

1. Outdoor Unit

1-1. Specifications

Unit specifications

Outdoor Unit		MODEL	U-8LE1E8			U-10LE1E8			
Performance test condition		EN14511						EN14511	
Power supply		φ,Hz	3φ, 380/400/415V,50Hz			3φ, 380/400/415V,50Hz			
		V	380	400	415	380	400	415	
C O O L I N G	Capacity	kW	22.4	22.4	22.4	28.0	28.0	28.0	
		BTU/h	76500	76500	76500	95600	95600	95600	
	Current	A	9.60	9.15	8.80	14.7	14.0	13.5	
	Input power	W	5.89k	5.89k	5.89k	9.00k	9.00k	9.00k	
	EER	(W/W)	3.80	3.80	3.80	3.11	3.11	3.11	
	Power factor	%	93	93	93	93	93	93	
N O I S E	Noise outdoor	dB-A (Normal)	60.0			63.0			
		Power Level dB (Normal)	81.0			84.0			
		dB-A (Silent 1)	57.0			60.0			
		dB-A (Silent 2)	55.0			58.0			
		dB-A (Silent 3)	53.0			56.0			
H E A T I N G	Capacity	kW	25.0	25.0	25.0	28.0	28.0	28.0	
		BTU/h	85300	85300	85300	95600	95600	95600	
	Current	A	10.2	9.65	9.30	11.6	11.1	10.7	
	Input power	W	6.22k	6.22k	6.22k	7.13k	7.13k	7.13k	
	COP	(W / W)	4.02	4.02	4.02	3.93	3.93	3.93	
	Power factor	%	93	93	93	93	93	93	
Max Current (A) / Max Input power (W)			13.7 / 9.16k	13.7 / 9.16k	13.7 / 9.16k	19.6 / 13.1k	19.6 / 13.1k	19.6 / 13.1k	
Starting current (A)			1	1	1	1	1	1	
Time Delay fuse max size (A)			25			30			
Fan motor output		W / Pole number	120 / 8			120 / 8			
External static pressure		Pa	0 ~ 35			0 ~ 35			
Air flow		m ³ / min	150			160			
Refrigerant type / amount g			R410A / 6.3k			R410A / 6.6k			
P R O D U C T	dimension	Height mm	1500			1500			
		Width mm	980			980			
		Depth mm	370			370			
P A C K I N G	dimension	Height mm	1642			1642			
		Width mm	1095			1095			
		Depth mm	529			529			
W E I G H T	Weight	(NET) kg	132			133			
		(GROSS) kg	144			145			
Layers limit			2			2			
O P E R A T I O N	condition	Cool (DBT)	-10°C ~ 46°C			-10°C ~ 46°C			
		Heat (WBT)	-20°C ~ 18°C			-20°C ~ 18°C			
M A X. W O R K I N G P R E S S U R E	High side bar (MPa)		38.0 (3.80)			38.0 (3.80)			
		Low side bar (MPa)	27.0 (2.70)			27.0 (2.70)			
P I P E I N G	Pipe diameter mm (inch)		(Liquid) 9.52(3/8)			(Liquid) 9.52(3/8)			
	(Under 90m for ultimate Indoor unit.)		(Gas) 19.05(3/4)			(Gas) 22.22(7/8)			
	Pipe diameter mm (inch) *1		(Liquid) 12.7(1/2)			(Liquid) 12.7(1/2)			
	(Over 90m for ultimate Indoor unit.)		(Gas) 22.22(7/8)			(Gas) 25.4(1)			
	Connecting method		flared(Liquid) , flared(Gas)			flared(Liquid) , brazing(Gas)			
	Max tubing length m		7.5	~	150	7.5	~	150	
Total Max tubing length m		7.5	~	300	7.5	~	300		
Indoor unit & Outdoor unit height difference (Outdoor unit upper / Outdoor unit Lower) m		50 / 40			50 / 40				
Max connectable indoor units pcs.		15 *2			15 *2				
Max allowable indoor/outdoor capacity ratio %		50 ~ 130			50 ~ 130				

*1: If the longest tubing equivalent length exceeds 90m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes.

*2: If the heating utilized, it is necessary to increase 1 size with respect to the main liquid pipe, depending on the combination of the indoor unit.

Max total refrigerant amount of 1 outdoor unit is 24kg.