ACW

FLUID COOLERS
FOR MACHINE MANUFACTURERS

MADE IN ITALY

Water chillers

ISO 9001:2015
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	3460	5300	8150
Nominal cooling capacity (**)		W	1420	3030	4300	6320
Power supply			230V / 1ph / 50Hz		400V / 3ph / 50Hz	
Compressor (Max. absorbed power)		W	650	1350	2141	3420
Fan	Air flow	mc/h	1150	1700	2700	4060
	Max. absorbed power	W	73	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	l/min	8 - 30	12 - 42	12 - 42	13.3 - 71.5
	Head	bar	3 - 0.5	2.8 - 1	2.8 - 1.2	2.7 - 1.2
	Max. absorbed power	W	690	534	334	647
Thermoplastic tank (nom. capacity)		l	5.5	14	23	65
Refrigerant gas			R410A	R407C		
Noise level (at 1 m distance)		db (A)	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

		12	25	45	60
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	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	220	2 x 220	2 x 220	2 x 740	2 x 740	2 x 740
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		3.4 - 2
	Max. absorbed power	W	843	1276	1778			2665		6600
Thermoplastic tank (nom. capacity)		l	65			160		250	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 786 x 1380			750 x 1410 x 1380		947 x 2000 x 1460		
Packaging dimensions (W x D x H) (****)		mm	1000 x 800 x 1580			1000 x 1595 x 1580		1300 x 2500 x 1900		

Notes

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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
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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	20520 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			Brazed 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
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
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