



SERIES 7 CHILLERS DO THE MAGIC

CHILLERS SERIE 7 3-60 TR Air Condenser

New Generation of Air-Cooled Water Chillers - Series 7 from the HARMONY product line, delivering energy savings and conservation.

This equipment features ozone-friendly refrigerants, Scroll compressors, low-noise fans, electronic microprocessor control, and Copper-Aluminum condenser coils.

Range of Applications

- Clinic
- Hospitals
- Industry
- Education Sector
- Hotels

Main Characteristics

- Scroll Compressors
- Copper-Aluminum Condenser Coils
- Modine/Luvata Anti-Corrosion Protection (optional)
- Axial Fans
- Coaxial or Shell and Tube Evaporator
- Hydronic Module (optional)
- Remote Control and Monitoring (optional)
- Touch Screen Display (on models of 40 TR and above) (optional)
- Compact (footprint)
- Easy Installation, Operation, and Maintenance
- Condenser Coils in a "V" Shape starting from 15 TR
- State-of-the-Art Electronic Controller



Air Conditioning



Ventilation and filtration



Heat



Humidity control



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Tecnología Ambiental



7EEBE Air Condenser

They are designed for solutions with environmentally friendly and high-efficiency R-410A coolant. It includes electronic control for more precise management of the inlet and outlet water temperatures, allowing for monitoring through network supervisors. It can be supplied with an electronic expansion valve and water pump. A product suitable for residential, commercial, and industrial applications.

Benefit:

- High efficiency
- Optimal performance in its components, ensuring a balanced operation and low condensation pressures
- Low noise level
- Easy installation and servicing
- Lightweight and compact units
- Cooling capacity ranging from 3 to 5 tons

Technical references and specifications:

UNIT		7EEBE							
MODELO		036		048		060			
WEIGHT (lbs)		216		247		258			
COOLANT		R-410A							
RATED CAPACITY (TR)		3		4		5			
COIL	TYPE - QUANTITY	CURVE - 1							
	AREA (Foot 2)	12.5							
	FIN/INCH	15							
	NUMBER OF ROWS	1				2			
MATERIAL		ALUMINUM COPPER							
EVAPORATOR	TYPE - QUANTITY	TUBE IN TUBE - 1							
	WATER FLOW (GPM)	7.2		9.6		12.0			
	WATER INLET CONNECTION	1-1/8"							
	WATER OUTLET CONNECTION	1-1/8"							
FAN	TYPE - QUANTITY	AXIAL - 1							
	DISCHARGE	HORIZONTAL							
	FLOW NOM (CFM)	4600							
	DIAM x SHAFT	24 x 1/2							
COND MOTOR	POWER (HP)	1/2		0.6		1/2		0.6	
	Ph / Hz	1 / 60							
	SPEED (RPM)	1075							
	VOLTS	208/230		460		208/230		460	
AMPERAGE		3.7		2		3.7		2	
COMPRESSOR	TYPE - QUANTITY	SCROLL - 1							
	POWER NOM HP (KW)	4.0 (3.06)		5.4 (4.02)		6.5 (4.85)			
	VOLTS	208/230		460		208/230		460	
	MAXIMUM VOLTAGE	253		414		253		414	
	MINIMUM VOLTAGE	187		506		187		506	
	Ph / Hz	1/60		3/60		3/60		1/60	
	AMPERAGE RLA	10.7		10.4		5.8		21.8	
	AMPERAGE LRA	7.9		7.3		3.8		11.7	

Information for Coolers without Water Pump.

Specifications are subject to change without notice.

*NOTE: Compressor Consumption for T.Evap = 38°F and T. cond = 110°F



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7EVZB Air Condenser

The Harmony line of water chillers, designed to operate with environmentally friendly R-410A coolant, offers high efficiency for commercial and industrial applications.

This water chiller line incorporates the latest technological innovations, including Scroll compressors, low-noise fans, microprocessor-based control, finned-tube condensers, and a hydronic module.

Benefit:

- High efficiency.
- Can be equipped with a hydronic module installed inside the equipment, which saves external space and facilitates installation.
- Tube-Tube Evaporators.
- Due to its reduced size and lightweight, with the help of optional dollies, it can be transported and placed in the required location.

