50Hz



	Model		JASA-LMVED33LF7E	JASA-LMVED43LF5E	JASA-LMVED44NF4E	JASA-LMVED44NF2E	JASA-LMVED54NG2E			
Cooling capacity		kW	820	905	940	1040	1150			
Cooling power inp	out	kW	262	288	292	334	364			
		kW/kW	3.13	3.13 3.14 3.22		3.11	3.16			
Rated power inpu	t	kW	314	346	350	401	437			
Power V/Ph/Hz			380V 3~50Hz							
Cooling adjustme	nt range	kW			20%~100%					
Operating control				Automatic microcompu	iter control, operating statu	us display, error alarms				
Safety protection	Туре			protection, freeze protecti	alarm, differential pressure ion, sensor protection, low a frequency variable volum	discharge superheating of				
Compressor	mpressor Quantity		2	2	2	2	2			
Refrigerant type			R134a	R134a	R134a	R134a	R134a			
Air side heat	Heat exchanger type		Aluminum fin-copper tube							
exchanger	Fan rated power		12×2.2	14×1.8	16×1.5	16×1.8	18×1.8			
	Water flow	m³/h	141.0	155.7	161.7	178.9	197.8			
Vater side heat	Pressure drop	kPa	≤60	≤65	≤70	≤70	≤70			
exchanger	Туре				Flooded evaporator					
	Inlet/outlet tube diameter		DN150	DN150	DN150	DN200	DN200			
	Width	mm	7490	8710	9930	9930	11150			
Outline dimension	Depth	mm	2250	2250	2250	2250	2250			
difficialori	Height	mm	2550	2550	2550	2550	2550			
2-1	Width	mm	7540	8760	9980	9980	11200			
Package dimension	Depth	mm	2330	2330	2330	2330	2330			
JII I OTIGIOTI	Height	mm	2550	2550	2550	2550	2550			
Net weight		kg	9350	9500	10780	11150	11930			
Gross weight		kg	9390	9540	10820	11230	12010			
Gross weight Operating weight		kg	9537	9690	10996	11373	12169			

LHE Series High-efficiency Water-cooled Screw Chiller





LHE series high-efficiency water-cooled screw chiller is specially desinged for improving efficiency and reducing operation cost. This chiller adopts Gree self-developed semi-hermetic twin screw compressor, high-efficiency flooded heat exchanger and eco-friendly R134a. Its EER can be up to 6.3. The cooling capacity under nominal working condition is 260~2100kW. LHE series high-efficiency water-cooled screw chiller can be applicable for offices, hospitals, schools, shopping malls, as well as factories.

Opera	ting condition of nominal	cooling (water temperatu		Operating range (water temperature)					
Chille	d water	Cooling water		Chilled water		Cooling water			
Inlet(°C)	Outlet(°C)	Inlet(°C)	Outlet(°C)	Outlet(°C)	I/O difference(°C)	Inlet(°C)	I/O difference(°C)		
-	7	30	2	4~15	2.5~8	18~35	3.5~8		

Features

Semi-closed Dual Screw Compressor for High-efficiency Unit

- Design for Jet-Air water-cooled screw chiller especially according to actual pressure ratio, high matching degree with the unit, reducing the overcompression and insufficient compression during the operation of compressor effectively, thus enhancing system energy efficiency.
- Self-developed efficient rotor type line (Chinese patent for utility model No.ZL201120008270.9), interdigitation gap is optimized, connection cable is short and the efficiency is even higher.
- Thanks to three-level combined built-in oil separator, the efficiency is over 99.7%, making the system more stable with lower noise.
- Adopt self-made closed motor to avoid refrigerant leakage and built-in PTC temperature protector for the motor, motor winding temperature can be effectively detected.
- Thanks to optimized cooling channel of the motor, cooling effect is better, which can enhance operation range of the compressor effectively.

