temp. Ev.) (29-34 ° C)	mc/h	0,48	0,63	0,95	1,20	1,60	1,60	2,10	2,60	3,10
Water connections (G)	"	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Refrigerant pipe dia. (Liquid/Gas side)	"	1/4-3/8	1/4-1/2	1/4-1/2	3/8-5/8	3/8-5/8	3/8-3/4	3/8-3/4	3/8-3/4	3/8-3/4
	mm	6,35-9,52	6,35-12,7	6,35-12,7	9,52-15,9	9,52-15,9	9,52-19,0	9,52-19,0	9,52-19,0	9,52-19,0
Max. length refrigerant connection	mt.	15	15	15	15	25	25	25	25	25
Max. height difference w/ splits	mt.	5	5	8	8	10	10	10	10	10
Refrigerant	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Sound level	dbA	49	50	51	52	51	51	52	52	52
Weight	Kg	34	35	37	42	63	63	65	66	66
Dimensions (WxDxH)	mm	460x420x450	460x420x450	460x420x450	460x420x450	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550
ACW Monosplit - Heat Pump										
Model		ACW9H	ACW12H	ACW18H	ACW24H	ACW30H	ACW32TH	ACW40TH	ACW50TH	ACW60TH
Code	-	190500	190505	190510	190515	190520	190525	190530	190535	190540
Cooling capacity	BTU/h	8.970	12.654	17.737	27.288	28.500	32.097	36.565	53.143	62.421
	kW	2,63	3,71	5,20	8,00	8,35	9,65	11,00	15,96	18,74
Heating capacity	BTU/h	11.256	15.758	21.830	32.063	34.792	42.603	46.935	66.002	77.566
	kW	3,30	4,62	6,40	9,40	10,20	12,49	13,76	19,35	22,74
Power supply	V	230	230	230	230	230	400	400	400	400
Power consumption	kW	0,75	0,98	1,33	1,98	2,28	3,21	3,30	4,29	5,17
EER	kW/kW	3,93	4,42	4,52	4,44	4,39	3,68	4,07	4,59	4,50
COP	kW/kW	4,40	4,71	4,81	4,74	4,47	3,89	4,17	4,51	4,40
Water flow - cooling	mc/h	0,14	0,19	0,28	0,38	0,50	0,50	0,63	0,79	0,94
Water flow - heating	mc/h	0,48	0,63	0,95	1,20	1,60	1,60	2,10	2,60	3,10
Water connections (G)	"	3/4	3/4	3/4	3/4	1	1	1	1	1
Refrigerant pipe dia. (Liquid/Gas side)	"	1/4-3/8	1/4-1/2	1/4-1/2	3/8-5/8	3/8-5/8	3/8-3/4	3/8-3/4	3/8-3/4	3/8-3/4
	mm	6,35-9,52	6,35-12,7	6,35-12,7	9,52-15,9	9,52-15,9	9,52-19,0	9,52-19,0	9,52-19,0	9,52-19,0
Max. length refrigerant connection	mt.	15	15	15	15	25	25	25	25	25
Max. height difference w/ splits	mt.	5,00	5,00	8,00	8,00	10,00	10,00	10,00	10,00	10,00
Refrigerant	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Sound level	dbA	49	50	51	52	51	51	52	52	52
Weight	Kg	34	35	37	42	63	63	65	66	66
Dimensions (WxDxH)	mm	460x420x450	460x420x450	460x420x450	460x420x450	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550

Performances refer to the following conditions. COOLING: Temp. Air ambient 27°C d.b., 19°C w.b. / Water inlet temperature 15°C - HEATING: Temp. Ambient air 20°C / Water temperature IN-OUT 12-07°C. The cooling capacity and the power consumption reported to date are 5°C and 40°C condensation evaporation. Minimum water temperature in heat pump 10°C. The sound pressure level is measured at 1 mt. away from the external surface of the unit in open field. Refer to the table Corrosion Resistance ACW contained in the instruction booklet (available in our website) to check the suitability of the use according to the quality of the water.

Water condensing units

ACW Multisplit

Cooling multi splits system



R410A

- H₂O-INVERTER SYSTEM
- UP TO 4 INDOOR UNITS
- RANGE FROM 3KW TO 10KW
- ECO FRIENDLY GAS R410A
- LOW NOISE

NEWS
2015



Functional specs



Main features

All models are fitted with modulating valve for limiting water consumption and automatic condensation pressure regulation, high pressure switch that is triggered to protect the compressor in the event the condensation pressure should rise over calibration limits, low pressure switch, fuse protecting the evaporating units, especially effective thermal and sound insulation and electrical compressor protection.

Furthermore, all models are fitted with a PLC (Programmable Logic Controller) for automatic control of all functions.

The body is made with a modular epoxy-powder painted sheet metal case (Pure White RAL 9003), with base in galvanised sheet metal and removable side panels lined with soundproofing material.

The front inspection panel allows easy access to internal components and rapid connection of pressure gauges to a suitable service valve for measuring operating pressures.

Where to install it?

Bathroom



Kitchen



Ceiling



Understairs



Components

Electronic controller



Modulating valve



Rotative & Scroll R410A compressors



Technical data

ACW Dual split - Only Cooling											
Model		9/9	12/12	9/9 BC	9/12 BC	9/18 BC	9/24 BC	12/12 BC	12/18 BC	12/24 BC	18/18 BC
Code	-	191000	191005	191500	191505	191520	191525	191530	191535	191540	191545
Cooling capacity	BTU/h	12.654	17.737	17.940	21.624	26.707	36.258	25.308	30.391	39.942	35.474
	kW	3,71	5,20	5,26	6,34	7,83	10,63	7,42	8,91	11,71	10,40
Power supply	V	230	230	230	230	230	230	230	230	230	230
Power consumption	kW	0,84	1,15	1,34	1,51	1,82	2,92	1,68	1,99	2,64	2,30
EER	kW/kW	4,42	4,52	3,92	4,20	4,30	3,64	4,42	4,48	4,44	4,52
Portata acqua (15°C)	mc/h	0,19	0,28	0,14+0,14	0,14+0,19	0,14+0,28	0,14+0,38	0,19+0,19	0,19+0,28	0,19+0,38	0,28+0,28
Water flow (Temp. Ev.) (29-34 ° C)	mc/h	0,63	0,95	0,48+0,48	0,48+0,63	0,48+0,95	0,48+1,2	0,63+0,63	0,63+0,95	0,63+1,2	0,95+0,95
Water connections (G)	"	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Refrigerant pipe dia. (Liquid/Gas side)	"	1/4-3/8	1/4-1/2	1/4-3/8	1/4-3/8+1/4-1/2	1/4-3/8+1/4-1/2	1/4-3/8+3/8-5/8	1/4-1/2	1/4-1/2	1/4-1/2+3/8-5/8	1/4-1/2
	mm	6,35-9,52	6,35-12,7	6,35-9,52	6,35-9,52+6,35-12,7	6,35-9,52+6,35-12,7	6,35-9,52+9,52-15,9	6,35-12,7	6,35-12,7	6,35-12,7+9,52-15,9	6,35-12,7
Max. length refrigerant connection	mt.	20	20	15+15	15+15	15+15	15+15	15+15	15+15	15+15	15+15
Max. height difference w/ splits	mt.	5	5	5	5	5	5	5	5	5	8
Refrigerant	-	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Sound level	dbA	50	51	50	50	51	52	51	51	52	51
Weight	Kg	36	38	52	53	54	56	54	55	56	56
Dimensions (WxDxH)	mm	460x420x450	460x420x450	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550

