

Water chillers

ISO 9001:2008 & 10014:2007
certified Quality Management System



Main features

- Available in 17 power ratings.
- Air condensed.
- Bronze / stainless steel circulation pump.
- Tank equipped with top-up system and sight level.
- High performance rotary vane or scroll compressors with low energy consumption.
- Electronic microprocessor thermoregulator for fluid temperature control and display.
- Chiller malfunction signal display (except for ACW-LP 12 model and for optional features in other single-phase models).
- High efficiency heat exchangers.
- Low-noise axial fans.
- Bypass on the hydraulic circuit.
- Protective metal frame made of S235 steel painted with epoxy powder and with a semi-gloss textured effect.
- Eco-friendly refrigerant gas (HFC).

Accessories

- Stainless steel circulation pumps (when not included).
- High head circulation pumps.
- Differential electronic thermoregulator equipped with a tenth of a degree resolution ambient sensor.
- Water flow switches with fixed settings or settable options and malfunction signal setup.
- Washable water filters.
- Pressure gauges on the hydraulic circuit and/or the chiller circuit.
- Automatic bypass valve of the hydraulic circuit.
- Caster wheels.
- Metal washable air filters for condenser protection.
- Remote malfunction signal of the chiller.
- Electric connectors upon client's request.
- PID control for an improved fluid temperature control, with electronic thermoregulator equipped with Autotuning settings.
- Special power supply voltages.
- Configuration for an ambient temperature up to +55°C.
- Configuration for an ambient temperature down to -15°C.
- Frame available upon request in every type of RAL finish.
- Polished stainless steel frame (available on the ACW-MP 350 model).

- Hydraulic section made up of check valve on fluid outflow, non-return electric valve and water filter to protect the electric valve.
- Minimum electric water level, with remote alarm.
- Automatic water filling system in the hydraulic circuit.
- Non-polluting hydraulic circulation with special fittings, resistant to every type of liquid.
- Hydraulic fittings for food use.

Thanks to a wide range of models and accessories, the ACW range is able to offer strongly personalized solutions aimed at Euro Cold chillers' specific industrial application needs.

The skills and the experience gained by Euro Cold during its 25 years of experience in the field are at your disposal.

Our power is our ability to respond to the needs of mechanical and industrial systems' manufacturers which are rapidly and constantly changing.

Do not hesitate to contact us in order that we may provide you with the most adequate solution to your specific temperature control needs.

Technical data

MODEL		ACW-LP				
		12	25	45	60	
Nominal cooling capacity (*)	W	1920 (50Hz)	3460	5300	8150	
Nominal cooling capacity (**)	W	1420 (50Hz)	3030	4300	6320	
Power supply		230V / 1ph / 50-60Hz	230V / 1ph / 50Hz	400V / 3ph / 50Hz	400V / 3ph / 50Hz	
Compressor (Max. absorbed power)	W	570 (60Hz)	1200	1779	2380	
Fan	Air flow	1400	1850	2700	4060	
	Max. absorbed power	118 (60Hz)	80	130	260	
Condenser		Air condenser (copper/aluminium)				
Evaporator		Submerged type (copper)				
Electronic thermoregulator		Setting range from +15 to +27°C or from +5 to +15°C				
Pump (***)	Flow rate	l/min	8 - 30	12 - 42	12 - 42	12 - 42
	Head	bar	3 - 0.5	2.8 - 1.2	2.8 - 1.2	2.8 - 1.2
	Max. absorbed power	W	690 (60Hz)	500	332	332
Thermoplastic tank (nom. capacity)	l	5.5	14	23	65	
Refrigerant gas		R407C				
Noise level (at 1 m distance)	db (A)	55	64	64	64	
Frame colour		RAL 7035				
Frame type		LP-12	ECP1-B	ECP2-B	ECP3L-B	

Technical drawings available in the **DOWNLOAD** area of our Web site

Weights & dimensions

Empty weight (approx.)	kg	45	60	70	100
Packaging weight (approx.)	kg	50	65	80	110
Dimensions (W x D x H)	mm	490 x 550 x 415	450 x 462 x 985	562 x 512 x 1073	665 x 655 x 1180
Packaging dimensions (W x D x H) (****)	mm	690 x 590 x 700	690 x 590 x 1150	755 x 630 x 1200	1000 x 800 x 1580

Notes

(*) Performance data for models with working range between +15 and +27°C

Reference values: outlet water at +22°C, ambient temperature +32°C

Maximum temperature of inlet fluid: +37°C

(**) Performance data for models with working range between +5 e +15°C

Reference values: output water at +10°C, ambient temperature +32°C

Maximum temperature of inlet fluid: +25°C

(***) Flow rate referred to pure water

(****) Standard packaging: cardboard box placed on pallet

Cooling capacity data is based on ASHRAE graphs supplied by the compressor manufacturers

Maximum and minimum ambient temperature: from +10 to +40°C

For ambient temperature above +40°C and for the use of antifreeze please contact our Engineering Department

Minimum and maximum ambient relative humidity (without condensation): from 10 to 85%

Maximum ambient altitude: 2000 m

Minimum and maximum stocking temperature: from +5 to +45°C

Hydraulic connections: see technical drawings available in the **DOWNLOAD** area of our website