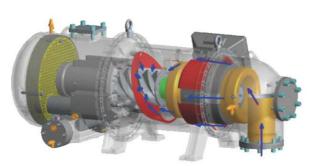






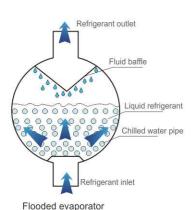
Low Pressure Loss Design

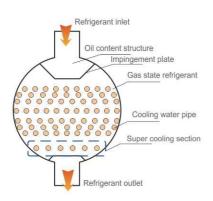
- Thanks to brand new design of "evaporation direct connection" air inlet structure, suction resistance is only 1kPa and cooling capacity of compressor will enhance by 2%.
- Thanks to spiral air inlet structure of low pressure loss, streamline air suction mouth design reduces the loss of suction resistance, increasing suction density of compressor and improving cooling capacity of compressor.
- Thanks to brand new air discharge low pressure loss pipeline design, resistance of the air discharge side is only 5kPa.



Heat Exchanger

- Flooded evaporator, built-in refrigerant uniform device and gas liquid separator device to make the refrigerant evenly distributed. During suction process, the liquid refrigerant quantity is less, enhancing heat efficiency of evaporation and improving unit energy efficiency.
- A device to prevent the high-speed and high-pressure gas from impacting the heat exchanger tube is set at the upper condenser, containing the vibration of heat exchanger tube and improving the operation reliability of condenser; the built-in subcooling device at the bottom can enhance subcooling degree and improve refrigeration circulation efficiency of water chiller.
- Efficient heat exchanger, intensifying the heat transfer efficiency of water side and refrigerant side at the same time, further enhances energy efficiency of water chiller. Adopting mechanical expanded tube joint as the sealing method for heat exchange tube and tube plate, 3 sealed grooves are designed in the expanded tube joint, improving the sealing reliability.





Shell and tube condenser

Vertical Oil Separator

Adopt efficient vertical oil separator, the structure is tight, through cyclone separation, inertial impaction, natural settingand adsorption separation, oil and gas is separated thoroughly, oil separation efficiency is up to 99.98%.



New Throttling Structure

The high precision electronic expansion valve can adjust the flow of refrigerant accurately, keep track of the variation of evaporator liquid level timely; further optimizes the control logic, calculate the control liquid level automatically, and quickly adjust the actual value, realizing "output according to actual demand", ensuring high energy efficiency of some loads of the unit, making the unit operation range wider.



Strict Tests

Components are strictly tested before entering the factory. Impellers are made of high-strength aluminum alloy, which is highly anti-corrosive. They must pass strict tests after manufacturing. Heat exchangers are designed in strict accordance with relevant codes of pressure vessels and tested in 1.5 times of working pressure. The unit will take complete performance tests and reliability tests before leaving the factory.

Multiple Protections

The unit has multiple protections function, such as high temperature protection for air discharge, overheat protection for frequency converter, safety valve protection, overheating protection for motor winding, low pressure protection, high pressure protection, anti-freezing protection, switch protection for water flow, phase loss and phase failure protection and electronic component protection, ensuring stable operation under all kinds of conditions and avoiding the damage incurred.



failure protection















Anti-freezing

Electric component over-temperature protection

Convenient Installation and Maintenance

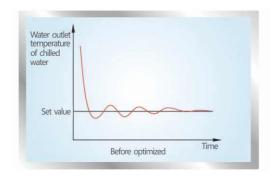
- Dual units and dual circuits design for unit maintenance.
- Tight structure design with small floor space.
- Parallel arrangement of evaporator and condenser to lower unit gravity center, ensuring transportation safety.
- Before leaving the factory, sufficient refrigerant and refrigerant oil has been charged, on-site charging is needless.
- Before leaving the factory, tests have been conducted according to national standard and the designated working conditions of the user; just connect the water pipe and power on site for operation.