ACW Dual splits and Multi splits - Only Cooling											
Model		18/24 BC	24/24 BC	9/9/9	9/9/12	9/9/18	9/12/12	12/12/12	9/9/9/9	9/9/12/12	12/12/12/12
Code	-	191550	191555	192000	192005	192015	192020	192025	193000	193005	193010
Cooling capacity	BTU/h	45.025	54.576	21.624	25.308	30.391	26.707	30.391	25.308	30.391	35.474
	kW	13,20	16,00	6,34	7,42	8,91	7,83	8,91	7,42	8,91	10,40
Power supply	V	230	230	230	230	230	230	230	230	230	230
Power consumption	kW	2,95	3,60	1,51	1,68	1,99	1,82	1,99	1,68	1,99	2,30
EER	kW/kW	4,47	4,44	4,20	4,42	4,48	4,30	4,48	4,42	4,48	4,52
Portata acqua (15°C)	mc/h	0,28+0,38	0,38+0,38	0,19+0,14	0,19+0,19	0,19+0,28	0,14+0,28	0,28+0,19	0,19+0,19	0,19+0,28	0,28+0,28
Water flow (Temp. Ev.) (29-34 ° C)	mc/h	0,95+1,2	1,2+1,2	0,63+0,48	0,63+0,63	0,63+0,95	0,48+0,95	0,95+0,63	0,63+0,63	0,63+0,95	0,95+0,95
Water connections (G)	"	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Refrigerant pipe dia. (Liquid/Gas side)	"	1/4-1/2+3/8-5/8	3/8-5/8	1/4-3/8	1/4-3/8+1/4-1/2	1/4-3/8+1/4-1/2	1/4-3/8+1/4-1/2	1/4-1/2	1/4-3/8	1/4-3/8+1/4-1/2	1/4-1/2
	mm	6,35-12,7+9,52-15,9	9,52-15,9	6,35-9,52	6,35-9,52+6,35-12,7	6,35-9,52+6,35-12,7	6,35-9,52+6,35-12,7	6,35-12,7	6,35-9,52	6,35-9,52+6,35-12,7	6,35-12,7
Max. length refrigerant connection	mt.	15+15	15+15	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Max. height difference w/ splits	mt.	8	8	20+15	20+15	20+15	20+15	20+15	20+20	20+20	20+20
Refrigerant	-	R410A	R410A	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
Sound level	dbA	52	52	50	51	51	51	51	51	51	52
Weight	Kg	58	63	53	54	56	55	56	55	58	59
Dimensions (WxDxH)	mm	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550	485x505x550

Performances refer to the following conditions. COOLING: Temp. Air ambient 27°C d.b., 19°C w.b. / Water inlet temperature 15°C - The cooling capacity and the power consumption reported to date are 5°C and 40°C condensation evaporation. Minimum water temperature in heat pump 10°C. The sound pressure level is measured at 1 mt. away from the external surface of the unit in open field. Refer to the table Corrosion Resistance ACW contained in the instruction booklet (available in our website) to check the suitability of the use according to the quality of the water.

Water to Water Chillers RCW e RCW-H Hydronic systems



R410A

H₂O-INVERTER SYSTEM
UP TO 4 INDOOR UNITS
RANGE FROM 3KW TO 20KW
ECO FRIENDLY GAS R410A
LOW NOISE



Functional specs



Main features

Unlike coolant gas conditioners, hydronic conditioning systems operate with chilled water, which circulates in the ventilation system after being chilled by a refrigerator.

The body is made with a modular epoxy-powder painted sheet metal case (Pure White RAL 9003), with base in galvanised sheet metal and removable side panels lined with soundproofing mat.

The front inspection panel allows easy access to internal components and rapid connection of pressure gauges to suitable service valves for measuring operating pressures.

Where to install it?

Bathroom



Kitchen



Understairs



Components

Controllore elettronico



Compressori R410A Rotativi & Scroll



Valvola modulante



Pompa di circolazione



Technical data

Chillers water to water RCW-H - Only Cooling

Model		RCW12	RCW18	RCW24	RCW30	RCW32T	RCW40T	RCW50T	RCW60T
Code		149000	149005	149010	149015	149016	149020	149025	149030
Cooling capacity	BTU/h	12.621	17.737	27.288	28.482	32.916	37.521	54.440	63.922
	kW	3,7	5,2	8	8,35	9,65	11	15,96	18,74
Power supply	V-ph-hz	230-1-50	230-1-50	230-1-50	230-1-50	400-3f+n	400-3f+n	400-3f+n	400-3f+n
Power consumption	Kw	0,84	1,15	1,8	1,9	2,62	2,7	3,48	4,16
EER	Kw/Kw	4,42	4,52	4,44	4,39	3,68	4,07	4,58	4,5
COP	Kw/Kw	---	---	---	---	---	---	---	---
Sound level	dba	49	54	54	51	51	52	52	52
Number of compressors	NR	1	1	1	1	1	1	1	1
Cooling circuits	NR	1	1	1	1	1	1	1	1
Exchanger (evaporator)		Plate							
Water flow	mc/h	0,6	0,9	1,2	1,6	1,6	2	2,5	3
Pressure drop	KPa	0,8	1,6	2,8	5,2	5,2	7,4	11,5	15
Exchanger (condenser)		Plate							
Water flow of the hydraulic network (15°C)	mc/h	0,19	0,29	0,38	0,5	0,5	0,6	0,79	0,94
Water flow of cooling tower (29-35°C)	mc/h	0,6	0,9	1,2	1,6	1,6	2	2,5	3
Water connections	"	3/4M	3/4M	3/4M	1M	1M	1M	1M	1M
Weight	Kg.	43	44	49	73	73	75	78	82
Dimensions (WxDxH)	cm.	600x420x450	600x420x450	600x420x450	600x420x760	600x420x760	600x420x760	600x420x760	600x420x760

Chillers water to water RCW-H - Heat Pump

Model		RCW12H	RCW18H	RCW24H	RCW30H	RCW32TH	RCW40TH	RCW50TH	RCW60TH
Code		149500	149505	149510	149515	149516	149520	149525	149530
Cooling capacity	BTU/h	12.621	17.737	27.288	28.482	32.916	37.521	54.440	63.922
	kW	3,7	5,2	8	8,35	9,65	11	15,96	18,74
Heating capacity	BTU/h	15.759	21.830	32.063	34.792	42.603	46.935	66.003	77.430
	kW	4,62	6,4	9,4	10,2	12,49	13,76	19,35	22,7
Power supply	V-ph-hz	230-1-50	230-1-50	230-1-50	230-1-50	400-3f+n	400-3f+n	400-3f+n	400-3f+n
Power consumption	Kw	0,98	1,33	1,98	2,28	3,21	3,3	4,29	4,7
EER	Kw/Kw	4,42	4,52	4,44	4,39	3,68	4,07	4,58	4,5
COP	Kw/Kw	4,71	4,81	4,74	4,47	3,89	4,17	4,51	4,4
Sound level	dba	49	54	54	51	51	52	52	52
Number of compressors	NR	1	1	1	1	1	1	1	1
Cooling circuits	NR	1	1	1	1	1	1	1	1
Exchanger (evaporator)		Plate							
Water flow	mc/h	0,6	0,9	1,2	1,6	1,6	2	2,5	3
Pressure drop	KPa	0,8	1,6	2,8	5,2	5,7	7,9	12	15,5
Exchanger (condenser)		Plate							
Water flow of the hydraulic network (15°C)	mc/h	0,19	0,29	0,38	0,5	0,5	0,6	0,79	0,94
Water flow of cooling tower (29-35°C)	mc/h	0,6	0,9	1,2	1,6	1,6	2	2,5	3
Water connections	"	3/4M	3/4M	3/4M	1M	1M	1M	1M	1M
Weight	Kg.	45	47	52	73	73	75	78	82
Dimensions (WxDxH)	mm	600x420x450	600x420x450	600x420x450	600x420x760	600x420x760	600x420x760	600x420x760	600x420x760

Performances refer to the following conditions. COOLING: Water inlet temperature condenser side 15°C; Water temperature evaporator side in/outlet 12-7°C. HEATING: Water temperature evaporator side in/outlet 15-10°C. Water temperature condenser side in/outlet 40-45° C. Sound pressure levels measured at 1 m from the unit in free field conditions according to ISO 3746. See table corrosion resistance contained in the instruction booklet RCW (download from our Site) to check the suitability of employment in depending on water quality.

Air to Water Chillers

RCA

Hydronic systems



 **R410A**



OPERATION FROM -15° TILL +46°C
FULL DC INVERTER TECHNOLOGY
RANGE FROM 5KW UP TO 17KW
COOLING AND HEATING

Functional specs



Main features

Series RCA air-cooled chillers with heat pump are designed and manufactured to meet the cooling and heating needs of medium and small users in residential or commercial buildings.

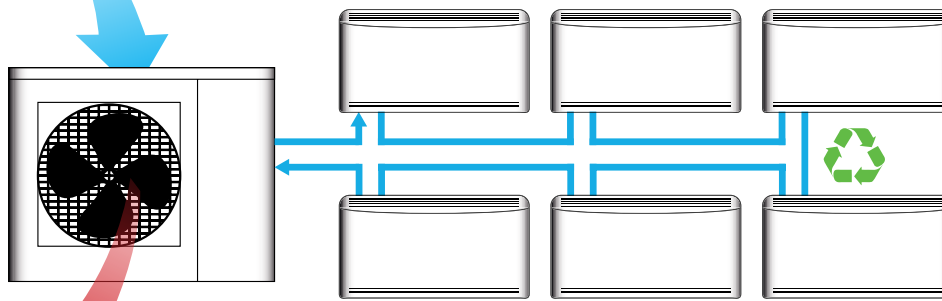
The machine is suited to control both water circuits (evaporator condenser) and may therefore be used as water chiller as well as for producing hot water. The summer winter switching takes place via the cooling circuit.