All measures on technical drawings are in millimetres unless otherwise specified

EURO COLD reserves the right to carry out modifications without prior notice

Technical data

MODEL		ACW-MP								
		95	160	200	300	350	450	580	620	
Nominal cooling capacity (*)	W	12440	20250	24880	32550	37920	50470	67270	81680	
Nominal cooling capacity (**)	W	9310	15230	17510	22940	29130	36000	49140	60760	
Power supply		400V / 3ph / 50Hz								
Compressor (Max. absorbed power)	W	4030	5210	6170	8190	12020	14515	19884	25337	
Fan	Air flow	4060	4060	4060	8060	8060	14973	20048	20048	
	Max. absorbed power	260	260	260	2 x 260	2 x 260	1010	2 x 740	2 x 740	
Condenser		Air condenser (copper/aluminium)								
Evaporator		Submerged type (copper)		Brazed plates	Submerged type (copper)		Brazed plates			
Electronic thermoregulator		Setting range from +15 to +27°C or from +5 to +15°C								
Pump (***)	Flow rate	21.7 - 104.8	21.7 - 104.8	48.3 - 250	48.3 - 250	48.3 - 250	85.3 - 366.7	85.3 - 366.7	85.3 - 366.7	
	Head	2.7 - 1.5	3.7 - 2	3 - 1.3	3 - 1.3	3 - 1.3	3.4 - 2	3.4 - 2	3.4 - 2	
	Max. absorbed power	932	1085	1510	1510	1510	2568	2568	2568	
Thermoplastic tank (nom. capacity)	l	65	65	65	160	160	200	250	250	
Refrigerant gas		R407C					R410A			
Noise level (at 1 m distance)	db (A)	69	69	70	70	70	74	74	74	
Frame colour		RAL 7035								
Frame type		D2-1C	D2-2C	D2-2C	D3-2C	D3-2C	D4-1V	D4-2V	D4-2V	

Technical drawings available in the [DOWNLOAD](#) area of our Web site

Weights & dimensions

Empty weight (approx.)	kg	190	190	190	340	340	400	450	500
Packaging weight (approx.)	kg	200	200	200	360	360	450	500	550
Dimensions (W x D x H)	mm	750 x 786 x 1380			750 x 1410 x 1380		947 x 1700 x 1470	947 x 2000 x 1460	
Packaging dimensions (W x D x H) (****)	mm	1000 x 800 x 1580			1595 x 850 x 1580		1300 x 2500 x 1900		

Notes

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Reference values: outlet water at +22°C, ambient temperature +32°C

Maximum temperature of inlet fluid: +37°C

(**) Performance data for models with working range between +5 e +15°C

Reference values: output water at +10°C, ambient temperature +32°C

Maximum temperature of inlet fluid: +25°C

(***) Flow rate referred to pure water

(****) Standard packaging: cardboard box placed on pallet

Cooling capacity data is based on ASHRAE graphs supplied by the compressor manufacturers

Maximum and minimum ambient temperature: from +10 to +40°C

For ambient temperature above +40°C and for the use of antifreeze please contact our Engineering Department

Minimum and maximum ambient relative humidity (without condensation): from 10 to 85%

Maximum ambient altitude: 2000 m

Minimum and maximum stocking temperature: from +5 to +45°C

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Technical data

MODEL	ACW-MP-HE						
	780	800	820	880	900		
Nominal cooling capacity (*)	W	98280	114819	131358	165512	199488	
Nominal cooling capacity (**)	W	82168	96401	110634	139126	167314	
Power supply		400V / 3ph / 50Hz					
Compressor (Max. absorbed power)	W	2 x 14654	19591 + 14654	2 x 19591	2 x 25337	2 x 29796	
Fan	Air flow	mc/h	21379	30913	30913	39890	39890
	Max. absorbed power	W	4 x 480	6 x 480	6 x 480	8 x 480	8 x 480
Condenser		Air condenser (copper/aluminium)					
Evaporator		Brazen plates					
Electronic thermoregulator		Setting range from +15 to +27°C or from +5 to +15°C					
Pump (***)	Flow rate	l/min	0 - 1100	0 - 1100	0 - 1100	0 - 1100	0 - 1100
	Head	bar	4.1 - 0.75	4.1 - 0.75	4.1 - 0.75	4.1 - 0.75	4.1 - 0.75
	Max. absorbed power	W	6600	6600	6600	6600	6600
Internal circulation pump (Max. absorbed power)	W	5500	5500	5500	5500	5500	
Thermoplastic tank (nom. capacity)	l	400	400	400	400	400	
Refrigerant gas		R410A					
Noise level (at 1 m distance)	db (A)	52	54	54	54	54	
Frame colour		RAL 9002					
Frame type		D5-4V	D5-6V	D5-6V	D5-8V	D5-8V	

Technical drawings available in the **DOWNLOAD** area of our Web site

Weights & dimensions

Empty weight (approx.)	kg	650	730	730	1055	1085
Packaging weight (approx.)	kg	987	1138	1138	1626	1656
Dimensions (W x D x H)	mm	1183 x 2090 x 1735	1183 x 2442 x 1735		1183 x 3190 x 1735	
Packaging dimensions (W x D x H) (****)	mm	1183 x 2090 x 1735	1183 x 2442 x 1735		1183 x 3190 x 1735	

Notes

(*) Performance data for models with working range between +15 and +27°C

Reference values: outlet water at +22°C, ambient temperature +32°C

Maximum temperature of inlet fluid: +37°C

(**) Performance data for models with working range between +5 e +15°C

Reference values: output water at +10°C, ambient temperature +32°C

Maximum temperature of inlet fluid: +25°C

(***) User pump. Flow rate referred to pure water

(****) Standard packaging: stretch wrap

Cooling capacity data is based on ASHRAE graphs supplied by the compressor manufacturers

Maximum and minimum ambient temperature: from +10 to +40°C

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Minimum and maximum ambient relative humidity (without condensation): from 10 to 85%

Maximum ambient altitude: 2000 m

Minimum and maximum stocking temperature: from +5 to +45°C

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