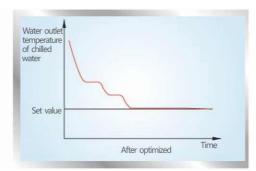


Auto-adjusting Technology, Stable Output

The control system can not only adjust load according to cold water leaving temperature but also predict and compensate the change of air conditioning load based on the change rate of cold water entering temperature. The unit can achieve faster load adjustment and stable water leaving temperature.

When the unit is under bad working condition, it will adjust the running parameters to keep itself running rather than frequently stop. The unit can operate stably and reliably to satisfy customers' refrigerating demand.





Color Touch Screen Display Control Center

Control: It's with intelligent control system and friendly human-machine interaction interface; If the display screen is damaged accidentally, the unit can be operated manually through the equipped switch.

- Color touch screen of 12 inches
- Visual and dynamic information
- Intelligent image data
- Auto backup of parameter and synchronization
- Dual system control logic
- Auto detection protection



High-performance Digital Single Processing Platform

The control system adopts high-performance 32-bit CPU and DSP digital signal processor. The excellent data collection accuracy and data processing capability ensure timely and precise system control. The unit also adopts the intelligent Fuzzy-PID compound control algorithm, which is a control method comprising the intelligent technology, fuzzy technology and PID control algorithm, ensuring fast response and stable performance.

Authority Classification with Passwords

Control center has access passwords for operators so that set values won't be changed without authorization. Access authority is classified to user access and manufacturer access. User password is used to start up unit and enter the interface of user parameter setting. It is managed and can be changed by the user. Manufacturer password is used to enter the interface of manufacture parameter setting. Any change of the manufacture parameters may affect unit's reliability; therefore it must be kept by professional engineering and debugging personnel.





Mode	JASA-LHE		353CE5AE2	353CE4AE1E	533CE3CE3	553CE2CE2	553CE1CE1E	643EE7EE7			
Cooling consoit		kW	261.6	294.7	341.3	367.9	425.8	455.3			
		RT	74.4	83.8	97.0	104.6	121.1	129.4			
Capacity adjustr	nent range	%			25%-	100%					
		W/W	5.89	5.94	6.01	6.05	6.06	6.02			
PLV		W/W	6.94	7.04	7.11	7.16	7.11	7.04			
Power supply		V/Ph/Hz	/Ph/Hz 380V 3~ 50Hz								
Power input		kW	44.4	49.6	56.8	60.8	70.3	75.6			
RLA		Α	78.4	87.6	100.4	107.4	124.2	133.6			
	Type	-		Semi-closed permanent magnetic synchronous inverter scre		chronous inverter screw	compressor				
Compressor St. Question of the content of the conte	Starting mode	-			Y—/S	oft start					
	Quantity		1	1	1	1	1	1			
Refrigerant char	ge volume	kg	85	100	105	107.4 124.2 133.6 synchronous inverter screw compressor -/Soft start 1 1 1 1 110 115 130 -Solest-170 23 23 23 23 and tube evaporator 0.018 0.018 0.018 58 125 71 253 549 313 35.6 32.1 33.7 11.7 10.5 11.1 DN100 DN100 DN125					
	Type	-		CPI-Solest-170							
efrigeration oil	Charge volume	L	20	20	200 TO 100 TO 10		23	23			
	Type	-	Flooded shell and tube evaporator								
	Fouling factor	m·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018			
	Water flow rate	m³/h	41	46	53	58	125	71			
vaporator		GPM	180	203	235	253	549	313			
	Pressure drop	kPa	36.6	37.8	32.5	35.6	32.1	33.7			
		ft.H ₂ O	12.0	12.4	10.7	11.7	10.5	11.1			
	Connection pipe	mm	DN100	DN100	DN100	DN100	DN100	DN125			
	Type	-	Horizontal shell and tube condenser								
	Fouling factor	m·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044			
	Water flow	m³/h	51	57	66	71	83	88			
Condenser	volume	GPM	224	252	292	314	363	389			
		kPa	41.9	44.7	42.2	42.3	46.1	40.9			
	Pressure drop	ft.H ₂ O	13.7	14.7	13.8	13.9	15.1	13.4			
	Connection pipe	mm	DN100	DN100	DN125	DN125	DN125	DN125			
Connection pipe ound pressure level(Max.)		dB(A)	81	81.2	82	82.5	82.8	83			
	Outline(W×D×H)	mm	3170×1188×1850	3170×1188×1850	3175×1365×1959	3175×1365×1959	3175×1365×1959	3240×1465×204			
Dimension	Package(W×D×H	100000000000000000000000000000000000000	3400×1350×1900	3400×1350×1900	3400×1550×2050	3400×1550×2050	3400×1550×2050	3400×1600×220			
Net/Gross/Opera	9	kg	2300/2400/2450	2330/2430/2450	2730/2850/2900	2780/2880/2950	2800/2900/2950	3350/3450/3550			
oading quantity		set	1	1	1	1	1	1			