The units feature extremely quiet operation and high efficiency and reliability, thanks to the use of exchangers with high exchange surface and scroll compressors with high performance and low noise level.

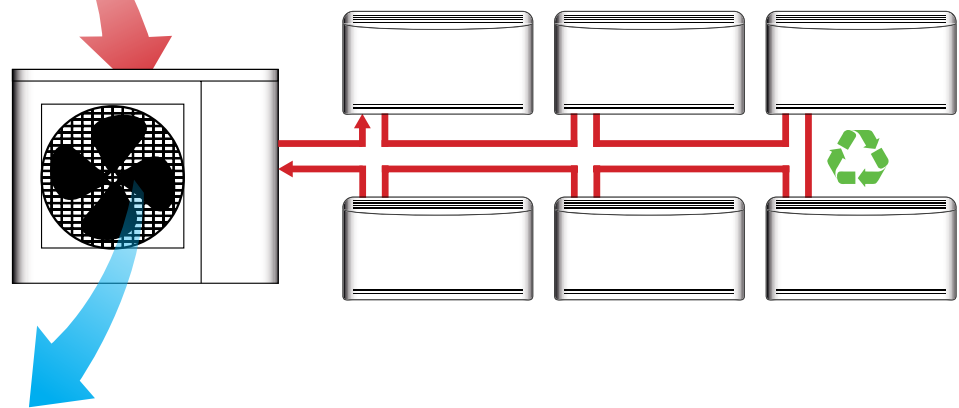
They are available in various set-ups to meet the needs of a wide variety of installation solutions: base or with water pump and integrated water buffer. Condensing unit versions without buffer evaporator are also available.

Working scheme

Summer scheme



Winter scheme



Technical data

Chillers air to water RCA - Heat Pump							
Model		RCA-18	RCA-24	RCA-36	RCA-40	RCA-48	RCA-52
Code	-	215000	215005	215010	215015	215020	215025
Cooling capacity	BTU/h	17.055	23.877	35.816	40.932	47.754	52.871
	kW	5,00	7,00	10,50	12,00	14,00	15,50
Heating capacity	BTU/h	18.761	27.288	40.932	45.025	52.529	57.987
	kW	5,50	8,00	12,00	13,20	15,40	17,00
Power supply	V-ph-hz	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50
Power consumption - Summer season	kW	1,55	2,25	2,95	3,38	3,90	4,53
Power consumption - Winter season	kW	1,70	2,50	3,14	3,27	4,25	4,85
Maximum power consumption	kW	2,80	3,00	4,80	5,00	5,20	5,40
EER	kW/kW	3,23	3,12	3,56	3,55	3,59	3,42
COP	kW/kW	4,16	3,91	4,37	4,83	4,86	4,41
Water connections	"	1	1	1 - 1/4	1 - 1/4	1 - 1/4	1 - 1/4
Refrigerant	-	R410A	R410A	R410A	R410A	R410A	R410A
Sound level	dba	58	58	59	59	60	60
Exchanger Gas-Water	Tipo	Braze Plate, Stainless Steel					
Water flow	mc/h	0,86	1,20	1,72	1,92	2,15	2,49
Pressure drop - water side	KPa	15,00	15,00	18,00	18,00	18,00	19,00
Maximum pressure - water side	KPa	500,00	500,00	500,00	500,00	500,00	500,00
Operating Limits	Estate	-5°C ; +46°C	-5°C ; +46°C	-5°C ; +46°C	-5°C ; +46°C	-5°C ; +46°C	-5°C ; +46°C
	Inverno	-15°C ; +27°C	-15°C ; +27°C	-15°C ; +27°C	-15°C ; +27°C	-15°C ; +27°C	-15°C ; +27°C
Operating temperature limits	Estate	+4°C ; +20°C	+4°C ; +20°C	+4°C ; +20°C	+4°C ; +20°C	+4°C ; +20°C	+4°C ; +20°C
	Inverno	+30°C ; +55°C	+30°C ; +55°C	+30°C ; +55°C	+30°C ; +55°C	+30°C ; +55°C	+30°C ; +55°C
Weight	Kg	81	81	110	110	110	110
Dimensions (WxDxH)	mm	990x354x966	990x354x966	970x400x1327	970x400x1327	970x400x1327	970x400x1327

Performances refer to the following conditions. COOLING: cooled water inlet 12°C; Outlet 7°C - External air temperature 35°C dry bulb. HEATING: Water temperature inlet 40°C; outlet 45°C - External air temperature 7°C dry bulb; 6°C wet bulb. The sound pressure values refer to measurements made in semi-reverberant environment with tool placed at 1 m from the source of the noise.

Heat pump for domestic hot water **EDO-WS**

Water to Water system



R134A

It absorbs heat from water and turns it into hot water for well-being.

WITHOUT EXTERNAL UNITS OR CONNECTIONS

IMPORTANT SAVING BILLS

EASY INSTALLATION

LOW MAINTENANCE

SOLAR INTEGRATION

COMPACT DESIGN

MAXIMUM ENVIRONMENTAL BENEFITS

ANTILEGIONELLA CYCLE

RESPECT FOR THE ENVIRONMENT

**PATENTED
PRODUCT**

Functional specs



Main features

It efficiently produces domestic hot water using the well established heat pump technology together with water condensation. The high performance makes it possible to obtain significant benefits with the lowest environmental and economic impact. In fact thanks to COP 3.3 electrical consumption is over 75% lower than conventional water boilers.

Installing an EDO single-block heat pump water boiler is easy and far from demanding. The ease of installation, quiet and reliable operation and moderate maintenance requirements complement the advantages of this very environmentally-friendly and economic system.

The machine's control periodically activates high temperature sanitising cycles to prevent the formation of hazardous bacteria for human health.

The coolant fluid used in the heat pump is R134A which thanks to high thermodynamic features assures optimum performance. Furthermore, it is not harmful to the ozone layer, it contains no chlorine, it is neither toxic nor flammable, to the advantage of safety both for the user and installer.

Functional scheme



Where to install it?

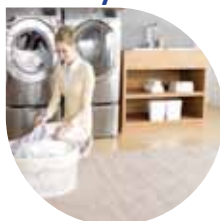
Bathroom



Storage room



Laundry



Technical room



Some additional information...

75%



The energy saving compared to a classic electric water heater

60°C



Maximum water temperature

35%



The energy saving compared to a classic condensing boiler

COP=3.3



Energy efficiency among the highest in the market for heat pump water heaters.

GAS R134A



Ecological refrigerant guarantees high yields.

Technical data

Heat pump for domestic hot water EDO-WS				
Model		EDO-100WS	EDO-200WS	EDO-300WS
Code	-	175000	175005	175010
Capacity	litri	100	200	300
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50
Power consumption	Kw	0,60	0,60	0,60
Electrical resistance	Kw	0,80	0,80	0,80
Minimum temperature - Water inlet	°C	8	8	8
Water flow - Evaporator (15 ° C)	mc/h	0,18	0,18	0,18
Maximum temperature water (DHW)	°C	60	60	60
Refrigerant	R	R-134a	R-134a	R-134a
Refrigerant charge	gr.	500,00	500,00	500,00
Sound level	db	46	46	46
COP	Kw/Kw	3,50	3,50	3,50
Compressor	-	Rotative		
Evaporator	-	Plates		
Condenser	-	Double walled pipe		
Weight	Kg	90	90	90
Dimensions (Dia x H)	mm.	500 x 1310h	650 x 1680h	650 x 1780h

COP measured according to EN 16147

Heat pump for domestic hot water **EDO-AS**

Air to Water system



R134A

EASY INSTALLATION

LOW MAINTENANCE

SOLAR INTEGRATION

COMPACT DESIGN

MAXIMUM ENVIRONMENTAL BENEFITS

SAVING BILLS

ANTILEGIONELLA CYCLE

RESPECT FOR THE ENVIRONMENT



Functional specs



Main features

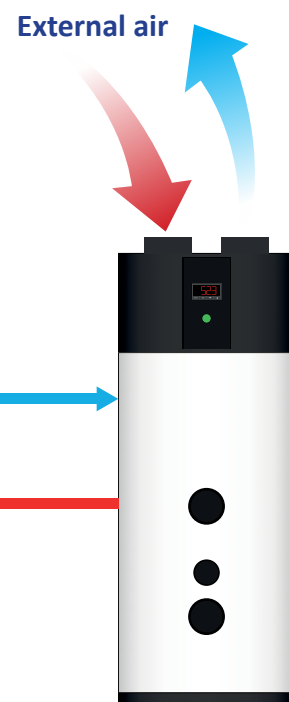
It efficiently produces domestic hot water using the well established heat pump technology together with water condensation. The high performance makes it possible to obtain significant benefits with the lowest environmental and economic impact. In fact thanks to COP 3.3 electrical consumption is over 75% lower than conventional water boilers.

