

# Air-cooled Screw Water Chiller

## Introduction

It adopts the internationally famous brand of Taiwan Hanbell and BITZER screw compressors, and condenser is made of high quality and high efficiency copper tube. The evaporator and world famous brand spareparts make the unit have the advantages of small volume, low noise, high energy, long service life and simple operation. With its beautiful design and consistent high performance, it is the best its class

## Compressor

1. The compressor adopts the international brand new high-efficiency screw type rotary compressor, which is 20-30% more energy efficient than the general compressor
2. It has obtained patents from many countries in Europe and America, and has passed the IOS9001:2000 international quality certification
3. Efficient 5:6 patent asymmetrical gear shape
4. Capacity control can be four-stage (100%-75%-50%-25%) or three-stage (100%-66%-33%) and non-stage control system
5. The combination design of 11 bearings and a type axial thrust balancing drum greatly increases the bearing life by 2.5-3.5 times
6. All round compressor capacity ratio (V1-2.2/2.6/3.0/3.5) can be selected, which can effectively avoid additional energy consumption to compressor overload or insufficient compressor pressure

## SPEIFICATION

Model		EAC30AS	EAC50AS	EAC60AS	EAC70AS	EAC85AS
Nominal Cooling Capacity	kW	113	160	214	252	297
	USRT	32	46	61	72	85
Compressor Input Power (kW)		36	50	65	74	86
Energy Control (%)		0 66 100	0 50 75 100			
Refrigerant Charge (Kg)		30	42	56	68	78
No. Of Screw		1				
Refrigerant Type		R407C				
Condenser/Fan	Structure Type	Cooper Tube With Corrugated Aluminum Fins				
	Air Volume (x1000m <sup>3</sup> /h)	40	57	80	85	121
	Power (kW x Unit)	2.0x2	1.2x4	2.0x4	1.2x6	2.0x8
Evaporator	Inlet Pipe Diameter (In)	2-1/2"	3"	3"	3"	4"
	Water Flow (m <sup>3</sup> /h)	19	28	37	43	51
	Water Side Max. Pressure (Mpa)	1	1	1	1	1
	Water Pressure Drop (KPa)	28	33	48	55	61
Operating Noise dB (A)		68	68	68	68	72
Weight (Kg)		1160	1730	2590	2670	2750
Operating Weight (Kg)		1270	1920	2810	2900	3020



## Screw Water Chiller SPECIFICATION

Model		EAC90AS	EAC100AS	EAC115AS	EAC120AS	EAC145AS	EAC170AS	EAC180AS	EAC310AS
Nominal Cooling Capacity	KW	319	347	397	428	504	594	638	1087
	USRT	91	99	113	122	143	167	181	309
Compressor Input Power (kW)		93	103	120	130	148	172	186	300
Energy Control (%)		0 50 75 100			0 25 37.5 50 82.5 75 87.5 100				
Refrigerant Charge (Kg)		84	93	104	112	136	142	156	206
No. Of Screw		1			2				
Refrigerant Type		R407C							
Condenser	Structure Type	Cooper Tube With Corrugated Aluminum Fins							
	Air Volume (x1000m <sup>3</sup> /h)	121	161	161	161	170	241	241	322
	Power (kW x Unit)	2.0x6	2.0x8	2.0x8	2.0x8	1.2x12	2.0x12	2.0x12	2.0x16
Evaporator	Inlet Pipe Diameter (In)	4"	4"	5"	5"	5"	4"x2	4"x2	8"
	Water Flow (m <sup>3</sup> /h)	55	60	68	74	87	102	110	187
	Water Side Max. Pressure (Mpa)	1	1	1	1	1	1	1	1
	Water Pressure Drop (KPa)	64	66	68	68	70	70	72	75
Operating Noise dB (A)		72	72	73	73	73	75	75	78
Weight (Kg)		2930	3160	4430	4550	5340	5500	5860	7950
Operating Weight (Kg)		3240	3450	4750	4970	5800	6040	6480	8840

1. Nominal Cooling Capacity Reference: Evaporator Inlet And Outlet Water Temperature 12°C/7°C, Condenser Inlet And Outlet Water Temperature 30°C/35°C, Fouling Factor 0.018m<sup>2</sup> °C/kW, Chiller Condensation Temperature 50°C

2. Chilled Water Temperature Range: 5-20°C

3. Cooling Water Temperature Range: 15-40°C