50Hz



₹134A

Mode	I JASA-LHE		653EE6EE6	653EE5EE5E	822EE4EE4	832EE3EE3	832EE2EE2E	862EE1EE1E		
Cooling capacity Capacity adjustment range		kW	484.6	544.7	593.7	663	698.0	744.9		
		RT	137.8	154.8	168.8	188.5	198.5	211.8		
Capacity adjustn	nent range	%			25%-	100%				
ER		W/W	6.05	6.03	6.02	6.02	6.02	6.03		
PLV		W/W	7.17	7.02	7.06	7.05	7.10	7.11		
Power supply		V/Ph/Hz	380V 3~ 50Hz							
ower input		kW	80.1	90.3	98.6	110.1	116.0	123.6		
LA		Α	141.5	159.5	174.2	194.5	204.8	218.4		
	Туре	-		Semi-closed permanent magnetic synchronous inverter screw compressor						
ompressor	Starting mode	-			Y—/Sc					
	Quantity	-	1	1	1	1	1	1		
efrigerant char	gerant charge volume kg 140 150 180 190 180			180						
ofrigoration oil	Туре	1000			CPI-So	lest-170	t-170			
	Charge volume	L	23	23	28	28	28	28		
Evaporator	Туре	-	Flooded shell and tube evaporator							
	Fouling factor	m-°C/kW	0.018	0.018	0.018	0.018	0.018	0.018		
	Water flow rate	m³/h	76	85	93	104	109	116		
		GPM	334	375	409	456	481	513		
	Pressure drop	kPa	36.5	40.7	36.2	39.6	36.4	35.6		
		ft.H ₂ O	12.0	13.3	11.9	13.0	11.9	11.7		
	Connection pipe	mm	DN125	DN125	DN150	DN150	DN150	DN150		
	Туре	-			Horizontal shell an	d tube condenser	'			
	Fouling factor	m-°C/kW	0.044	0.044	0.044	0.044	0.044	0.044		
	Water flow	m³/h	94	106	115	129	135	144		
ondenser	volume	GPM	414	465	507	566	596	636		
		kPa	43.1	45.3	41.8	44.2	43.1	36.3		
	Pressure drop	ft.H ₂ O	14.1	14.9	13.7	14.5	14.1	11.9		
	Connection pipe	mm	DN125	DN125	DN150	DN150	DN150	DN150		
ound pressure	level(Max.)	dB(A)	83.5	83.8	85	86	86.8	87		
	Outline(W×D×H)	mm	3240×1465×2040	3240×1465×2040	3240×1508×2100	3240×1508×2100	3240×1508×2100	3240×1508×2100		
imension	Package(W×D×H)	100000000000000000000000000000000000000	3400×1600×2200	3400×1600×2200	3400×1650×2250	3400×1650×2250	3400×1650×2250	3400×1650×2250		
et/Gross/Opera	iting weight	kg	3370/3470/3550	3400/3500/3600	3830/3930/4050	3880/3980/4100	3930/4030/4150	3980/4080/4200		
Commence of the second contract of	40'GP/40'HQ	set	1	1	1	1	1	1		

