

ACW AIR CONDENSED WATER CHILLERS



**FLUID
COOLERS**
FOR MACHINE
MANUFACTURERS

ISO 9001:2015
certified Quality
Management System

MADE IN ITALY



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 over 30 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.

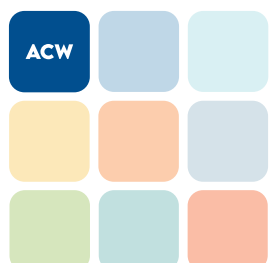
Do not hesitate to contact us in order that we may provide you with the most adequate solution to your specific temperature control needs.

MAIN FEATURES

- 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-LPH 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).
- Remote malfunction signal of the chiller (available up to the ACW-MP 350 model included).

ACCESSORIES

- Stainless steel circulation pumps (when not included).
- High head and circulation pumps.
- Differential electronic thermoregulator equipped with a tenth of a degree resolution ambient sensor.
- Water flow switches with volt-free contact; gives tension in the event of a fault.
- Washable water filter installed externally on the chiller outlet.
- 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.
- 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 and polished stainless steel frame (available up to the ACW-MP 350 model included).
- Hydraulic section made up of check valve on fluid outflow, non-return electric valve and water filter to protect the electric valve.
- Electric water level control, with remote alarm.
- Automatic water filling system in the tank.
- Non-polluting hydraulic circulation with special fittings, resistant to every type of liquid.
- Hydraulic fittings for food use.



TECHNICAL DATA

		ACW-LP			
MODEL		12	25	45	60
Nominal cooling capacity (*) W		1920	3460	5300	8150
Nominal cooling capacity (**) W		1420	3030	4300	6320
Power supply		230V / 1ph / 50Hz		400V / 3ph / 50Hz	
Compressor (Max. absorbed power) W		780	1360	1740	3040
Fan	Air flow mc/h	1360	1690	2550	4660
	Max. absorbed power W	70	85	120	220
Condenser		Air condenser (copper/aluminium)			
Evaporator		Submerged type (copper/aluminium)			
Electronic thermoregulator		Setting range from +15 e +30°C			
Pump (***)	Flow rate l/min	5 - 30	12 - 42		13 - 72
	Head bar	4 - 0.5	2.8 - 1	2.7 - 1.2	
	Max. absorbed power W	640	490	600	647
Thermoplastic tank (nom. capacity) l		5.5	14	23	65
Refrigerant gas		R407C - R410A			
Noise level (at 1 m distance) db (A)		55	64		70
Frame colour		RAL 7035			
Frame type (****)		LPH-12	ECPI-B	ECP2-B	ECP3-B
WEIGHTS & DIMENSIONS					
Empty weight (approx.) kg		43	80	105	150
Packaging weight (approx.) kg		50	90	115	170
Dimensions (W x D x H) mm		485 x 550 x 375	450 x 470 x 990	570 x 520 x 1080	670 x 660 x 1180
Packaging dimensions (W x D x H) (****) mm		755 x 630 x 700	755 x 630 x 1200		1020 x 800 x 1580

NOTES

(*) Reference values: outlet water at +22°C, ambient temperature +32°C.

Maximum temperature of inlet fluid: +37°C.

(**) Reference values: output water at +13°C, ambient temperature +32°C.

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

(****) Technical drawings of structures available for download in the DOWNLOAD area of our website.

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

Cooling capacity data is based on 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 +50°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

		ACW-MP							
MODEL		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	17440	24000	28900
Fan	Air flow mc/h	4660		6400	9330	12800	22000		
	Max. absorbed power W	220		450	2 x 220	2 x 450	2 x 620		
Condenser		Air condenser (copper/aluminium)					Aluminium MCHE		
Evaporator		Submerged type (copper/aluminium)		Brazed plates	Submerged type (copper)		Brazed plates		
Electronic thermoregulator		Setting range from +15 e +30 °C							
Pump (***)	Flow rate l/min	22 - 104		50 - 250			83 - 216	83 - 416	
	Head bar	2.7 - 1.6	3.7 - 2	3 - 1.3			3.2 - 1.5	3.4 - 0.9	
	Max. absorbed power W	890	1380	1850			1500	2350	
Thermoplastic tank (nom. capacity) l		65			160		250		
Refrigerant gas		R407C - R410A					R410A		
Noise level (at 1 m distance unless otherwise specified) db (A)		70					49#	52#	
Frame colour		RAL 7035					RAL 9002		
Frame type (****)		D2-1C	D2-2C		D3-2C		D4-2V		
WEIGHTS & DIMENSIONS									
Empty weight (approx.) kg		190	200		320	340	450	550	600
Packaging weight (approx.) kg		200	220		340	360	500	600	650
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 2600 x 1600		

NOTES

(#) Sound pressure at a distance of 10 m in free field and directionality factor 2.

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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 +50°C.

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

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TECHNICAL DATA

		ACW-MP-HE				
MODEL		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		34880	41440	46340	57800	73820
Fan	Air flow mc/h	4 x 6400	6 x 6400		8 x 6400	
	Max. absorbed power W	4 x 450	6 x 450		8 x 450	
Condenser		Aluminium MCHE				
Evaporator		Brazed plates				
Electronic thermoregulator		Setting range from +13 e +25°C				
Pump (***)	Flow rate l/min	83 - 416	133 - 400	250 - 883		
	Head bar	3.4 - 0.8	3.2 - 1.4	3.2 - 0.75		
	Max. absorbed power W	2600	2700	5380		
Thermoplastic tank (nom. capacity) l		500				
Refrigerant gas		R410A				
Noise level (at 1 m distance unless otherwise specified) db (A)		52#	56#		60#	61#
Frame colour		RAL 9002				
Frame type (****)		D5-4V	D5-6V		D5-8V	
WEIGHTS & DIMENSIONS						
Empty weight (approx.) kg		650	730		1055	1085
Packaging weight (approx.) kg		750	850		1300	
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		2650 x 1320 x 1700			3550 x 1300 x 1940	

NOTES

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