

# **EXTRA COOLING SYSTEM**

Fast Cooling - The Revolution



# TWIN COMPRESSOR WATER COOLED SCREW CHILLER

### **Characteristic**

Variety refrigerant available: R-22, or Friendly R-407C, R-404A, R-134A, R-410A

**Different Power supply**: 3PHASE- 415V/480V-50HZ/60HZ

**Evaporator:** High efficiency threaded copper tube shell and tube type

## **Description**

This model uses the world's first -line brand compressors ,PLC programmable controller (human-machine interface), high-efficiency energy-saving profile oxidation special evaporator, and the world's first-line brand electronic expansion valve that can be automatically and accurately adjusted according to the load, in the past 15 years, our company has continuously improved its manufacturing processes, accumulated rich production experience, equipped with advanced and complete inspection and inspection equipment, and continuously strengthened its management system, which has made Shandong products truly stable, long-lived, and energy-efficient. Low, safe operation, simple and so on.

#### **Product features**

- 1. Twin system water cooled screw chiller.
- 2. ECS Make Twin system water cooled chiller range 50 TR through 500 TR is designed for a 15-year operating life, with the lowest lifetime operating costs in the market.
- 3. Oil-free, flooded shell-and-tube evaporation, low power consumption, low maintenance costs (even lower with remote monitoring) and high reliability with only one main moving part.
- 4. ECS Make works hard to achieve simplicity of design and operation reflected in low operating costs and supported by the integration of the latest technologies in expansion valves and heat exchanger technology.
- 5. ECS Make controls enable stable and efficient operation at very low loads.



### **Application**

ECS-WS series Water Chiller are widely used in the Plastic industry, Electrons, Plating, Chemical Industry, Food and beverage, Ultrasonic wave cooling, Printing and other industrial production. It can precisely control the exactly temperature, which requested by the modernized machinery production, and greatly improved the production efficiency and product quality. ECS Make Industrial chiller is a good partner for the modernized industry, which feather as easy to operate with reasonable design, high quality and complete range of specifications.

# **Parameter**

The ECS series of water cooled chillers offer the most advanced design to satisfy today's industrial cooling requirements.

The entire range is assembled with components developed with well know manufacturer. The complete ECS series of packaged water cooled chillers offer max efficiency together with total reliability and are manufactured to the highest quality standard.

This new generation of water chillers is built on years of experience, the result of which is the ECS series which incorporates many major advanced standard features that other suppliers charge as extra.

W	WATER COOLED SCREW CHILLER ALONG WITH DUAL COMPRESSOR					
М	odel	ECS-250W	ECS-330W	ECS-450W	ECS-500W	
Powe	r Supply	3 Phase-380V-50Hz				
Outlet Te	emperature	+5deg C ~+35 deg C can be control.			ol.	
Cooling	Kw	252	328	453	486	
Cooling Capacity	Kcal/Hr.	216720	282080	389580	417960	
Сарасіту	Tons	71.59	93.18	128.69	138.06	
Defricerent	Туре	R22 / R407c / R134a /R410a				
Refrigerant	Control Type	Thermostatic expansion valve				
	Туре	Semi-closed screw type				
	Quantity	02 Nos.	02 Nos.	02 Nos.	02 Nos.	
Compressor	Power (Kw.)	60.0	78.1	107.9	109.6	
	Start	Y-∆				
	Capacity	25-50-75-100 (%) or 25-100 (%)				
	Туре	High eff	iciency copper t	ube shell and tu	ıbe type	
Evaporator	Chilled water flow (m3/h)	43.2	56.2	77.7	83.3	
	Inlet/Outlet Pipe Dia. (mm)	DN100	DN100	DN125	DN125	
	Туре	High efficiend	cy threaded cop	per tube shell a	nd tube type	
Condenser	Water Flow (m3/h)	58.8	76.6	105.8	112.3	



	Pipe Dia. Of Cooling Water	DN100	DN100	DN125	DN125
	L	2500	3500	4000	4000
Dimension	W	900	900	900	1000
	Н	1500	1500	1500	1800
Weight	Kg.	1300	1450	1700	1900
Compressors overheat protection, high/low pressurprotection, phase missing/sequence protection, flow protection, anti-frozen protection.			ion, flow rate		

