

EXTRA COOLING SYSTEM

Fast Cooling – The Revolution



OPEN TYPE SCROLL CHILLING PLANT

Characteristic

Voltage: 3PH~415V~50HZ/60HZ

Refrigerant: R410a/R407c/R134a/R22

Condenser: High efficiency copper tube shell and tube type

Description

1. Cooling range: 5 °C ~ 35 °C.
2. Water tank made of SUS304 stainless steel.
3. P.I.D temperature control, temperature control is accurate and reliable.
4. Using an independent anti-freezing temperature controller to prevent freezing.
5. Compressors and pumps are equipped with overload devices.
6. Low and high voltage switch control, flexible and adjustable, well protects the compressor.
7. Hydrophilic chip condensers to have better heat exchange effect.
8. Shell and tube evaporators with large heat exchange capacity and stable heat exchange effect.
9. Refrigerant: R22, environmentally friendly refrigerant R410A/R407c/R134a is also optional.

Application

Food and Beverages – Microbreweries, confectionary, bakeries, distilleries, wineries, bottling, carbonation, vegetable, meat and fish processing, etc.

Pharma and chemical – Jacketed vessels cooling, condenser cooling, PUF mixers, Laboratories applications, x ray spectrometers, paint cooling, packing machine, anodizing, plating, liquid nitrogen plant, etc

Plastic molding industry - The Water Chiller is to provide a cooling process for better industrial production. In plastic molding industry.

Automobile and Mechanical Engineering – machine tool, induction hardening and heating, welding machines, rolling mills, presses, cutting, profiling, polishing, electric discharge machine, hydraulic oil

cooling, heat treatment, component washing, component cooling, environmental test chambers, drive cooling, plasma spray, vacuum systems, etc.

Metal working – Water jet cutting, power press, hydraulic oil cooling, laser cutting, aluminium extrusion, precious metal processing, etc.

Paper and related – printing machine, labelling machine, cardboard making, plastic film machine, etc.

Others – textile, semiconductor, air compressor, concrete batching, dynamometer, furnace, etc.



Parameter

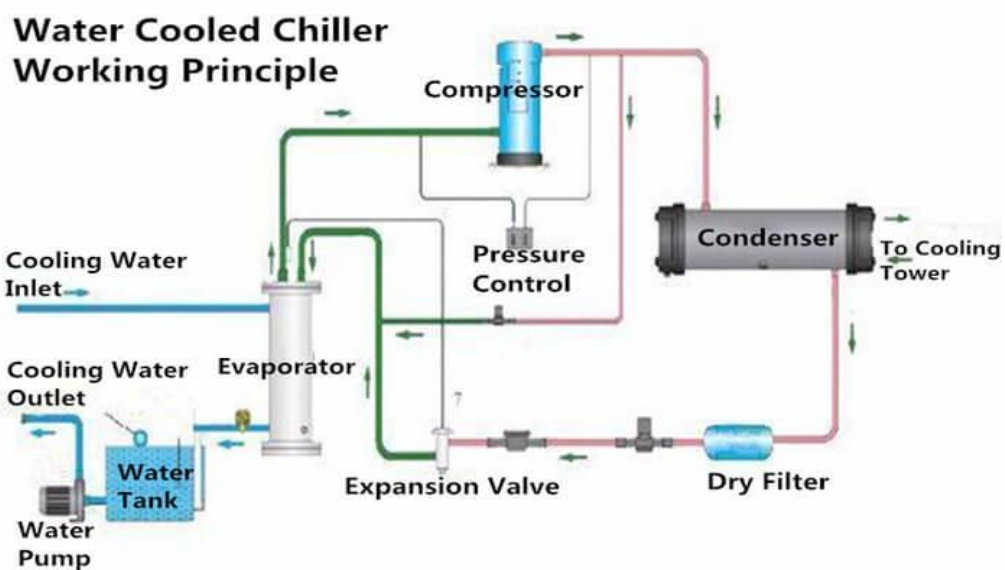
Model		ECS26.16.7C	ECS34.29.7C	ECS40.21.7C	ECS50.19.7C
Power Supply		3 Phase-380V-50Hz			
Outlet Temperature		+5deg C ~+35 deg C can be control.			
Power Cons.	Kw	29.35	38.4	44.6	57
Cooling Capacity	Kcal/Hr.	79120	103716	121604	151790
	Tons	26.16	34.29	40.21	50.19
Refrigerant	Type	R 407c	R 407c	R 407c	R 407c
	Control Type	Thermostatic expansion valve			
Compressor	Type	Hermetic Scroll			
	Quantity	02 Nos.	02 Nos.	02 Nos.	02 Nos.
	Power (Kw.)	10.10 x 2	13.25 x 2	16.35 x 2	20.10 x 2
Evaporator	Type	Shell & Tube			
	Chilled water flow (m3/h)	15.77	20.67	24.24	30.26
	Inlet/Outlet Pipe Dia. (mm)	DN65	DN65	DN80	DN80
	Type	Shell & Tube			
	Water Flow	20.43	26.88	31.51	39.34