Installing an EDO single-block heat pump water boiler is easy and far from demanding. The ease of installation, quiet and reliable operation and moderate maintenance requirements complement the advantages of this very environmentally-friendly and economic system.

The machine's control periodically activates high temperature sanitising cycles to prevent the formation of hazardous bacteria for human health.

The coolant fluid used in the heat pump is R134A which thanks to high thermodynamic features assures optimum performance. Furthermore, it is not harmful to the ozone layer, it contains no chlorine, it is neither toxic nor flammable, to the advantage of safety both for the user and installer.

Functional scheme



Where to install it?

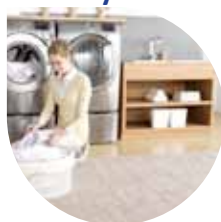
Garage



Technical room



Laundry



Some additional information...

75%



The energy saving compared to a classic electric water heater

60°C



Maximum water temperature

35%



The energy saving compared to a classic condensing boiler

COP=3.3



Energy efficiency among the highest in the market for heat pump water heaters.

GAS R134A



Ecological refrigerant guarantees high yields.

Technical data

Heat pump for domestic hot water EDO-AS				
Model		EDO-150AS	EDO-200AS	EDO-300AS
Code	-	175050	175055	175060
Capacity	litri	150	200	300
Power supply	V/Ph/Hz	230/1/50	230/1/50	230/1/50
Power consumption heat pump	Kw	0,80	0,80	0,80
Electrical resistance	Kw	1,20	1,20	1,20
Minimum temperature - Air inlet	°C	8,00	8,00	8,00
Maximum temperature - Air inlet	°C	50	50	50
Maximum temperature water (DHW)	°C	60,00	60,00	60,00
Refrigerant	R	R-134a	R-134a	R-134a
Refrigerant charge	grammi	320,00	320,00	320,00
Air flow maximum (ventilator)	mc/h	400,00	400,00	400,00
Prevalence remaining available	mm. c.a.	10	10	10
Sound level	db	54,00	54,00	54,00
COP average - Temperature 15-45°C, air 15 °	Kw/Kw	3,20	3,20	3,20
Diameter pipes channeling	mm.	160,00	160,00	160,00
Maximum length ducting	m.	5,00	5,00	5,00
Compressor	-	Alternative		
Evaporator	-	Battery with aluminum fins and copper pipes		
Condenser	-	Double-wall pipe in copper		
Weight	Kg	113	125	153
Dimensions (Dia x H)	mm.	650 x 1380h	650 x 1650h	650 x 1760h

COP measured according to EN 255-3

Geothermal heat pump **GEO**

All-In-One System



Heating with geothermal energy is environmentally friendly, efficient and cost-effective

HIGH ENERGY EFFICIENCY COP>4

ALL-IN-ONE: HEATING, COOLING AND HOT DOMESTIC WATER

OPTIMAL OPERATION IN EVERY SEASONS

RANGE FROM 8KW UP TO 44KW

ECO FRIENDLY GAS R410A

LOW NOISE



Functional specs



Main features

The ground on which a residential, office or retail building lies may provide a sufficient source of energy to heat and cool internal environments.

Various system solutions are possible, able to achieve thermal exchange between underground source and heat transfer fluid:

GEO-S with horizontal probes buried about 2 metres deep

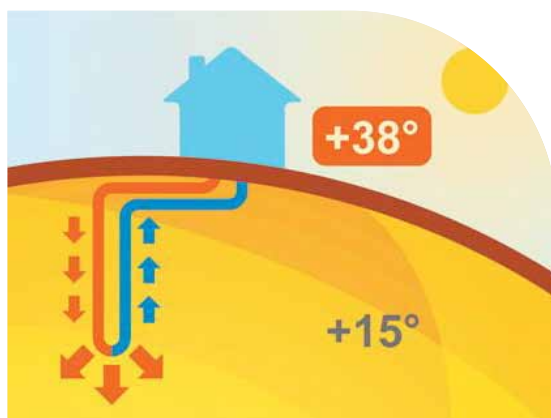
GEO-S with vertical probes (80 - 120 m deep)

GEO-P with an artesian well (ground, river or lake water)

A heat transfer fluid is circulated inside the probes, generally water or a mixture of water and glycol that makes it possible to transfer the heat to the GEO heat pump making it available for heating, conditioning and domestic hot water production.

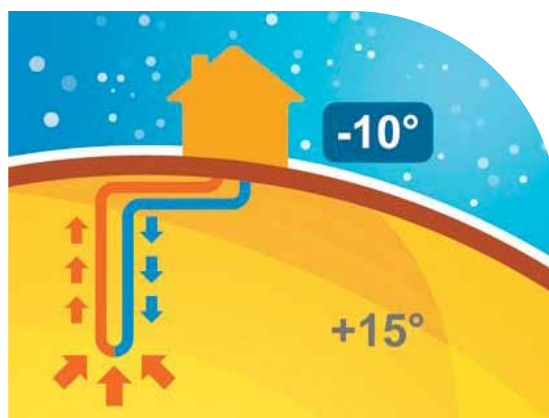
Functional scheme

Summer



During the summer season, the ground cools the fluid exchange.

Winter



During the winter season, the ground heats the fluid exchange.

Where to install it?

Laundry



Technical room



Technical data

Geothermal heat pump GEO-S (for systems with geothermal probe)

Model		GEO-6S	GEO-8S	GEO-12S	GEO-16S	GEO-20S	GEO-24S	GEO-30S
Code	-	150006	150008	150012	150016	150020	150024	150030
Cooling capacity (B30/W18)	kW	8	11	15	19	23	27	37
Thermal power (B0/W35)	kW	6	8	11	14	16	19	27
Power supply (50Hz)	V	230-50	230-50	400-3N-50	400-3N-50	400-3N-50	400-3N-50	400-3N-50
Power consumption - compressor	Kw	1	2	3	3	4	4	6
COP	Kw/Kw	4	4	4	4	4	4	4
Type of compressor	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Numbers of compressors	NR	1	1	1	1	1	2	2
Refrigerant	-	R140A	R140A	R140A	R140A	R140A	R140A	R140A
Sound pressure at 1 mt.	db(A)	48	48	50	51	53	55	59
Water connections	"	1	1	1	1	1	1-1/4	1-1/4
Water connection - system side	"	1	1	1	1	1	1-1/4	1-1/4
Water connection - geothermal side	"	1	1	1	1	1	1-1/4	1-1/4
Weight (Net/Gross)	Kg.	146-151	153-158	169-175	195-200	215-220	262-270	302-310
Dimensions (WxDxH)	mm	620x580x970	620x580x970	620x650x1050	620x650x1050	620x650x1050	800x880x1040	800x880x1040

Geothermal heat pump GEO-P (for installations with artesian well)

Model		GEO-6P	GEO-8P	GEO-12P	GEO-16P	GEO-20P	GEO-24P	GEO-30P
Code	-	150506	150508	150512	150516	150520	150524	150530
Cooling capacity (W10/W23)	kW	9	11	15	22	25	30	44
Thermal power (W5/W35)	kW	8	11	15	19	21	25	37
Power supply (50Hz)	V	230-50	230-50	400-3N-50	400-3N-50	400-3N-50	400-3N-50	400-3N-50
Power consumption - compressor	Kw	1	2	2	4	4	5	7
COP (*)	Kw/Kw	5	6	6	6	5	6	5
Type of compressor	-	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Numbers of compressors	NR	1	1	1	1	1	2	2
Refrigerant	-	R140A	R140A	R140A	R140A	R140A	R140A	R140A
Sound pressure at 1 mt.	db(A)	48	48	50	51	53	55	59
Water connections	"	1	1	1	1	1	1-1/4	1-1/4
Water connection - system side	"	1	1	1	1	1	1-1/4	1-1/4
Water connection - well side	"	1	1	1	1	1	1-1/4	1-1/4
Weight (Net/Gross)	Kg.	146-151	153-158	169-175	195-200	215-220	262-270	302-310
Dimensions (WxDxH)	mm	620x580x970	620x580x970	620x650x1050	620x650x1050	620x650x1050	800x880x1040	800x880x1040

*COP measured according to EN 14511

Wall mounted units **WI-G**

RANGE FROM 2,7KW UP TO 8KW
NEW MODERN DESIGN
ECO FRIENDLY GAS R410A
LOW NOISE < 20dB.

