





ERBAY

SINCE 1987



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erbay_chillers



erbay soğutma



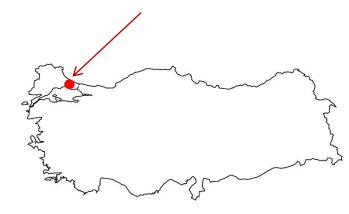
erbay chillers



ABOUT US

*ERBAY was founded by Mr. Bayram Kömürcü and Mr. Erol Gökdemir at İstanbul in 1987.

*ERBAY is a Global Manufacturer and Exporter of HVAC-R products with guaranteed our aftersales support and spare parts stock which are all CE qualified with professional product solutions.





VISION





To be a pioneering solution partner in the sector through a customer-oriented, reliable, and high-quality service.

MISSION

To grow by meeting customer expectations with excellent solutions that include new products and services, to increase added value to our partners so that to be among global companies.

VALUES

Integrity with our clients, suppliers, and employees, we will dominate a system in which self-control at every level does not allow corruption and bribery, or misconduct.



WHY ERBAY?

- High performance energy saving reliable products
- Strong know-how and experiences
- Tailor made custom product design options
- Wide standard capacities products
- Wide accessories range
- Best quality components

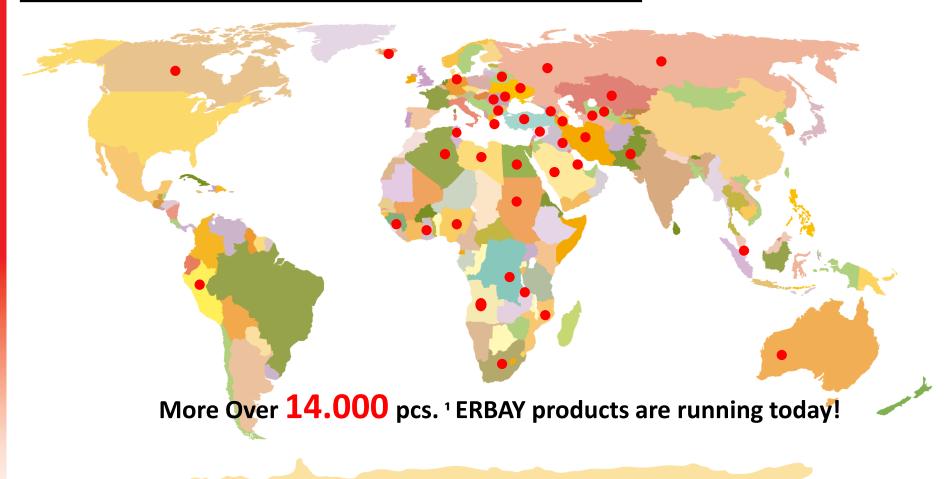


ERBAY PRODUCTS IN TURKEY





ERBAY PRODUCTS AROUND THE WORLD





CERTIFICATES





CE Certificate of Air Cooled Water Chillers



CE Certificate of Water / Sea Water Cooled Water Chillers



CE Certificate of Package Type Water Chillers



CE Certificate for Package Type Air Conditioners



CERTIFICATES



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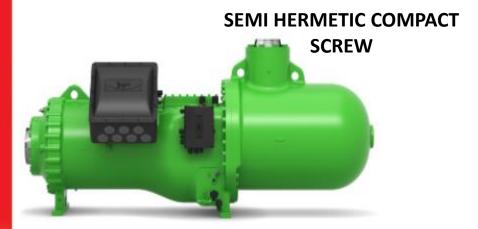
TSEK Certificate of Water Chillers

CE Certificate of Shell & Tube Evaporator and Condenser

EAC Certificate of Water Chillers Certificate - English



COMPRESSORS







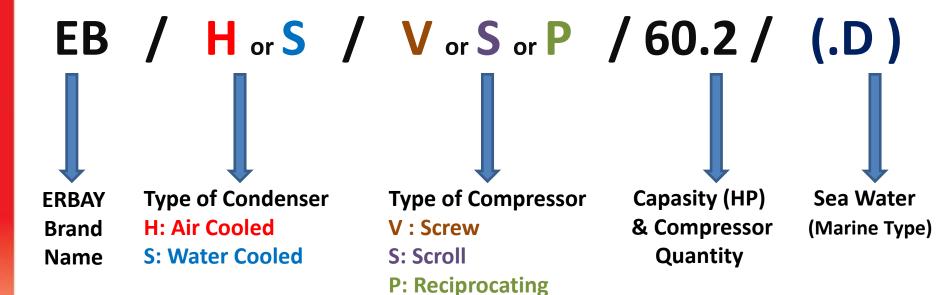


HERMETIC SCROLL





PRODUCT NOMENCLATURE (Water Chillers)¹



Example:

EBHV-60.2 ERBAY Air Cooled 60HPx2pcs. Screw Compressor Water Chiller



SOĞUTMA VE İKLİMLENDİRME CİHAZLARI



PRODUCT RANGE

Water Chillers

Air Cooled

EBHV

EBHS

EBHV/FC

EBHS/FC

Water Cooled

EBSV

EBSS

Marine Type

EBSS.D

EBSV.D

EBSP.D

Package Type

PAKCOLD KM

Air Conditioners

Packed Type

KOMPAKT

Crane Cab

Coolers

EBVK

Inrow Air

EVMS

Water Cooling Towers

Closed Circuit

EBKDK-C

EBKDK-B

Open Circuit

ERBAY- Axial Fan

ERRK - Radial Fan

Shell & Tube Heat Exchangers

Shell & Tube Evaporators

ECH

Shell & Tube Condensers

ESK

ESK.D



EBHV Series

Air Cooled Condenser Water Chiller





- * Single or double semi-hermetic compact screw compressor
- * R134a, R404a or R407c refrigerant options
- * Air cooled condenser with high efficient direct drive axial fans
- * Microprocessor control system
- * Shell & Tube evaporator
- * IP54 electrical control panel

- Optional Hidronic Kit
- Optional Adiabatic Cooling
- Cold Climate Options



EBHS Series

Air Cooled Condenser Water Chiller





- * Single, tandem, trio scroll compressors
- * R410a refrigerant
- * Air cooled condenser with high efficient direct drive axial fans
- * Microprocessor control system
- * Shell & Tube evaporator
- * IP54 electrical control panel

- Optional Hidronic Kit
- Optional Adiabatic Cooling
- Cold Climate Options



EBHV – FC and EBHS – FC Water Chiller with Free Cooling





* Single, tandem, trio scroll compressors -- EBHS

* Single or double semi-hermetic compact

* R134a, R404a, R407c or R410a refrigerant options

screw compressor --- EBHV

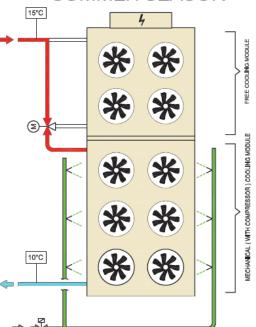
- * Air cooled condenser with high efficient direct drive axial fans
- * Microprocessor control system
- * Shell & Tube evaporator
- * IP54 electrical control panel
- Optional Hidronic Kit
- Optional Adiabatic Cooling
- Cold Climate Options

Click for download & play video animation (48 mb):



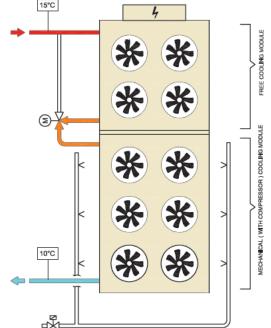
EBHV -AB/FC Series

SUMMER SEASON



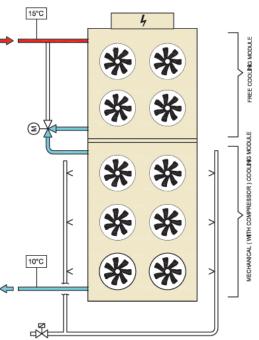
Ambient temperature is, above the required leaving water temperature and also returning water temperature from the plant (e.g. Ambient temp.:35°C, required leaving water temp:10°C, returning water temp: 15°C). Free cooling module is not working. Required leaving water temperature is provided only from mechanical cooling module (with compressor) which is integrated with adiabatic cooling system.

SPRING AND AUTUMN SEASONS



Ambient temperature is, above the required leaving water temperature but below the returning water temperature from the plant (e.g. Ambient temp:12°, required leaving water temp:10°C, returning water temp: 15°C). Returning water is partly cooled by freecooling module using the external air, depending on the ambient temperature. For able to reach required water temperature, mechanical cooling (with compressor) module works in partly load.

WINTER SEASON



Ambient temperature is below the required leaving water temperature and also returning water temperature from the plant. (e.g. Ambient temp:5°C, required leaving water temp: 10°C, returning water temp:15°C). Required leaving water temperature is provided completely by free cooling module depending on ambient temperature.



