

## Water chillers

ISO 9001:2015  
certified Quality Management System



### Main features

- Available in seventeen 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 (*)	<b>W</b>	1920	3460	5300	8150
Nominal cooling capacity (**)	<b>W</b>	1420	3030	4300	6320
Power supply		230V / 1ph / 50Hz		400V / 3ph / 50Hz	
Compressor (Max. absorbed power)	<b>W</b>	660	1420	2140	3575
Fan	Air flow	1150	1700	2700	4060
	Max. absorbed power	70	85	130	220
Condenser		Air condenser (copper/aluminium)			
Evaporator		Submerged type (copper/aluminium)			
Electronic thermoregulator		Setting range from +15 to +27°C or from +5 to +15°C			
Pump (***)	Flow rate	8 - 30	12 - 42	12 - 42	13.3 - 71.5
	Head	3 - 0.5	2.8 - 1	2.8 - 1.2	2.7 - 1.2
	Max. absorbed power	690	534	334	647
Thermoplastic tank (nom. capacity)	<b>l</b>	5.5	14	23	65
Refrigerant gas		R410A	R407C		
Noise level (at 1 m distance)	<b>db (A)</b>	55	64	64	70
Frame colour		RAL 7035			
Frame type		LP-12	ECP1-B	ECP2-B	ECP3-B

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

## Weights & dimensions

Empty weight (approx.)	<b>kg</b>	45	60	70	100
Packaging weight (approx.)	<b>kg</b>	50	65	80	110
Dimensions (W x D x H)	<b>mm</b>	490 x 550 x 420	450 x 470 x 990	570 x 520 x 1080	670 x 660 x 1180
Packaging dimensions (W x D x H) (****)	<b>mm</b>	690 x 590 x 700	690 x 590 x 1150	755 x 630 x 1200	1020 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 Technical 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	5302	6886	8140	10681	15961	20520	27310	33110	
Fan	Air flow	mc/h	4060	4060	4060	8060	8060	14973	20048	20048
	Max. absorbed power	W	220	220	510	2 x 220	2 x 220	2 x 600	2 x 600	2 x 600
Condenser		Air condenser (copper/aluminium)								
Evaporator		Submerged type (copper/aluminium)		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	l/min	21.7 - 104.8		48.3 - 250			85.3 - 366.7		
	Head	bar	2.7 - 1.5	3.7 - 2	3 - 1.3			3.4 - 2		
	Max. absorbed power	W	843	1276	1778			2780		
Thermoplastic tank (nom. capacity)	l	65			160		250			
Refrigerant gas		R407C					R410A			
Noise level (at 1 m distance)	db (A)	70					74			
Frame colour		RAL 7035					RAL 9002			
Frame type		D2-1C	D2-2C	D2-2C	D3-2C	D3-2C	D4-2V	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 790 x 1380			750 x 1410 x 1380		950 x 2000 x 1460		
Packaging dimensions (W x D x H) (****)	mm	1020 x 800 x 1580			850 x 1595 x 1580		1100 x 2100 x 1600		

## 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 Technical 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

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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)		2 x 20520	2 x 27310	2 x 33110	2 x 33110	2 x 41250
Fan	Air flow	21379	30913	30913	39890	39890
	Max. absorbed power	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
	Head	bar	4.1 - 0.75	4.1 - 0.75	4.1 - 0.75	4.1 - 0.75
	Max. absorbed power	W	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	1190 x 2090 x 1740	1190 x 2450 x 1740		1190 x 3190 x 1740	
Packaging dimensions (W x D x H) (****)	mm	1300 x 2800 x 2300	1300 x 2800 x 2300		1300 x 4000 x 2300	

## 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 -15°C to +40°C

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

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