NEWS
2015



Functional specs



Main features

Elegant and essential design.

A perfect balance of aesthetics and functionality, soft and neat lines that stylishly complement any internal setting. The unit stands out for the quality of the materials and superior level of finishes such as the hidden display.

Funzione Sleep Care

The Sleep Care function is a precise and intelligent technology for the night. It provides different setting modes for every type of users, such as adults, children and the elderly. Thanks to this function your sleep will certainly improve.

Low noise.

Thanks to quiet operation, the unit distributes air in the room in an almost imperceptible manner, emitting minimal noise at a level of 20 dB(A). In addition to the possibility of controlling the air flow output volume, a larger diameter fan reduces the internal unit's noise level thus further reducing fan speed and optimising the air flow.

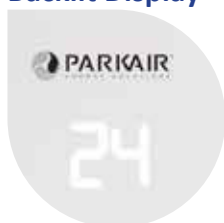
Design



Remote controller RC-G (included)

Special notes

Backlit Display



Easy Interface



Double design surface



Ideal applications

Residences



Offices



Shops



Bars & restaurants



Technical data

Wall Mounted split units WI-G						
Model		WI9-G	WI12-G	WI18-G	WI24-G	WI30-G
Code	-	220000	220005	220010	220015	220020
Power supply	V-ph-Hz	230 - 1 - 50	230 - 1 - 50	230 - 1 - 50	230 - 1 - 50	230 - 1 - 50
Cooling capacity	Btu/h	9210	11939	15350	24218	27288
	KW	2,70	3,50	4,50	7,10	8,00
Heating capacity	Btu/h	9721	12962	17055	26606	30017
	KW	2,85	3,80	5,00	7,80	8,80
Input Power	w	33	35	50	85	85
Fan Motor Speed (Hi/Med/Lo)	r/min	1250/1050/930	1330/1220/1170	1300/1150/1000	1270/1150/1050	1200/1050/950
Air flow (Hi/Med/Lo)	m3/h	450/400/320	500/450/380	850/700/650	1100/980/880	1100/980/880
Noise level (Hi/Med/Lo)	dB(A)	40/37/34	40/37/34	43/40/37	50/46/43	51/48/45
Unit dimensions (WxDxH)	mm	805x290x210	805x290x210	860x292x205	1080x330x220	1080x330x220
Packing dimensions (WxDxH)	mm	870x365x280	870x365x280	930x365x280	1165x405x330	1165x405x300
Weight (Net/Gross)	kg	10/11,5	10/11,5	11/13	15/20	17/20
Drainage water pipe dia.	mm	17	17	17	17	17
Refrigerant pipe dia. (Liquid side/Gas side)	mm	6,35/9,52	6,35/12,7	6,35/12,7	9,52/15,88	9,52/15,88
	"	1/4 - 3/8	1/4 - 1/2	1/4 - 1/2	3/8 - 5/8	3/8 - 5/8
Controller	Kind	Remote control	Remote control	Remote control	Remote control	Remote control

Duct units **DI-M**

RANGE FROM 3,5KW UP TO 16KW

COMPACT DESIGN

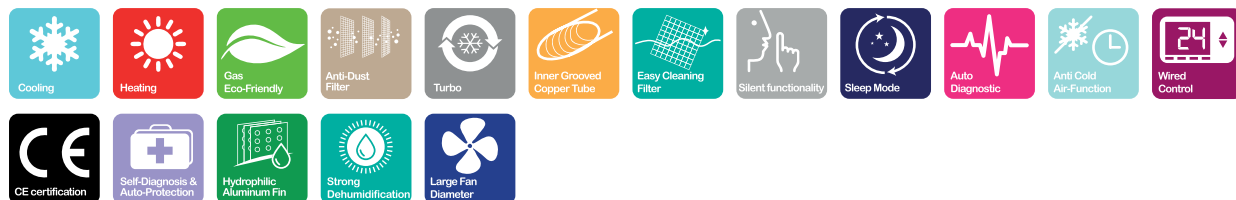
ECO FRIENDLY GAS R410A

MULTY AIR INLET

NEWS
2015



Functional specs



Main features

Compact Design

The unit is extremely compact (only 210 mm height for the 12Kw model) thus making it possible to install it in rooms with little false ceilings space. Furthermore the internal units sized 18Kw and 24Kw are only 920mm wide.

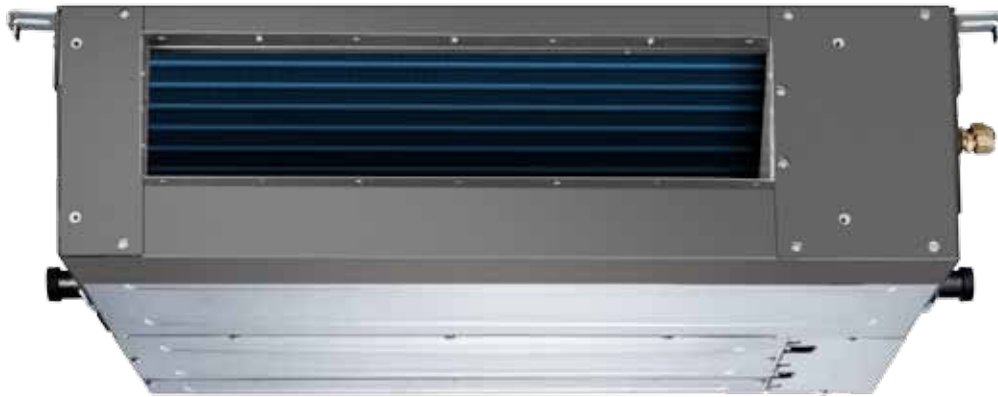
Flexible Air Intake Ways

Air inlet from back standard and from bottom optional. The size of the plate from bottom and flange from back is the same, it's easy for installer to change the air inlet from back to bottom.

"Fresh Air" inlet

The "Fresh Air" intake is standard supplied and it is extremely easy to connect it to the outdoor air with a through hole in order to add outdoor air into the room.

Design



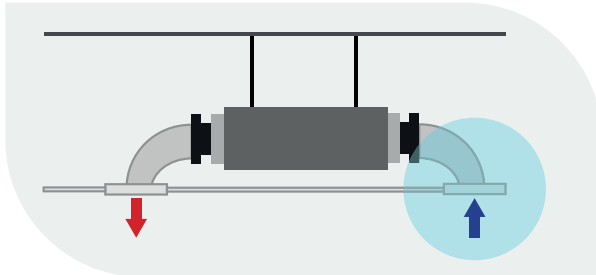
Wired controller
WC-M
(included)



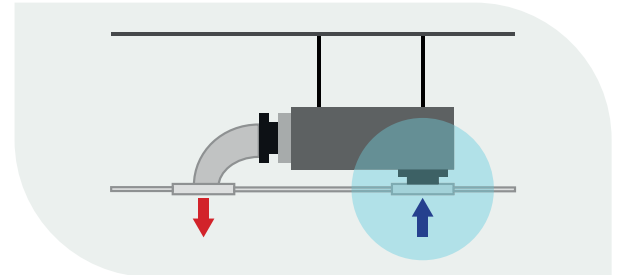
Remote controller
RC-M
(optional)

Special notes

Air inlet from the back (standard)



Air inlet from bottom (as option)