Condenser	(m ³ /h)				
	Pipe Dia. Of Cooling Water	DN65	DN65	DN80	DN80
Dimension	L	2200	2500	2000	2900
	W	1160	1460	2000	2000
	H	1900	2000	1750	1900
Weight	Kg.	1200	1250	1450	1550
Protection Systems		High/Low Pressure protection, Phase-sequencing Protection, Overload Protection, Overheat Protection, Water flow protection, Anti-frozen protection.			

Note

- Normal conditions: Chilled water inlet temp is 12°C, outlet temp is 7°C, Cooling water inlet temp is 30°C, outlet temp 35°C.
- Temperature condition: Chilled water range is 7°C--30°C, Fouling factor: 0.018m²·°C/KW;
- Input power: 3P-380V-50HZ, Allowable punctuate voltage: ±10%. Allowable voltage difference in phase: ±2%
- Actual head lift is pump head lift minus the machine internal head loss (1mH₂O=9.8KPa) ;
- The above parameters are based are Refrigerant R22, for other parameters of Refrigerant R134A, R407C ect. refrigerants, plcontact us.
- Due to technology updating, size & parameters listed data may change; The above data's are for reference only, please feel free to contact us for the latest data.

Structural





50TON WATER COOLED SCROLL CHILLER

Characteristic

Voltage: 3PH~415V~50HZ/60HZ

Refrigerant: R410a/R407c/R134a/R22

Condenser: High efficiency copper tube shell and tube type

Description

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6. Low and high voltage switch control, flexible and adjustable, well protects the compressor.
7. Hydrophilic chip condensers to have better heat exchange effect.
8. shell and tube evaporators with large heat exchange capacity and stable heat exchange effect.
9. Refrigerant: R22, environmentally friendly refrigerant R410A/R407c/R134a is also optional.

Application :

Food and Beverages – Microbreweries, confectionary, bakeries, distilleries, wineries, bottling, carbonation, vegetable, meat and fish processing, etc.

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Metal working – Water jet cutting, power press, hydraulic oil cooling, laser cutting, aluminium extrusion, precious metal processing, etc.

Paper and related – printing machine, labeling machine, cardboard making, and plastic film machine, etc. Others – textile, semiconductor, air compressor, concrete batching, dynamometer, furnace, etc.



Parameter

Model		ECS50.14.2.7C
Power Supply		3 Phase-380V-50Hz
Outlet Temperature		7 deg C ~+35 deg C can be control.
Cooling Capacity	Kw	176.5
	Kcal/Hr.	151790
	Tons	50.14
Refrigerant	Type	R 407c
Compressor	Control Type	Thermostatic expansion valve
	Type	Hermetic Scroll
	Quantity	02 Nos.
Evaporator	Power (Kw.)	19.40 x 2
	Type	Shell & Tube
	Chilled water flow (m3/h)	30.26
Condenser	Inlet/Outlet Pipe Dia. (mm)	1-1/2"
	Type	Shell & Tube
	Water Flow (m3/h)	62.52
Dimension	Pipe Dia. Of Cooling Water	2-1/2"
	L	2900
	W	2000
Weight	H	1900
	Kg.	1550

Protection Systems

High/Low Pressure protection, Phase-sequencing Protection, Overload Protection, Overheat Protection, Water flow protection, Anti-frozen protection.

Details



Front of the product



After the product



Right side of the product



Left side of the product



Controller Panel

Ergonomic panel and automatic control. Using precise thermoelectric controller. Long-term stable operation.



Evaporator

The highly effective heat exchanger minimizes the loss of cooling capacity. It is easy to return oil. The heating pipe is prevented from frost crack.



Condenser

High efficiency, 30% higher than normal condenser; Integral design ; Anti-dirty; Able to working in humid conditions Evaporator.



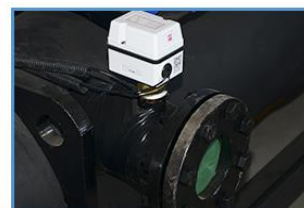
Compressor

Equipped with a powerful compressor imported from U.S. and Europe. The compressor operates smoothly and quietly at high EER value.