WATER COOLED SCREW CHILLER ALONG WITH DUAL COMPRESSOR					
M	lodel	ECS-600W	ECS-700W	ECS-930W	ECS-1100W
Powe	r Supply		3 Phase-3	80V-50Hz	
Outlet To	emperature	+5	deg C ~+35 deg	C can be contr	ol.
Cooling	Kw	604	706	933	1078
Cooling Capacity	Kcal/Hr.	519440	607160	802380	927080
Сарасіту	Tons	171.59	199.03	265.05	306.25
Refrigerant	Туре		R22 / R407c /	R134a /R410a	
	Control Type		Thermostatic e	xpansion valve	
	Туре		Semi-closed	screw type	
	Quantity	02 Nos.	02 Nos.	02 Nos.	02 Nos.
Compressor	Power (Kw.)	132.2	156.4	206.04	237.6
	Start	Y-∆			
	Capacity	25-50-75-100 (%) or 25-100 (%)			
	Туре	High efficiency copper tube shell and tube type			
Evaporator	Chilled water flow (m3/h)	103.5	121	159.9	184.8
	Inlet/Outlet Pipe Dia. (mm)	DN150	DN150	DN200	DN200
	Туре	High efficien	cy threaded cop	per tube shell a	nd tube type
	Water Flow (m3/h)	138.8	162.6	214.9	248.1
Condenser	Pipe Dia. Of Cooling Water	DN150	DN125*2	DN125*2	DN150*2
	L	4000	4200	4400	4400
Dimension	W	1000	1500	1600	1600
	Н	1800	1500	1750	1750
Weight	Kg.	2150 2250 2450 2500			
		Compresso	ors overheat pro	tection, high/lo	w pressure
Protection	on Systems	protection, phase missing/sequence protection, flow rate protection, anti-frozen protection.			



## **Details**







**Product Front** 

**Product Back** 

**Product Side** 

# 1 HIGH EFFICIENCY COMPRESSOR

options, the output power of screw compressor can be controlled automatically by control system. Furthermore,







#### 2 CONDENSER&EVAPORATOR

cooled type, this series chiller need to employ water cooling tower to discharge the heat, which is always used for large cooling capacity or the local place temperature is higher than 40 degree celsius.

Shell and tube type evaporator with insulation outside to keep the temperature from becoming heat.







# **3 CONTROL PANEL**







#### **4** ELECTRIC CABINET

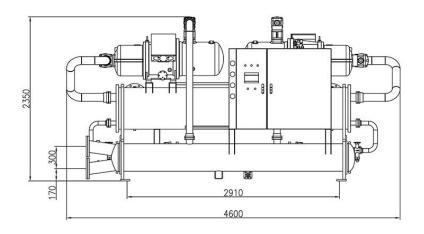


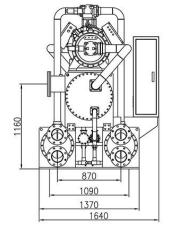


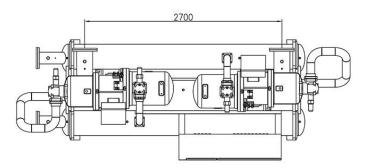


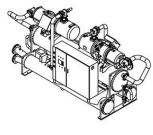














# 100 TON DUAL CIRCUITS WATER COOLED CHILLER

# **Characteristic**

Cooling capacity 60 Ton to 1500Ton
Temperature control 7°C to 35°C, 0°C, -5°C, 10°C to -40°C optional

Shell and tube evaporator and condenser Bizer or Hanbell semi-hermetic screw compressor Optional refrigerant R134a, R407c and R410a Safety protection devices of whole screw chiller all models and cooling capacity available



### **Description**

This model uses the world's first -line brand compressors ,PLC programmable controller (human-machine interface), high-efficiency energy-saving profile oxidation special evaporator, and the world's first-line brand electronic expansion valve that can be automatically and accurately adjusted according to the load, in the past 15 years, our company has continuously improved its manufacturing processes, accumulated rich production experience, equipped with advanced and complete inspection and inspection equipment, and continuously strengthened its management system, which has made Shandong products truly stable, long-lived, and energy-efficient. Low, safe operation, simple and so on.

### **Product features**

- 1. Twin system water cooled screw chiller.
- 2. ECS Twin system water cooled chiller range 50 TR through 500 TR is designed for a 20-year operating life, with the lowest lifetime operating costs in the market.
- 3. Oil-free, flooded shell-and-tube evaporation, low power consumption, low maintenance costs (even lower with remote monitoring) and high reliability with only one main moving part.
- 4. ECS works hard to achieve simplicity of design and operation reflected in low operating costs and supported by the integration of the latest technologies in expansion valves and heat exchanger technology.
- 5. ECS controls enable stable and efficient operation at very low loads.