Ideal applications

Residences



Offices



Shops



Bars & restaurants



Technical data

Ducted split units DI-M								
Model		DI12-M	DI18-M	DI24-M	DI30-M	DI40-M	DI50-M	DI60-M
Code	-	210005	210010	210015	210020	210025	210030	210035
Power supply	V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50	220~240-1-50	380~420-3-50	380~420-3-50
Cooling capacity	Btu/h	12000	18000	24000	30000	36000	48000	55000
	KW	3,52	5,28	7,04	8,80	10,55	14,07	16,12
Heating capacity	Btu/h	13200	19000	26000	32000	39600	55000	60000
	KW	3,87	5,57	7,62	9,38	11,61	16,12	17,59
Input Power	w	68/57/51	107/65/52	163/93/75	227/142/115	291/168/138	356/201/152	355/223/173
Fan Motor Speed (Hi/Med/Lo)	r/min	1220/1010/880	1150/800/700	1000/750/680	935/700/620	1070/790/710	1070/750/650	1080/830/710
Air flow (Hi/Med/Lo)	m3/h	624/485/400	816/546/-	1260/808/-	1556/1008/-	1848/1103/-	2282/1439/-	2275/-/-
External Static Pressure - Nominal	Pa	25	25	25	37	37	50	50
External Static Pressure (Min/Max)	Pa	0-60	0-60	0-80	0-80	0-80	0-100	0-120
Noise level (Hi/Med/Lo)	dB(A)	43/37/31	44/37/33	44/37/34	50/44/42	46/38/35	50/45/40	47/40/38
Unit dimensions (WxDxH)	mm	700x635x210	920x635x210	920x635x270	1140x775x270	1140x775x270	1200x865x300	1200x865x300
Packing dimensions (WxDxH)	mm	915x655x290	1135x655x290	1135x655x350	1355x795x350	1355x795x350	1405x920x373	1405x920x373
Weight (Net/Gross)	kg	18.3/22.6	24/28	26.5/32	37/43	36.5/44	44.5/53	47/55
Drainage water pipe dia.	mm	25	25	25	25	25	25	25
Refrigerant pipe dia. (Liquid side/Gas side)	mm	6.35/12.7	6.35/12.7	9.52/15.9	9.52/19	9.52/19	9.52/19	9.52/19
	"	1/4 - 1/2	1/4 - 1/2	3/8 - 5/8	3/8 - 3/4	3/8 - 3/4	3/8 - 3/4	3/8 - 3/4
Controller	Kind	Wired control	Wired control	Wired control	Wired control	Wired control	Wired control	Wired control

Cassette units KI-M

RANGE FROM 3,4KW UP TO 16KW

COMPACT DESIGN

ECO FRIENDLY GAS R410A

360° AIR DISTRIBUTION

NEWS
2015

Functional specs



Main features

360° air distribution

The innovative 360 Air Flow panel assures even more efficient air distribution. In addition to greater efficiency, the air flow is distributed to the room even more consistently, hence the perceived temperature is constant.

Ease of maintenance

Thanks to the tilting inspection panel the unit's cleaning and maintenance is even easier.

Super compact

Models KI40-M, KI50-M, KI60-M have a super compact design thanks to the thickness less than 25 cm (28cm for KI60-M) that make installation easier even in the most challenging settings.

Built-in drain pump

All models are fitted with built-in drain pump able to lift condensation water up to maximum gradient of 75 cm.

Design



KI12,18,24-M



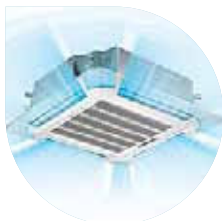
KI40,50,60-M



Remote controller
RC-M
(included)

Special notes

360° Air-Flow



Easy clean panel



Ideal applications

Residences



Offices



Shops



Bars & restaurants



Technical data

Cassette split units KI-M					
Model		KI12-M	KI18-M	KI24-M	KI40-M
Code	-	211005	211010	211015	211025
Power supply	V-ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50	380-415-3-50
Cooling capacity	Btu/h	11.500	18.000	24000	36000
	KW	3,37	5,28	7,04	10,55
Heating capacity	Btu/h	12000	19500	26400	40000
	KW	3,52	5,72	7,74	11,73
Input Power	w	47.1/37.8/31.1	80/65/46	91/80/70	174/145/121
Fan Motor Speed (Hi/Med/Lo)	r/min	780/670/540	1000/875/710	580/510/430	690/610/540
Air flow (Hi/Med/Lo)	m3/h	680/600/400	800/710/560	1200/1050/900	1800/1600/1400
Noise level (Hi/Med/Lo)	dB(A)	42/39/35	45/41/38	48/46/41	51/47/43
Unit dimensions (WxDxH)	mm	570x570x260	570x570x260	840x840x205	840x840x245
Packing unit dimensions (WxDxH)	mm	655x655x290	655x655x290	900x900x225	900x900x265
Panel dimensions (WxDxH)	mm	647x647x50	647x647x50	950x950x55	950x950x55
Packing panel dimensions (WxDxH)	mm	715x715x123	715x715x123	1035x1035x90	1035x1035x90
Unit weight (Net/Gross)	kg	15/18	17.5/20	23/27	25/28.5
Panel weight (Net/Gross)	kg	2.5/4.5	2.5/4.5	5/8	5/8
Drainage water pipe dia.	mm	25	25	32	32
Refrigerant pipe dia. (Liquid side/Gas side)	mm	6.35/12.7	6.35/12.7	9.52/15.9	9.52/19
	"	1/4 - 1/2	1/4 - 1/2	3/8 - 5/8	3/8 - 3/4
Controller	Kind	Remote control	Remote control	Remote control	Remote control

Floor and Ceiling units **FI-M**

ELEGANT AND COMPACT DESIGN
RANGE FROM 5KW UP TO 17KW
ECO FRIENDLY GAS R410A
LOW NOISE

**NEWS
2015**



Functional specs



Main features

Floor split units are easy to install, versatile and powerful, ideal for all settings.

Its typical application is for offices but its neat and elegant design allows it to be used in residential settings as well or public spaces such as shops or public establishments.

Universal spare parts

More than 60% of components (such as fans, shells and other metal parts) are universal for the 3 different cases of the FI-M series, which makes spare parts and maintenance easier and cheaper.

Wide Air Distribution Radius

All Parkair Ceiling/Floor units are equipped with a technology able to distribute the air flow in a remarkably even manner, thus assuring the utmost comfort for the user.

Maximum Installation Flexibility

The unit may be installed horizontally on the ceiling or vertically against a wall.

Design



Remote controller
RC-M
(included)

Special notes

Backlit Display



Easy Interface



Curved shape



Ideal applications

Sailing



Offices



Shops



Bars & Restaurants



Technical data

Floor and ceiling split units FI-M			
Model		FI18-M	FI24-M
Code	-	212010	212015
Power supply	V-ph-Hz	220~240-1-50	220~240-1-50
Cooling capacity	Btu/h	18000	24000
	KW	5,28	7,04
Heating capacity	Btu/h	19000	26000
	KW	5,57	7,62
Input Power	w	125/105/85	125/105/85
Fan Motor Speed (Hi/Med/Lo)	r/min	1310/1190/1040	1310/1190/1040
Air flow (Hi/Med/Lo)	m3/h	1300/1050/900	1400/1200/1000
Noise level (Hi/Med/Lo)	dB(A)	52/46/41	53/48/42
Unit dimensions (WxDxH)	mm	1068x675x235	1068x675x235
Packing dimensions (WxDxH)	mm		
Weight (Net/Gross)	kg	24/29	24/29
Drainage water pipe dia.	mm	25	25
Refrigerant pipe dia. (Liquid side/Gas side)	mm	6.35/12.7	9.52/15.9
	"	1/4 - 1/2	3/8 - 5/8
Controller	Kind	Remote control	Remote control

Floor standing unit **FS-G**

SLEEK AND COMPACT DESIGN

ECO FRIENDLY GAS R410A

IDEAL FOR LARGE ROOMS

EASY INSTALLATION

**NEWS
2015**

Functional specs



Main features

Parkair's floor standing split unit is ideal to cool large rooms and quickly reach the desired temperature.

It assures the utmost comfort thanks to its quiet operation, recent integration of a low noise fan and improvement in the air diffuser's design.

Thanks to the action of the horizontal and vertical baffles that evenly distribute conditioned air up to 15 metres away, it is the perfect solution to air condition shops, restaurants, offices and wide rooms. The front panel with LED display allows the conditioner to be easily managed and the desired temperature to be always under control.

Simple and easy to install, with a completely restyled design, it is the ideal choice to respond to sudden air conditioning needs. Especially quiet, it is fitted with a long-life air filter and takes very little space with a particularly low weight.