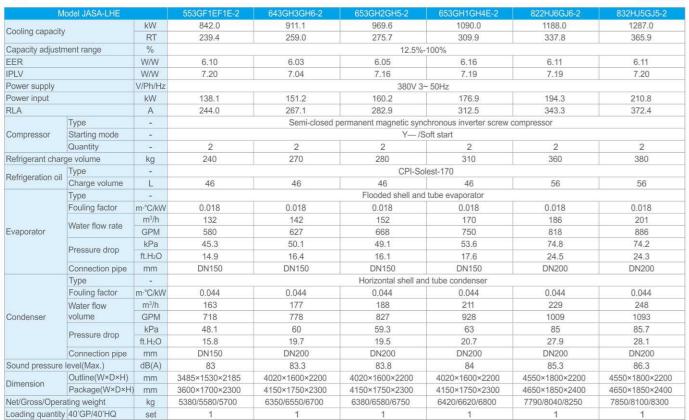
Note: These models are not for EU.



50Hz

N/	odel JASA-LHE		932EE9EE9E	942HE3GE3	952HE2GE2	952HE1GE1E	533GF2EF2-2	553GF2EF2-2
Model of to the		kW	842.0	911.8	971.7	1052.0	697.5	744.1
Cooling capacity		RT	239.4	259.2	276.5	299.1	198.3	211.5
apacity adjustment range %		10000	233.4	259.2	12.5%-100%			
		W/W	5.78 5.79		5.83 5.90		6.02	6.03
PLV		W/W	7.72	7.65	7.50	7.56	7.10	7.14
ower supply		V/Ph/Hz	1.12	7.03	380V 3		7.10	7.14
ower supply ower input		kW	145.8	157.4	166.8	178.4	115.9	123.5
_A		A	257.6	278.1	294.2	315.2	204.8	218.2
-^	Type		237.0		permanent magnetic synd	VEVI 5000		210.2
ompressor	Starting mode	_		Gerrii-closed p		oft start	compressor	
unpressur	Quantity	-	1	1	1—73	1	2	2
efrigerant char			240	260	260	280	200	220
singerant char		kg -	240	200		lest-170	200	220
etrineration oil	Type Charge volume	L	35	35	35	35	40	46
		_	33	Flooded shell and tube evaporator				40
	Туре	m-°C/kW	0.040				0.040	0.040
	Fouling factor	TORED MESSELVERY	0.018	0.018	0.018	0.018	0.018	0.018
renerous autorior	Water flow rate	m³/h	132	143	152	164	109	116
aporator		GPM	580	628	670	724	480	512
	Pressure drop	kPa	36.7	29.5	29.2	29.5	36.1	40.5
		ft.H ₂ O	12.0	9.7	9.6	9.7	11.8	13.3
	Connection pipe	mm	DN150	DN150	DN150	DN150	DN150	DN150
	Туре	-			Horizontal shell an			
		m·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044
	Water flow	m³/h	164	178	189	205	135	144
ondenser	volume	GPM	723	783	834	901	596	635
	Pressure drop	kPa	41.0	32.9	32.5	32.6	41.1	46.0
	- massacratic	ft.H ₂ O	13.4	10.8	10.7	10.7	13.5	15.1
	Connection pipe	mm	DN150	DN200	DN200	DN200	DN150	DN150
und pressure	A STATE OF THE STA	dB(A)	88	88.5	88.8	89	82.3	82.8
mension	Outline(W×D×H)	mm	3260×1740×2370	3390×1830×2370	3390×1830×2370	3390×1830×2370	3485×1530×2185	3485×1530×2185
	Package(W×D×H)		3450×1850×2550	3450×1850×2550	3450×1850×2550	3450×1850×2550	3600×1700×2300	3600×1700×2300
et/Gross/Opera		kg	4800/4950/5100	5400/5550/5700	5500/5650/5750	5600/5750/5950	5250/5450/5500	5330/5530/5600
pading quantity	40'GP/40'HQ	set	1	1	1	1	1	1

50Hz



Note: These models are not for EU.