EBSV Series - Water Cooled Condenser Water Chiller





- * Single or double semi-hermetic compact screw compressor
- * R134a, R404a or R407c refrigerant options
- * Microprocessor control system
- * Shell & Tube evaporator
- * Shell & Tube condenser
- * IP54 electrical control panel

Optional Hidronic Kit



EBSS Series - Water Cooled Condenser Water Chiller





- * Single, tandem, trio scroll compressors
- * R410a refrigerant
- * Microprocessor control system
- * Shell & Tube evaporator
- * Shell & Tube condenser
- * IP54 electrical control panel

Optional Hidronic Kit



ERBAY MARINE DESIGN PRODUCTS



Erbay manufactures high quality marine type water chillers with strong know-how and strong engineering design

Best solution for sea side buildings cooling processes cause of low investment and consumption with high COP values

We are proud to be the supplier of some naval forces around the world and providing high reliability Erbay Marine Design chillers of some countries

Erbay Marine Design chillers also feasible to use at offshore plants and oil decks



EBSS.D Series - Sea Water Cooled Condenser Water Chiller







- * Single, tandem, trio scroll compressors
- * R410a refrigerant
- * Microprocessor control system
- * Shell & Tube evaporator
- * Shell & Tube sea water condenser
- * IP54 electrical control panel



EBSV.D Series - Sea Water Cooled Condenser Water Chiller







- * Single or double semi-hermetic compact screw compressor
- * R134a, R404a or R407c refrigerant options
- * Microprocessor control system
- * Shell & Tube evaporator
- * Shell & Tube sea water condenser
- * IP54 electrical control panel



EBSP.D Series - Sea Water Cooled Condenser Water Chiller







- * Single or double semi hermetic reciprocating compressor
- * R134a, R404a or R407c refrigerant options
- * Microprocessor control system
- * Shell & Tube evaporator
- * Shell & Tube sea water condenser
- * IP54 electrical control panel



PAKCOLD Series - Packaged Type Water Chillers



- *Scroll, hermetic or semi hermetic reciprocating compressor
- * R134a, R404a, R407c or R410a refrigerant options
- * Air cooled condenser with high efficient direct drive axial fans
- * Shell & Tube evaporator
- * Water tank
- * Water pump
- * Electronic control system

Optional with water cooled condenser and sea water cooled condenser



PAKCOLD Series -Packaged Type Water Chillers









PAKCOLD MINI



KOMPAKT Series -Packaged Type Air Conditioners





- *Scroll, hermetic or semi hermetic reciprocating compressor
- * R134a, R407c and R410a refrigerant options
- * Air cooled condenser, water cooled or sea water cooled condenser
- * Heating coil
- * Duct connectable or plenium type



EBVK Series – Crane Cab Coolers





- * For operator cabins and electrical rooms in Iron & Steel factories, cooking and aluminium production plants
- * Suitable up to 90°C ambient temperature
- * Depending on ambient temperature different refrigerants are used



EVMS Series – Inrow Air Conditioner





- *EVMS Series products designed for data centers
- *Hermetic scroll compressors
- * R410a refrigerant
- * Suitable for hot aisle, cold aisle and open aisle applications
- * Suitable for micro type data center applications
- * With human machine interface
- * Manufactured in Direct Expansion (DX) and Chilled Water (CW) types



ERBAY WATER COOLING TOWERS



Closed Circuit Water Cooling Towers¹:

EBKDK-C: Close Circuit Water Tower – Steel

EBKDK-B: Close Circuit Water Tower – Copper

* Only axial fan available on closed circuit towers

Open Circuit Water Cooling Towers:

ERBAY: Axial Fan Open Circuit Water Tower

ERRK: Radial Fan Open Circuit Water Tower

^{1:} Technical datas are preparing.



EBKDK-C (Steel Coil) EBKDK-B (Copper Coil)



Close Circuit Water Cooling Towers



- *Main body produces with panel shape galvanized sheet iron by join bolts.
- *High efficient direct drive axial fan which works silently and vibrationless
- *Bundle is made of cooper tubes or seamless steel tubes and altered surface with hot-dip galvanized

*Special feature of minimum water losses and water undirty



ERBAY – Open Circuit Axial Fan Water Cooler





- * Produced in steel sheet iron with epoxy painted against to ambient effects or with hot dip galvanized.
- * Special produced axial fans which is statically and dynamically balanced and resistant to corrosion, are used on cooling towers