Expansion valve

All valves adopted World-leading brand: DANFOSS/EMERSON





SCROLL WATER COOLED CHILLER WITH 03 CIRCUITS

Characteristic

Voltage: 3PH~415V~50HZ/60HZ

Refrigerant: R410a/R407c/R134a/R22

Condenser: High efficiency copper tube shell and tube type

Description

1. Cooling range: 5 °C ~ 35 °C.
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5. Compressors and pumps are equipped with overload devices.
6. Low and high voltage switch control, flexible and adjustable, well protects the compressor.
7. Hydrophilic chip condensers to have better heat exchange effect.
8. shell and tube evaporators with large heat exchange capacity and stable heat exchange effect.
9. Refrigerant: R22, environmentally friendly refrigerant R410A/R407c/R134a is also optional.

Application

Food and Beverages – Microbreweries, confectionary, bakeries, distilleries, wineries, bottling, carbonation, vegetable, meat and fish processing, etc.

Pharma and chemical – Jacketed vessels cooling, condenser cooling, PUF mixers, Laboratories applications, x ray spectrometers, paint cooling, packing machine, anodizing, plating, liquid nitrogen plant, etc

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Automobile and Mechanical Engineering – machine tool, induction hardening and heating, welding machines, rolling mills, presses, cutting, profiling, polishing, electric discharge machine, hydraulic oil cooling, heat treatment, component washing, component cooling, environmental test chambers, drive cooling, plasma spray, vacuum systems, etc.

Metal working – Water jet cutting, power press, hydraulic oil cooling, laser cutting, aluminium extrusion, precious metal processing, etc.

Paper and related – printing machine, labelling machine, cardboard making, plastic film machine, etc.

Others – textile, semiconductor, air compressor, concrete batching, dynamometer, furnace, etc.



Parameter

Model		ECS40.17.03.7C
Power Supply		3 Phase-380V-50Hz
Outlet Temperature		7 deg C ~+35 deg C can be control.
Cooling Capacity	Kw	141.4
	Kcal/Hr.	121604
	Tons	40.17
Refrigerant	Type	R 407c
Control Type		Thermostatic expansion valve
Compressor	Type	Hermetic Scroll
	Quantity	03 Nos.
	Power (Kw.)	9.92 x 3
Evaporator	Type	Shell & Tube
	Chilled water flow (m3/h)	31.51
	Inlet/Outlet Pipe Dia. (mm)	1-1/2"
Condenser	Type	Shell & Tube
	Water Flow (m3/h)	44.63
	Pipe Dia. Of Cooling Water	2-1/2"

Dimension	L	2000
	W	1000
	H	1750
Weight	Kg.	1400
Protection Systems		High/Low Pressure protection, Phase-sequencing Protection, Overload Protection, Overheat Protection, Water flow protection, Anti-frozen protection.



WATER COOLED PACKAGED SCROLL CHILLER

Characteristic

Voltage: 3PH-380V-50HZ

Refrigerant: R410a/R407c /R134a

Evaporator: High efficiency copper tube shell and tube type

Description

1. Cooling range: 5 °C ~ 35 °C.
2. Water tank made of SUS304 stainless steel.
3. P.I.D temperature control, temperature control is accurate and reliable.
4. Using an independent anti-freezing temperature controller to prevent freezing.
5. Compressors and pumps are equipped with overload devices.
6. Low and high voltage switch control, flexible and adjustable, well protects the compressor.
7. Hydrophilic chip condensers to have better heat exchange effect.
8. Shell and tube evaporators with large heat exchange capacity and stable heat exchange effect.
9. Refrigerant: R22, environmentally friendly refrigerant R410A/R407c/R134a is also optional.

Application

Food and Beverages – Microbreweries, confectionary, bakeries, distilleries, wineries, bottling, carbonation, vegetable, meat and fish processing, etc.

Pharma and chemical – Jacketed vessels cooling, condenser cooling, PUF mixers, Laboratories applications, x ray spectrometers, paint cooling, packing machine, anodizing, plating, liquid nitrogen plant, etc

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Automobile and Mechanical Engineering – machine tool, induction hardening and heating, welding machines, rolling mills, presses, cutting, profiling, polishing, electric discharge machine, hydraulic oil cooling, heat treatment, component washing, component cooling, environmental test chambers, drive cooling, plasma spray, vacuum systems, etc.

Metal working – Water jet cutting, power press, hydraulic oil cooling, laser cutting, aluminium extrusion, precious metal processing, etc.

Paper and related – printing machine, labelling machine, cardboard making, plastic film machine, etc.

