

LYD Energy Saving Technology Co., Ltd

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Inverter CO2(R744) Air Source Heat Pump

Parameters		Model	LYD	7ZW(250L)	8ZW	14ZW	30ZW	40ZW	75ZW	120ZW	160ZW
Standard temperature condition	Heating Capacity	kW	6.8	7.8	13.6	30.5	40	75.5	125.4	163	
	Hot water capacity	L/H	129.9	149	259.8	584	764	1442	2396	3114	
	Heating power input	kW	1.51	1.7	3	6.8	9	16.7	26.6	36.1	
	COP	W/W	4.5	4.58	4.6	4.5	4.4	4.5	4.7	4.51	
Low temperature condition	Heating Capacity	kW	5.8	7	12.1	26	35	64	95	147	
	Hot water capacity	L/H	97.7	118	203.9	439	590	1079	1602	2478	
	Heating power input	kW	1.47	1.7	3	6.9	9.4	16.8	24.3	33.2	
	COP	W/W	3.9	4.1	4.1	3.8	3.7	3.8	3.9	4.4	
Ultra-Low temperature condition	Heating Capacity	kW	5.3	6.5	11.2	19.5	28	49.1	78	104	
	Hot water capacity	L/H	89.3	109	188.8	330	472	826	1315	1753	
	Heating power input	kW	1.46	1.71	2.9	6.8	10.1	16.8	26	33.6	
	COP	W/W	3.62	3.8	3.9	2.9	2.8	2.9	3	3.1	
Power supply	V/Ph/Hz		220V/1PH/50~60Hz			380V/3PH/50~60Hz					
Heating type			Instant								
Rated output water temperature		°C	45								
Maximum output water temperature		°C	90								
Work ambient temperature		°C	(-)25-43								
Compressor	Type		Panasonic			Dorin(Italy)				Bitzer	
water pump	Brand		Nidec (DC)			Wilo(Inverter AC)					

	Power	kW	0.05	0.05	0.08	0.37	0.37	0.55	1.1	1.85
Defrosting type			Bypass							
Water connection pipe size	mm	DN15	DN20				DN25	DN32	DN40	
Gas cooler	Type	Tube-Tube type								
Air cooler	Type	High efficiency copper tube(Interior Screw) nested in aluminium fin								
Refrigerant	Type	R744/CO2								
Controller	Brand	CAREL(Italy)								
Dimensions	Length	mm	850	910	1060	1580	1803	2046	2468	3855
	Width	mm	680	488	488	800	830	1106	1368	1123
	Height	mm	2060	1000	1380	1500	2100	2300	2413	2108
Unit noise level		dB(A)	45	46	48	49	54	60	65	70
Net weight		kg	132	130	200	525	650	980	1350	2200
Inverter			DC				AC			

Note:

1. Standard temperature condition: Ambient temperature 20°C, Water temperature: inlet 15°C, outlet 60°C
2. Low temperature condition: Ambient temperature 7°C, Water temperature: inlet 9°C, outlet 60°C
3. Ultra-Low temperature condition: Ambient temperature -7°C, Water temperature: inlet 9°C, outlet 60°C
4. LYD-7ZW(250L) is all in one units, with a 250L water tank integrated