#### **Application**

ECS-WS series Water Chiller are widely used in the Plastic industry, Electrons, Plating, Chemical Industry, Food and beverage, Ultrasonic wave cooling, Printing and other industrial production. It can precisely control the exactly temperature, which requested by the modernized machinery production, and greatly improved the production efficiency and product quality. ECS Industrial chiller is a good partner for the modernized industry, which feather as easy to operate with reasonable design, high quality and complete range of specifications.





# **Parameter**

W	WATER COOLED SCREW CHILLER ALONG WITH DUAL COMPRESSOR				
M	odel	ECS-350W	ECS-550	ECS-620	
Powe	r Supply	3	Phase-380V-50Hz		
Outlet To	emperature	+5deg C	~+35 deg C can be	control.	
Cooling	Kw	354.0	568.0	620.0	
Cooling Capacity	Kcal/Hr.	304440	488480	533200	
Сарасіту	Tons	100.5	161.3	176.3	
Refrigerant	Туре	R22 /	R407c / R134a /R	410a	
	Control Type	Therm	nostatic expansion	valve	
	Туре	Sem	i-closed screw t	ype	
	Quantity	02 Nos.	02 Nos.	02 Nos.	
Compressor	Power (Kw.)	84.3	124.2	135.2	
	Start	Y-∆			
	Capacity	25-50-75-100 (%) or 25-100 (%)			
	Туре	High efficiency copper tube shell and tube type			
Evaporator	Chilled water flow (m3/h)	60.7	97.4	106.3	
	Inlet/Outlet Pipe Dia. (mm)	DN100	DN125	DN150	
	Туре	High efficiency thre	aded copper tube :	shell and tube type	
	Water Flow (m3/h)	82.6	130.5	142.6	
Condenser	Pipe Dia. Of Cooling Water	DN100	DN125	DN80*2	
	L	3500	4000	4000	
Dimension	W	900	1000	1400	
	Н	1500	1800	1800	
Weight	Kg.	1500	1900	2300	
			heat protection, h	• •	
Protection	on Systems	protection, phase m protection	iissing/sequence p on, anti-frozen pro	-	





# 200TR – 300TR SCREW INDUSTRIAL CHILLER

#### **Characteristic**

Cooling capacity 60 Ton to 500Ton

Temperature control 7°C to 35°C, 0°C, -5°C, 10°C to -40°C optional

Shell and tube evaporator and condenser

Bizer or Hanbell semi-hermetic screw compressor

Optional refrigerant R134a,R407c and R410a

Safety protection devices of whole screw chiller

All models and cooling capacity available

## **About us**

As a leading water-cooled screw chiller manufacturer with almost 18 years of experience since 2015, ECS provides a complete range of water-cooled screw chiller from ECS-WS series.

The cooling capacity of screw water chiller is from 30Ton to 500 Ton/105KW to 1750KW and the chiller temperature control range from +30°C to -40°C.

Besides the standard water-cooled screw chiller control temperature from 7°C to 30°C, ECS also has a water-cooled glycol screw chiller control temperature below zero from 0°C to -40°C for some special industrial applications.

# With experience in design and manufacturing water-cooled screw chiller from ECS has the following features:

- 1. Using famous brand Semi-hermetic Screw Compressor- Bitzer from Germany and Handbell from Taiwan.
- 2. Each screw compressor comes with 4 steps of energy control 0-25%-50%-75%-100% to make sure the whole screw chiller operates when stable with high refrigeration performance.
- 3. Each water-cooled screw chiller with high-efficiency shell and tube type heat exchanger and aluminum foil with a copper tube air cooled condenser.
- 4. Integrated PLC control system with human-computer interface and big LED touch screen panel for easy operation.
- 5.Other refrigeration parts are world famous refrigeration spare parts like Danfoss thermal expansion valve, Alco dryer filter, Schneider contactor, and overload relay will make sure the whole screw chiller works under normal condition.



6. Compared with air cooled screw chiller, water cooled screw chiller should run together with external cooling tower and water pump. This is the biggest difference between air cooled screw chiller and water cooled screw chiller.

7.As a professional water cooled screw chiller manufacturer, ECS has exported many water cooled screw chillers to the Philippines, Australia, New Zealand, Malaysia, Singapore, Indonesia, Chile, Mexico, Costa Rica, Brazil, Argentina, Colombia, South Africa, Nigeria, Saudi Arabia, Dubai, Spain, Italy, etc.

