

Aren

Air Conditioning Systems

Air Cooled Screw Chillers



چیلر هواخنک اسکرو

چیلر هواخنک اسکرو

◀ ظرفیت برودتی از ۸۰ تا ۶۰۰ تن تبرید

◀ کمپرسور اسکرو Bitzer آلمان

◀ اواپراتور Shell and Tube

◀ کندانسور هوایی V-Type

◀ فن کندانسور Ziehl-Abegg یا EBM آلمان با پره‌های آیرودینامیکی جهت کاهش صدای تولیدی

◀ تابلو برق PLC Carel ایتالیا به همراه قطعات الکترونیکی Schneider و Telemecanique

◀ شیر انبساط الکترونیکی Carel ایتالیا

◀ شیرآلات و متعلقات Castal ایتالیا و Danfoss

◀ گاز مبرد R134a



Model		AR-490AW2	AR-560AW2	AR-630AW2	
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50	
Cooling	Capacity	kW	293	342	414
		Btu/hr	1000000	1167000	1413000
	Input	kW	99.7	111.5	137.8
	EER		2.94	3.07	3
Max. running current	A	248	288	310	
Compressor	Type	Screw	Screw	Screw	
	Quantity	Pieces	2	2	2
	Brand		Bitzer	Bitzer	Bitzer
Air side heat exchanger	Type	Fin Coil	Fin Coil	Fin Coil	
	Quantity of fan	Pieces	6	6	8
	Air flow	m ³ /h	108000	108000	144000
Water side heat exchanger	Type	Shell and Tube	Shell and Tube	Shell and Tube	
	Pressure drop	kPa	44	37	43
	Volume	L	63	86	95
Refrigerant	Water flow	m ³ /h	60	73	82
	Type		R134a	R134a	R134a
	Refrigerant control		Electronic	Electronic	Electronic
Unit dimension	Width	mm	2540	2540	2540
	Height	mm	2720	2720	2720
	Depth	mm	4880	4880	6080
Weight	Net weight	kg	4770	4820	5250
	Operating weight	kg	5110	5170	5610
Pipe connection	Water inlet/outlet	mm	DN 125	DN 150	DN 150
		inch	5"	6"	6"
Controller		PLC	PLC	PLC	
Ambient temperature range	°C	-10~55	-10~55	-10~55	
Water outlet temperature range	°C	7~12	7~12	7~12	

Features



Screw Compressor

Screw compressor with compact design, long lifetime, low maintenance costs and low-vibration design.



Shell & Tube Evaporator

Shell & Tube evaporators have less pressure drop and lower probability of fouling and scaling.



Air Cooled Condenser

In Air Cooled Condenser Aluminum fins are attached to copper tubes to increase surface area for heat transfer.

Model			AR-770AW2	AR-875AW2	AR-980AW2
Power supply	V/Ph/Hz		380~415/3/50	380~415/3/50	380~415/3/50
Cooling	Capacity	kW	486	538	612
		Btu/hr	1658000	1836000	2088000
	Input	kW	154.4	175.5	197.1
		EER	3.15	3.07	3.11
Max. running current	A	364	392	428	
Compressor	Type		Screw	Screw	Screw
	Quantity	Pieces	2	2	2
	Brand		Bitzer	Bitzer	Bitzer
Air side heat exchanger	Type		Fin Coil	Fin Coil	Fin Coil
	Quantity of fan	Pieces	8	10	10
	Air flow	m ³ /h	144000	180000	180000
Water side heat exchanger	Type		Shell and Tube	Shell and Tube	Shell and Tube
	Pressure drop	kPa	57	59	63
	Volume	L	125	137	155
Refrigerant	Water flow	m ³ /h	95	103	118
	Type		R134a	R134a	R134a
	Refrigerant control		Electronic	Electronic	Electronic
Unit dimension	Width	mm	2540	2540	2540
	Height	mm	2720	2720	2720
	Depth	mm	6080	7280	7280
Weight	Net weight	kg	5300	6100	6150
	Operating weight	kg	5660	6500	6550
Pipe connection	Water inlet/outlet	mm	DN 150	DN 150	DN 150
		inch	6"	6"	6"
Controller		PLC	PLC	PLC	
Ambient temperature range	°C	-10~55	-10~55	-10~55	
Water outlet temperature range	°C	7~12	7~12	7~12	

Features



Electronic Expansion Valve

Electronic expansion valve ensures reliability over time, very precise control and perfect refrigerant tightness.



AC Axial Fan

Axial fan system with optimized design enables high pressures, ideal efficiencies and low noise emissions.



IP54 Protection

IP54 protection provides protection against dust and splashing water to ensure reliability over time and long lifetime.

Model			AR-1120AW2	AR-1260AW2	AR-1470AW2
Power supply	V/Ph/Hz		380~415/3/50	380~415/3/50	380~415/3/50
Cooling	Capacity	kW	724	846	976
		Btu/hr	2470000	2887000	3330000
	Input	kW	231.2	259.7	301.6
		EER	3.13	3.26	3.24
Max. running current	A	560	620	640	
Compressor	Type		Screw	Screw	Screw
	Quantity	Pieces	2	2	2
	Brand		Bitzer	Bitzer	Bitzer
Air side heat exchanger	Type		Fin Coil	Fin Coil	Fin Coil
	Quantity of fan	Pieces	12	14	16
	Air flow	m ³ /h	216000	252000	288000
Water side heat exchanger	Type		Shell and Tube	Shell and Tube	Shell and Tube
	Pressure drop	kPa	65	67	70
	Volume	L	166	177	193
Refrigerant	Water flow	m ³ /h	140	162	189
	Type		R134a	R134a	R134a
	Refrigerant control		Electronic	Electronic	Electronic
Unit dimension	Width	mm	2540	2540	2540
	Height	mm	2720	2720	2720
	Depth	mm	8480	9680	10880
Weight	Net weight	kg	7190	8400	9770
	Operating weight	kg	7640	8950	10270
Pipe connection	Water inlet/outlet	mm	DN 150	DN 200	DN 200
		inch	6"	8"	8"
Controller		PLC	PLC	PLC	
Ambient temperature range	°C	-10~55	-10~55	-10~55	
Water outlet temperature range	°C	7~12	7~12	7~12	

Air Conditioning Systems

نگاه نو، نفس تازه...!

شرکت آرشه کار

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