Technical references and specifications:

UNIT	7EVZB			
MODEL	36	48	60	
WEIGHT (lbs)	236	267	278	
COOLANT	R-410A			
RATED CAPACITY (TR)	3	4	5	
COIL	TYPE - QUANTITY			
	CURVE - 1T			
	AREA (Foot 2)	13.7	17.5	18.5
	FIN/INCH	19		
EVAPORATOR	NUMBER OF ROWS			
	2			
	MATERIAL			
FAN	COPPER - ALUMINUM			
	TUBE IN TUBE -1			
	TYPE - QUANTITY			
	AXIAL - 1			
COND MOTOR	DISCHARGE			
	VERTICAL			
	FLOW NOM (CFM)			
	4600			
COMPRESSOR	DIAM x SHAFT			
	24 x 1/2			
	POWER (HP)			
	0.28	0.5		
COMPRESSOR	Ph / Hz			
	1 / 60			
	SPEED (RPM)			
	845	1090		
COMPRESSOR	VOLTS			
	208 - 230			
	AMPERAGE			
	0.96	1.67		
COMPRESSOR	TYPE - QUANTITY			
	SCROLL - 1			
	POWER NOM HP (KW)			
	4.09	5.42	6.48 (4.86)	
	(3.07)	(4.07)		
	VOLTS			
	208/230			
	MAXIMUM VOLTAGE			
253				
COMPRESSOR	MINIMUM VOLTAGE			
	187			
	Ph / Hz			
	1 / 60			
COMPRESSOR	AMPERAGE RLA			
	13.5	18.4	21.8	
COMPRESSOR	AMPERAGE LRA			
	79	117	134	
COMPRESSOR				
	110			

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7EZTR Air Condenser - RTPF

This line is designed for solutions with environmentally friendly R-410A refrigerant and high efficiency in hotel, commercial, and industrial applications. This family of water chillers incorporates the latest technological innovations, offering a wide range of options and solutions to meet the most demanding requirements and quality standards. These features include ozone-friendly refrigerants, Scroll compressors, low-noise fans, Carel microprocessor-based control, and finned-tube condensers (optional Microchannel).

Technical references and specifications:

UNIT	MODEL	7EZTR		
		08	10	12
CIRCUITS		1		
WEIGHT (lbs)		441	507	528
COOLANT	TYPE	R-410A		
	LOAD (lb)	9.7	13	16.2
COMPRESSOR	TYPE	SCROLL		
	QUANTITY	1	1	1
	POWER (kW) *	7.5	9.8	11.2
EVAPORATOR	TYPE	TUBE IN TUBE		
	QUANTITY	1		
	NUMBER OF CIRCUITS	1		
	PRES. DESIGN (REF)	392 PSI		
	PRES. DESIGN (WATER)	152PSI		
FAN	TYPE	AXIAL		
	AIRFLOW DIRECTION	VERTICAL		
	QUANTITY	2		
	DIAMETER (In.)	22		
	NOM. FLOW RATE (C.F.M.)	6000		
MOTOR	POWER (HP)	43922		
	QUANTITY	2		
	SPEED (r.p.m.)	1075	1075	1075
COIL	TYPE	ROUND PIPE - CORRUGATED FIN (RTPF)		
	MATERIAL	COPPER - ALUMINUM		
	QUANTITY	1		
	ROWS / APP	2/15	2/17	
	TOTAL AREA (Foot 2)	20.8	25.3	33.3
CONNECTIONS	WATER INLET (In.)	1 - 1/2	2	2
	WATER OUTLET (In.)	1 - 1/2	2	2
	DRAINAGE (In.)	1/2	1/2	1/2

Benefit:

- Its compact size and low height allow it to blend seamlessly with any architectural style.
- Quick access to interior components is possible thanks to its easily removable panels.
- Coaxial Tube-in-Tube evaporators with capacities ranging from 7.5 to 15 TR are employed, enabling efficient and flexible heat load management, especially in variable load applications.
- The axial fans used in 7EZT water chillers are manufactured and tested in the engineering laboratory of LAU Industries.

Information for Water Chillers without Water Pumps

Specifications are subject to change without prior notice

*NOTE: Compressor power consumption based on T. Evap = 38°F and T. cond = 110°F



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7EZER Air Condenser - RTPF

The 7EZER Water Chillers have been specially designed to achieve high-efficiency levels, utilizing high-performance components with low energy consumption and environmentally friendly R-410A refrigerant, thereby reducing the generation of impacts that could harm the environment.