If you are searching for a water-cooled screw chiller supplier, you are coming to the right place. ECS is a high reputation brand in the refrigeration market.

If you have any water-cooled screw chiller inquiry, please contact our engineering for a solution and free quotation.

## **Application**

ECS-WS series Water Chiller are widely used in the Plastic industry, Electrons, Plating, Chemical Industry, Food and beverage, Ultrasonic wave cooling, Printing and other industrial production. It can precisely control the exactly temperature, which requested by the modernized machinery production, and greatly improved the production efficiency and product quality. ECS Industrial chiller is a good partner for the modernized industry, which feather as easy to operate with reasonable design, high quality and complete range of specifications.





## **Parameter**

W	WATER COOLED SCREW CHILLER ALONG WITH DUAL COMPRESSOR				
М	odel	ECS-650	ECS-750	ECS-970	
Powe	r Supply	3	Phase-380V-50Hz		
Outlet Te	emperature	+5deg C ~+35 deg C can be control.			
Cooling	Kw	656.0	768.0	975.0	
Cooling Capacity	Kcal/Hr.	564160	660480	838500	
Сарасіту	Tons	186.36	218.18	276.98	
Refrigerant	Туре	R22 /	R407c / R134a /R	410a	
	Control Type	Therm	nostatic expansion	valve	
	Туре	Sem	i-closed screw t	ype	
	Quantity	02 Nos.	02 Nos.	02 Nos.	
Compressor	Power (Kw.)	144.2	172.4	211.2	
	Start	<b>Y-</b> △			
	Capacity	25-50-75-100 (%) or 25-100 (%)			
	Туре	High efficiency copper tube shell and tube type			
Evaporator	Chilled water flow (m3/h)	112.5	131.7	167.1	
	Inlet/Outlet Pipe Dia. (mm)	DN150	DN200	DN200	
	Туре	High efficiency thre	aded copper tube :	shell and tube type	
	Water Flow (m3/h)	144.2	172.4	211.2	
Condenser	Pipe Dia. Of Cooling Water	DN150	DN200	DN200	
	L	4000	4200	4400	
Dimension	W	1400	1500	1500	
	Н	1600	1600	1800	
Weight	Kg.	2500	3300	3900	
		•	heat protection, h	• .	
Protection	on Systems	protection, phase m protection	iissing/sequence p on, anti-frozen pro		

The ECS series of air cooled water/water cooled chillers offer the most advanced design to satisfy today's industrial cooling requirements.

The entire range is assembled with components developed with well know manufacturer. The complete ECS series of packaged air cooled /water cooled chillers offer max efficiency together with total reliability and are manufactured to the highest quality standard.

This new generation of water chillers is built on years of experience, the result of which is the ECS series which incorporates many major advanced standard features that other suppliers charge as extra.





# WATER COOLED SCREW CHILLER WITH SINGLE COMPRESSOR

#### **Characteristic**

Cooling capacity30 Ton to 200Ton

Temperature control 7°C to 35°C, 0°C, -5°C -10°C to -40°C optional

Shell and tube evaporator and condenser Bizer or Hanbell semi-hermetic screw compressor Optional refrigerant R134a, R407c and R410a Safety protection devices of whole screw chiller All models and cooling capacity available

### **Application**

ECS-WS series Water Chiller are widely used in the Plastic industry, Electrons, Plating, Chemical Industry, Food and beverage, Ultrasonic wave cooling, Printing and other industrial production. It can precisely control the exactly temperature, which requested by the modernized machinery production, and greatly improved the production efficiency and product quality. ECS Industrial chiller is a good partner for the modernized industry, which feather as easy to operate with reasonable design, high quality and complete range of specifications.



#### **Parameter**

WATER COOLED SCREW CHILLER WITH SINGLE COMPRESSOR					
Model	Model ECS-90W ECS-125W ECS-165W				
Power Supply	3 Phase-380V-50Hz				
Outlet Temperature	+5deg C ~+35 deg C can be control.				