50Hz

50Hz									₹134 A	
M	odel JASA-LHE		832HJ4GJ4E-2	842HJ4GJ4E-2	932KK3JK3-2	932KK4JK4-2	942KK2JK2-2	952KK1JK1E-2	952LK1JK5E-2	
0		kW	1386.0	1467.0	1583.0	1682.0	1832.0	1982.0	2102	
Cooling capacity	/	RT	394.1	416.8	450.1	478.2	520.9	563.5	597.4	
Capacity adjustr	ment range	%		12.5%-100%						
EER		W/W	6.12	6.15	5.78	5.80	5.82	5.85	5.91	
PLV		W/W	7.15	7.14	7.72	7.68	7.69	7.63	7.54	
Power supply		V/Ph/Hz			380V 3	~ 50Hz				
Power input		kW	226.5	238.5	273.7	289.9	314.6	338.9	355.6	
RLA		Α	400.2	421.4	483.0	511.8	556.0	559.1	629.0	
	Туре	-		Semi-closed per	manent magnetic sy	nchronous inverter s	screw compressor			
Compressor	Starting mode	-				oft start				
	Quantity	(4)	2	2	2	2	2	2	2	
Refrigerant charge volume		kg	420	420	550	550	580	600	600	
	Type	-	CPI-Solest-170							
Refrigeration oil	Charge volume	L	56	56	70	70	70	70	70	
	Type	-	Flooded shell and tube evaporator							
	Fouling factor	m·°C/kW	0.018	0.018	0.018	0.018	0.018	0.018	0.018	
	Water flow rate	m ³ /h	217	229	248	263	286	310	329	
vaporator		GPM	954	1010	1090	1158	1261	1365	1447	
	Pressure drop	kPa	72.8	80.5	54.2	53.7	56.8	54.1	52.2	
		ft.H ₂ O	23.9	26.4	17.8	17.6	18.6	17.7	17.1	
	Connection pipe	mm	DN200	DN200	DN250	DN250	DN250	DN250	DN250	
	Type	-			Horizontal shell a	nd tube condenser		5000 0000000		
	Fouling factor	m·°C/kW	0.044	0.044	0.044	0.044	0.044	0.044	0.044	
	Water flow	m ³ /h	267	283	309	328	357	386	409	
Condenser	volume	GPM	1177	1245	1360	1444	1572	1699	1799	
	_	kPa	84.4	93	35.3	35.4	37.5	36.2	37.2	
	Pressure drop	ft.H ₂ O	27.7	30.5	11.6	11.6	12.3	11.9	12.2	
	Connection pipe	mm	DN200	DN200	DN250	DN250	DN250	DN250	DN250	
Sound pressure		dB(A)	87	87.3	88.3	88.8	89	89.3	89.5	
e2 S	Outline(W×D×H)	mm	4550×1800×2200	4550×1800×2200	4600×1770×2490	4600×1770×2490	4720×1900×2530	4720×1900×2530	4720×1900×2530	
Dimension	Package(W×D×H)	mm	4550×1800×2200	4550×1800×2200	4650×1900×2650	4650×1900×2650	4750×2000×2700	4750×2000×2700	4750×2000×2700	
Net/Gross/Oper	0 1	kg	7900/8150/8400	7950/8200/8450	9450/9760/10050		9700/10010/10250	9750/10060/10400	9800/10110/10500	
	40'GP/40'HQ	set	1	1	1	1	1	1	1	

Note: These models are not for EU.

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