

Immersion chillers for cutting fluids

ISO 9001:2015
certified Quality Management System



Main features

- Available in seven power ratings for emulsions cooling up to 8% and oil cooling with viscosity grade up to 22 centistokes at +40°C.
- Agitator of the fluid applied on all models.
- High performance rotary vane or scroll compressors with low energy consumption.
- **NEW!!!** Fixed or differential set temperature control (standard supply of the kit ambient probe).
- Chiller malfunction signal display (optional in all single-phase models).
- Low-noise axial fans.
- Protective metal frame made of S235 steel painted with epoxy powder and with a semi-gloss textured effect.
- Eco-friendly refrigerant gas (HFC).

Accessories

- 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.

ECI is the new Euro Cold series for cutting fluids. The immersion technology makes them extremely easy to fit and service.

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	ECI								
	12	25	45	60	95	160	200		
Nominal cooling capacity (*)	W	1920	3460	5300	8150	12440	20250	24880	
Power supply		230V / 1ph / 50Hz		400V / 3ph / 50Hz					
Compressor (Max. absorbed power)	W	660	1420	2140	3575	5302	6886	8140	
Agitator (Max. absorbed power)	W	80	80	80	80	105	105	120	
Fan	Air flow	mc/h	1150	1845	2555	5415	5415	5415	7395
	Max. absorbed power	W	70	85	120	220	220	220	420
Condenser		Air condenser (copper/aluminium)							
Evaporator		Submerged type Inox							
Electronic thermoregulator		Setting range from +25 to +35°C							
Refrigerant gas HFC		R407C							
Noise level (at 1 m distance)	db (A)	55	64	64	64	64	70	70	
Frame colour		RAL 7035							
Frame type		1M	2M	3M	3M	4M	5M	6M	

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

Weight & dimensions

Empty weight (approx.)	kg	50	60	80	100	160	180	190
Packaging weight (approx.)	kg	60	70	90	110	170	190	200
Dimensions (W x D x H)	mm	445 x 455 x 820	545 x 530 x 1055	700 x 630 x 1340	700 x 630 x 1340	780 x 810 x 1360	780 x 810 x 1510	930 x 980 x 1510

Notes

(*) Performance data for models with working range between +25 and +35°C

Reference values: fluid temperature +35°C, ambient temperature +32°C

Maximum temperature of the fluid in use: +40°C

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 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

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

Cooling capacity correction factor based on cutting fluid temperature: Kcf

Inlet temperature	35°C	30°C	25°C
Kcf	1	0.9	0.8