	Kw	92	126	164		
Cooling	Kcal/Hr.	79120	108360	141040		
Capacity	Tons	26.13	35.79	46.59		
Refrigerant	Туре		R407c / R134a /R			
	Control Type	Therm	Thermostatic expansion valve			
	Type	Semi-closed screw type				
	Quantity	01 No.	01 No.	01 No.		
Compressor	Power (Kw.)	23.0	32.0	39.0		
	Start		Y-△			
	Capacity	25-50-75-100 (%) or 25-100 (%)				
	Туре	High efficiency copper tube shell and tube type				
Evaporator	Chilled water flow (m3/h)	15.8	21.6	28.1		
	Inlet/Outlet Pipe Dia. (mm)	DN50	DN65	DN80		
	Туре	High efficiency thre	aded copper tube s	shell and tube type		
	Water Flow (m3/h)	21.7	29.8	38.3		
Condenser	Pipe Dia. Of Cooling Water	DN50	DN65	DN80		
	L	2300	2500	2500		
Dimension	W	750	750	750		
	Н	1500	1500	1500		
Weight	Kg.	660	700	800		
		Compressors overheat protection, high/low pressure				
Protection Systems protection, phase missing/sequence protection, anti-frozen protection.			·	·		

WATER COOLED SCREW CHILLER WITH SINGLE COMPRESSOR				
M	Model ECS-180W ECS-220W ECS-240			ECS-240W
Powe	r Supply	3 Phase-380V-50Hz		
Outlet To	emperature	+5deg C	~+35 deg C can be	control.
Capling	Kw	177	219	236
Cooling Capacity	Kcal/Hr.	152220	188340	202960
Сарасіту	Tons	50.28	62.21	67.04
Refrigerant	Туре	R22 /	R407c / R134a /R	410a
	Control Type	Therm	nostatic expansion	valve
	Туре	Sem	i-closed screw t	ype
	Quantity	01 No.	01 No.	01 No.
Compressor	Power (Kw.)	42	54	57.4
	Start		Y-△	
	Capacity	25-50-75-	100 (%) or 25-1	00 (%)

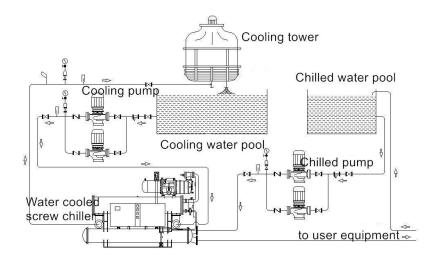


	Туре	High efficiency	copper tube shell	and tube type
Evaporator	Chilled water flow (m3/h)	30.3	37.5	40.5
	Inlet/Outlet Pipe Dia. (mm)	DN80	DN80	DN80
	Туре	High efficiency threaded copper tube shell and tube type		
	Water Flow (m3/h)	41.3	51.5	55.3
Condenser	Pipe Dia. Of Cooling Water	DN80	DN80	DN80
	_	2500	800	2800
Dimension	W	750	800	800
	I	1500	1500	1500
Weight	Kg.	975	1000	1175
		Compressors overheat protection, high/low pressure		
Protection	on Systems	protection, phase missing/sequence protection, flow rate protection, anti-frozen protection.		

### **Main Specification:**

- 1) .Cooling capacity from 7°C to 35°C, or if need lower outlet temperature please inform us change the offer;
- 2) .Stainless insulated water tank and anti-freeze thermostat can provide from us;
- 3) .R22/R407c/R404a/R134a refrigerant used as standard for efficient cooling.
- 4) .Refrigeration loop controlled by high and low pressure switches.
- 5) .Compressor and pump overload relays.
- 6) .Tube-in-shell condenser design for quick heat transfer and excellent heat radiation.
- 7) .Tube-in-shell evaporator for excellent cooling.

#### **Line Diagram**







# 250 KW SCREW INDUSTRIAL CHILLER WITH SINGLE CIRCUITS

#### **Characteristic**

Cooling capacity 100 Ton

Temperature control 7°C to 35°C, 0°C -5°C, 10°C to -40°C optional

Shell and tube evaporator and condenser

Bizer or Hanbell semi-hermetic screw
compressor

Optional refrigerant R134a, R407c and R410a

Safety protection devices of whole screw chiller

All models and cooling capacity available

#### **Description**

This model uses the world's first -line brand compressors ,PLC programmable controller (human-machine interface), high-efficiency energy-saving profile oxidation special evaporator ,and the world's first-line brand electronic expansion valve that can be automatically and accurately adjusted according to the load, in the past 5 years, our company has continuously improved its manufacturing processes, accumulated rich production experience, equipped with advanced and complete inspection and inspection equipment, and continuously strengthened its management system, which has made Shandong products truly stable, long-lived, and energy-efficient. Low, safe operation, simple and so on.

