

# 6-3. SPECIFICATIONS

TYPE				DUCTED INVERTER MODELS				
				HEAT PUMP TYPE				
MODEL NAME		INDOOR		AR * 45LUAK		AR * 54LUAK		
		OUTDOOR		AO * 45LJAYL, AO * 45LJBYL		AO * 54LJAYL, AO * 54LJBYL		
POWER SOURCE				230V~ 50Hz				
AVAILABLE VOLTAGE RANGE				198-264V~ 50Hz				
CAPACITY	COOLING	RATED / MAX	kW	12.5 / 14.0		14.0 / 15.3		
				BTU/h		42700 / 47800		47800 / 52200
	HEATING	RATED / MAX	kW	14.0 / 18.0		16.0 / 19.0		
				BTU/h		47800 / 61500		54600 / 64900
INPUT POWER	COOLING	RATED / MAX	kW	4.30 / 5.15		5.36 / 5.90		
	HEATING	RATED / MAX		3.80 / 5.15		4.70 / 5.90		
CURRENT	COOLING	RATED / MAX	A	18.9 / 22.6		23.6 / 25.9		
	HEATING	RATED / MAX		16.7 / 22.5		20.6 / 25.9		
STARTING CURRENT			A	15		15		
EER			COOLING	2.91		2.61		
COP			HEATING	3.68		3.40		
MOISTURE REMOVAL			l/h (pints/h)	3.0 (1.4)		4.0 (1.9)		
AIR CIRCULATION COOL/HEAT	INDOOR COOL	High	m3/h	3500/3500				
		Med		3000/3000				
		Low		2460/2460				
		QUIET		-				
	OUTDOOR	High		6600/6600				
		Low		-				
FAN SPEED COOL/HEAT	INDOOR	High	r.p.m	1300/1300				
		Med		1130/1130				
		Low		950/950				
		QUIET		-				
	OUTDOOR	High		UPPER FAN : 850 LOWER FAN : 750				
		Low		-				
RECOMMENDED STATIC PRESSURE			Pa	100 to 250		100 to 250		
FAN TYPE x Q'ty		INDOOR		Sirocco x 2				
		OUTDOOR		Propeller x 2				
FAN MOTOR OUTPUT		INDOOR		539				
		OUTDOOR		103				
NOISE LEVEL (SOUND PRESSURE)	INDOOR	High	dB(A)	49 / 49				
		Med		45 / 45				
		Low		42 / 42				
	OUTDOOR					52 / 53		52 / 53
COMPRESSOR	TYPE		DC SCROLL					
	OUTPUT		W	2500		2500		
STARTING METHOD		Inverter Method						
HEAT EXCHANGER TYPE	INDOOR	Coil		Plate fin coil				
		Surface treatment		Hydrophilic coating				
		Rows x Stages	mm	4 x 16				
		Fin Pitch		1.3				
		Coil Dimensions		336.0x890.0x53.2				
	Coil			Plate fin coil				
	OUTDOOR	Surface treatment		Corrosion resistant coating				
		Rows x Stages	mm	2 x 60				
		Fin Pitch		1.3				
		Coil Dimensions		1260.0x900.0x36.38				
Coil		Plate fin coil						
SAFETY DEVICES		INDOOR	Fan motor thermal protector,Fuse					
		OUTDOOR	Fan motor thermal protector,Fuse					
CASING COLOR		INDOOR	Hot-dipped galvanized steel sheet					
		OUTDOOR	Beige(10YR7.5/1.0NN)					
DIMENSIONS H x W x D	INDOOR	NET	mm	400 x 1050(1150)* x 500(585)*				
	OUTDOOR			1290 x 900 x 330				
	INDOOR	GROSS		460 x 1230 x 640				
	OUTDOOR			1430 x 1050 x 445				
WEIGHT	INDOOR	NET /	kg(lbs)	50 (110) / 55 (121)				
	OUTDOOR	GROSS		105 (231) / 112 (247)				
PIPE	CONNECTION METHOD			FLARE				
	SIZE	LIQUID	mm	9.52 (3/8 inc.)				
		GAS		15.88(5/8 inc.)				
	MAX LENGTH			m	70 (chargeless:20m)			
	MAX HEIGHT			m	30			
REFRIGERANT		TYPE		R410A				
		CHARGE	g	3400		3400		
REFRIGERANT OIL		TYPE		Synthetic (POE oil)				
OPERATION(OUTDOOR)		COOLING	°C	-15 to 43				
		HEATING		-15 to 24				
REMOTE CONTROLLER				WIRED		WIRED		
DRAIN PIPE	MATERIAL			Steel				
	SIZE			mm	Outer diameter 25.4 / Inner diameter 21.5			

**Note:** Specifications are based on the following conditions.  
 Cooling: Indoor temperature of 27 °CDB / 19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.  
 Heating: Indoor temperature of 20 °CDB / 15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.  
 Standard static pressure : 100 Pa.  
 Pipe length : 7.5 m, Height difference : 0 m. (Outdoor unit - Indoor unit)  
 dimensions( ) \* are indicated the including flange, control box, safety drain pan.

TYPE				DUCTED INVERTER MODELS			
				HEAT PUMP TYPE			
MODEL NAME		INDOOR		ART45LUAK		ART54LUAK	
		OUTDOOR		AOT45LJAYL, AOT45LJBYL		AOT54LJAYL, AOT54LJBYL	
POWER SOURCE				240V~ 50Hz			
AVAILABLE VOLTAGE RANGE				198-264V~ 50Hz			
CAPACITY	COOLING	RATED / MAX	kW	12.5 / 14.0		14.5 / 15.3	
			BTU/h	42700 / 47800		49500 / 52200	
	HEATING	RATED / MAX	kW	14.0 / 18.0		16.0 / 20.0	
			BTU/h	47800 / 61500		54600 / 68300	
INPUT POWER	COOLING	RATED / MAX	kW	4.30 / 5.35		5.57 / 6.15	
	HEATING	RATED / MAX	kW	3.80 / 5.35		4.70 / 6.15	
CURRENT	COOLING	RATED / MAX	A	18.1 / 22.5		23.5 / 25.9	
	HEATING	RATED / MAX	A	16.0 / 22.5		19.8 / 25.9	
STARTING CURRENT			A	15		15	
EER		COOLING	kW/kW	2.91		2.61	
COP		HEATING		3.68		3.40	
MOISTURE REMOVAL			l/h (pints/h)	3.0 (1.4)		4.0 (1.9)	
AIR CIRCULATION COOL/HEAT	INDOOR COOL	High	m3/h	3500/3500			
		Med		3000/3000			
		Low		2460/2460			
		QUIET		-			
	OUTDOOR	High		6600/6600			
		Low		-			
FAN SPEED COOL/HEAT	INDOOR	High	r.p.m	1300/1300			
		Med		1130/1130			
		Low		950/950			
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NOISE LEVEL (SOUND PRESSURE)	INDOOR	High	dB(A)	49 / 49			
		Med		45 / 45			
		Low		42 / 42			
COOL/HEAT	OUTDOOR			52 / 53		52 / 53	
COMPRESSOR		TYPE	DC SCROLL				
		OUTPUT	W	2500		2500	
		STARTING METHOD	Inverter Method				
HEAT EXCHANGER TYPE	INDOOR	Coil	Plate fin coil				
		Surface treatment	Hydrophilic coating				
		Rows x Stages	mm	4 x 16			
		Fin Pitch		1.3			
	Coil Dimensions	336.0x890.0x53.2					
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