

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?

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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.