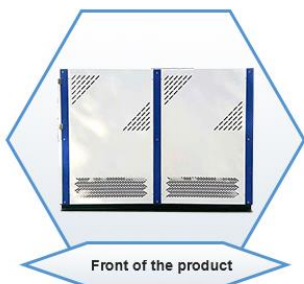
Others – textile, semiconductor, air compressor, concrete batching, dynamometer, furnace, etc.

Parameter

Model		ECS26.16.7C	ECS34.29.7C	ECS40.21.7C	ECS50.19.7C
Power Supply		3 Phase-380V-50Hz			
Outlet Temperature		+5deg C ~+35 deg C can be control.			
Power Cons.	Kw	14.4	31.4	46.0	60.8
Cooling Capacity	Kcal/Hr.	12384	27004	39560	52288
	Tons	4.0	8.9	13.0	17.27
Refrigerant	Type	R 407c	R 407c	R 407c	R 407c
	Control Type	Thermostatic expansion valve			
Compressor	Type	Hermetic Scroll			
	Quantity	01 No.	01 No.	01 No.	01 No.
	Power (Kw.)	3.69	6.43	9.92	12.95
Evaporator	Type	Shell & Tube			
	Chilled water flow (m3/h)	2.27	5.38	7.89	10.42
	Inlet/Outlet Pipe Dia. (mm)	DN25	DN32	DN40	DN40
Condenser	Type	Shell & Tube			
	Water Flow (m3/h)	3.25	6.94	10.22	13.53
	Pipe Dia. Of	DN25	DN40	DN40	DN65

	Cooling Water				
Dimension	L	1100	1560	1800	2100
	W	650	850	1000	1000
	H	1000	1500	1600	1700
Weight	Kg.	200	480	835	1000
Protection Systems		High/Low Pressure protection, Phase-sequencing Protection, Overload Protection, Overheat Protection, Water flow protection, Anti-frozen protection.			

Details



Front of the product



Side of the product



Right side of the product



Left side of the product



Controller Panel

Ergonomic panel and automatic control. Using precise thermoelectric controller. Long-term stable operation.



Evaporator

The highly effective heat exchanger minimizes the loss of cooling capacity. It is easy to return oil. The heating pipe is prevented from frost crack.



Condenser

High efficiency, 30% higher than normal condenser; Integral design ; Anti-dirty; Able to working in humid conditions Evaporator.



Compressor

Equipped with a powerful compressor imported from U.S. and Europe. The compressor operates smoothly and quietly at high EER value.



Expansion valve

All valves adopted World-leading brand: DANFOSS/EMERSON





69.5KW. WATER COOLED CHILLER

Characteristic

Voltage: 3PH-380V-50HZ

Refrigerant: R410a/R407c /R134a

Evaporator: High efficiency copper tube shell and tube type

Description

1. Cooling range: 5 °C ~ 35 °C.
2. Water tank made of SUS304 stainless steel.
3. P.I.D temperature control, temperature control is accurate and reliable.
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5. Compressors and pumps are equipped with overload devices.
6. Low and high voltage switch control, flexible and adjustable, well protects the compressor.
7. Hydrophilic chip condensers to have better heat exchange effect.
8. shell and tube evaporators with large heat exchange capacity and stable heat exchange effect.
9. Refrigerant: R22, environmentally friendly refrigerant R410A/R407c/R134a is also optional.

Application

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Metal working – Water jet cutting, power press, hydraulic oil cooling, laser cutting, aluminium extrusion, precious metal processing, etc.

Paper and related – printing machine, labelling machine, cardboard making, plastic film machine, etc.

Others – textile, semiconductor, air compressor, concrete batching, dynamometer, furnace, etc.



Model		ECS19.74.27C
Power Supply		3 Phase-380V-50Hz
Outlet Temperature		7 deg C ~+35 deg C can be control.
Cooling Capacity	Kw	69.5
	Kcal/Hr.	59770
	Tons	19.74
Refrigerant	Type	R 407c
Control Type		Thermostatic expansion valve
Compressor	Type	Hermetic Scroll
	Quantity	02 Nos.
	Power (Kw.)	7.26 x 2
Evaporator	Type	Shell & Tube
	Chilled water flow (m3/h)	11.91
	Inlet/Outlet Pipe Dia. (mm)	DN50
Condenser	Type	Shell & Tube
	Water Flow (m3/h)	15.55
	Pipe Dia. Of Cooling	DN65

	Water	
Dimension	L	2100
	W	1000
	H	1750
Weight	Kg.	1500
Protection Systems		High/Low Pressure protection, Phase-sequencing Protection, Overload Protection, Overheat Protection, Water flow protection, Anti-frozen protection.



Mr. Mitesh Oza (Managing Director)

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