Design



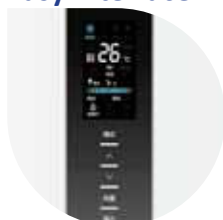
Remote controller RC-G (included)

Special notes

Remote control



Easy Interface



Ideal applications

Uffici



Negozi



Bar & Ristoranti



Centri congressi



Technical data

Floor standing split unit FS-G		
Model		FS48-G
Code	-	221030
Power supply	V-ph-Hz	380V/50HZ
Cooling capacity	Btu/h	47754
	KW	14
Heating capacity	Btu/h	52530
	KW	15,4
Input Power	w	240
Fan Motor Speed (Hi/Med/Lo)	r/min	470/380/300
Air flow (Hi/Med/Lo)	m3/h	1900
Noise level (Hi/Med/Lo)	dB(A)	52
Unit dimensions (WxDxH)	mm	1900x600x350
Packing dimensions (WxDxH)	mm	2040x770x445
Weight (Net/Gross)	kg	60
Drainage water pipe dia.	mm	73
Refrigerant pipe dia. (Liquid side/Gas side)	mm	9,52/19
	"	3/8 - 3/4
Controller	Kind	Remote control

Wall mounted fancoils

FCW

Hydronic systems

COMPACT DESIGN

RANGE FROM 2.4KW UP TO 4.6KW

MODERN DESIGN

LOW NOISE



Functional specs



Remote controller TCW (optional)

Main features

Wall mounted fancoils FCW				
Model		FCW-20	FCW-30	FCW-40
Code	-	160101	160106	160111
Cooling capacity (12.7°C) - Total	kW	2,38	2,67	4,6
Cooling capacity (12.7°C) - Sensible	kW	1,79	2,03	3,69
Heating capacity (45-40°C)	kW	2,5	3	3,8
Air flow (Hi/Med/Lo)	mc/h	410/330/270	485/390/320	860/753/592
Sound Level (Hi/Med/Lo)	dB(A)	39,5/36,5/29,5	41/37,5/32	48/45,9/40,2
Dimensions (WxDxH)	mm	795x195x283	795x195x283	940x200x298
Weight	kg	8,5	8,5	13
Weight with packaging	kg	15	15	17
Water flow (heating)	l/h	441	541	677
Pressure losses (heating)	kPa	9,85	14,2	29
Water flow (cooling)	l/h	409	460	793
Pressure losses (cooling)	kPa	10,6	13,2	45
Water connections	"	1/2" M	1/2" M	1/2" M

Performances refer to the following conditions. Cooling: Air temperature 27°C w.b., 19°C w.b. - Water temperature IN 7°C, Water temperature OUT 12°C. Heating: Air temperature 20°C - Water temperature IN 45°C, Water temperature OUT 40°C. Sound pressure levels measured in free field 2 meters away.

Floor mounted fancoils

FCF

Hydronic systems

- COMPACT DESIGN
- RANGE FROM 2.4KW UP TO 4.6KW
- MODERN DESIGN
- LOW NOISE



Functional specs



Wired controller CR11 (optional)

Main features

Floor mounted fancoils FCF							
Model		FCF-20	FCF-30	FCF-40	FCF-60	FCF-75	FCF-90
Code	-	160201	160206	160211	160216	160221	160226
Cooling capacity (max) - total	kW	2	3	4,2	6,4	7,5	9,6
Cooling capacity (max) - Sensible	kW	1,6	2,4	3,4	5,2	6,4	8,2
Heat capacity (45-40°C)	kW	2,1	3	4,5	6,5	8,4	10,4
Air flow - Maximum	mc/h	360	440	660	1000	1430	1900
Sound level (Min/Max)	dB(A)	28-38	29-40	30-42	32-43	37-49	38-50
Dimensions (WxDxH)	mm	670x220x520	870x220x520	1070x220x520	1270x220x520	1470x220x520	1670x220x520
Weight version P / ZG version	kg	14,0/14,3	17,2/17,7	23,5/24,2	27,5/28,4	30,0/31,1	34,0/35,3
Water flow (heating)	l/h	373	528	792	1172	1464	1816
Pressure losses (heating)	kPa	14,9	22,7	14,3	21,7	35,9	37,7
Water flow (cooling)	l/h	344	520	732	1105	1296	1652
Pressure losses (cooling)	kPa	16,3	28,2	15,6	24,7	36,1	40
Water connections	"	1/2	1/2	1/2	1/2	1/2	1/2
Pipe of condensation	mm	20	20	20	20	20	20

Performances refer to the following conditions. Cooling: Air temperature 27°C w.b., 19°C w.b. - Water temperature IN 7°C, Water temperature OUT 12°C. Heating: Air temperature 20°C - Water temperature IN 45°C, Water temperature OUT 40°C. Sound pressure levels measured in free field 2 meters away.

Floor mounted fancoils

FCF-Z

Hydronic systems

COMPACT DESIGN

RANGE FROM 2KW UP TO 9.6KW

MODERN DESIGN

LOW NOISE



Functional specs



Wired controller CR11 (optional)

Main features

Floor mounted fancoils FCF-Z							
Model		FCF-20Z	FCF-30Z	FCF-40Z	FCF-60Z	FCF-75Z	FCF-90Z
Code	-	160301	160306	160311	160316	160321	160326
Cooling capacity (max) - total	kW	2	3	4,2	6,4	7,5	9,6
Cooling capacity (max) - Sensible	kW	1,6	2,4	3,4	5,2	6,4	8,2
Heat capacity (45-40°C)	kW	2,1	3	4,5	6,5	8,4	10,4
Air flow - Maximum	mc/h	360	440	660	1000	1430	1900
Sound level (Min/Max)	dB(A)	28-38	29-40	30-42	32-43	37-49	38-50
Dimensions (WxDxH)	mm	670x220x520	870x220x520	1070x220x520	1270x220x520	1430x220x520	1670x220x520
Weight version P / ZG version	kg	14,0/14,3	17,2/17,7	23,5/24,2	27,5/28,4	30,0/31,1	34,0/35,3
Water flow (heating)	l/h	373	528	792	1172	1464	1816
Pressure losses (heating)	kPa	14,9	22,7	14,3	21,7	35,9	37,7
Water flow (cooling)	l/h	344	520	732	1105	1296	1652
Pressure losses (cooling)	kPa	16,3	28,2	15,6	24,7	36,1	40
Water connections	"	1/2	1/2	1/2	1/2	1/2	1/2
Pipe of condensation	mm	20	20	20	20	20	20

Performances refer to the following conditions. Cooling: Air temperature 27°C w.b., 19°C w.b. - Water temperature IN 7°C, Water temperature OUT 12°C. Heating: Air temperature 20°C - Water temperature IN 45°C, Water temperature OUT 40°C. Sound pressure levels measured in free field 2 meters away.

Ducted fancoils FCD Hydronic systems



IDEAL FOR LARGE ROOMS
COMPACT DESIGN
RANGE FROM 6KW UP TO 15KW
LOW NOISE



Functional specs



Wired controller
CR11
(optional)

Main features

Ducted fancoils FCD							
Model		FCD-60	FCD-75	FCD-85	FCD-100	FCD-130	FCD-150
Code	-	160701	160706	160711	160716	160721	160726
Cooling capacity (max) - total	kW	6	7,5	8,6	10,3	12,9	15
Cooling capacity (max) - Sensible	kW	4,5	5,6	6,1	8,1	9,9	11,1
Heat capacity (45-40°C)	kW	6,5	7,9	8,3	11,7	14,4	15,2
Air flow - Maximum	mc/h	880	960	920	1680	1840	1760
Static pressure available	Pa	60	60	60	60	60	60
Power supply	V	230	230	230	230	230	230
Sound level (Min/Max)	dB(A)	37-49	38-50	38-50	45-52	46-53	46-53
Dimensions (WxDxH)	mm	800x575x250	800x575x250	800x575x250	1200x575x250	1200x575x250	1200x575x250
Weight (whole set)	kg	34	35	37	48	50	53
Water flow (heating)	l/h	1127	1359	1428	2012	2477	2614
Pressure losses (heating)	kPa	26,6	32,9	23,4	21,1	32,1	20
Water flow (cooling)	l/h	1034	1287	1477	1772	2219	2580
Pressure losses (cooling)	kPa	28,7	37,8	32,2	21	33	25
Water connections	"	3/4	3/4	3/4	3/4	3/4	3/4
Pipe of condensation	mm	20	20	20	20	20	20

Performances refer to the following conditions. Cooling: Air temperature 27°C w.b., 19°C w.b. - Water temperature IN 7°C, Water temperature OUT 12°C. Heating: Air temperature 20°C - Water temperature IN 45°C, Water temperature OUT 40°C. Sound pressure levels measured in free field 2 meters away.