ERRK – Open Circuit Radial Fan Water Cooler



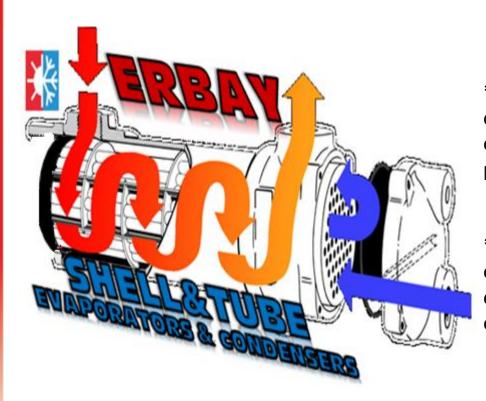


- * Main body produced with panel shape galvanized sheet iron by join bolts
- * The radial ventilator which is closed fin type, double inlet and which works silently and vibrationless





ERBAY SHELL & TUBE HEAT EXCHANGERS



- * ERBAY Shell & Tube evaporators are used for cooling water or glycol solutions in water chillers and production of hot water in heat pumps
- * ERBAY Shell & Tube condensers are used for condensation of the refrigerant in water chillers and refrigeration plants and production of hot water in heat pumps



ECH Series Shell & Tube Evaporators





- *1 or 2 cooling circuits.
- *Marine type (salty water) option available.
- *Suitable refrigerants are all HFCs and HCFCs
- *Removable tube bundles



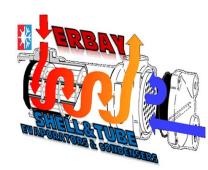


ESK Series Shell & Tube Condensers





- * Suitable refrigerants are all HFCs and HCFCs
- * Relief valve option available





ESK.D Series Marine Type Shell & Tube Condensers



- * Suitable refrigerants are all HFCs and HCFCs
- * Relief valve option available
- * Each condenser is supplied with an interchargeable zinc anode





ACCESSORIES

*Hydronic kit (1 pump or 2 pumps)

*Cold climate kit for compressor

*Cold climate kit for water line

*High pressure control system





*Adiabatic cooling





TECHNICAL DATAS

Click " for show datas

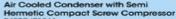
EBHV _{R407c}	EBSV _{R410a R134a} I	R407c	ESK	ERBAY	
EBHV _{R134a}	EBSP _{R407C}		ESK.D	ERRK	
EBHV-FC	EBSP.D		КОМРАКТ		
R410a R134a R407c					
EBHS _{R410a}	PAKCOLD K	(M	EBVK		
ЕВНР	ECH		EVMS		

SOĞUTMA VE IKLIMLENDIRME CIHAZLARI



CHILLER SELECTION SOFTWARE





R407C/R134A Capacity Range: 84.5 kW - 2.418 kW TI:6°C-15°C TA: 24°C - 44°C



Air Cooled Condenser With Semi Hermetic Reciprocating Compressor

Capacity Range: 51.2 kW - 413.8 kW T1:6°C - 15°C TA: 24°C - 44°C



Sea Water Cooled Condenser With Semi Hermetic Compact Screw Compressor

Capacity Range: 111,8 kW - 2.435 kW T1:6°C-15°C TC: 25°C - 33°C



Air Cooled Condenser with Free

R407C/R134A/R410A Capacity Range: 84.5 kW -1:209 kW A:24°C-44°C



Water Cooled Condenser With Semi Hermetic Compact Screw Compressor R407C/R134A

Capacity Range: 111,8 kW - 2,435 kW T1:6°C-15°C TC: 25°C - 33°C



Sea Water Cooled Condenser with Scroll Compressor

Capacity Range: 111,9 kW - 999,6 kW T,: 6°C - 15°C T_ 25°C - 33°C



Air Cooled Condenser with Scroll Compressor

RATOA Capacity Range: 89.5 kW - 978 kW TA: 24°C - 44°C



Air Cooled Condenser Packaged Type

Copocity Range: 1.26 kW - 168.8 kW



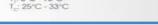
Water Cooled Condenser with Scroll Compressor R410A

Capacity Range: 111,9 kW - 999,6 kW T,: 6°C - 15°C T_: 25°C - 33°C



Water Cooled Condenser With Semi Hermetic Reciprocating Compressor R407C

Capacity Range: 65.4 kW - 458.4 kW T,: 6°C - 15°C





Sea Water Cooled Condenser With Semi Hermetic Reciprocating Compressor R407C

Capacity Ronge: 65.4 kW - 458.4 kW TI: 6°C - 15°C TC: 25°C - 33°C











ERBAY OFFICIAL "SHELL6" EVAPORATOR & CONDERSER CALCULATION PROGRAM





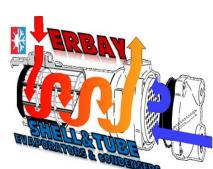


NORLD OF POSSIBILITES









SINCE 1987



MAL COOLING SOLUTIONS



IKLIMLENDIRME CIHAZLARI







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Air- Conditioning & Refrigeration Appliances

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