Benefit:

- The compact size and low height allow it to blend seamlessly with any architectural style.
- Quick access to interior components is possible thanks to its easily removable panels.
- Shell and tube evaporators with capacities ranging from 20 to 30 TR are employed, enabling efficient and flexible heat load management, especially in variable load applications.
- The axial fans used in 7EZER water chillers are manufactured and tested in the engineering laboratory of LAU Industries.

Referencias y especificaciones técnicas:

UNIT		7EZER				
MODEL		15-1	15-2	20	25	30
CIRCUITS	QUANTITY	1		2		
	WEIGHT (lbs)	736	764	806	833	1108
COOLANT	TYPE	R-410A				
	LOAD (lb)	18,4	19,6	24,6	32,5	36,8
COMPRESOR	TYPE	SCROLL				
	QUANTITY	1	2			
	POWER (KW) *	13,0	15	19,5	22,3	26,1
EVAPORATOR	TYPE	TUBE IN TUBE		SHELL - TUBE		
	QUANTITY	1	2	1		
	NUMBER - OF CIRCUITS	1		2		
	PRES. DESIGN (REF)	392PSI				
FAN	PRES. WATER (REF)	152PSI				
	TYPE	AXIAL				
FAN	FLOW DIRECTION	VERTICAL				
	QUANTITY	2				
	DIAMETER (In.)	24		30		
	NOM. FLOW RATE (C.F.M)	9000		24500		
MOTOR	POWER (HP)	1/2		1.0		
	QUANTITY	2				
	SPEED (r.p.m.)	1075				
COIL	TYPE	ROUND PIPE - CORRUGATED FIN (RTPF)				
	MATERIAL	COPPER - ALUMINUM				
	QUANTITY	2				
	ROWS / APP	2/17		2		
CONNECTIONS	TOTAL AREA (ft2)	47,0	41.43	50.15	61.05	
	WATER INLET (In.)	2-1/2		3		
	WATER OUTLET(In.)	1/2		3/4		
CONNECTIONS	DRAINAGE (In.)	1/2		3/4		

Information for Water Chillers without Water Pumps

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Technical references and specifications:

UNIT	7EZDR			
	MODEL	40	50	60
CIRCUITS			2	
WEIGHT (lbs)		2285	2240	2350
COOLANT	TYPE		R-410A	
	LOAD (lb)	63	82	98
COMPRESSOR	TYPE		SCROLL	
	QUANTITY		4	
	POWER (kW)*	8.6	11.2	13.1
EVAPORATOR	TYPE		SHELL - TUBE	
	QUANTITY		1	
	NUMBER OF CIRCUITS		2	
	PRES. DESIGN (REF)		630 PSI	
FAN	PRES. DESIGN (WATER)		150 PSI	
	TYPE		AXIAL	
	AIRFLOW DIRECTION		VERTICAL	
MOTORT	QUANTITY		4	
	DIAMETER (In.)		30	
	NOM FLOW (C.F.M.)		49023	
	POWER (HP)		1.0	
COIL	QUANTITY		4	
	SPEED (r.p.m.)		1075	
	TYPE		FIN - TUBE	
CONNECTIONS	MATERIAL		COPPER - ALUMINUM	
	ROWS		2	
	TOTAL AREA (Foot 2)	82.9	100.3	122.1
	INLET (In.)		3	
CONNECTIONS	OUTLET (In.)		3	
	DRAIN (In.)		3/4	

Information for Water Chillers without Water Pumps

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*NOTE: Compressor power consumption based on T. Evap = 38°F and T. cond = 110°F



7EZDR Air Condenser

The 7EZDR water chiller can be supplied with a hydronic module for external installation, controlled by the machine's electronic controller. It manages the equipment's startup, the water pump, and the supply and return temperatures. Additionally, it provides equipment protection and transmits alarms.

Its compact size allows it to blend with any architectural style seamlessly. Easily removable panels provide quick access to any of its interior components. A wide range of models and capacities are available, with two or four compressors connected in tandem, two circuits, and numerous accessories.

The 7EZDR water chiller can be installed on the floor, in a garden, or on a terrace in a way that allows it to discharge air freely in a vertical direction.



Energy Savings and Comfort
Installation Flexibility

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latest-generation
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- Extends equipment life
- Resistant to salty environments
- Aesthetic finish



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