Recessed fancoils FCI

Hydronic systems

INVISIBLE SOLUTION

COMPACT DESIGN

RANGE FROM 2KW UP TO 9.6KW

LOW NOISE



Functional specs



Wired controller
CR11
(optional)

Main features

Recessed fancoils FCI							
Model		FCI-20	FCI-30	FCI-40	FCI-60	FCI-75	FCI-90
Code	-	160501	160506	160511	160516	160521	160526
Cooling capacity (max) - total	kW	2	3	4,2	6,4	7,5	9,6
Cooling capacity (max) - Sensible	kW	1,6	2,4	3,4	5,2	6,4	8,2
Heat capacity (45-40°C)	kW	2,1	3	4,5	6,5	8,4	10,4
Air flow - Maximum	mc/h	360	440	660	1000	1430	1900
Sound level (Min/Max)	dB(A)	28-38	29-40	30-42	32-43	37-49	38-50
Dimensions (WxDxH)	mm	670x220x520	870x220x520	1070x220x520	1270x220x520	1470x220x520	1670x220x520
Weight (whole set)	kg	24,5	30,4	39,5	46,7	52,5	59,3
Water flow (heating)	l/h	373	528	792	1172	1464	1816
Pressure losses (heating)	kPa	14,9	22,7	14,3	21,7	35,9	37,7
Water flow (cooling)	l/h	344	520	732	1105	1296	1652
Pressure losses (cooling)	kPa	16,3	28,2	15,6	24,7	36,1	40
Water connections	"	1/2	1/2	1/2	1/2	1/2	1/2
Pipe of condensation	mm	20	20	20	20	20	20

Performances refer to the following conditions. Cooling: Air temperature 27°C w.b., 19°C w.b. - Water temperature IN 7°C, Water temperature OUT 12°C. Heating: Air temperature 20°C - Water temperature IN 45°C, Water temperature OUT 40°C. Sound pressure levels measured in free field 2 meters away.

Cassette fancoils FCK Hydronic systems

- EASY INSTALLATION
- COMPACT DESIGN
- RANGE FROM 2.45 KW UP TO 11KW
- MODERN DESIGN
- LOW NOISE



Functional specs



Remote controller TCW (optional)

Main features

Cassette fancoils FCK							
Model		FCK-20	FCK-40	FCK-50	FCK-60	FCK-80	FCK-110
Code	-	160601	160606	160611	160616	160621	160626
Cooling capacity (max) - total	kW	2,45	4,2	5,35	5,9	7,9	11
Cooling capacity (max) - Sensible	kW	2	3,2	3,95	4,4	5,8	8,4
Heat capacity (45-40°C)	kW	2,91	4,59	5,34	5,98	8,74	11,48
Power supply	V-ph-hz	230-1+N+PE-50					
Power consumption	W	75,3	98,4	112,3	126,7	130	180
Maximum consumption	A	0,36	0,46	0,52	0,58	0,65	0,92
Air flow (Hi/Med/Lo)	mc/h	660/590/520	680/510/455	770/510/455	980/570/455	1260/1050/930	2040/1800/1560
Sound level (Hi/Med/Lo)	dB(A)	39-37-34	41-32-31	44-32-31	46-35-31	48-42-32	51-49-44
Dimensions (WxDxH)	mm	255x575x575	255x575x575	255x575x575	255x575x575	342x825x825	342x950x950
Weight (net)	kg	19,1	20,6	20,6	20,6	44	46
Water flow (heating)	l/h	420	733	920	1015	1353	1890
Pressure losses (heating)	kPa	7,9	20,1	31,7	38,7	39	41
Water flow (cooling)	l/h	420	733	920	1015	1353	1890
Pressure losses (cooling)	kPa	7,9	18,9	28,5	33,9	39	41
Water connections	"	3/4M	3/4M	3/4M	3/4M	3/4M	3/4M

Performances refer to the following conditions. Cooling: Air temperature 27°C w.b., 19°C w.b. - Water temperature IN 7°C, Water temperature OUT 12°C. Heating: Air temperature 20°C - Water temperature IN 45°C, Water temperature OUT 40°C. Sound pressure levels measured in free field 2 meters away.

Ceiling fancoils FCC Hydronic systems



- IDEAL FOR LARGE ROOMS
- MODERN DESIGN
- COMPACT DESIGN
- RANGE FROM 2KW UP TO 9.6KW
- LOW NOISE



functional specs



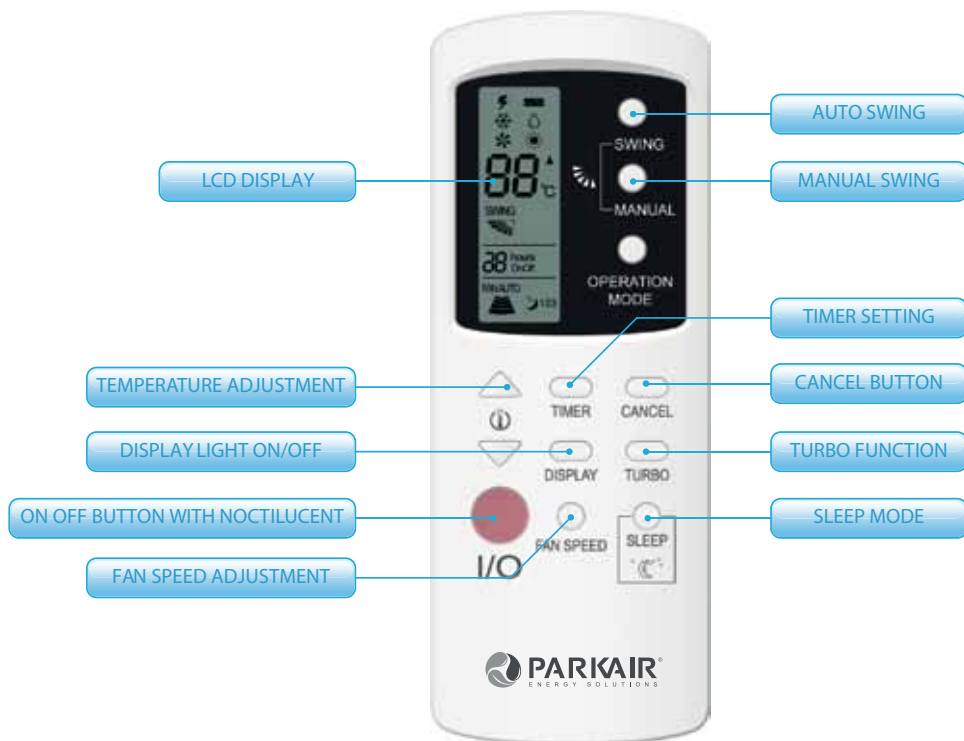
Wired controller
CR11
(optional)

Main features

Ceiling fancoils FCC							
Model		FCC-20	FCC-30	FCC-40	FCC-60	FCC-75	FCC-90
Code	-	160401	160406	160411	160416	160421	160426
Cooling capacity (max) - total	kW	2	3	4,2	6,4	7,5	9,6
Cooling capacity (max) - Sensible	kW	1,6	2,4	3,4	5,2	6,4	8,2
Heat capacity (45-40°C)	kW	2,1	3	4,5	6,5	8,4	10,4
Air flow - Maximum	mc/h	360	440	660	1000	1430	1900
Sound level (Min/Max)	dB(A)	28-38	29-40	30-42	32-43	37-49	38-50
Dimensions (WxDxH)	mm	670x220x520	870x220x520	1070x220x520	1270x220x520	1430x220x520	1670x220x520
Weight	kg	14,3	17,7	24,2	28,4	31,1	35,3
Water flow (heating)	l/h	373	528	792	1172	1464	1816
Pressure losses (heating)	kPa	14,9	22,7	14,3	21,7	35,9	37,7
Water flow (cooling)	l/h	344	520	732	1105	1296	1652
Pressure losses (cooling)	kPa	16,3	28,2	15,6	24,7	36,1	40
Water connections	"	1/2	1/2	1/2	1/2	1/2	1/2
Pipe of condensation	mm	20	20	20	20	20	20

Performances refer to the following conditions. Cooling: Air temperature 27°C w.b., 19°C w.b. - Water temperature IN 7°C, Water temperature OUT 12°C. Heating: Air temperature 20°C - Water temperature IN 45°C, Water temperature OUT 40°C. Sound pressure levels measured in free field 2 meters away.

Remote controller **RC-G** Infrared remote control



Remote controller **RC-M** Infrared remote control



Feel free to contact us to receive further information about our products and energy solutions.



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05/2015 - The technical data in this document are not binding.

Parkair reserves the right to introduce at any time whatever modifications deemed necessary for improving the product.



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