The ECS series of air cooled water/water cooled chillers offer the most advanced design to satisfy today's industrial cooling requirements.

The entire range is assembled with components developed with well know manufacturer. The complete ECS series of packaged air cooled /water cooled chillers offer max efficiency together with total reliability and are manufactured to the highest quality standard.

This new generation of water chillers is built on years of experience, the result of which is the ECS series which incorporates many major advanced standard features that other suppliers charge as extra.

#### **Application**

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### **Main Specification**

- 1) .Cooling capacity from 7°C to 35°C, or if need lower outlet temperature please inform us change the offer;
- 2) .Stainless insulated water tank and anti-freeze thermostat can provide from us;
- 3) .R22/R407c/R404a/R134a refrigerant used as standard for efficient cooling.
- 4) .Refrigeration loop controlled by high and low pressure switches.
- 5) .Compressor and pump overload relays.
- 6) .Tube-in-shell condenser design for quick heat transfer and excellent heat radiation.
- 7) .Tube-in-shell evaporator for excellent cooling.

## **Parameter**

WATER COOLED SCREW CHILLER WITH SINGLE COMPRESSOR				
M	odel	ECS-300W	ECS-350W	ECS-500W
Powe	r Supply	3 Phase-380V-50Hz		
Outlet To	emperature	+5deg C	~+35 deg C can be	control.
Cooling	Kw	295	352	511
Cooling Capacity	Kcal/Hr.	253700	302720	439460
Сарасіту	Tons	83.80	100.0	145.17
Refrigerant	Туре	R22 /	R407c / R134a /R	410a
	Control Type	Therm	nostatic expansion	valve
	Туре	Sem	i-closed screw t	rype
	Quantity	01 No.	01 No.	01 No.
Compressor	Power (Kw.)	70	78	86
	Start		Y-△	
	Capacity	25-50-75-100 (%) or 25-100 (%)		
	Туре	High efficiency	copper tube shell	and tube type



Evaporator	Chilled water flow (m3/h)	50.6	60.3	87.6
	Inlet/Outlet Pipe Dia. (mm)	DN100	DN100	DN100
	Type	High efficiency threaded copper tube shell and tube type		
	Water Flow (m3/h)	68.8	81.1	112.6
Condenser	Pipe Dia. Of Cooling Water	DN100	DN100	DN100
	L	3200	3500	3500
Dimension	W	800	900	900
	Н	1500	1500	1800
Weight	Kg.	1400	1600	1750
		Compressors overheat protection, high/low pressure		
Protection Systems		protection, phase missing/sequence protection, flow rate		
		protection, anti-frozen protection.		

# **Advantage of Screw Industrial Water Cooled Chiller**

- 1. Higher COP due to water cooled lower condensing temperature, usually 35-45C
- 2. Can be installed indoor and outside house
- 3. Water cooled screw chiller just needs small size
- 4. Require external cooling tower for condenser, ensure higher cooling efficiency
- 5. Widely used in large cooling project, very suitable hot ambient temperature

## **Details**





#### 1 HIGH EFFICIENCY COMPRESSOR

- 1.Brand: Hanbell Or Fusheng Or Bitzer; 2.Type: Semi-Hemetic Screw Type; 3.Compressor Power: 32 kw;





#### 2 CONDENSER&EVAPORATOR

- 3. Thickness copper pipe; 4. Stable steel materials.







## **3** CONTROL PANEL







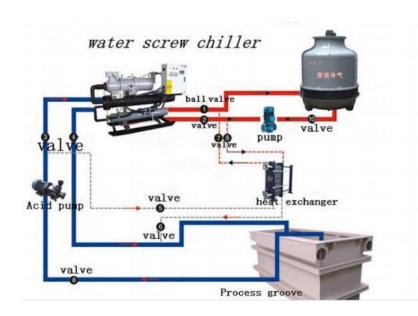
## 4 ELECTRIC CABINET















# Mr. Mitesh Oza (Managing Director)

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# **Manufacturing Unit:**

# **Extra Cooling System**

C-23, SumelBusiness Park,
Opp. HanumanpuraBRTS,
DudheshwarRoad,
Ahmedabad380004, Gujarat, India

## **Office Address:**

# **Extra Cooling System**

Sector No 1/276, Nirnayanagar Opp. RameshwarTemple, Ahmedabad 382481Gujarat, India.